



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Bulletin 15 Description

Bulletin 15 is a listing of prequalified materials that are eligible for use on Department construction projects. The purpose of Bulletin 15 is to provide contractors, consultants, Department personnel, manufacturers, suppliers, and others with easy access to a listing of products whose manufacturers have demonstrated the capability to perform in accordance with Department specifications and to be accepted by certification on PennDOT construction projects. Contractors are ultimately responsible to the Department for the performance of all materials and products supplied to, installed or placed on, and/or incorporated into Department construction projects, notwithstanding the listing of any such materials and products in Bulletin 15

Bulletin 15 is available to the public in two formats: as a searchable database and as a pdf document.

Bulletin 15 listings are organized in the format of Publication 408, Specifications. A Bulletin 15 listing includes an assigned supplier code, the supplier name and address, the product name/type/use, and reference number. The reference number (Ref. No.) is the Product Evaluation control number under which the item was tested and approved (the first four digits are the year of submission). The absence of a reference number indicates that the item was approved prior to the implementation of the current numbering system. For some precast and prestressed items, the date of the approval letter from the Structural Materials Section is provided. For traffic items, the Traffic Division "Certificate of Approval (COA)" number or date is provided.

Bulletin 15 listings will indicate if a Producer is on a reduced Level of Certification (i.e. at a certification level other than Level 1). Producers are assigned a Level of Certification, based on their ability to comply with the specifications. Material provided by Producers listed in Bulletin 15 is approved for use only in its intended application(s).

Bulletin 15 listings will also indicate by notation if a product has received either a **Provisional Approval** or a **Conditional Approval**. These approval categories usually involve products that require further monitoring. The Department has the right to remove any provisionally approved or conditionally approved manufacturer and/or product from Bulletin 15 immediately.

- Provisionally approved products are typically products approved under provisional specifications.
- Conditionally approved products are products approved under manufacturer's specifications. PennDOT may supplement or modify the manufacturer's specifications as needed using special provisions.



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Bulletin 15 Material Approval Process

The web-based Product Evaluation Application within the New Product Evaluation and Tracking System (NPETS) in PennDOT's electronic Construction and Materials Management System (eCAMMS) is the means to submit products for consideration for approval and listing in Bulletin 15. To gain access to eCAMMS (NPETS) for completion and submission of a Product Evaluation Application, the individual Applicant must complete and return the User Request Form: [Product Evaluation Applicant User Request Form](#). Even if you already have an existing eCAMMS user account as a Business Partner, you must request NPETS access by submitting this User Request form. Upon activation of your user account, you may access eCAMMS (NPETS) via the "Product Evaluation" menu in eCAMMS at www.ecamms.pa.gov, to submit a product evaluation application to PennDOT for listing in [Bulletin 15, Qualified Products List for Construction](#).

The following entities are eligible to apply for Bulletin 15 approval:

- Manufacturers
- Steel Epoxy Coaters or Galvanizers
- Wood Treaters
- Steel, Aluminum or Timber Fabricators
- Machine Shops
- Paint Shops
- Precast/Prestressed Concrete Producers
- Cement Plants or Terminals
- Pozzolan Providers
- Bituminous Terminals or Refineries
- Bridge & Structural Products
- Structural Steel Coatings
- Geotextiles
- ITS Devices
- Pavement Markings
- Pipe
- Roadside Safety Hardware
- Sign Sheeting
- Sound Barriers
- Traffic Signals
- Work Zone Devices



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The Product Evaluation Application requires company information, product description and technical information, and Quality Control plan information. The Product Evaluation Application also requires specialized testing and certification for some manufacturers/companies, as summarized in the table below:

Manufacturer / Company	Requirement for Application Submission
Structural Steel Coatings (SSC)	NEPCOAT Approved, NTPEP Tested
Geotextiles (GTX)	NTPEP Tested
High Density Polyethylene Pipe (HDPE)	NTPEP Tested
Pavement Marking Materials (PMM)	NTPEP Tested
Sign Sheeting Materials (SSM)	NTPEP Tested
Precast Concrete Products	NPCA or PCI Plant Certified
Prestressed Concrete Products	PCI Plant Certified
Reinforced Concrete Pipe	NPCA, ACPA, or Q-Cast Plant Certified
Roadside Hardware / Work Zone Devices	Crash Test Report
Sound Barriers	Noise Reduction Analysis
Structural Steel Fabrication with Welding	AISC Certified
Structural Paint Shops	AISC or SSPC Certified

During the product evaluation/approval process, index properties (including tolerances or ranges for these index properties) may be established for applicable products or product lines as a means to determine consistent compliance with the PennDOT specification requirements. The established index properties (and tolerances or ranges) will be considered inclusive of all associated sampling, material, and test method variability (i.e., ASTM/AASHTO precision estimates, manufacturing/product variability, shelf life effects, or any other deviations).

When established, these index properties (and tolerances or ranges) are to be used by manufacturers in determining acceptable QC test results for these index properties. PennDOT will also use these established index properties (and tolerances or ranges) for future quality assurance verification or acceptance testing.

Index properties (including tolerances or ranges) submitted by manufacturers are subject to review and acceptance by PennDOT LTS. Once the final index properties (and tolerances or ranges) have been established and approved by PennDOT, the manufacturer must adhere to producing consistent quality materials within these index property limits (tolerances or ranges). Proposed changes to the approved index properties may require the submission of a new Product Evaluation Application to PennDOT by the manufacturer.



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Suppliers, distributors, or companies that outsource the manufacturing of their products, or private label products that are manufactured by other companies are typically not eligible to submit a Product Evaluation Application (for approval and listing in Bulletin 15) unless the outsourcing company performs all required quality control testing and verifications and assumes full responsibility for the performance of the product. Non-eligible companies may obtain products or material from any approved source listed in Bulletin 15, for resale to pre-qualified contractors.

Eligible firms who need assistance completing the application may contact NPETS Support via phone at (717) 425-5816 or e-mail at RA-pdBOPDNPETS@pa.gov



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Bulletin 15 Levels of Certification

Material provided by Producers listed in Bulletin 15 is approved for use only in its intended application(s). Producers will be assigned a Level of Certification, based on their ability to comply with the material specifications. Producers will initially be assigned a LEVEL 1 certification. Poor material performance or material quality issues may dictate a reevaluation of a producer’s certification level.

The Levels of Certification are defined as follows:

Levels of Certification for Bulletin 15 Producers		Producer Material Shipment Procedure	Producer Additional Requirements
Level 1	Standard Certification	Ship on Certification with Form CS-4171*	None
Level 2	Standard Certification - Reduced	Ship on Certification with Form CS-4171*	See below
Level 3	Lot Approval Certification	Ship only after Material Lot Approval using Modified Certification, with Form CS-4171*	See below
Suspension or Removal	In accordance with the State’s Contractor Responsibility Program: <ul style="list-style-type: none"> • Producer may be suspended or removed from Bulletin 15 for any of the reasons stated in the Bulletin 15 Preface, regardless of Producer certification level. • Failure of Producer to advance above Certification Level 3 will result in PennDOT’s initiating action for suspension or removal from Bulletin 15. 		

* Certain Bulletin materials require supplemental or alternate forms of certification, refer to the next section, *Bulletin 15 Material Certification*.

- **LEVEL 1 (Standard Certification)**
 - Initial Level of Certification typically issued to Bulletin 15 listed Producers.
 - Material is produced and tested in accordance with the Producer's approved QC Plan.
 - No known material performance or quality issues exist that warrant a reduced level of certification.
 - Material is shipped on certification using Form CS-4171.

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- **LEVEL 2 (Standard Certification - Reduced)**
 - Reduced Level of Certification issued to Bulletin 15 listed Producers who have exhibited minor/moderate material performance or quality issues.
 - Producer is required to work with PennDOT on submission of an improvement plan that may include, but is not limited to, any or all of the following items: a revised QC Plan, a failure analysis/action plan to assess why failures are occurring and how to prevent these failures from occurring in the future, correlation testing between in-house and independent lab testing to assist with validating results.
 - Material is produced and tested in accordance with the improvement plan approved by PennDOT.
 - Material is shipped on certification using Form CS-4171.

- **LEVEL 3 (Lot Approval Certification)**
 - This Level of Certification is issued to Bulletin 15 listed Producers who have exhibited major material performance or quality issues.
 - Producer is required to work with PennDOT on an improvement plan as defined in Level 2.
 - Material **cannot** be shipped to projects using the standard CS-4171 certification process.
 - Producer must arrange for independent, in-plant acceptance testing (IPAT) that will be conducted side-by-side with "in-house" Producer testing at the designated frequencies in the revised QC plan. IPAT will be at the Producer's expense. PennDOT's Laboratory Testing Section (LTS) must approve the Producer's proposed IPAT provider, before it begins.
 - Any material lot to be used on a project must be tested and approved by the IPAT as meeting the required PennDOT specification prior to shipment to the project.
 - Each material lot meeting the specification may be shipped to a project using a modified certification process as follows: submit, to both the Project Representative and LTS, Form CS-4171 along with a signed letter from the IPAT (on their official letterhead) indicating that the material lot meets testing and specification requirements.
 - Correlate results from parallel "in-house" Producer testing and IPAT testing, and submit to the LTS on a monthly basis.

Bulletin 15 Material Certification

A completed Form [CS-4171](#), "Certificate of Compliance" must be submitted, with each shipment of material to the project. Form CS-4171 must be properly signed by a legally responsible company official. Electronic submission of Form CS-4171 and the use of electronic signature (eSignature) on Form CS-4171 are available options.

Certain Bulletin materials require the submission of supplemental CS-4171 certification in addition to Form CS-4171, to provide traceability of materials in multi-step manufacturing processes.

- Epoxy coated or galvanized reinforcement steel requires the submission of supplemental certification Form [CS-4171C](#) (Epoxy Coating or Galvanizing Facility) and/or Form [CS-4171F](#) (Fabrication Facility).
- Structural steel, aluminum, or precast/prestressed concrete products, produced in a Bulletin 15 approved facility with an on-site state inspector or a state representative, must be stamped with an approved inspection stamp at the plant and certified with a Form CS-4171.

Certain Bulletin materials require a form of certification other than the Form CS-4171, as identified in the particular material specification.

- Section 701 and 702 materials require a properly completed vendor bill of lading.
- Certification of daily bituminous mixtures requires submission of Form [CS-4171B](#)
- Certification of locally approved non-Bulletin materials requires submission of Form [CS-4171LA](#)

Form CS-4171 is completed by the manufacturer, fabricator, or producer (**Producer**) of Bulletin material provided to the project. The Producer maintains the original Form CS-4171 and provides a copy of Form CS-4171 with each direct shipment to the project. Producers must maintain all component certifications for purchased Bulletin materials, at their place of business for a period of not less than 3 years from the date of the last shipment to the project. Certification files must be available for inspection by the Department.

When a Producer sells a Bulletin 15 material to a distributor/supplier (**Shipper**), the Producer provides a copy of Form CS-4171 with each delivery to the Shipper. When a Shipper provides Bulletin 15 material directly to the project, the Shipper completes and signs a new Form CS-4171 and provides a copy with each direct shipment to the project. The Shipper will maintain the copy of the Producer's Form CS-4171 that they have received. Shippers must maintain a certification file for purchased Bulletin materials to provide an audit trail to the Producer. Certifications for purchased Bulletin materials must be maintained at their place of business for a period of not less than 3 years from the date of the last shipment to the project. Certification files must be available for inspection by the Department.

The **Contractor** must ensure that Form CS-4171 is received for each project shipment of Bulletin material. The Contractor must submit to the Representative a properly completed and signed copy of Form CS-4171 for each project shipment. The Contractor should not incorporate any Bulletin material in the work until certification arrives on the project, unless otherwise approved by the Representative. Payment for material will be withheld until proper certification documentation is received. The Contractor must retain Form CS-4171 for a period of not less than 3 years from the date of



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the last project shipment and make files available for inspection and verification by the Department.

Contractors are responsible to the Department for the conformance to the specifications of all products and materials that the contractors select from Bulletin 15 and incorporate into the work on Department construction projects. Products may be monitored by the Department via inspection, sampling, and/or testing for quality assurance, verification, and acceptance purposes to ensure the quality of the material used is maintained.

Product sample failures will be evaluated at PennDOT's monthly Bulletin 15 failure committee meeting. Supplier test history will be reviewed to determine whether corrective action or root cause analysis by the supplier is warranted. If so, companies will be contacted individually with specifics regarding the requested information or other action(s) required. Failure to make corrections and consistently provide material meeting our specifications can and will result in reduction in certification level and may ultimately lead to Bulletin 15 removal.



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Plant Verification (PV) Samples

Producers and manufacturers of bituminous materials, cement, glass beads, roadway paint, and structural steel paint are required to submit Plant Verification (PV) samples to the Department. Producers are advised to keep a sufficient quantity of material from each production lot or batch to serve as retain sample(s) to perform additional testing as requested or directed by the Department.

In the event of a material PV Sample failure, the Department will require that the supplier's retained sample be split and one split be re-tested by the supplier and the results forwarded to the Department for review and the other split be provided to the Department. The Department will in turn, perform re-testing on the provided retained sample and compare both sets of test results.

Based on the material use and type of test failure, the Department will determine if the failure represented by the Department testing is significant enough to result in unacceptable performance, unanticipated maintenance or reduced service life, or other conditions which may warrant rejection and replacement. Significant material failures such as these may result in the Department notifying the supplier to take any or all of the following actions:

1. Identify and isolate the failed material to ensure that the failed material is not shipped to any PennDOT projects.
2. If the failed PV lot has already been shipped, immediately notify all brokers and distributors to whom the material was sent of the failure with instructions to recall the failed lot of material which was supplied to any PennDOT projects.
3. Supply PennDOT with a project list and the accompanying documentation (Form CS-4171 Certificate of Compliance or bill of lading) for any of the failed material that was delivered to PennDOT projects by the facility.
4. Submit an action plan to the Department within 30 days of notification to demonstrate how material and processes are to be controlled in the future to ensure material consistently meets PennDOT specification requirements.

Bulletin 15 Removal Actions

A manufacturer and/or product(s) may be removed from Bulletin 15 for any of the following reasons:

- Any action or inaction that may affect the quality of the product, the integrity of the test results, or the implementation of the Quality Control plan.
- Failure of the product to meet appropriate specifications.
- Failure to submit or adhere to a Quality Control Plan.
- Falsification of information provided on the Certificate of Compliance Form CS-4171, CS4171B, CS-4171C, CS-4171F or CS4171LA.
- Failure to supply samples, test results, or other information requested by the Department.
- Failure to notify the Bulletins Administrator at (717) 783-9673 within ten (10) days of any change in company contact information (name, address, or phone number) or change in product information (name, formula, quality control plan, or manufacturing process).
- Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
- Commission of fraud or a criminal offense or other improper conduct or knowledge or approval of, or acquiescence in these activities by an affiliate, officer, employee or other individual or entity associated with either obtaining, attempting to obtain or performing a public contract or subcontract. Acceptance of the benefits derived from the conduct shall be deemed evidence of knowledge, approval or acquiescence.
- Violation of Federal or State antitrust statutes.
- Violation of a State or Federal law regulating campaign contributions.
- Violation of a State or Federal environmental law.
- Violation of a State or Federal law regulating hours of labor, minimum wage standards or prevailing wage standards; discrimination in wages; or child labor violations.
- Violation of the Workers' Compensation Act (77 P. S. § § 1-2626).
- Violation of a State or Federal law prohibiting discrimination in employment.
- Suspension or debarment by the Commonwealth or an agency thereof or an agency of another state or by an agency or department of the Federal

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government.

- Three or more occurrences of being declared ineligible for a contract.
- Unsatisfactory performance including failure to comply with the terms of a Commonwealth contract or subcontract including:
 - Willful failure to perform in accordance with the terms of one or more contracts, or a history of failure to perform, or of unsatisfactory performance of one or more contracts.
 - Failure to complete the work in the time frame specified in the contract.
 - Being declared in default on prior work or project.
 - Failure to submit documents, information or forms as required by contract.
 - Making false statements or failing to provide information or otherwise to cooperate with the contracting agency, the Office of State Inspector General or other Commonwealth authorities.
 - Discrimination in violation of laws or regulations in the conduct of business.
- Providing false or misleading information to the Office of State Inspector General, Office of the Budget, the Department of the Auditor General, the Office of Attorney General, the Treasury Department, the Board of Claims, or other tribunal or court, the Department, or a representative of an agency as part of any investigation, audit, program review, certification, contract bids or proposals, applications or claims for payment. This information includes:
 - Financial statements.
 - Nondiscrimination forms.
 - Affidavits or statements of compliance with prevailing wage statutes.
 - Product descriptive literature and documents submitted in connection with claims for payment made or litigation against Commonwealth agencies.
- Other acts or omissions indicating a lack of skill, ability, capacity, quality control, business integrity or business honesty.



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Section 106.02: Project-Specific Locally Approved Materials

106.02 Project-Specific Locally Approved Materials

In accordance with Publication 408, Section 106.02 (a) 2.c, the following Pub 408 Sections contain construction materials that are defined as Project-Specific, Locally Approved Materials.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application (CS-4170) for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to the corresponding Pub 408 Sections for specification and documentation requirements.

- * Section 420.2(d): Asphalt Edge Restraints
- * Section 659.2(b): Aggregate Surface Topping for HFST
- * Section 802: Topsoil Furnished and Placed
- * Section 806.2(a, b): Temporary & Permanent Rolled Erosion Control Products (RECPs)
- * Section 860.2(a): Inlet Filter Bag
- * Section 867: Compost Filter Sock
- * Section 868: Compost Blanket and Compost Filter Berm



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Section 218: Foamed Glass Aggregate

218.2(a) Foamed Glass Aggregate

Last Revised: 3/15/2019

Product	Name	Ref. No.
AERO1 15 Aero Aggregates LLC, 1500 Chester Pike, Eddystone, PA 19022 https://aeroaggregates.com/	AeroAggregates FG-G15	2017-048
Foamed Glass Aggregate (FGA) <i>Provisionally approved based on the following requirements:</i>		
<ol style="list-style-type: none"> 1. AeroAggregates FG-G15 foamed glass aggregate must be used in accordance with the requirements contained within the Research Work Plan, Design & Construction Guidelines, and Project Specific Specification. To obtain a copy of these documents, contact New Products & Innovations Section (NPI) at 717-787-3137. These documents are considered part of the contract documents. 		
<ol style="list-style-type: none"> 2. The Contractor shall notify NPI (717-787-3137) at least one week in advance of the proposed construction so that NPI may observe and document the placement and performance of the material. 		
<ol style="list-style-type: none"> 3. A representative of the manufacturer shall be present on site during placement to ensure that the material is placed in accordance with the Research Work Plan, Design & Construction Guidelines, and Project Specific Specification. 		
<ol style="list-style-type: none"> 4. NPI will monitor the use, application, and performance of AeroAggregates FG-G15 until at least two projects have been successfully completed for each of the following four usage scenarios: <ul style="list-style-type: none"> *** 1) FGA used to mitigate settlement of embankments constructed over soft ground *** 2) FGA used to mitigate new embankment loads over old buried utilities *** 3) FGA used to mitigate lateral loads on retaining walls *** 4) FGA used as backfill for MSE walls 		
<ol style="list-style-type: none"> 5. Failure to comply with the requirements contained within the Research Work Plan, Design & Construction Guidelines, and Project Specific Specification may result in the AeroAggregate FG-G15 material being removed from Bulletin 15. AeroAggregates FG-G15 Technical Data Sheet 		



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Section 219: Geofoam Lightweight Fill

219.2(a) Expanded Polystyrene (EPS) Geofoam Blocks

Last Revised: 3/23/2017

Product	Name	Ref. No.
POLMD 15 Poly Molding LLC, 96 Fourth Avenue, Haskell, NJ 07420 http://polymoldingllc.com/		
EPS Geofoam Block - Type 1 (EPS22)	EPS22	2015-155Q
EPS Geofoam Block - Type 2 (EPS39)	EPS39	2015-155Q



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Section 220: Flowable Backfill

220.2(i) Air Entraining Admixtures

Last Revised: 10/22/2020

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-0 15 Facility	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html 23700 Chagrin Blvd. Cleveland, OH 44122 <i>Effective October 1, 2020, new supplier code is MBS-0 15</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	MasterCell 25 (Rheocell/Rheofill)	As required by testing	CADD-2015-01-120	1999-132Q
BAS-5 15 Plant	BASF, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html 7100 Wright Rd. Houston, TX 77041 <i>Effective October 1, 2020, new supplier code is MBS-5 15</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	MasterCell 30 (Rheocell 30)	As required by testing		2006-024Q
CELLC 15	Aerix Industries, 5902 McIntyre Street, Golden, CO 80403 http://www.aerixindustries.com/ <i>Formerly Cellular Concrete, LLC</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	Forta GoldenAir			2002-139Q
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
	Air Entraining Admixture For Flowable Fill [AEA]	Eucon Easy Fill			2015-056Q
FRITZ 15	Fritz-Pak Corporation, 4821 Eastover Circle, Mesquite, TX 75149 http://www.fritzpak.com/				
	Air Entraining Admixture For Flowable Fill [AEA]	Sika Lightcrete Powder			2013-205Q
GRAC0 15 Facility	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us 62 Whittemore Ave. Cambridge, MA 02140-1692 <i>Formerly: W. R. Grace and Company</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	Darafill			1997-148



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Section 220: Flowable Backfill

220.2(i) Air Entraining Admixtures

Last Revised: 10/22/2020

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC2 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 North Bergen, NJ <i>Formerly: W. R. Grace and Company</i>	https://gcpat.com/en-us			
	Air Entraining Admixture For Flowable Fill [AEA]	Darafill			1997-148
MBS-0 15 Facility	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 23700 Chagrin Blvd. Cleveland, OH 44122 <i>Formerly BASF Construction Chemicals (BAS-0 15)</i>	https://www.master-builders-solutions.com/en-us			
	Air Entraining Admixture For Flowable Fill [AEA]	MasterCell 25 (Rheocell/Rheofill)	As required by testing	CADD-2015-01-120	1999-132Q
MBS-5 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 7100 Wright Rd. Houston, TX 77041 <i>Formerly BASF Construction Chemicals (BAS-5 15)</i>	https://www.master-builders-solutions.com/en-us			
	Air Entraining Admixture For Flowable Fill [AEA]	MasterCell 30 (Rheocell 30)	As required by testing		2006-024Q



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Section 409: Superpave Mixture Design, Standard and RPS Construction of Plant-Mixed HMA Courses

409.2(g) Aramid Fibers for HMA

Last Revised: 3/10/2017

The use of this product will be in accordance with SSP #I-c00045 ITEM 9000 - HMA FIBER MODIFIED COURSE.

	Product	Name	Ref. No.
FORTA 15	Forta Corporation, 100 Forta Drive, Grove City, PA 16127 http://www.forta-fi.com/		
	Aramid Fiber Blend	FORTA-FI	2016-071Q
	Aramid Fiber Blend	FORTA-FI for HMA	2011-021A
SURF1 15 Plant	Surface Tech LLC, 111 SW 5th Ave., Suite 1940, Portland, OR 97204 http://www.surface-tech.com/ Shelton, CT		
	Aramid Fiber Blend	ACE Fiber	2016-175Q



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Section 411/413: Superpave Mixture Design

411.2(g)/413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 10/19/2020

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

	Product	Name	COA	Ref. No.
AKZNO 15	AkzoNobel Surface Chemistry, 525 West Van Buren Street, Chicago, IL 60607-3835 https://www.akzonobel.com/ Chemical Additive	Rediset WMX		----
AKZO1 15 Facility	AkzoNobel Surface Chemistry, LLC, 525 West Van Buren Street, Chicago, IL 60607 Plant 1390 Morris, IL Chemical Additive with Anti-Strip Additives	Rediset LQ-1102C		2017-072Q
ASTIN 15	Astec Industries, Inc., P.O. Box 72787, Chattanooga, TN 37407 http://www.astecindustries.com/ Mechanical Foaming Equipment/Process	Double Barrel Green / GreenPac System		----
CECA 15	CECA, Subsidiary of Arkema, 89 Boulevard National, La Garenne-Colombes 92257 Chemical Additive	Cecabase RT 945		2011-153
CIS01 15	Cargill Industrial Specialties, 12201 South Torrence Avenue, Chicago, IL 60617 http://www.cargill.com/bioindustrial Chemical Additive with Anti-Strip Additives <i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (11/30/2018 to 11/30/2020). As a result of COVID-19 restrictions, this provisional approval has been extended until 11/30/2021.</i>	Anova 1501		2018-014Q
EASIN 15	Eastern Industries, Inc., 4401 Camp Meeting Rd., Ste 200, Center Valley, PA 18034 http://www.eastern-ind.com/ Mechanical Foaming Equipment/Process	SMART-FOAM System		2011-207Q
GENID 15	Gencor Industries, Inc., 5201 N. Orange Blossom Trail, Orlando, FL 32810 http://www.gencor.com/ Mechanical Foaming Equipment/Process	Green Machine UltraFoam GX2 Process		----
MAXEQ 15	Maxam Equipment, Inc., 1575 Universal Ave., Kansas City, MO 64120 http://maxamequipment.com/Products.htm Mechanical Foaming Equipment/Process	AQUABlack Solutions WMA System		----
MCCTE 15	McConnaughay Technologies, 1911 Lorings Crossing, Cortland, NY 13045 http://www.mcconnaughay.com/ Foaming Additive/Process	Low Emission Asphalt (LEA)		----



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Section 411/413: Superpave Mixture Design

411.2(g)/413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 10/19/2020

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

Product	Name	COA	Ref. No.
MEAWE 15 Ingevity (formerly WestRock/MeadWestvaco Corporation), 5255 Virginia Avenue, N. Charleston, SC 29406-3615 http://www.ingevity.com			
Chemical Additive	Evotherm DAT		----
Chemical Additive with Anti-Strip Additives <i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (5/9/2017 to 5/9/2019).</i>	Evotherm J1		2017-059Q
Chemical Additive with Anti-Strip Additives	Evotherm M1		----
Chemical Additive with Anti-Strip Additives <i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (5/9/2017 to 5/9/2019).</i>	Evotherm P25		2017-061Q
Chemical Additive with Anti-Strip Additives <i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (5/9/2017 to 5/9/2019).</i>	Evotherm U3		2017-060Q
MEEEQ 15 Meeker Equipment Company, Inc., P.O. Box 925, Louisville, KY 19446-0661 http://www.meekerequipment.com/			
Mechanical Foaming Equipment/Process	Warm Mix System		----
PQCOR 15 PQ Corporation, Valley Forge, P.O. Box 840, Valley Forge, PA 19482 http://pgcorp.com/			
Foaming Additive/Process	Advera WMA		----
RAP-1 15 Reliable Asphalt Products, Inc., 521 Old Seven Mile Pike, Shelbyville, KY 40065 http://www.reliableasphalt.com/			
Mechanical Foaming Equipment/Process <i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (9/19/2018 to 9/19/2020).</i>	Reliable Asphalt Warm Mix System		2018-198Q



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Section 411/413: Superpave Mixture Design

411.2(g)/413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 10/19/2020

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

	Product	Name	COA	Ref. No.
ROAD1 15 Facility	Road Science, Division of ArrMaz, 6502 South Yale Avenue, Tulsa, OK 74136 Vanceboro, NC			
	Chemical Additive with Anti-Strip Additives <i>This is the same product as formerly named AD-here LOF 65-00 with Cecabase RT 945</i>	AD-here ULTRA 1		2017-134Q
	Chemical Additive with Anti-Strip Additives <i>This is the same product formerly named as AD-here 62-40 with Cecabase RT 945.</i>	AD-here ULTRA TS		2017-133Q
SASW- 15	Sasol Wax North America Corporation, 102 Cutting Blvd., Richmond, CA 94804 http://www.sasolwax.us.com/			
	Organic Additive	Sasobit		----
SONNE 15 Facility	Sonneborn Refined Products, 600 Parsippany Road, Suite 100, Parsippany, NJ 07054 http://www.sonnewarmix.com 100 Sonneborn Lane Petrolia, PA 16050			
	Organic Additive <i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at (717) 346-1548 before using. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer.</i>	SonneWarmix		2012-085M
	Organic Additive	SonneWarmix RT		2016-015
	Organic Additive with Anti-Strip Additives	Sonnegreen as		2016-005Q
	Organic Additive with Anti-Strip Additives <i>Provisional Approval: When this WMA Technology is used, the manufacturer is required to notify the PennDOT Laboratory Testing Section at (717) 346-1548. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (2/13/2019 to 2/13/2021).</i>	Sonnegreen as IV		2017-164
	Organic Additive with Anti-Strip Additives <i>Provisional Approval: When this WMA Technology is used, the manufacturer is required to notify the PennDOT Laboratory Testing Section at (717) 346-1548. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (10/1/2018 to 10/1/2020).</i>	Sonnegreen as II		2016-114Q
STAAS 15	Stansteel Asphalt Plant Products, 12700 Shelbyville Road, Louisville, KY 40243 http://www.stansteel.com/			
	Mechanical Foaming Equipment/Process	Accu-Sheer Warm Mix Asphalt System		----



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Section 411/413: Superpave Mixture Design

411.2(g)/413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 10/19/2020

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

	Product	Name	COA	Ref. No.
TERRO 15	Terex Roadbuilding, P.O. Box 1985, Oklahoma City, OK 73101-1985 http://www.terex.com/ Mechanical Foaming Equipment/Process	Warm Mix Asphalt System		----
ZYDEXA15 Facility	Zydex Industries, Zydex House, 61 Gotri-Sevasi Road, Sevasi, Vadodara 391101 http://www.zydexindustries.com/ 106 Kitty Hawk Dr. Morrisville, NC 27560	ZycoTherm		2015-126M
	Chemical Additive <i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at (717) 346-1548 before using. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer.</i>			
	Chemical Additive with Anti-Strip Additives <i>Provisional Approval: When this WMA Technology is used, the manufacturer is required to notify the PennDOT Laboratory Testing Section at (717) 346-1548. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (2/15/2019 to 2/15/2021).</i>	Zycotherm-SP		2018-073Q

411.2(k) Aramid Fibers for WMA

Last Revised: 3/10/2017

	Product	Name	Ref. No.
FORTA 15	Forta Corporation, 100 Forta Drive, Grove City, PA 16127 http://www.forta-fi.com/ Aramid Fiber Blend	FORTA-FI	2016-071Q
SURF1 15 Plant	Surface Tech LLC, 111 SW 5th Ave., Suite 1940, Portland, OR 97204 http://www.surface-tech.com/ Shelton, CT Aramid Fiber Blend	ACE Fiber	2016-175Q



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Section 419: Stone Matrix Asphalt Mixture

419.2(d)2 Cellulose Fiber Stabilizer

Any brand of cellulose fiber that prevents mixture draindown may be used in SMA mixes.

419.2(d)5 Crumb Rubber Stabilizer

Last Revised: 7/6/2015

	Product	Name	Ref. No.
LIB-1 15	Liberty Tire Recycling, LLC, 490 Ohio Street, Lockport, NY 14094 http://libertytire.com/Home.aspx		
	Crumb Rubber (CR)	TR 20 Minus	2013-099Q
	Crumb Rubber (CR)	WTG 20	2013-098Q
LIB-2 15	Liberty Tire Recycling, LLC, 100 Talbot Avenue, Braddock, PA 15104 http://libertytire.com/Home.aspx		
	Crumb Rubber (CR)	20 WMA	2013-097Q
MAHAN 15	Mahantango Enterprises, Inc., Rr #2, P. O. Box 680, Liverpool, PA 17045 http://www.mahantango.com/		
	Crumb Rubber (CR)	MAH-1A	1994-031
NRIND 15 Plant	Edge Rubber, 1711 Opportunity Avenue, Chambersburg, PA 17201 http://www.edgerubber.com 811 Progress Road Chambersburg, PA 17201 <i>Formerly NRI Industries</i>		
	Crumb Rubber (CR)		----
SPART 15	Sparton Enterprises, Inc., 3717 Clark Mill Rd., Barberton, OH 44203 http://spartonenterprises.com/		
	Crumb Rubber (CR)	58702 Ground Rubber	1991-072



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Section 420: Pervious Asphalt Pavement System

420.2(d) Asphalt Edge Restraints

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 420.2(d) for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Section 466: Asphalt Paving Fabric

466.2(a) Geotextile Paving Fabric

Last Revised: 2/25/2020

Paving Fabrics (AASHTO M 288) are saturated during installation with asphalt cement for use between pavement layers. Paving fabrics and grids act as a stress relieving membrane within the pavement structure and are intended for full width applications.

For placing Heavy Duty Membranes over transverse and longitudinal joints and random cracks in existing concrete pavements, see Section 467.

	Product	Name	Ref. No.
ADFORS15 Plant	Saint-Gobain ADFORS, 1795 Baseline Road, Grand Island, NY 14303 14770 East Avenue Albion, NY 14411 Fiberglass Reinforced Paving Grid <i>Conditionally approved per manufacturer's specifications: GlasGrid 8511 Manufacturer's Specifications</i>	http://www.adfors.com/us/road-reinforcement GlasGrid 8511 Asphalt Reinforcement System	2014-122
PROP2 15 Plant	Propex Operating Company, LLC, 4019 Industry Drive, Chattanooga, TN 37416 428 Rollins Industrial Blvd. Ringgold, GA 30736 Geotextile Paving Fabric, Type II	http://www.propexglobal.com/ Petromat 4597	2011-181
TCGEO 15 Plant	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 Pendergrass, GA & Cornelia, GA Fiberglass Reinforced Paving Grid <i>Conditionally approved per manufacturer's specifications: TenCate Mirafi PGM-G4 Manufacturer's Specifications</i> Geotextile Paving Fabric, Type II <i>(Pendergrass, GA)</i>	http://www.tencate.com/ Mirafi PGM-G4 Mirafi MPV 600	2015-133 2012-183



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Section 467: Heavy Duty Membranes

467.2(a) Heavy Duty Membranes

Last Revised: 8/23/2016

Heavy Duty Membranes are placed over transverse and longitudinal joints and random cracks in existing concrete pavements before placing the pavement overlay. Heavy Duty Membranes are not intended for full width applications and are not evaluated against AASHTO M 288 paving fabric requirements.

For AASHTO M 288 paving fabrics, see section MISC Geotextile Paving Fabric (Asphalt).

Product	Name	Letter Date	Membrane Width	Ref. No.	
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040				
	Heavy Duty Membrane	GeoTac	7/5/2000	12", 18", 24", 36", and 48"	2000-139Q
	Heavy Duty Membrane	Paveprep	9/15/1986	12", 18", 20", 24", 36", and 48"	----
PROP1 15 Plant	Propex Operating Company, LLC, 4019 Industrial Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 4019 Industry Drive Chattanooga, TN 37416				
	Heavy Duty Membrane	Petrotac	9/15/1986	12", 18", 24", and 36"	1980-099



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Section 470: Asphalt Seal Coat

470.2 Asphalt Seal Coat

Last Revised: 7/6/2017

Refer to Bulletin 15, Section 702 for sources of asphalt material specified in Publication 408, Section 470.2(a).

Refer to Bulletin 14 for sources of coarse aggregate specified in Publication 408, Section 470.2(b).

Product	Name	Reference Letter	Ref. No.
TRI-3 15 Facility	All States Construction, LLC, 325 Amherst Road, P.O. Box 91, Sunderland, MA 01375 http://www.asmg.com 901 River Road Deerfield, MA 01342 <i>Formerly All States Asphalt, LLC</i>		
	CRMB for Rubberized Asphalt Seal Coat (RASC) <i>Conditional approval per: Rubberized Asphalt Seal Coat, SRL-H Conditional Specification</i>	2/12/2010	----



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Section 501: Reinforced or Plain Cement Concrete Pavements

501.2(r) Preformed Cellular Polystyrene (ASTM C578)

See Section 516.2(m) for listing of approved preformed cellular polystyrene products per ASTM C578.

501.2(s) Fiberglass Dowel Sleeve

Last Revised: 2/24/2015

	Product	Name	Ref. No.
BEDRP 15	Bedford Reinforced Plastics, 264 Reynoldsdale Road, Bedford, PA 15522 http://bedfordreinforced.com/ Dowel Bar Sleeve, Reinforced Plastic		1997-151
CPULT 15	Creative Pultrusions, 214 Industrial Lane, P.O. Box 6, Alum Bank, PA 15521-0006 http://www.creativepultrusions.com/ Dowel Bar Sleeve, Reinforced Plastic	Pultex 1500 (Fiberglass reinforced)	1992-199
STRFG 15	Structural Fiberglass, Inc., 4766 Business Route 220 North, PO Box 615-T, Bedford, PA 15522 http://www.structuralfiberglass.com/ Dowel Bar Sleeve, Reinforced Plastic		1997-150



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Section 503: Protective Coating for Cement Concrete Pavement

503.2 Boiled Linseed Oil (AASHTO M233)

Last Revised: 5/2/2019

	Product	Name	Ref. No.
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Boiled Linseed Oil (AASHTO M233)	Anti-Spall 55	2004-149Q
DAYT1 15	Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/ Boiled Linseed Oil (AASHTO M233)	Anti-Spall (J-33) Formerly: Day Chem Anti-Spall	1990-147
DEGEN 15	Degen Oil & Chemical Company, 200 Kellogg Street, P.O. Box 5240, Jersey City, NJ 07305 Boiled Linseed Oil (AASHTO M233)	Boiled Linseed Oil	1998-173
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Boiled Linseed Oil (AASHTO M233)	Euco Linseed Oil Treatment	----
MEDW1 15 Plant	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550 Boiled Linseed Oil (AASHTO M233)	Sealtight Lin-Seal	1992-265
PRUET 15	Pruett-Schaffer Chemical Company, 3327 Stafford Street, Pittsburgh, PA 15204 http://www.pruett-schaffer.com/ Boiled Linseed Oil (AASHTO M233)	Anti-Spalling Compound	1997-080
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafcro, Inc.</i> Boiled Linseed Oil (AASHTO M233)	Anti-Spall 50/50	2017-131Q
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Aquired by ChemMasters, Inc.</i> Boiled Linseed Oil (AASHTO M233)	Certi-Vex Linseed Anti-Spall	2000-066Q
WKTEK 15	Wicktek, Inc., 103 General Braddock Drive, Braddock, PA 15104 http://wicktek.com/ Boiled Linseed Oil (AASHTO M233)	DensiCrete	1995-049



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Section 516: Concrete Pavement Patching

516.2 Concrete Pavement Patching

Last Revised: 9/27/2017

Refer to Publication 408, Section 516.2 for the various materials comprising concrete pavement patching.

The product listing below is conditionally approved as an alternate system to Concrete Pavement Patching as specified in Publication 408, Section 516.2.

Product	Name	Ref. No.
FTML1 15	Fort Miller Company, Inc., P.O. Box 98, Schuylerville, NY 12871-0098 http://www.fortmiller.com/	
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement System (PCPS)	2009-124
<i>Full Depth Concrete Pavement Repair, Precast: Item 9516-2034 - 10" Depth and Item 9516-3036 - 12" Depth</i>		
<i>Conditionally approved as an alternate Type A patch per Fort Miller Company's specifications. Fort Miller Company is a licensor, fabricator, and trademark owner of Super-Slab.</i>		
NORPR 15	Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/	
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement Panel Fabricator	2017-221
<i>Full Depth Concrete Pavement Repair, Precast: Item 9000-0516 - 13" Depth</i>		
<i>Conditionally approved as an alternate Type A patch per the Super-Slab licensor's (Fort Miller Company) specifications.</i>		

516.2(k) Anchor Material

Last Revised: 8/27/2020

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

Product	Name	Ref. No.
ADHTC 15	Adhesives Technology Corporation, 450 East Copans, Pompano Beach, FL 33064 http://www.atcepoxy.com/	
Dowel Bar Adhesive	ASF-1000	2016-242Q
Dowel Bar Adhesive	ULTRABOND 1300	1992-013B
Dowel Bar Adhesive	ULTRABOND 365CC	2016-017Q
Dowel Bar Adhesive	ULTRABOND HS-1CC	2018-040Q
Dowel Bar Adhesive	ULTRABOND HS-200	2002-048Q



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Section 516: Concrete Pavement Patching

516.2(k) Anchor Material

Last Revised: 8/27/2020

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

	Product	Name	Ref. No.
CCMAT 15 Facility	Cornerstone Construction Material, LLC, 1618 East Elm Street, Harrisonville, MO 64701 http://ccmaterial.com 101 East Walnut Street Archie, MO 64725		
	Dowel Bar Adhesive	CE308 Epoxy Anchoring Gel	2017-236Q
DEWA1 15 Facility	DEWALT Anchors, 701 E. Joppa Road, Towson, MD 21286 Willich, Germany		
	Dowel Bar Adhesive	AC100+ Gold	2017-253Q
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
	Dowel Bar Adhesive	Dural 452 Gel	2003-098Q
	Dowel Bar Adhesive	Dural Fast Set Epoxy Gel	1999-184Q
HILT- 15	Hilti, Inc., 5400 South 122nd East Ave., P.O. Box 21148, Tulsa, OK 74121 https://www.hilti.com/		
	Dowel Bar Adhesive <i>ICC-ES Evaluation Report: ICC-ES Evaluation Report: ESR-3814 (Subject to renewal 1/2021)</i>	HIT-RE 500 Anchoring Epoxy	2001-100Q
	Dowel Bar Adhesive	HVU Adhesive Capsule	2000-123Q
HILT1 15 Plant	Hilti, Inc., 7250 Dallas Parkway, Suite 1000, Plano, TX 75024 https://www.hilti.com/ Kaufering, Germany		
	Dowel Bar Adhesive	HIT-HY 10 PLUS Adhesive Anchor System	2014-106QA
	Dowel Bar Adhesive	HIT-HY 150 Injection Adhesive	1996-054
	Dowel Bar Adhesive	HIT-RE 100 Adhesive Anchor	2016-158
	Dowel Bar Adhesive	HIT-RE 500 V3 Adhesive Anchor System	2016-159



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Section 516: Concrete Pavement Patching

516.2(k) Anchor Material

Last Revised: 8/27/2020

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

	Product	Name	Ref. No.
ITW-R 15	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/		
	Dowel Bar Adhesive	Red Head C6+	2017-289Q
	Dowel Bar Adhesive	Red Head G5+	2017-209Q
ITWRH 15 Plant	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/ 26501 Bourg Lès Valence Valence, France		
	Dowel Bar Adhesive	Red Head A7+	2016-241
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
	Dowel Bar Adhesive	Sure-Poxy 116	1992-169
	Dowel Bar Adhesive	Sure-Poxy 117	1990-371
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Dowel Bar Adhesive	Rezi-Weld Gel Paste (Construction Epoxy)	1993-280
MKTFS 15	MKT Fastening, LLC, 1 Gunnebo Drive, Lonoke, AR 72086 http://www.mktfastening.com/		
	Dowel Bar Adhesive	Liquid Roc 300 Twin Tube Polyester Resin	1994-199
PLYGM 15	Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/		
	Dowel Bar Adhesive	#1257 Epoxy Anchoring Adhesive	1993-270
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071		
	Dowel Bar Adhesive	Sikadur DOT SP 3/4 DBA (Epoxy as Injection Gel)	1989-236
	Dowel Bar Adhesive	Sikadur Injection Gel	1989-236



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Section 516: Concrete Pavement Patching

516.2(k) Anchor Material

Last Revised: 8/27/2020

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

	Product	Name	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
	Dowel Bar Adhesive	Sikadur DOT SP 3/4 DBA (Epoxy as Injection Gel)	1989-236
	Dowel Bar Adhesive	Sikadur Injection Gel	1989-236
SIMST 15	Simpson Strong-Tie, Inc., 136 Official Road, Addison, IL 60101 http://www.strongtie.com/ Dowel Bar Adhesive <i>(Formerly known as Acrylic-Tie)</i>	AT Acrylic Adhesive	1999-223Q
	SOCOM 15	Socom, Sogaris 196, 94656 Runngis Cdx, France Dowel Bar Adhesive	EPO 9030 Acrylic Adhesive 2004-181Q
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
	Dowel Bar Adhesive	Pro-Poxy 300 Fast	1996-004
	Dowel Bar Adhesive	Pro-Poxy 400	2001-228Q

516.2(m) Preformed Cellular Polystyrene (ASTM C578)

Last Revised: 9/30/2020

	Product	Name	Ref. No.
DOW-3 15	The Dow Chemical Company, 200 Lackin Center, 1605 Joseph Drive, Midland, MI 48674 http://www.dow.com/ Preformed Cellular Polystyrene	DOW High Performance Underlayment	1999-181Q
	INSYA 15	Insulation Corporation of America, 2571 Mitchell Ave., Allentown, PA 18103 http://insulationcorp.com/ Preformed Cellular Polystyrene	ICA-LITE EPS (ASTM C578 Types I, II, VIII, IX) 1992-167



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Section 516: Concrete Pavement Patching

516.2(m) Preformed Cellular Polystyrene (ASTM C578)

Last Revised: 9/30/2020

Product	Name	Ref. No.
OWENC 15 Owens Corning, One Owens Corning Parkway, Toledo, OH 43659 http://www.owenscorning.com/		
Preformed Cellular Polystyrene	Foamular 1000 (ASTM C578, Type V)	2002-005Q
Preformed Cellular Polystyrene	Foamular 150 (ASTM C578, Type X)	2002-005Q
Preformed Cellular Polystyrene	Foamular 250 (ASTM C578, Type IV)	2002-005Q
Preformed Cellular Polystyrene	Foamular 400 (ASTM C578, Type VI)	2002-005Q
Preformed Cellular Polystyrene	Foamular 600 (ASTM C578, Type VII)	2002-005Q



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Section 523: Ultra-Thin Portland Cement Concrete Overlay

523.2(a) Virgin Polypropylene Fibers

Last Revised: 3/15/2017

Product	Name	Ref. No.
FORTA 15 Forta Corporation, 100 Forta Drive, Grove City, PA 16127 http://www.forta-fi.com/ Virgin Polypropylene Fibers http://www.forta-ferro.com/	Forta Econo Net	2010-201Q



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Section 525: Concrete Pavement Partial-Depth Repair

525.2(c) Rapid-Set Concrete Patching Material

Last Revised: 9/23/2019

Product	Name	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
	Cementitious Repair Mortar	Euco Repair SCC Fast	RSCP-2017-01-014
	<i>Cannot be used with aggregate extenders. Meets the requirements of R1, R2, and R3 material in ASTM C928.</i>		
PHOS1 15	Phoscrete Corporation, 265 S Federal Hwy, Ste 320, Deerfield Beach, FL 33441-4161 https://phoscrete.com/		
Plant	Whitmore Lake, MI		
	Magnesium, Phosphate Cement-Based Material	Phoscrete HC	RSCP-2015-01-002
	<i>Cannot be used with aggregate extenders. Meets the requirements of R1 and R2 material in ASTM C928.</i>		
SIKA1 15	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
Plant	1682 Marion Williamsport Road E Marion, OH 43302		
	Cementitious Repair Mortar	SikaQuick VOH	RSCP-2014-01-004
	<i>Cannot be used with aggregate extenders. Meets the requirements of R1 and R2 material in ASTM C928.</i>		
	Rapid-Setting Concrete	Sikacrete 421 CI Rapid	RSCP-2017-01-005
	<i>Cannot be used with aggregate extenders. Meets the requirements of R1, R2, and R3 material in ASTM C928.</i>		
WMD-1 15	Western Material and Design, LLC, P.O. Box 268, Lee's Summit, MO 64063 https://wmdus.com/		
Plant	101 East Walnut Street Archie, MO 64725		
	Rapid-Setting Concrete	FasTrac 246 Concrete	RSCP-2017-01-004
	<i>Cannot be used with aggregate extenders. Meets the requirements of R1 and R2 material in ASTM C928.</i>		

525.2(g) Preformed Cellular Polystyrene (ASTM C578)

See Section 516.2(m) for approved preformed cellular polystyrene products.



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Section 527: Dowel Retrofit

527.2(c) Preformed Cellular Polystyrene

527.2(d) Rapid Set Concrete Patching Material

See Section 525.2(c) for approved rapid set concrete patching material products.



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Section 529: Full Depth Individual Precast/Prestressed Concrete Pavement Slabs

529.2 Precast Concrete Pavement Slab

Last Revised: 2/25/2020

Product	Name	COA	Ref. No.
FTML1 15	Fort Miller Company, Inc., P.O. Box 98, Schuylerville, NY 12871-0098 http://www.fortmiller.com/		
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement System (PCPS)		2009-124
<i>Full Depth Concrete Pavement Repair, Precast: Item 9516-2034 - 10" Depth and Item 9516-3036 - 12" Depth</i>			
<i>Conditionally approved as an alternate Type A patch per Fort Miller Company's specifications. Fort Miller Company is a licensor, fabricator, and trademark owner of Super-Slab.</i>			
NORPR 15	Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/		
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement Panel Fabricator		2017-221
<i>Full Depth Concrete Pavement Repair, Precast: Item 9000-0516 - 13" Depth</i>			
<i>Conditionally approved as an alternate Type A patch per the Super-Slab licensor's (Fort Miller Company) specifications.</i>			



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Section 530: Long-Life Concrete Pavement (LLCP)

530.2(e)1.c Long-Life Dowel Bar

Last Revised: 10/8/2020

For contracts let on or after April 10, 2020 (Pub 408, 2020 Initial Edition), see Section 705.3(f) High Performance Dowel Bars.

	Product	Name	Ref. No.
JAR-1 15 Plant	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://jardenzinc.com/ 2500 Old Stage Road Greeneville, TN 37744		
	Rolled Zinc Alloy Tubular Dowel Bar	LifeDowel, Type 2 (1.445" OD)	2016-164Q
	<i>Outside diameter of the approved dowel bar with zinc sleeve is 1.445". Proper galvanized end caps must be supplied to the project (0.06 oz/ft²).</i>		
	Rolled Zinc Alloy Tubular Dowel Bar	LifeDowel, Type 2 (1.695" OD)	2016-164Q
	<i>Outside diameter of the approved dowel bar with zinc sleeve is 1.695". Proper galvanized end caps must be supplied to the project (0.06 oz/ft²).</i>		



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Section 548: Unbonded Concrete Overlay of Concrete-Surfaced Pavements

548.2(a) Non-Woven Geotextile Interlayer

Last Revised: 6/7/2018

Product	Name	NTPEP Test Number	Ref. No.
PROP2 15 Plant	Propex Operating Company, LLC, 4019 Industry Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 428 Rollins Industrial Blvd. Ringgold, GA 30736 Non-Woven Geotextile Interlayer	GEOTEX 1341NH	2018-071Q



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Section 601: Pipe Culverts

601.2(a)3a Round and Elliptical Reinforced Concrete (RC) Pipe

Last Revised: 10/26/2020

Companies maintaining an American Concrete Pipe Association Q-Cast certification or NPCA Pipe certification do not require in-plant inspection for standard design concrete pipe (any diameter).

All special design pipe will receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which the Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterisk (**). Pipe produced by Q-Cast or NPCA certified companies will be stenciled or stamped with the respective logos.

Product	Name	Pipe Certification	Ref. No.
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	RC Pipe (End Section)	NPCA	----
	RC Pipe (Round)	NPCA	----
HANS2 15	Forterra, 7925 Empire Parkway, Macedonia, OH 44056-2144 http://www.forterrabp.com Formerly Hanson Pipe & Precast		
	RC Pipe (Elliptical)	ACPA Q-Cast	----
	RC Pipe (Round)	ACPA Q-Cast	----
HANS3 15	Forterra, 1500 Haul Rd., Columbus, OH 43207 http://www.forterrabp.com Formerly Hanson Pipe & Precast		
	RC Pipe (Elliptical)	NPCA	-
	RC Pipe (Round)	NPCA	----
HYDR1 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 2000 Gregg Station Road, Oakdale, PA 15071 http://www.rinkerpipe.com/		
	RC Pipe (Elliptical)	ACPA Q-Cast	----
	RC Pipe (End Section)	ACPA Q-Cast	----
	RC Pipe (Round)	ACPA Q-Cast	----
HYDR2 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 800 Industrial Drive, Middletown, DE 19709 http://www.rinkerpipe.com/		
	RC Pipe (Elliptical)	ACPA Q-Cast	----
	RC Pipe (End Section)	ACPA Q-Cast	----
	RC Pipe (Round)	ACPA Q-Cast	----



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Section 601: Pipe Culverts

601.2(a)3a Round and Elliptical Reinforced Concrete (RC) Pipe

Last Revised: 10/26/2020

Companies maintaining an American Concrete Pipe Association Q-Cast certification or NPCA Pipe certification do not require in-plant inspection for standard design concrete pipe (any diameter).

All special design pipe will receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which the Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterisk (**). Pipe produced by Q-Cast or NPCA certified companies will be stenciled or stamped with the respective logos.

Product	Name	Pipe Certification	Ref. No.
HYDR3 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 4200 Universal Drive, Diamond, OH 44412 http://www.rinkerpipe.com/		
	RC Pipe (Elliptical) <i>Only manufactures elliptical pipe with a major axis of 45" (1150mm) or greater</i>	ACPA Q-Cast	----
	RC Pipe (Round) <i>Only manufactures round pipe with a diameter of 48" (1200mm) or greater</i>	ACPA Q-Cast	----
	Oldcastle Infrastructure, Inc., a CRH Company, 1900 Pennsylvania Ave., Croydon, PA 19021 http://www.oldcastleprecast.com/Pages/default.aspx		
OLDP1 15	RC Pipe (End Section)	ACPA Q-Cast	----
	RC Pipe (Round)	ACPA Q-Cast	----
OLDP3 15 Plant	Oldcastle Infrastructure, Inc., a CRH Company, 1920 12th Street, Williamstown, NJ 08094 https://oldcastleinfrastructure.com/		
	1920 12th Street (Rt. 54) Folsom, NJ 08037 <i>Formerly Oldcastle Precast</i>		
	RC Pipe (Elliptical)	ACPA Q-Cast	----
	RC Pipe (End Section)	ACPA Q-Cast	----
OLP-1 15	RC Pipe (Round)	ACPA Q-Cast	----
	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 http://www.oldcastleprecast.com/Pages/default.aspx		
	RC Pipe (End Section) <i>Approved to fabricate both round and elliptical flared end sections.</i>	NPCA	2020-108Q
	UPPCP 15	Upper Peninsula Concrete Pipe, P. O. Box 313, Escanaba, MI 49829 http://upconcretepipe.net/	
	RC Pipe (End Section)	NPCA	----



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Section 601: Pipe Culverts

601.2(a)3a Round and Elliptical Reinforced Concrete (RC) Pipe

Last Revised: 10/26/2020

Companies maintaining an American Concrete Pipe Association Q-Cast certification or NPCA Pipe certification do not require in-plant inspection for standard design concrete pipe (any diameter).

All special design pipe will receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which the Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterisk (**). Pipe produced by Q-Cast or NPCA certified companies will be stenciled or stamped with the respective logos.

Product	Name	Pipe Certification	Ref. No.
VIANN 15	Vianini Pipe Inc., P. O. Box 678, Somerville, NJ 08876 http://www.vianinipipe.com/		
	RC Pipe (Elliptical)	ACPA Q-Cast	----
	RC Pipe (End Section)	ACPA Q-Cast	----
	RC Pipe (Round)	ACPA Q-Cast	----

601.2(a)3a Reinforced Concrete (RC) Pipe (Related Items)

Last Revised: 10/19/2020

Plasticizing admixtures under this section may only be used in the production of reinforced concrete pipes.

Product	Name	Ref. No.
BAS-1 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Allentown, PA Effective October 1, 2020, new supplier code is MBS-1 15	
	Plasticizing Admixture for Dry-Cast Manufacturing Only (S-PA) <i>Recommended Dosage: 2 to 12 oz/cwt</i>	MasterCast 900 (RheoFIT 900) 2013-024Q
CONAM 15	Concrete Accessory Manufacturing, 211 East Dowland Street, Ludington, MI 49431 http://www.camsales.com/	
	RC Pipe (Related Item)	Camlock Spacers (Pub. 280) 1994-250
	RC Pipe (Related Item)	Quik-Fit Stirrup Mat (Pub. 280) 1994-249
ENGWP 15	Engineered Wire Products, Inc., 1200 N. Warpole Street, P. O. Box 313, Upper Sandusky, OH 43351 http://ewp1.com/ (Liberty Steel USA)	
	RC Pipe (Related Item)	"S" Stirrup Assemblies 2003-198Q



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Section 601: Pipe Culverts

601.2(a)3a Reinforced Concrete (RC) Pipe (Related Items)

Last Revised: 10/19/2020

Plasticizing admixtures under this section may only be used in the production of reinforced concrete pipes.

	Product	Name	Ref. No.
GRAC7 15	GCP Applied Technologies Inc., 6051 West 65th St., Bedford Park, Chicago, IL 60638 https://gcpat.com/en-us <i>Formerly: W. R. Grace and Company</i>		
	Plasticizing Admixture	DQuantec PL-466 (formerly DBM-S)	1992-285
HAALA 15	Haala Industries, Inc., 1201 Hwy 4 South, Sleepy Eye, MN 56085		
	Reinforced Concrete Pipe Cages	Fabricator of Welded Steel Cages for Reinforced Flared End Sections	2016-245Q
KRETE 15	Krete Industries, P. O. Box 343, Butler, WI 53007 http://www.krete.com/		
	Plasticizing Admixture	KreteMix 100 (formerly Krete Econo Plast)	1992-343
MBS-1 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA <i>Formerly BASF Construction Chemicals (BAS-115)</i>		
	Plasticizing Admixture for Dry-Cast Manufacturing Only (S-PA) <i>Recommended Dosage: 2 to 12 oz/cwt</i>	MasterCast 900 (RheoFIT 900)	2013-024Q
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Fairless Hills, PA		
	Plasticizing Admixture for Dry-Cast Manufacturing Only (S-PA)	SikaMix PL-100	2016-282Q

601.2(a)4.a Metal Pipes - Ductile Iron Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
AMECI 15	American Cast Iron Pipe Company, 1501 31st Avenue North, Birmingham, AL 35207 http://www.american-usa.com/		
	Ductile Iron Pipe		2010-186Q



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Section 601: Pipe Culverts

601.2(a)4.a Metal Pipes - Ductile Iron Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
MCWD1 15	McWane Ductile - New Jersey, 183 Sitgraves Street, Philipsburg, NJ 08865	http://mcwaneductile.com/	
	Ductile Iron Pipe		----
USP&F 15	U.S. Pipe and Foundry Company, 1101 E. Pearl St., Burlington, NJ 08016	http://www.uspipe.com/	
	Ductile Iron Pipe		1983-085
USPF1 15	United States Pipe and Foundry Company, Two Chase Corporate Drive, Suite 200, Birmingham, AL 35244	http://www.uspipe.com	
Plant	2023 St. Louis Avenue Bessemer, AL 35020		
	Ductile Iron Pipe	TYTON JOINT Pipe	2015-087Q

601.2(a)4.b Metal Pipes - Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
CON03 15	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328	http://www.conteches.com/	
Plant	Conyers, GA		
	Corrugated Steel Pipe, Metallic Coated		----
CON05 15	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328	http://www.conteches.com/	
Plant	Ashland, KY		
	Corrugated Steel Pipe, Metallic Coated		----
CON07 15	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328	http://www.conteches.com/	
Plant	Shakopee, MN		
	Corrugated Steel Pipe, Metallic Coated		----
CON08 15	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328	http://www.conteches.com/	
Plant	Palmer, MA		
	Corrugated Steel Pipe, Metallic Coated		----



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Section 601: Pipe Culverts

601.2(a)4.b Metal Pipes - Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
CON11 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Raleigh, NC Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/	----
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Greencastle, PA Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/	----
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 Corrugated Steel Pipe, Metallic Coated	http://www.culvertsinc.com/Pages/default.aspx	----
J&J-D 15	J & J Drainage Products Company, 110 N Pershing, PO Box 0829, Hutchinson, KS 67504-0829 Related Hardware	http://j drainage.com/ Band Angle	1984-073
LANE0 15	Lane Enterprises, Inc., 3905 Hartzdale Dr. (Suite 514), Camp Hill, PA 17011 Related Hardware	http://www.lane-enterprises.com/ Pipe Bands	1982-024
LANE1 15	Lane Enterprises, Inc., Box 711, May Street, Bath, NY 14810 Corrugated Steel Pipe, Metallic Coated	http://www.lane-enterprises.com/	----
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 Corrugated Steel Pipe, Metallic Coated	http://www.lane-enterprises.com/	----
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 Corrugated Steel Pipe, Metallic Coated	http://www.lane-enterprises.com/	----
LANE4 15	Lane Enterprises, Inc, 377 Crooked Lane, King of Prussia, PA 19406 Corrugated Steel Pipe, Metallic Coated	http://www.lane-enterprises.com/	----



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Section 601: Pipe Culverts

601.2(a)4.b Metal Pipes - Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
LMP-S 15	LMP Steel & Wire Company, 2000 East First Street, Maryville, MO 64468		
	Related Hardware	A-307 Grade A, 6" and 8" Electroplated, CMP Band Bolts	1991-120AB

601.2(a)4.c Metal Pipes - Corrugated Aluminum Alloy Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
CON03 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Conyers, GA		
	Corrugated Aluminum Alloy Pipe		----
CON04 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Mitchell, IN		
	Corrugated Aluminum Alloy Pipe		----
CON07 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Shakopee, MN		
	Corrugated Aluminum Alloy Pipe		----
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Palmer, MA		
	Corrugated Aluminum Alloy Pipe		----
CON11 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Raleigh, NC		
	Corrugated Aluminum Alloy Pipe		----
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 http://www.culvertsinc.com/Pages/default.aspx		
	Corrugated Aluminum Alloy Pipe		----



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Section 601: Pipe Culverts

601.2(a)4.c Metal Pipes - Corrugated Aluminum Alloy Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
LANE1 15	Lane Enterprises, Inc., Box 711, May Street, Bath, NY 14810 http://www.lane-enterprises.com/ Corrugated Aluminum Alloy Pipe		----
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 http://www.lane-enterprises.com/ Corrugated Aluminum Alloy Pipe		----
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 http://www.lane-enterprises.com/ Corrugated Aluminum Alloy Pipe		----
LANE4 15	Lane Enterprises, Inc, 377 Crooked Lane, King of Prussia, PA 19406 http://www.lane-enterprises.com/ Corrugated Aluminum Alloy Pipe		----

601.2(a)4.d Metal Pipes - Coated Corrugated Galvanized Steel Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
CON03 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Conyers, GA Coated Corrugated Galvanized Steel Pipe		----
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Palmer, MA Coated Corrugated Galvanized Steel Pipe		----
CON11 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Raleigh, NC Coated Corrugated Galvanized Steel Pipe		----



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Section 601: Pipe Culverts

601.2(a)4.d Metal Pipes - Coated Corrugated Galvanized Steel Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section also may provide end sections and slope pipe fittings.

	Product	Name	Ref. No.
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Greencastle, PA	http://www.conteches.com/ Coated Corrugated Galvanized Steel Pipe	----
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108	http://www.culvertsinc.com/Pages/default.aspx Coated Corrugated Galvanized Steel Pipe	----
DOW-2 15	The Dow Chemical Company, 4520 Ashman Street, Building 9008, Customer Info., Midland, MI 48642	http://www.dow.com/ Related Hardware <i>Plastic coating for galvanized steel pipe</i>	Trenchcoat DAF 625 1990-304
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522	http://www.lane-enterprises.com/ Coated Corrugated Galvanized Steel Pipe	----
PUREA 15	Pure Asphalt Company, 3300 West 31st Street, Chicago, IL 60623	http://www.pureasphalt.com/ Related Hardware <i>Also listed under Section 702</i>	Culvert Mastic (Spray Grade) 1990-270

601.2(a)6.a Thermoplastic Pipes - Group I

Last Revised: 10/18/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

	Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
CON10 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Springfield, IL	http://www.conteches.com/ Polyvinyl Chloride (PVC) PS 46, A-2000 Pipe with Inline Bell Liner <i>A2 liner pipe. Approved for 2' minimum fill height, 36' maximum fill height.</i>	Type S	12", 15", 18", 21", 24", 30", 36"		2010-238QB
		Polyvinyl Chloride (PVC) A-2000 Pipe Pipe	Type S	15", 18", 21", 24", 30", 36"		2000-326Q



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Section 601: Pipe Culverts

601.2(a)6.a Thermoplastic Pipes - Group I

Last Revised: 10/18/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
CON10 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Springfield, IL <i>15" in. size pipe can only be used for maintenance.</i>				
ISCFB 15 Facility	ISCO Industries, Inc., 100 Witherspoon Street 2 West, Louisville, KY 40202 http://culvert-rehab.com/ 190 Spartan Exchange Rd. Wellford, SC 29385 High Density Polyethylene (HDPE) Liner Snap-Tite Culvert Liner Type S Liner Sizes: 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 36", 42", 48", 54", 63" 2016-249M <i>The Snap-Tite Culvert Liner with SDR of 32.5 is for use on rehabilitation projects for lining existing corrugated metal pipes, reinforced concrete pipes, and concrete culverts. For fill heights of greater than 15', a project-by-project design approval is required.</i>				
JMMC1 15 Plant	J-M Manufacturing Company, 9 Peach Tree Hill Road, Livingston, NJ 07039 Franklin, PA Polyvinyl Chloride (PVC) Pipe Type S 18", 21", 24", 30", 36", 42", 48" 1995-314				
PERPI 15	Performance Pipe a Division of Chevron Phillips Chemical Company, 5085 W. Park Blvd. Suite 500, Plano, TX 75093 http://www.performancepipe.com/en-us/Pages/default.aspx High Density Polyethylene (HDPE) Pipe SDR<21 Type S 18", 21", 24", 30", 36", 42", 48" 1994-094 ----- High Density Polyethylene (HDPE) Pipe SDR=26 Type S 21", 24", 30", 36", 42", 48" 1994-094				



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Section 601: Pipe Culverts

601.2(a)6.a Thermoplastic Pipes - Group I

Last Revised: 10/18/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
PRIM1 15 Plant	Prime Conduit, Inc., 23240 Chagrin Blvd, Suite 405, Cleveland, OH 44122 http://www.primeconduit.com/ Oklahoma City, OK				
	Polyvinyl Chloride (PVC) F 1803 Closed Profile Gravity Pipe Pipe	Type S	21", 24", 30", 36", 42", 48"		1995-114
PWEG1 15	JM Eagle, 1742 E. Platteville Blvd., Pueblo West, CO 81007 http://www.jmeagle.com/ Formerly PW Eagle				
	Polyvinyl Chloride (PVC) Pipe <i>15" size pipe is for maintenance uses only.</i>	Type S	15", 18", 21", 24", 30"		1988-029
	Polyvinyl Chloride (PVC) Pipe	Type S	30", 36" (corrugated)		1997-007
ROYAL 15	Royal Pipe Systems, 131 Regalcrest Court, Woodbridge, Ontario, Canada				
	Polyvinyl Chloride (PVC) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 21", 24"		2002-012Q

601.2(a)6.b Thermoplastic Pipes - Group II

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 5/17/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 21", 24", 30"		1995-322



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 5/17/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 24", 30"		1995-322
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Old Route 30 West Wooster, OH 44691				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 24", 30"		1995-322
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Ludlow, MA				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 24", 30"		1995-322
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Buena Vista, VA				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 24", 30"		1995-322



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 5/17/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 <i>Formerly Hancor, Inc. (HANC0 15)</i>	http://www.ads-pipe.com/en/			
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type S	15", 18", 21", 24", 30"		-
ADS10 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 <i>Formerly Hancor, Inc. (HANC1 15)</i>	http://www.ads-pipe.com/en/			
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type S	15", 18", 21", 24"		----
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879	http://www.baughmantile.com/			
	High Density Polyethylene (HDPE) Pipe Poly Smooth-Line				2001-013Q
	High Density Polyethylene (HDPE) Pipe Poly Smooth-Line				2001-014Q
	High Density Polyethylene (HDPE) Pipe Solid Poly-Drain				2000-040Q
DRAPR 15	Drainage Products, Inc., (Haviland Drainage Products), Main Street, Box 97, Haviland, OH 45851	http://haviland-drainage.com			
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30"		2000-124Q



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 5/17/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.	
JME-1 15	JM Eagle, 15661 Delano Road, Cochranon, PA 16314-0000 http://www.jmeagle.com/					
	High Density Polyethylene (HDPE) Pipe	Type S	15"		2015-042QA	
	<i>15" size pipe for maintenance only.</i>					
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2015-042QB	
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2015-042QC	
	High Density Polyethylene (HDPE) Pipe	Type S	30"		2015-042QD	
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/					
	High Density Polyethylene (HDPE) Pipe		15", 18", 21", 24", 30"		1996-190	
	<i>15" size pipe for maintenance use only.</i>					
	High Density Polyethylene (HDPE) Pipe		Type S	24"		1996-190
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	18"		2016-068Q
High Density Polyethylene (HDPE) Pipe	HD100	Type S	24"		2016-195Q	



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 5/17/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE7 15	Lane Enterprises, Inc., 510 Kents Lane, Wytheville, VA 24382 http://www.lane-enterprises.com/				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 21", 24"		2009-043Q
	High Density Polyethylene (HDPE) Pipe	Type S	30"		2010-099Q

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 1/11/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Type D: This pipe shall consist of an essentially smooth waterway braced circumferentially or spirally with projections or ribs joined to an essentially smooth outer wall. Both walls shall be fused to, or continuous with, the internal supports.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		1995-322
	High Density Polyethylene (HDPE) Pipe	Type D	42", 48"		1997-128
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2000-003Q
	High Density Polyethylene (HDPE) Pipe	Type S	48"		2001-193Q



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 1/11/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Type D: This pipe shall consist of an essentially smooth waterway braced circumferentially or spirally with projections or ribs joined to an essentially smooth outer wall. Both walls shall be fused to, or continuous with, the internal supports.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	High Density Polyethylene (HDPE) Pipe	Type S	60"		2003-069Q
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		1995-322
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2000-003Q
	High Density Polyethylene (HDPE) Pipe	Type S	48"		2001-193Q
	High Density Polyethylene (HDPE) Pipe	Type S	60"		2003-069Q
	High Density Polyethylene (HDPE) Pipe N-12	Type D	42", 48"		1997-128



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601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 1/11/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Type D: This pipe shall consist of an essentially smooth waterway braced circumferentially or spirally with projections or ribs joined to an essentially smooth outer wall. Both walls shall be fused to, or continuous with, the internal supports.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Ludlow, MA				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		1995-322
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2000-003Q
	High Density Polyethylene (HDPE) Pipe	Type D	42"		1997-128
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	High Density Polyethylene (HDPE) Pipe		36"		----
	High Density Polyethylene (HDPE) Pipe		54", 60"		1998-017
	High Density Polyethylene (HDPE) Pipe		42", 48"		1997-134
	High Density Polyethylene (HDPE) Pipe	Sure-Lok Annular Corrugated, PE			



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 1/11/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Type D: This pipe shall consist of an essentially smooth waterway braced circumferentially or spirally with projections or ribs joined to an essentially smooth outer wall. Both walls shall be fused to, or continuous with, the internal supports.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS10 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ 1 William Donnelly Parkway Waverly, NY 14892 <i>Formerly Hancor, Inc. (HANC1 15)</i>				
	High Density Polyethylene (HDPE) Pipe		36"		----
	High Density Polyethylene (HDPE) Pipe	Type S	54", 60"		1998-017
	High Density Polyethylene (HDPE) Pipe		42", 48"		1997-134
	Sure-Lok Annular Corrugated, PE				
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2003-050Q
	High Density Polyethylene (HDPE) Pipe	Type S	42", 48"		2010-035QAC
DRAPR 15	Drainage Products, Inc., (Haviland Drainage Products), Main Street, Box 97, Haviland, OH 45851 http://haviland-drainage.com				
	High Density Polyethylene (HDPE) Pipe	Type S	36", 42"		2000-124Q



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 1/11/2018

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Type D: This pipe shall consist of an essentially smooth waterway braced circumferentially or spirally with projections or ribs joined to an essentially smooth outer wall. Both walls shall be fused to, or continuous with, the internal supports.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
JME-1 15	JM Eagle, 15661 Delano Road, Cochran, PA 16314-0000 http://www.jmeagle.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2015-043QA
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2015-043QB
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		1996-272
	High Density Polyethylene (HDPE) Pipe	Type S	42", 48"		2004-047
	High Density Polyethylene (HDPE) Pipe	Type S	60"		2016-054Q
LANE7 15	Lane Enterprises, Inc., 510 Kents Lane, Wytheville, VA 24382 http://www.lane-enterprises.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2010-100Q

601.2(a)6.e Thermoplastic Pipes - Group V

Last Revised: 6/12/2018

Type C: This pipe shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.



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Section 601: Pipe Culverts

601.2(a)6.e Thermoplastic Pipes - Group V

Last Revised: 6/12/2018

Type C: This pipe shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	http://www.ads-pipe.com/en/ Type C	15", 18", 21", 24"		1995-332
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 173 Industrial Park North Muncy, PA 17756 High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	http://www.ads-pipe.com/en/ Type C	15", 18", 24"		1995-322
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Old Route 30 West Wooster, OH 44691 High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	http://www.ads-pipe.com/en/ Type C	15", 18", 24"		1995-322
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Ludlow, MA High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	http://www.ads-pipe.com/en/ Type C	15", 18", 24"		1995-322



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Section 601: Pipe Culverts

601.2(a)6.e Thermoplastic Pipes - Group V

Last Revised: 6/12/2018

Type C: This pipe shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Buena Vista, VA	http://www.ads-pipe.com/en/			
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type C	15", 18", 24"		1995-322
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)	http://www.ads-pipe.com/en/			
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24"		----
ADS10 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)	http://www.ads-pipe.com/en/			
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24"		----



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Section 601: Pipe Culverts

601.2(a)6.e Thermoplastic Pipes - Group V

Last Revised: 6/12/2018

Type C: This pipe shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24"		2010-098Q
	High Density Polyethylene (HDPE) Pipe HD100	Type C	24"		2016-086Q
	High Density Polyethylene (HDPE) Pipe HD100	Type C	18"		2018-036Q

601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 4/17/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30", 36", 42", 48", 60"	432-04-01	----
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 24", 30", 36", 42", 48", 60"	432-04-01	----
	High Density Polyethylene (HDPE) Pipe N-12 Model No. 18850020IB	Type S	18"		2015-039QA



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601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 4/17/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	<i>Revised Profile</i>				
	High Density Polyethylene (HDPE) Pipe	N-12 Model No. 24850020IB	Type S	24"	2013-064MA
	<i>Revised Profile</i>				
	Polypropylene (PP) Pipe	36" HP Storm (3665 0020 IBPL)	Type S	36"	2017-020Q
	Polypropylene (PP) Pipe	42" HP Storm (4265 0020 IBPL)	Type S	42"	2017-012Q
	Polypropylene (PP) Pipe	48" HP Storm (4865 0020 IBPL)	Type S	48"	2017-011Q
	Polypropylene (PP) Pipe	60" HP Storm (6065 0020 IBPL)	Type S	60"	2017-010Q
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Old Route 30 West Wooster, OH 44691				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 24", 30"	432-04-01 ----
	Polypropylene (PP) Pipe	18" HP Storm (1865 0020 IBPL)	Type S	18"	2017-021Q
	Polypropylene (PP) Pipe	24" HP Storm (2465 0020 IBPL)	Type S	24"	2017-022Q
	Polypropylene (PP) Pipe	30" HP Storm (3065 0020 IBPL)	Type S	30"	2017-023Q
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Ludlow, MA				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 24", 30", 36", 42"	432-04-01 ----



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601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 4/17/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

	Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/	Buena Vista, VA				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 24", 30"	432-04-01	----
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/	Logan Township, NJ				
	High Density Polyethylene (HDPE) Pipe	N-12 Model Numbers 18850020IB & 24850020IB	Type S	18", 24"		2011-143Q
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/	Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 21", 24", 30"	432-04-01	----
	Polypropylene (PP) Pipe	18" HP Storm (1865 0020 IBPL)	Type S	18"		2017-013Q
	Polypropylene (PP) Pipe	21" HP Storm (2165 0020 IBPL)	Type S	21"		2017-014Q
	Polypropylene (PP) Pipe	24" HP Storm (2465 0020 IBPL)	Type S	24"		2017-015Q
	Polypropylene (PP) Pipe	36" HP Storm (3665 0020 IBPL)	Type S	36"		2017-016Q
	Polypropylene (PP) Pipe	42" HP Storm (4265 0020 IBPL)	Type S	42"		2017-017Q
	Polypropylene (PP) Pipe	48" HP Storm (4865 0020 IBPL)	Type S	48"		2017-018Q
	Polypropylene (PP) Pipe	60" HP Storm (6065 0020 IBPL)	Type S	60"		2017-019Q
ADS-9 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/	39 Precision Drive North Springfield, VT				
	Polypropylene (PP) Pipe	18" HP Storm (1865 0020 IBPL)	Type S	18"		2017-024Q
	Polypropylene (PP) Pipe	24" HP Storm (2465 0020 IBPL)	Type S	24"		2017-026Q



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601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 4/17/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS10 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30"	432-04-01	----
	Polypropylene (PP) Pipe	HP Storm (1865 0020 IBPL)	Type S	18"	2019-002Q
	Polypropylene (PP) Pipe	HP Storm (2165 0020 IBPL)	Type S	21"	2019-005Q
	Polypropylene (PP) Pipe	HP Storm (2465 0020 IBPL)	Type S	24"	2019-003Q
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24"	432-04-01	----
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2010-035QB
DRAPR 15	Drainage Products, Inc., (Haviland Drainage Products), Main Street, Box 97, Haviland, OH 45851 http://haviland-drainage.com				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30", 36", 42", 48"	432-04-01	----
JME-1 15	JM Eagle, 15661 Delano Road, Cochranon, PA 16314-0000 http://www.jmeagle.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2015-044QA
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2015-044QB



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Section 601: Pipe Culverts

601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 4/17/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30", 36", 42", 48"	432-04-01	----
	High Density Polyethylene (HDPE) Pipe	Type S	60"		2016-055Q
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2016-069Q
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2016-197Q
LANE7 15 Plant	Lane Enterprises, Inc., 510 Kents Lane, Wytheville, VA 24382 http://www.lane-enterprises.com/				
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2014-057Q
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2014-058Q

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 8/20/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				



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Section 601: Pipe Culverts

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 8/20/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe <i>Revised Profile - Provisionally Approved.</i>	N-12 MODEL NO. 18650020IB	Type S	18"	2015-039QB
	High Density Polyethylene (HDPE) Pipe <i>All sizes Provisionally Approved.</i>	N-12 Model No. XX650020IBC2 (XX = diameter)	Type S	18", 21", 24", 30", 36", 42", 48", 54", 60"	2010-266Q
	Polypropylene (PP) Pipe	HP Storm	Type S	36"	2019-065Q
	Polypropylene (PP) Pipe	HP Storm	Type S	42"	2019-066Q
	Polypropylene (PP) Pipe	HP Storm	Type S	48"	2019-067Q
	Polypropylene (PP) Pipe	HP Storm	Type S	60"	2019-068Q
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Old Route 30 West Wooster, OH 44691				
	Polypropylene (PP) Pipe	HP Storm	Type S	18"	2019-062Q
	Polypropylene (PP) Pipe	HP Storm	Type S	24"	2019-063Q
	Polypropylene (PP) Pipe	HP Storm	Type S	30"	2019-064Q
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 <i>Formerly Hancor, Inc. (HANCO 15)</i>				
	Polypropylene (PP) Pipe	HP Storm	Type S	18"	2019-059Q
	Polypropylene (PP) Pipe	HP Storm	Type S	24"	2019-061Q



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Section 601: Pipe Culverts

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 8/20/2020

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

	Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/					
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	30"		2014-251M
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	48"		2014-252M
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	42"		2014-253M
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	24"		2016-286Q
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	18"		2016-291Q
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	36"		2019-154Q
	High Density Polyethylene (HDPE) Pipe	HD100Gold	Type S	60"		2016-198
LANE7 15	Lane Enterprises, Inc., 510 Kents Lane, Wytheville, VA 24382 http://www.lane-enterprises.com/					
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	18"		2014-220Q
	High Density Polyethylene (HDPE) Pipe	HD100	Type S	24"		2014-221Q



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Section 601: Pipe Culverts

601.2(a)7 Steel Reinforced Polyethylene (SRPE) Pipe

Last Revised: 10/29/2020

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
CON01 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Montgomery, AL				
	SRPE Pipe, Group I	DuroMaxx	30", 36", 42"		2017-166
	<i>Provisionally Approved. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (4/21/2020 to 4/21/2022).</i>				
	SRPE Pipe, Group II	DuroMaxx	48", 54", 60", 66", 72"		2017-166
	<i>Provisionally Approved. Provisionally Approved. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (4/21/2020 to 4/21/2022).</i>				
	SRPE Pipe, Group III	DuroMaxx	84", 96", 108", 120"		2017-166
	<i>Provisionally Approved. Provisionally Approved. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (4/21/2020 to 4/21/2022).</i>				



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Posted:
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Section 603: Metal Plate Culverts

603.2(a) Metal Plate Pipes, Metal Plate Pipe Arches, and Metal Plate Arches

Last Revised: 2/13/2020

Strike Off Letters (SOL) and Drawings for [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
CON06 15 Plant	Contech Engineered Solutions LLC, a QUIKRETE Company, 9025 Centre Pointe Drive, West Chester, OH 45069 http://www.conteches.com/ 700 Tech Drive Winchester, KY 40391		
Metal Plate Culvert (Fabricator)	Aluminum Plate Pipe		1994-246
<i>This material has been downgraded to provisional approval status until the manufacturer provides fill height tables to Bridge Design & Technology Division. Provisionally Approved</i>			
Metal Plate Culvert (Fabricator)	Aluminum Structural Plate Box Culverts	483-19-05	2013-224
Metal Plate Culvert (Fabricator)	Steel Structural Plate for Culverts		----
<i>Approval date of letter: 10/26/2007</i>			
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 http://www.lane-enterprises.com/		
Metal Plate Culvert (Fabricator)	Aluminum Structural Plate Box Culverts	431-12-09	2012-110
Metal Plate Culvert (Fabricator)	Aluminum Structural Plate for Culverts		2006-041Q
<i>Provisionally Approved. This material has provisional approval status until the manufacturer provides fill height tables to Bridge Design & Technology Division.</i>			
Metal Plate Culvert (Fabricator)	Steel Structural Plate for Culverts		----



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Section 604: Combination Storm Sewer and Underdrain

604.2(a)1 Nonmetal Pipes

Last Revised: 10/18/2018

Type CP: This pipe with perforations shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Type SP: This pipe with perforations shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	42"		2000-002Q
	Group IVP Perforated Pipe (Polyethylene)	Type SP	48"		2001-194Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30", 36", 42", 48", 60"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	42"		2000-002Q
	Group IVP Perforated Pipe (Polyethylene)	Type SP	48"		2001-194Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 30", 36", 42", 48", 60"	432-04-01	----
	Group VIP Perforated Pipe (Polyethylene)	Type SP	24"		2013-064MB
	<i>Revised Profile</i>				
	Group VP Perforated Pipe (Polyethylene)	Type CP	12" to 24"		1995-322



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Section 604: Combination Storm Sewer and Underdrain

604.2(a)1 Nonmetal Pipes

Last Revised: 10/18/2018

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Type SP: This pipe with perforations shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	Old Route 30 West Wooster, OH 44691				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30"	432-04-01	-
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	Ludlow, MA				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type S	42"		2000-002Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30", 36", 42"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/				
	Buena Vista, VA				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322



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Section 604: Combination Storm Sewer and Underdrain

604.2(a)1 Nonmetal Pipes

Last Revised: 10/18/2018

Type CP: This pipe with perforations shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Type SP: This pipe with perforations shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		----
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36", 42", 48"		1998-016A, B
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		----
ADS10 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24"		----
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		----
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	24", 30"		2001-015-016Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24"	432-04-01	----
CON10 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Springfield, IL				
	Group IP Perforated Pipe (Polyvinyl Chloride)	Type SP	12", 15", 18", 24", 36"		2000-327Q



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Section 604: Combination Storm Sewer and Underdrain

604.2(a)1 Nonmetal Pipes

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Type SP: This pipe with perforations shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
DRAPR 15	Drainage Products, Inc., (Haviland Drainage Products), Main Street, Box 97, Haviland, OH 45851 http://haviland-drainage.com				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		2000-125Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30", 36", 42", 48"	432-04-01	----
HYDR2 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 800 Industrial Drive, Middletown, DE 19709 http://www.rinkerpipe.com/				
	Reinforced Concrete (RC) Pipe		Elliptical		2013-104Q
	Reinforced Concrete (RC) Pipe		Round		2013-104Q
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 30"		1997-182
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	18"		2016-194Q
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	24"		2016-305Q
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36"		1997-182
	Group IVP Perforated Pipe (Polyethylene)	Type SP	42", 48"		2004-048
	Group IVP Perforated Pipe (Polyethylene)	Type SP	60"		2016-307Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	30", 36", 42", 48"	432-04-01	----
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18"		2016-196Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	24"		2016-306
	Group VIP Perforated Pipe (Polyethylene)	Type SP	60"		2016-308



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Section 604: Combination Storm Sewer and Underdrain

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Type SP: This pipe with perforations shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
LANE7 15	Lane Enterprises, Inc., 510 Kents Lane, Wytheville, VA 24382 http://www.lane-enterprises.com/				
	Group IIIIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 15"	Type SP	15"	2014-254Q
	Group IIIIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 18"	Type SP	18"	2014-255Q
	Group IIIIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 24"	Type SP	24"	2014-256Q
	Group VIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 18"	Type SP	18"	2014-259Q
	Group VIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 24"	Type SP	24"	2014-260Q
OLDP1 15	Oldcastle Infrastructure, Inc., a CRH Company, 1900 Pennsylvania Ave., Croydon, PA 19021 http://www.oldcastleprecast.com/Pages/default.aspx				
	Reinforced Concrete (RC) Pipe			12" to 48"	2013-086Q
PWEGL 15	JM Eagle, 1742 E. Platteville Blvd., Pueblo West, CO 81007 http://www.jmeagle.com/ Formerly PW Eagle				
	Group IP Perforated Pipe (Polyethylene)		Type SP	15", 18", 24", 30", 36"	2000-194Q



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Posted:
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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
AMEHP 15	American Highway Products, Ltd., 11723 Strasburg Bolivar Road NW, Bolivar, OH 44612 http://www.ahp1.com/index.php		
	Grade Adjustment Riser - Structural Steel		2014-222Q
	Type 1 or 2: RC45M		
BERMF 15	Bear Ridge Machine & Fabrication, Inc., 10 Eleanor Avenue, Frackville, PA 17931 http://brmf.net/		
	Grade Adjustment Riser - Structural Steel		2002-113Q
	Grate - Welded Steel		2002-113Q
	Grate - Welded Steel Bicycle Safe		2002-113Q
BREWF 15	S. R. Bressler Welding & Fabrication, 558 Lake Drive, Curwensville, PA 16833 http://www.srbressler.com/		
	2'x4' Type S Top		2013-119QI
	Frame - Welded Steel Inlet		2013-119QF
	Frame - Welded Steel Inlet Angle		2013-119QH
	Grade Adjustment Riser - Structural Steel	Type 1 or 2: RC45M	2013-119QG
	Grate - Type D-H Steel		2013-119QD
	Grate - Welded Steel		2013-119QA
	Grate - Welded Steel Bicycle Safe		2013-119QB
	Vane Grate - Welded Steel		2013-119QE
	<i>May be used outside of the travel lanes, at the edge of outside shoulders, swales, wide median swales, and infield areas. Not approved for HS-25 loading.</i>		
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
	Anti-Vortex Device		2019-082Q
	Trash Rack		2019-082Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
EJI-0 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730		
	Frame - Cast Iron, HS25 Loading 5355Z 3 1/4" Tall Catch Basin Frame (Type M: 535511, Type C: 535513) <i>* Approved MM-USA marking as Identifiable Steel</i>		2008-113Q
	Frame - Cast Iron, HS25 Loading 5356Z 8" Tall Catch Basin Frame, 3 Flanges, Along Curb, Type C (535611) <i>* Approved MM-USA marking as Identifiable Steel</i>		2008-113Q
	Frame - Cast Iron, HS25 Loading 5356Z 8' Tall Catch Basin Frame, 4 Flanges, Type M (535613) <i>* Approved MM-USA marking as Identifiable Steel</i>		2008-113Q
	Frame - Cast Iron, HS25 Loading 5357ZPT 10 1/8" Tall Catch Basin Frame, Bolting with 3 Flanges, Along Curb (535713) <i>* Approved MM-USA marking as Identifiable Steel</i>		2008-113Q
	Frame - Cast Iron, HS25 Loading 5357ZPT 10-1/8" Tall Catch Basin Frame, Bolting with 4 Flanges, Type M (535711) <i>* Approved MM-USA marking as Identifiable Steel</i>		2008-113Q
	Grate - Cast Iron, HS25 Loading 5355M4 Diagonal Two Piece Grate (535541)		-
	Grate - Cast Iron, HS25 Loading 5355M5 Two Piece Vane Grate (535544, 535545) <i>* Approved MM-USA marking as Identifiable Steel</i>		1986-011
	Grate - Cast Iron, HS25 Loading 5355M6 ADA Style Two Piece Grate (535548, 535549) <i>* Approved MM-USA marking as Identifiable Steel</i>		1986-011
	Grate - Cast Iron, HS25 Loading 5355M8 One Piece Bicycle Safe Grate (535570, 535571) <i>* Approved MM-USA marking as Identifiable Steel</i>		2008-113Q
	Grate - Cast Iron, HS25 Loading 5355M1 Diagonal One Piece Grate (535531)		-



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
EJ-3 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Syracuse Fabrication 132 County Route 59 Phoenix, NY 13135		
	Frame - Welded Steel Inlet * Approved MM-USA marking as Identifiable Steel		----
	Frame - Welded Steel Inlet Angle * Approved MM-USA marking as Identifiable Steel		----
	Grade Adjustment Riser - Structural Steel Type 1 or 2: RC45M * Approved MM-USA marking as Identifiable Steel		----
	Grate - Type D-H Steel * Approved MM-USA marking as Identifiable Steel		----
	Grate - Welded Steel * Approved MM-USA marking as Identifiable Steel		----
	Grate - Welded Steel Bicycle Safe * Approved MM-USA marking as Identifiable Steel		----
	Welded Rebar Cage (Type S Inlet Top) * Approved MM-USA marking as Identifiable Steel		----
	Welded Rebar Cage (Type C Inlet Top) * Approved MM-USA marking as Identifiable Steel		----
	Welded Rebar Cage (Type C-Alt Inlet Top) * Approved MM-USA marking as Identifiable Steel		----
	Welded Rebar Cage (Type DH Inlet Top) * Approved MM-USA marking as Identifiable Steel		----
	Welded Rebar Cage (Type M Inlet Top) * Approved MM-USA marking as Identifiable Steel		----



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
EJI-4 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/		
	St Clair Fabrication 300 Wade Road, Suite A St. Clair, PA 17970		
	<i>Formerly QUIRN</i>		
	Frame - Welded Steel Inlet		2013-177AC
	Frame - Welded Steel Inlet Angle		----
	Grate - Type D-H Steel		----
	Grate - Welded Steel		----
	Grate - Welded Steel Bicycle Safe		----
	Welded Rebar Cage (Type S Inlet Top)		2013-176QC
Welded Rebar Cage (Type C Inlet Top)		2013-176QA	
Welded Rebar Cage (Type C-Alt Inlet Top)		2013-176QA	
Welded Rebar Cage (Type M Inlet Top)		2013-176QB	
JERDW 15	Jerdon Welding, 409 Wiconisco Street, P.O. Box 322, Wiconisco, PA 17097		
	Frame - Welded Steel Inlet		2001-041Q
	Grade Adjustment Riser - Structural Steel	Types 1 or 2: RC45M	2001-041Q
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 http://www.lane-enterprises.com/		
	Anti-Vortex Device		2002-050Q
	Trash Rack		2002-050Q
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 http://www.lane-enterprises.com/		
	Anti-Vortex Device		2002-049Q
	Trash Rack		2002-049Q
LANE4 15	Lane Enterprises, Inc, 377 Crooked Lane, King of Prussia, PA 19406 http://www.lane-enterprises.com/		
	Anti-Vortex Device		2002-068Q
	Trash Rack		2002-068Q



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Posted:
12/10/2020 9:27:26AM

Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
LCG-1 15 Plant	Laurel Custom Grating, LLC - An MLP Company, 18 Mount Pleasant Road, Scottdale, PA 15683 https://laurelcustomgrating.com/ 800 Brown Street Everson, PA 15631 <i>Formerly listed as MLP Steel, LLC (MLP-1 15)</i>		
	Frame - Welded Steel Inlet		1987-416
	Frame - Welded Steel Inlet Angle		1987-416
	Grade Adjustment Riser - Structural Steel	Types 1 or 2: RC-45M	1987-416
	Grate - Type D-H Steel		1987-416
	Grate - Welded Steel		1987-416
	Grate - Welded Steel Bicycle Safe		1987-416
	Vane Grate - Welded Steel		1987-416
	<i>May be used outside of the travel lanes, at the edge of outside shoulders, swales, wide median swales, and infield areas. Not approved for HS-25 loading.</i>		
MANWF_15	Mann Welding & Fabrication LLC, 2755 Schukraft Road, Quakertown, PA 18951		
	Anti-Vortex Device		2014-061Q
	Trash Rack		2014-061Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
MCCAR 15	McCarroll Precast, Inc., 1129 Old 115, Dallas, PA 18612		
Frame - Welded Steel Inlet		10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			
Grade Adjustment Riser - Structural Steel	Types 1 or 2: RC45M	10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			
Welded Rebar Cage (Type S Inlet Top)		10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			
Welded Rebar Cage (Type C Inlet Top)		10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			
Welded Rebar Cage (Type C-Alt Inlet Top)		10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			
Welded Rebar Cage (Type DH Inlet Top)		10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			
Welded Rebar Cage (Type M Inlet Top)		10/15/1996	----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>			



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
MILES 15	Miles Foundry, 301 Bedford Street, Clarks Summit, PA 18411		
Frame - Welded Steel Inlet			----
Grade Adjustment Riser - Structural Steel	Types 1 or 2: RC45M		----
Grate - Type D-H Steel			----
Grate - Welded Steel			----
Grate - Welded Steel Bicycle Safe			----
Grate and Frame - Cast Iron, HS20 Loading			----
<i>Use outside of travel lanes only.</i>			
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 http://www.nfco.com/		
Anti-Vortex Device			2017-058Q
Frame - Welded Steel Inlet		7/11/1983	----
Frame - Welded Steel Inlet Angle		7/11/1983	----
Grade Adjustment Riser - Structural Steel	Types 1 or 2: RC45M	7/11/1983	----
Grate - Type D-H Steel		7/11/1983	----
Grate - Welded Steel		7/11/1983	----
Grate - Welded Steel Bicycle Safe		7/11/1983	----
Trash Rack			2017-058Q
Vane Grate - Welded Steel		7/11/1983	----
<i>May be used outside of the travel lanes, at the edge of outside shoulders, swales, wide median swales, and infield areas. Not approved for HS-25 loading. Morgan's Welding Structural Steel Vane Grate PennDOT Approved Drawing</i>			
Welded Rebar Cage (Type S Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type C Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type C-Alt Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type DH Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type M Inlet Top)		7/11/1983	----



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
NEENA 15	Neenah Foundry Company, Box 729, 2121 Brooks Ave., Neenah, WI 54956 http://www.nfco.com/		
Grade Adjustment Riser - Structural Steel	Grate #3573-0007, Type Q, Type 1 or 2: RC45M		1996-273
Grade Adjustment Riser - Structural Steel	Grate #3573-3000, Type L, Type 1 or 2: RC45M		1998-010
Grate - Welded Steel Bicycle Safe	Grate #3573-0007, Type Q		1996-273
Grate - Welded Steel Bicycle Safe	Grate #3573-3000, Type L		1998-010
Grate and Frame - ADA Acceptable	Grate #3573-0007, Type Q		1996-273
Grate and Frame - Cast Iron, HS20 Loading			----
<i>Use outside of travel lanes only.</i>			
<i>Provides HS25 Grate</i>			
Grate and Frame - Cast Iron, HS25 Loading	Frame #3573-2000, Type C		1996-188
Grate and Frame - Cast Iron, HS25 Loading	Frame #3574-2000, Type M		1996-189
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-0002		1996-187
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-0007, Type Q		1996-273
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-0008		1996-274
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-3000, Type L		1998-010
STAAR 15	STAAR Distributing, LLC, 560 Myrtle Street, Reynoldsville, PA 15851 http://www.staardistributing.com/		
Facility	130A Satterlee Road DuBois, PA 15801		
Frame - Type C, Welded Structural Steel			2016-012Q
Frame - Type M, Welded Structural Steel			2016-013Q
Grate - Type D-H Steel			2016-011Q
Grate - Welded Steel			2016-009Q
Grate - Welded Steel Bicycle Safe			2016-010Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 9/14/2020

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
TDFSV 15	TDF Services, Inc., P.O. Box 111, Oakmont, PA 15139		
	Frame - Welded Steel Inlet		2000-005Q
	Grade Adjustment Riser - Structural Steel <i>Types 1 or 2: RC45M</i>		2000-005Q
	Grate - Welded Steel		2000-005Q
	Grate - Welded Steel Bicycle Safe		2000-005Q
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
	Frame - Welded Steel Inlet <i>* Approved MM-USA marking as Identifiable Steel</i>	Type C: RC-45M	2018-258Q
	Frame - Welded Steel Inlet <i>* Approved MM-USA marking as Identifiable Steel</i>	Type M: RC-45M	2018-259Q
	Frame - Welded Steel Inlet Angle <i>* Approved MM-USA marking as Identifiable Steel</i>	Type C Light Angle: RC-45M	2018-250Q
	Frame - Welded Steel Inlet Angle <i>* Approved MM-USA marking as Identifiable Steel</i>	Type DH Level: RC-45M	2018-251Q
	Frame - Welded Steel Inlet Angle <i>* Approved MM-USA marking as Identifiable Steel</i>	Type DH Sloped: RC-45	2018-252Q
	Frame - Welded Steel Inlet Angle <i>* Approved MM-USA marking as Identifiable Steel</i>	Type M Light Angle: RC-45M	2018-249Q
	Frame - Welded Steel Inlet Angle <i>* Approved MM-USA marking as Identifiable Steel</i>	Type S Light Angle: RC-45M	2018-253Q
	Grade Adjustment Riser - Structural Steel <i>* Approved MM-USA marking as Identifiable Steel</i>	Type 1: RC-45M	2018-211Q
	Grade Adjustment Riser - Structural Steel <i>* Approved MM-USA marking as Identifiable Steel</i>	Type 2: RC-45M	2018-212Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Junction Box Frames

Last Revised: 2/26/2019

Steel Products Procurement Act Applies.

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

	Product	Name	Ref. No.
FADD5 15 Facility	Faddis Concrete Products, 2206 Horseshoe Pike, Honey Brook, PA 19344 http://www.faddis.com/ 210 Hinterleiter Road Kutztown, PA 19530		
	JB-1 Frame		2015-194Q
	JB-11 Frame		2015-196Q
	JB-12 Frame		2015-197Q
	JB-2 Frame		2015-195Q
FISHW 15	Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963 https://fisher-welding-fabricating.hub.biz/		
	JB-1 Frame		1993-213
	JB-11 Frame		1993-213
	JB-12 Frame		1993-213
	JB-2 Frame		1993-213
MORGA 15	Morgan's Welding Inc. (Neeah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 http://www.nfco.com/		
	JB-1 Frame		----
	JB-11 Frame		----
	JB-12 Frame		----
	JB-2 Frame		----
PEIWF 15	Peirce Welding & Fabricating, 170 Airport Rd., P.O. Box 369, Bethel, PA 19507		
	JB-1 Frame		2001-190Q
	JB-11 Frame		2001-190Q
	JB-12 Frame		2001-190Q
	JB-2 Frame		2001-190Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Junction Box Frames

Last Revised: 2/26/2019

Steel Products Procurement Act Applies.

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143	
JB-1 Frame		2018-254Q
	* Approved MM-USA marking as Identifiable Steel	
JB-11 Frame		2018-256Q
	* Approved MM-USA marking as Identifiable Steel	
JB-12 Frame		2018-257Q
	* Approved MM-USA marking as Identifiable Steel	
JB-2 Frame		2018-255Q
	* Approved MM-USA marking as Identifiable Steel	

605.2(a) Junction Boxes, Steel or Cast Iron

Last Revised: 11/28/2017

Steel Products Procurement Act Applies. JB-25 for underbridge lighting: [Standard Drawing BC-721M \(Publication 219M\)](#)

For JB-26 & JB-27: [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Product	Name	Ref. No.
FISHW 15	Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963 https://fisher-welding-fabricating.hub.biz/	
JB-25, Welded Steel Plate Junction Box		1993-213
JB-26, Steel Junction Box		1993-213
JB-27, Steel Junction Box		1993-213



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Junction Boxes, Steel or Cast Iron

Last Revised: 11/28/2017

Steel Products Procurement Act Applies. JB-25 for underbridge lighting: [Standard Drawing BC-721M \(Publication 219M\)](#)

For JB-26 & JB-27: [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Product	Name	Ref. No.
HOPE1 15	Hope Electrical Products Co., Inc, 3 Fairfield Crescent, West Caldwell, NJ 07006	
JB-25, Cast Iron Junction Box	H62-180808SC, Type H6200 - Internal Recessed Flanged Box	2016-089Q
JB-26, Cast Iron Junction Box	H70-121212SC, Type H7000 - Flanged Recessed Cover Box	2016-088Q
JB-27, Cast Iron Junction Box	H70-181224SC, Type H7000 - Flanged Recessed Cover Box	2016-090Q
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 http://www.nfco.com/	
JB-25, Welded Steel Plate Junction Box		----
JB-26, Steel Junction Box		----
JB-27, Steel Junction Box		----
PEIWF 15	Peirce Welding & Fabricating, 170 Airport Rd., P.O. Box 369, Bethel, PA 19507	
JB-25, Welded Steel Plate Junction Box		2001-191Q
JB-26, Steel Junction Box		2001-191Q
JB-27, Steel Junction Box		2001-191Q
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/	
JB-25, Welded Steel Plate Junction Box		2013-013QA
JB-26, Steel Junction Box		2013-013QA
JB-27, Steel Junction Box		2013-013QB
UTILT 15	Utility Metals, P.O. Box 9054, Louisville, KY 40209-0054 http://utilitymetals.com/	
JB-25, Welded Steel Plate Junction Box		2001-179Q
JB-26, Steel Junction Box		1992-223A
JB-27, Steel Junction Box		1992-223B



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(b) Manhole Frames and Covers

Last Revised: 3/11/2020

Steel Products Procurement Act Applies [Standard Drawing RC-39M \(Publication 72M\)](#)

Product	Name	Ref. No.
EJI-0 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730	
Cast Iron Hood	5357T1 Non-mountable, Non-Adjustable Curb Inlet Hood (535750) <i>For use with Type C 3 Flange Frames, Dump no Waste!, PennDOT Type C</i> <u>Approved MM-USA marking as Identifiable Steel</u>	2008-113Q
Cast Iron Manhole Cover	1892A Solid Cover PennDOT RC-39 Standard (189221)	2008-113Q
Cast Iron Manhole Cover	1892A Solid Cover Storm, PennDOT RC-39 Standard (189224) <u>* Approved MM-USA marking as Identifiable Steel</u>	2008-113Q
Cast Iron Manhole Cover	1892AGS Solid Cover with Gasket (189223) <u>* Approved MM-USA marking as Identifiable Steel</u>	2008-113Q
Cast Iron Manhole Frame	1892Z 4" Tall Frame with 4 Base Flange Holes (189211) <u>* Approved MM-USA marking as Identifiable Steel</u>	2008-113Q
Cast Iron Manhole Frame	SELFLEVEL <i>Approved as an alternate. Shall be installed and used per SELFLEVEL Access Assembly Installation Use and Guidelines for PennDOT</i>	2017-261Q
Manhole Frame and Cover		1986-011
EJI-1 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Youngstown Fabrication 4150 Simon Road Youngstown, OH 44512 Formerly E. A. Quirn (QUIRN)	
Manhole Frame and Cover		----
EJI-5 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Ardmore Foundry 270 Redwing Road Ardmore, OK 73401	
Cast Iron Manhole Frame	SELFLEVEL <i>Approved as an alternate. Shall be installed and used per SELFLEVEL Access Assembly Installation Use and Guidelines for PennDOT</i>	2017-269Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(b) Manhole Frames and Covers

Last Revised: 3/11/2020

Steel Products Procurement Act Applies [Standard Drawing RC-39M \(Publication 72M\)](#)

Product	Name	Ref. No.
NEENA 15	Neenah Foundry Company, Box 729, 2121 Brooks Ave., Neenah, WI 54956 http://www.nfco.com/	
Manhole Frame and Cover		1986-100
USF-1 15	US Foundry, 8351 NW 93rd Street, Medley, FL 33166 http://www.usfoundry.com/usfoundry/	
Cast Iron Manhole Cover	USF NC Cover	2018-086Q
Cast Iron Manhole Cover	USF RH Cover	2018-087Q
Cast Iron Manhole Frame	USF 755 Ring	2018-085Q

605.2(c) Manhole Steps

Last Revised: 2/27/2015

Product	Name	Ref. No.
ASTEP 15	American Step Company, Inc., 830 East Broadway, P. O. Box 137, Griffin, GA 30224-0137 http://www.americanstep.com/	
Manhole Step	Model I-11	1996-095
Manhole Step	Model I-11 NCR	1998-093A
Manhole Step	Model I-13	1996-095
Manhole Step	Model LML-11	1996-095
Manhole Step	Model LML-11 NCR	1998-093A
Manhole Step	Model LML-13	1996-095
Manhole Step	Model LML-13 NCR	1998-093A
Manhole Step	Model ML-10	1996-095
Manhole Step	Model ML-10 NCR	1998-093A
Manhole Step	Model ML-11	1996-095
Manhole Step	Model ML-11 NCR	1998-093B
Manhole Step	Model ML-13	1996-095
Manhole Step	Model ML-13 NCR	1998-093A
Manhole Step	Model MSN-10	1996-095
Manhole Step	Model MSN-13	1996-095
Manhole Step	Model SML-13	1996-095



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(c) Manhole Steps

Last Revised: 2/27/2015

Product	Name	Ref. No.
ASTEP 15 American Step Company, Inc., 830 East Broadway, P. O. Box 137, Griffin, GA 30224-0137 http://www.americanstep.com/		
Manhole Step	Model SML-13 NCR	1998-093B
BOWCN 15 Bowco Industries, Inc., 155 S. Hazel Dell Way, Canby, OR 97013		
Manhole Step	Bowco Model 93810 (PP coated, orange)	1988-242
Manhole Step	Bowco Model 93813	1993-059
Manhole Step	Bowco Model 93813-TL	1993-059
LANEC 15 Lane International Corporation, 10758 S.W. Manhasset Drive, P. O. Box 925, Tualatin, OR 97062		
Manhole Step	10" Model P-10938	1992-026
Manhole Step	14" Model P-14850	1992-026
MAIND 15 M A Industries, Inc., Kelley & Dividend Drive, P. O. Box 2322, Peachtree City, GA 30269 http://maind.com/		
Manhole Step	Plastic Coated Manhole Step	----
PAINS 15 Pennsylvania Insert Corporation, P. O. Box 199, Bridge Street, Spring City, PA 19475 http://www.pennsylvaniainsert.com/		
Manhole Step	Model 10-R	1993-246
Manhole Step	Model 10-S	1993-246
Manhole Step	Model 11-R	1993-246
Manhole Step	Model 11-S	1993-246
Manhole Step	Model 13-R	1993-246
Manhole Step	Model 13-S	1993-246

605.2(d) Endwall Form (Polyethylene Stay-in-Place Form)

Last Revised: 1/13/2020

Approved product alternative to Section 605.2(d), for cast-in-place endwalls and precast endwalls, as listed in Section 714.

Product	Name	Ref. No.
STEP2 15 Hartman Products, P.O. Box 7702, Pittsburgh, PA 15215 https://hartmanendwalls.site/wp-content/uploads/2018/09/PA_State_specs.pdf		
Facility Step 2 Company 10010 Aurora-Hudson Road Streetsboro, OH 44241		



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(d) Endwall Form (Polyethylene Stay-in-Place Form)

Last Revised: 1/13/2020

Approved product alternative to Section 605.2(d), for cast-in-place endwalls and precast endwalls, as listed in Section 714.

	Product	Name	Ref. No.
STEP2 15 Facility	Hartman Products, P.O. Box 7702, Pittsburgh, PA 15215 https://hartmanendwalls.site/wp-content/uploads/2018/09/PA_State_specs.pdf Step 2 Company 10010 Aurora-Hudson Road Streetsboro, OH 44241	Hartman EW System	2001-160
	Endwall Form (Approved Product Alternative for Type D-W Endwall) <i>The alternate "Hartman EW System for Endwalls" is Provisionally Approved under ECMS Provisional Special Provision c06052 ITEM 9605-2300 (ITEM 9605-0300) Endwall Stay-In-Place Form Systems.</i>		



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Section 606: Grade Adjustment of Existing Misc. Structures

606.2(a) Manhole and Inlet Extensions

Last Revised: 8/15/2019

Steel Products Procurement Act applies.

Inlet Extensions also are listed in Section 605.2(a) as Structural Steel Grade Adjustable Riser (Types 1 or 2: RC 45M)

For Standard Drawings of Precast Concrete and Structural Steel Grade Adjustment Rings/Risers, see RC-39M

Product	Name	Letter Date	Ref. No.
AMEHP 15	American Highway Products, Ltd., 11723 Strasburg Bolivar Road NW, Bolivar, OH 44612 http://www.ahp1.com/index.php Utility Hole Adjustable Extension Ring		1979-010
EJI-1 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Youngstown Fabrication 4150 Simon Road Youngstown, OH 44512 <i>Formerly E. A. Quirn (QUIRN)</i> Inlet Extension * Approved MM-USA marking as Identifiable Steel	7/3/1995	----
	Utility Hole Adjustable Extension Ring * Approved MM-USA marking as Identifiable Steel		1988-341
EJI-2 15 Plant	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ 3331 Co Road 160 Millersburg, OH 44654 Approved Product Alternatives Recycled Rubber Grade Adjustment Ring <i>Alternate Manhole Extension Designs are Provisionally Approved under: HIGH DENSITY POLYETHYLENE MANHOLE (Utility Hole) EXTENSIONS CMS Special Provision S00(PD06051A) and ECMS Special Provision P-C06051-A. RECYCLED RUBBER MANHOLE (Utility Hole) AND INLET EXTENSIONS CMS Special Provision S00(PD06061A) and ECMS Special Provision P-C06061-A.</i>		1999-154
JERDW 15	Jerdon Welding, 409 Wiconisco Street, P.O. Box 322, Wiconisco, PA 17097 Inlet Extension		2001-041Q
	Utility Hole Adjustable Extension Ring		2001-041Q



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Section 606: Grade Adjustment of Existing Misc. Structures

606.2(a) Manhole and Inlet Extensions

Last Revised: 8/15/2019

Steel Products Procurement Act applies.

Inlet Extensions also are listed in Section 605.2(a) as Structural Steel Grade Adjustable Riser (Types 1 or 2: RC 45M)

For Standard Drawings of Precast Concrete and Structural Steel Grade Adjustment Rings/Risers, see RC-39M

Product	Name	Letter Date	Ref. No.
JSPIN 15 Facility	JSP International, LLC, 1285 Drummers Lane, Suite 301, Wayne, PA 19087 http://www.jsp.com/ 1285 Drummers Lane, Suite 301 Wayne, PA 19087		
	Approved Product Alternatives <i>Cross-Linked Expanded Polyethylene</i> <i>Conditional Approval</i>	Pro-Ring 36 Series Manhole Ring	2014-031
	Approved Product Alternatives <i>Cross-Linked Expanded Polyethylene</i> <i>Conditional Approval</i>	Pro-Ring 40 Series Manhole Ring	2014-031
	<hr/>		
LADTC 15	Ladtech, Inc., 6704 Meadowlark Court, Lino Lakes, MN 55038 http://ladtech.com/		
	Approved Product Alternatives <i>Alternate Utility Hole Extension Designs are Provisionally Approved under:</i> <i>HIGH DENSITY POLYETHYLENE MANHOLE (Utility Hole) EXTENSIONS CMS Special Provision S00(PD06051A) and ECMS Special Provision P-C06051-A.</i> <i>RECYCLED RUBBER MANHOLE (Utility Hole) AND INLET EXTENSIONS CMS Special Provision S00(PD06061A) and ECMS Special Provision P-C06061-A.</i>	HDPE Grade Adjustment Ring	1999-008
LCG-1 15 Plant	Laurel Custom Grating, LLC - An MLP Company, 18 Mount Pleasant Road, Scottdale, PA 15683 https://laurelcustomgrating.com/ 800 Brown Street Everson, PA 15631 <i>Formerly listed as MLP Steel, LLC (MLP-1 15)</i>		
	Inlet Extension		1987-146
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 http://www.nfco.com/		
	Inlet Extension Utility Hole Adjustable Extension Ring		----
ROSST 15	Ross Technology Corporation, 104 North Maple Avenue, P.O. Box 646, Leola, PA 17540 http://www.rosstechnology.com/		
	Inlet Extension Utility Hole Adjustable Extension Ring		1982-083 1982-084



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Section 606: Grade Adjustment of Existing Misc. Structures

606.2(a) Manhole and Inlet Extensions

Last Revised: 8/15/2019

Steel Products Procurement Act applies.

Inlet Extensions also are listed in Section 605.2(a) as Structural Steel Grade Adjustable Riser (Types 1 or 2: RC 45M)

For Standard Drawings of Precast Concrete and Structural Steel Grade Adjustment Rings/Risers, see RC-39M

	Product	Name	Letter Date	Ref. No.
THOMA 15	J. Thomas, Ltd., 300 Richardson Drive, Lancaster, PA 17603 http://www.jthomaslimited.com			
	Catch Basin			1982-100
	Utility Hole Adjustable Extension Ring			1982-101
UNDTE 15	Underground Technologies, LLC, 2546 Elliot Drive, Troy, MI 48083			
	Approved Product Alternatives <i>Conditional Approval</i>	UGT ManHole Elevation System		2011-094



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 9/21/2017

Product	Name	AASHTO Pipe Type	Pipe Size	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	ADS N-12	Type SP	12"
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	Type SP	4", 6", 8"	2007-191QABC
	Corrugated PE Pipe, Perforated	N-12	Type SP	12"
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Old Route 30 West Wooster, OH 44691			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	N-12	Type SP	12"
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Ludlow, MA			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	ADS N-12	Type SP	12"
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Buena Vista, VA			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	ADS N-12	Type SP	12"



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 9/21/2017

Product	Name	AASHTO Pipe Type	Pipe Size	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/			
	Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840			
	<i>Formerly Hancor, Inc. (HANC0 15)</i>			
	Corrugated PE Pipe, Perforated		4", 6", 8"	1985-064
			4"	1987-015
		Type CP	10", 12", 15"	1995-284
ADS10 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/			
	1 William Donnelly Parkway Waverly, NY 14892			
	<i>Formerly Hancor, Inc. (HANC1 15)</i>			
	Corrugated PE Pipe, Perforated		4", 6", 8"	1985-064
			4"	1987-015
		Type CP	10", 12", 15"	1995-284
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/			
	Corrugated PE Pipe, Perforated	Type CP	4", 6", 8", 10", 12", 15"	2000-041Q
	Corrugated PE Pipe, Perforated	Type SP	4", 6", 8", 10", 12", 15"	2000-042Q
BLUDI 15	Blue Diamond Industries, LLC, 3399 Tates Creek Road, Suite 110, Lexington, KY 40502 http://www.bdiky.com/			
	Corrugated PE Pipe, Perforated	Type SP	4", 6", 8"	2007-055Q
DRAPR 15	Drainage Products, Inc., (Haviland Drainage Products), Main Street, Box 97, Haviland, OH 45851 http://haviland-drainage.com			
	Corrugated PE Pipe, Perforated	Type CP	4", 10", 12"	2000-125Q
	Corrugated PE Pipe, Perforated	Type SP	8", 10", 12", 15"	2000-125Q
	Corrugated PE Pipe, Perforated	Type CP	6"	2001-167Q



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 9/21/2017

Product	Name	AASHTO Pipe Type	Pipe Size	Ref. No.	
LANE6 15 Plant	Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/ Shippensburg, PA				
	Corrugated PE Pipe, Perforated	Type SP	6", 8", 10", 12", 15"	1997-182	
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	2009-118QAB	
	Corrugated PE Pipe, Perforated	Type CP	8"	2010-031Q	
LANE7 15	Lane Enterprises, Inc., 510 Kents Lane, Wytheville, VA 24382 http://www.lane-enterprises.com/				
	Corrugated PE Pipe, Perforated	HD100	Type CP	4"	2017-146Q
	Corrugated PE Pipe, Perforated	HD100	Type CP	6"	2017-147Q

610.2(a)4 Polyvinyl Chloride (PVC) Pipe (Sizes 4" to 15")

Last Revised: 2/27/2015

Product	Name	Pipe Size	Ref. No.	
CON01 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Montgomery, AL			
	PVC Pipe, Perforated	Circular Perforated	4"	1987-196
	PVC Pipe, Perforated	Circular Perforated	6"	1987-197
	PVC Pipe, Perforated	Perforated	4"	1986-181A
NP&P0 15	National Pipe & Plastics, Inc., 3421 Old Vestal Road, Vestal, NY 13850 http://nationalpipe.com/			
	PVC Pipe, Perforated	SDR 35 Perforated	4", 6", 8", 10", 12", 15"	1991-266ABCDEF

610.2(a)5 Acrylonitrile-Butadiene Styrene (ABS) Pipe

Last Revised: 4/20/2015

Product	Name	Pipe Size	Ref. No.	
CON01 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Montgomery, AL			
	ABS Pipe, Perforated		4"	1986-180A
	ABS Pipe, Perforated		6"	1986-180C



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)7 Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/30/2017

Product	Name	Pipe Size	Ref. No.
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Palmer, MA Perforated	6", 8", 10"	1991-327
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Greencastle, PA Perforated	6", 8", 10"	1991-327
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 http://www.culvertsinc.com/Pages/default.aspx Perforated		----
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 http://www.lane-enterprises.com/ Perforated		----

610.2(a)8 Corrugated Aluminum Alloy Pipe

Last Revised: 6/30/2017

Product	Name	Pipe Size	Ref. No.
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Palmer, MA Perforated	6", 8", 10"	1991-327
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Greencastle, PA Perforated	6", 8", 10"	1991-327
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 http://www.culvertsinc.com/Pages/default.aspx Perforated		----
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 http://www.lane-enterprises.com/ Perforated		----

610.2(a)9.a Prefabricated Pavement Base Drains

Last Revised: 8/1/2018



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)9.a Prefabricated Pavement Base Drains

Last Revised: 8/1/2018

	Product	Name	Pipe Size	Ref. No.
ADS-0 15	Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Pavement Base Drain	AdvanEDGE Highway Edge Drain Pipe	18" only	1991-267B
AMEWD 15	American Wick Drain Corporation, 1209 Airport Road, Monroe, NC 28110 http://www.americanwick.com/ Pavement Base Drain	Sitedrain 6600	12", 18"	2001-117Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 615: Subsurface Drain Outlets

615.2 Subsurface Drain Outlets (Solid 4" to 15")

Last Revised: 11/28/2017

70 PSI @ 5% (English) or 483 kPa @ 5% (Metric)

Product	Name	Pipe Size	Ref. No.
ADS-0 15 Advanced Drainage Systems Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/	Outlet Pipe	N-12 (Landfield Grade) PE	4" (102mm)
	Outlet Pipe	N-12 (Landfield Grade) PE	6"
	Outlet Pipe	N-12 (Landfield Grade) PE	8"
ADS-1 15 Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756	Outlet Pipe	N-12 (Landfield Grade) PE	4" (102mm)
	Outlet Pipe	N-12 (Landfield Grade) PE	6"
	Outlet Pipe	N-12 (Landfield Grade) PE	8"
ADS-3 15 Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Ludlow, MA	Outlet Pipe	N-12 (Landfield Grade) PE	4" (102mm)
	Outlet Pipe	N-12 (Landfield Grade) PE	6"
	Outlet Pipe	N-12 (Landfield Grade) PE	8"
BAUGH 15 Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/	Outlet Pipe	PE Pipe, Smoothline	4" to 15"
	Outlet Pipe	PE Pipe, Smoothline	4" to 15"
BLUDI 15 Blue Diamond Industries, LLC, 3399 Tates Creek Road, Suite 110, Lexington, KY 40502 http://www.bdiky.com/	Outlet Pipe	PE Pipe, Smoothline	4" to 15"
	Outlet Pipe	PE Pipe, Smoothline	4" to 15"
LANE6 15 Lane Enterprises, Inc., 34 Strohm Road, Shippensburg, PA 17257 http://www.lane-enterprises.com/ Shippensburg, PA	Outlet Pipe	HPDE	6"
	Outlet Pipe	HPDE	6"
NP&P0 15 National Pipe & Plastics, Inc., 3421 Old Vestal Road, Vestal, NY 13850 http://nationalpipe.com/	Outlet Pipe	PVC SDR-26	4", 6", 8", 10", 12", 15"
	Outlet Pipe	PVC SDR-26	4", 6", 8", 10", 12", 15"



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Section 616: End Sections and Slope Pipe Fittings

616.2(a) Concrete End Sections

For approved precast concrete end sections, see 601.2(a)3a.

616.2(b) Steel End Sections, Metallic Coated

Last Revised: 7/6/2015

Approved steel pipe manufacturers in Section 601.2(a)4b may also provide steel end sections and slope pipe fittings.

Product	Name	Pipe Size	Ref. No.
J&J-D 15	J & J Drainage Products Company, 110 N Pershing, PO Box 0829, Hutchinson, KS 67504-0829 http://j drainage.com/		
	Steel End Section		1990-262
JENBS 15	Jensen Bridge & Supply Company, 400 Stoney Creek Drive, Sandusky, MI 48471 http://jensenbridge.com/		
	Steel End Section		2006-011Q

616.2(c) Aluminum Alloy End Sections

Last Revised: 2/27/2015

Approved aluminum pipe manufacturers in Section 601.2(a)4c may provide aluminum alloy end sections and slope pipe fittings.

Product	Name	Pipe Size	Ref. No.
J&J-D 15	J & J Drainage Products Company, 110 N Pershing, PO Box 0829, Hutchinson, KS 67504-0829 http://j drainage.com/		
	Aluminum Alloy End Section		1990-263

616.2(d) Steel Slope Pipe Fittings

Approved steel and aluminum pipe manufacturers in Sections 601.2(a)4b and 601.2(a)4c may provide end sections and slope pipe fittings.

616.2(f) Thermoplastic End Sections - Outlet Ends Only

Approved thermoplastic pipe manufacturers in Section 601.2(a)6 may provide thermoplastic end sections for the outlet end.

1. For end sections manufactured by the thermoplastic manufacturer, provide a CS-4171 Certificate of Compliance form for the end sections.
2. For end sections manufactured by a third party, the thermoplastic pipe manufacturer must supply letter certifying the end sections meet the pipe manufacturer's requirements and all required specifications with each shipment.



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Section 617: Slotted Drains

617.2 Slotted Drains

Last Revised: 7/6/2015

	Product	Name	Ref. No.
ABT01 15	ABT Inc., 259 Murdock Road, Troutman, NC 28166 http://www.abtdrains.com/ Slotted Drain	Polydrain	1997-129
ACOPP 15	ACO Polymer Products, Inc., 12080 Ravenna Road, P. O. Box 245, Chardon, OH 44024 http://acousa.com/ Slotted Drain	K100S Trenchdrain	2003-086Q
	Slotted Drain	S100K Powerdrain	2003-084Q
	Slotted Drain	S300K Powerdrain	2003-085Q
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Greencastle, PA Slotted Drain		----
HUBI- 15	Hubbell Lenoir City, Inc., 3621 Industrial Park Drive, Lenoir City, TN 37771 Slotted Drain	Polycast	1999-193Q
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 http://www.lane-enterprises.com/ Slotted Drain		1980-017



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 619: Permanent Impact Attenuating Devices

AASHTO MASH 2016 Implementation Dates for Roadside Safety Hardware:

- Type I - Anchored Backslope Terminal (Publication 72M, Drawing RC-54M) - Dec. 31, 2019
- Type II - Energy Absorbing Terminals - Tangent: June 30, 2018
- Type III - Non-Energy Absorbing Terminals - Dec. 31, 2019
- Type IV - Gating Systems Used Where Two-Way Traffic is Present (Crash Cushion) - Dec. 31, 2018
- Type V - Non-Gating Terminals Use Where Two-Way Traffic Is Present (Crash Cushion) - Dec. 31, 2018
- Type VI - Gating, Non-Redirective Systems (Crash Cushion) - Dec. 31, 2018
- Miscellaneous Systems

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

CS-4171 Certificate of Compliance Forms: Only a single CS-4171 Certificate of Compliance form is required for an end terminal or crash cushion kit. Although parts included with these kits are typically produced by multiple manufacturers, the Bulletin 15 listed manufacturer is responsible for verifying that all parts supplied with the kit meet the required specifications and match the NCHRP 350 or MASH 2016 crash tested system. Only the supplier code of the Bulletin 15 listed manufacturer should appear in Section 2 of CS-4171 form. Steel Mill certs stating melted and manufactured in the United States are required for each part containing steel. If the kit includes an MM-USA approved part, check both the 'Identifiable Steel' and 'Unidentifiable Steel' boxes in Section 6 of the CS-4171.

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 12/3/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
BARRS 15	Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571 http://www.barriersystemsinc.com/						
	Gate Barrier System	ArmorGuard Gate		NCHRP 350	TL-3	B-87	SGM23 2004-092Q
	Type II, Energy Absorbing Flared Terminal	X-Tension		NCHRP 350	TL-3	CC-102A	SEW20b 2009-128Q
	Type II, Energy Absorbing Tangent Terminal	X-Tension		NCHRP 350	TL-3	CC-102A	SEW19b 2009-128Q
	<i>Note: NOT approved for contracts let after June 30, 2018. Lindsay Transportation Solutions - Installation Guide</i>						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	Universal TAU-II		NCHRP 350	TL-2, TL-3	CC-75	SCT01a 2004-083Q
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	X-Tension Median Attenuator System (X-MAS)		NCHRP 350	TL-3	CC-102	2009-128Q
	<i>Product also referred to as the X-Tension Median End Terminal. For use in narrow medians or gore areas where guide rail is installed and crossover impacts can occur. Lindsay Transportation Solutions - Installation Guide</i>						



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 12/3/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
BARRS 15	Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571 http://www.barriersystemsinc.com/						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	X-TENUATOR	NCHRP 350		TL-3	CC-109	SCI23 2011-069QA
	Type VI, Gating Non-Redirective Crash Cushion System	ABSORB 350	NCHRP 350		TL-2, TL-3	CC-66	SCI11b 2001-066



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 12/3/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/						
	Pell City, AL						
	Gate Barrier System	BarrierGate		NCHRP 350	TL-3	B-25	SGM20 1993-222
	Gate Barrier System	Vulcan Gate		NCHRP 350	TL-3	B-134C	----
	Type IV, Gating Two-Way Traffic System	Brakemaster 350		NCHRP 350	TL-3	CC-41	SEW06 1997-168
	<i>Effective November 30, 2016, the Brakemaster 350 system and replacement parts will no longer be manufactured. Existing inventory of Brakemaster 350 systems/parts may still be used on projects. Discontinuation Notice of Energy Absorption/Trinity Products</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	QuadGuard Elite		NCHRP 350	TL-3	CC-57	1999-086
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	QuadGuard LMC		NCHRP 350	TL-3	CC-43	SCT02f 1998-060
	<i>Effective September, 2016, the QuadGuard LMC system will no longer be manufactured. Parts are being manufactured until December, 2016. Existing inventory of QuadGuard LMC systems/parts may still be used on projects. Discontinuation Notice of Energy Absorption/Trinity Products</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	REACT 350 (60 inch)		NCHRP 350	TL-3	CC-73	SCI16b 2001-169Q
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	REACT 350 (standard)		NCHRP 350	TL-3	CC-26B	SCI16a 1995-158
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard		NCHRP 350	TL-2, TL-3	CC-35	SCT02a 1996-167
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard (wide)		NCHRP 350	TL-3	CC-42	1998-008
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard Highspeed (HS)		NCHRP 350	TL-3	CC-35E	SCT02d 2001-223Q
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard II (modified)		NCHRP 350	TL-2, TL-3	CC-35I	2009-159QA
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QUEST		NCHRP 350	TL-3	CC-87	2005-052Q



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 12/3/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.	
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/							
	Pell City, AL							
	Type VI, Gating Non-Redirective Crash Cushion System	Energite III Module	NCHRP 350		TL-3	CC-29	SCI06c	----
	Type VI, Gating Non-Redirective Crash Cushion System	Fitch Universal	NCHRP 350		TL-3	CC-28	SCI06b	----
<i>Effective November, 2016, the Fitch Universal system and replacement parts will no longer be manufactured. Existing inventory of Fitch Universal systems/parts may still be used on projects. Discontinuation Notice of Energy Absorption/Trinity Products</i>								
ENTWH 15	Entwistle Company, Bigelow Street, Hudson, MA 01749 http://entwistleco.com/							
	Miscellaneous System	The Dragnet						1995-178
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm							
	TL-5 Steel High Containment Median Barrier	Guardian 5 (G5)	MASH 2016		TL-5	B-267	SGM42	2017-271Q
<i>Gregory Industries is the sole licensee and manufacturer of the Guardian 5 median barrier designed by ArcelorMittal USA, LLC. Note: The Guardian 5 was TL-5 crash tested in accordance with MASH 2009 and meets the MASH 2016 crash testing criteria. PE Stamped Drawings, Intended Use Guidelines, Components, and FHWA Eligibility Letter for Guardian 5</i>								



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 12/3/2020

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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
LEISS 15	Leiss Tool & Die, 801 North Pleasant Avenue, Somerset, PA 15501 http://leiss.com/						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (30 inch)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (36 inch)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (41-1/4 to 60 inch maximum)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (Standard)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system. Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>						
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (30 inch)	NCHRP 350		TL-2	CC-85A	2014-029QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (36 inch)	NCHRP 350		TL-2	CC-85A	2014-029QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (41-1/4 to 60 inch maximum)	NCHRP 350		TL-2	CC-85A	2014-029QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (Standard)	NCHRP 350		TL-2	CC-85A	SCI17b 2014-029QA	
LIFPR 15	Lifetime Products, Freeport Ctr. Bldg H-4, P.O. Box 160010, Clearfield, UT 84016 http://www.lifetime.com/						
	Type VI, Gating Non-Redirective Crash Cushion System	Plastic Safety Systems CrashGard	NCHRP 350		TL-3	CC-97, CC-97A	2010-305Q



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 http://www.lindsay.com/transportation-solutions 505 Crown Point Ave Omaha, NE 67110						
	Type II, Energy Absorbing Tangent Terminal	MAX-Tension TL-2			TL-2	CC-134	2018-023Q
	* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for MAX-Tension TL-2 & TL-3						
	Type II, Energy Absorbing Tangent Terminal	MAX-Tension TL-3	MASH 2016		TL-3 (62 mph)	CC-133	2017-234Q
	* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for MAX-Tension TL-2 & TL-3						
Type IV, Gating Two-Way Traffic System	MAX-Tension Median	MASH 2016		TL-3	CC-141	2018-022Q	
<i>Installation Instructions with parts identification, inspector checklist, maintenance inspection outline, and drawings: Installation Instructions w/ Parts List, Product Info, Approved Drawings for MAX-Tension Median</i>							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	Universal TAU-M	MASH 2016		TL-2, TL-3	CC-146, CC-147	2018-278Q	
<i>Approved for use on both concrete and asphalt pavements. Manual w/ Parts List, FHWA Eligibility Letters, Concrete & Asphalt Foundation Drawings for TAU-M</i>							



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
MORVA 15	Morgan Valley Manufacturing, 340 North Industrial Road, P. O. Box 746, Morgan, UT 84050						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (30 inch)	MASH 2016		TL-3	CC-128	2011-208QA
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (36 inch)	MASH 2016		TL-3	CC-128	2011-208QB
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (41-1/4 to 60 inch maximum)	MASH 2016		TL-3	CC-128	2011-208QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (Standard)	MASH 2016		TL-3	CC-128	2004-015
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system. Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (30 inch)	NCHRP 350		TL-2	CC-85A	2011-208QA
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (36 inch)	NCHRP 350		TL-2	CC-85A	2011-208QB	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (41-1/4 to 60 inch maximum)	NCHRP 350		TL-2	CC-85A	2011-208QC	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (Standard)	NCHRP 350		TL-2	CC-85A	SCI17b 2005-033	



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
RDSYS 15	Road Systems, Inc., 3616 Old Howard County Airport Road, Big Spring, TX 79720 http://roadsystems.com/						
	Type II, Energy Absorbing Flared Terminal	FLEAT-350	NCHRP 350		TL-3	CC-46	SEW14a 1998-065
	<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>						
	Type II, Energy Absorbing Flared Terminal	FLEAT-SP	NCHRP 350		TL-3	CC-88B	2009-037Q
	<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>						
	Type II, Energy Absorbing Flared Terminal	MFLEAT	MASH 2016		TL-3	CC-143A, CC-144B	SEW14c 2019-152Q
	<i>RSI Authorized Distributors: Gregory Industries (Canton, OH), R.G. Steel Corp. (Pulaski, PA), and Universal Industrial Sales (Pleasant Grove/Lindon, UT). Product Information Sheet, Parts Shared and Not Shared with MSKT, PE Stamped Drawing with Parts List and Assembly Notes, Inspection Checklist, FHWA Eligibility Letters, Distributor List, and Identifiable Steel (Impact Head) for MFLEAT</i>						
Type II, Energy Absorbing Tangent Terminal	BEAT-SSCC	NCHRP 350		TL-3	CC-69B	SCI13a,b 2003-118	
<i>Note: NOT approved for contracts let after June 30, 2018. RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>							
Type II, Energy Absorbing Tangent Terminal	MSKT-SP-MGS (MASH Sequentially Kinking Terminal)	MASH 2016		TL-3	CC-126, CC-126E, CC-126G (3-37b)	2017-294Q	
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA). The SKT Impact Head used on the MSKT-SP-MGS system contains an MM-USA plate and is approved as identifiable steel. For MSKT Drawing and Assembly Instructions (See page 5 for Bill of Materials listing for MSKT). Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letters for MSKT-SP-MGS</i>							
Type II, Energy Absorbing Tangent Terminal	SKT-350	NCHRP 350		TL-3	CC-40	1998-035	
<i>Note: NOT approved for contracts let after June 30, 2018. Effective January 1, 2018, Road Systems Inc. will produce only the new SKT impact head that is accepted for use on both NCHRP-350 and MASH guardrail terminals. The 350 SKT head will be discontinued when inventories are depleted and only the new enhanced SKT head version known as the MSKT will be available. The MASH MSKT guardrail terminal uses an impact head that has been crash tested and approved for use on the SKT-350 system per FHWA letter CC-130. Please note this does not convert the SKT-350 guiderail terminal to a MASH MSKT guiderail terminal. For details and images, view the notification letter below: NCHRP-350 SKT Impact Head Notification Letter (Nov. 15, 2017)</i>							
Type II, Energy Absorbing Tangent Terminal	SKT-SP	NCHRP 350		TL-3	CC-61A	2009-036Q	



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
RDSYS 15	Road Systems, Inc., 3616 Old Howard County Airport Road, Big Spring, TX 79720 http://roadsystems.com/ <i>Note: The SKT-SP system is NOT approved for contracts let after June 30, 2018. RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>						
	Type IV, Gating Two-Way Traffic System	FLEAT-MT	NCHRP 350		TL-3	CC-46D	SEW16b 2003-119
	<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>						
SPIG1 15	SPIG Industry, LLC, 14675 Industrial Park Road, Bristol, VA 24202 https://spigindustry.com/sget						
	Type II, Energy Absorbing Tangent Terminal	SGET (SPIG Gating End Terminal)	MASH 2016		TL-3		2020-053Q
	* Maintenance Checklist, Parts List, Installation Manual, and PE Stamped Drawings for SGET						
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/						
	Type VI, Gating Non-Redirective Crash Cushion System	Big Sandy (Sand Barrel System)	MASH		TL-3	CC-139	1998-143
	<i>Note: Big Sandy MASH system tested to MASH 2016 criteria per FHWA Eligibility Letter CC-139 as same system tested to NCHRP 350 criteria. Installation Instructions and FHWA Eligibility Letter for Big Sandy</i>						
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801 http://www.highwayguardrail.com/						
	Type II, Energy Absorbing Tangent Terminal	SoftStop	MASH 2016		TL-3	CC-115	2017-306Q
	Type III, Non-Energy Absorbing Terminal	SRT-350	NCHRP 350		TL-3	CC-51	2010-191A
	<i>For proper assembly, installation, maintenance, repair and replacement of the SRT family of guide rail end treatment systems: SRT-350 Assembly Instructions</i>						
	Type IV, Gating Two-Way Traffic System	CAT-350	NCHRP 350		TL-3	CC-33 SEW08	1989-060



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.	
TRIN3 15	Trinity Highway Products, LLC, 2548 NE 28th Street, Ft. Worth, TX 76111 http://www.highwayguardrail.com/							
	Type II, Energy Absorbing Tangent Terminal	SoftStop	MASH 2016		TL-3	CC-115	2017-306Q	
	<i>* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for Softstop</i>							
	Type IV, Gating Two-Way Traffic System	ADIEM	NCHRP 350		TL-3	CC-38	SCI09	1992-246
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	FASTRACC	NCHRP 350		TL-3	CC-54H		2010-251QB
	<i>* Approved MM-USA marking as Identifiable Steel</i>							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	SHORTRACC	NCHRP 350		TL-2	CC-54A		2010-251QD	
<i>* Approved MM-USA marking as Identifiable Steel</i>								
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	TRACC	NCHRP 350		TL-2, TL-3	CC-54		2010-251QA	
<i>* Approved MM-USA marking as Identifiable Steel</i>								
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	WIDETRACC	NCHRP 350		TL-3	CC-54D		2010-251QC	
<i>* Approved MM-USA marking as Identifiable Steel</i>								
TRIN7 15 Plant	Trinity Highway Products, LLC, 2525 Stemmons Freeway, Dallas, TX 75207 https://trinityhighway.com/							
	Pell City, AL 35128							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard M10 (24" Wide)	MASH 2016		TL-3	CC-112, CC-112c		2018-219Q	
<i>* Manual, Product Information, FHWA Eligibility Letters, and PE Stamped Drawings for QuadGuard M10</i>								



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
WHIPI 15	Whip Industries, 3010 South Main Street, Fort Worth, TX 76110 http://www.whipindustries.com/						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (30 inch)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (36 inch)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (41-1/4 to 60 inch maximum)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (Standard)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system. Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>						
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (30 inch)	NCHRP 350		TL-2	CC-85A	2014-017QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (36 inch)	NCHRP 350		TL-2	CC-85A	2014-017QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (41-1/4 to 60 inch maximum)	NCHRP 350		TL-2	CC-85A	2014-017QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (Standard)	NCHRP 350		TL-2	CC-85A	SCI17b 2014-017QA	



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Section 621: Metal Median Barrier

621.2(a) Metal Median Barrier

Last Revised: 10/7/2019

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708	http://www.gregorycorp.com/gccorp.htm					
	TL-5 Steel High Containment Median Barrier	Guardian 5 (G5)	MASH 2016	TL-5	B-267	SGM42	2017-271Q
	<i>Gregory Industries is the sole licensee and manufacturer of the Guardian 5 median barrier designed by ArcelorMittal USA, LLC. Note: The Guardian 5 was TL-5 crash tested in accordance with MASH 2009 and meets the MASH 2016 crash testing criteria. PE Stamped Drawings, Intended Use Guidelines, Components, and FHWA Eligibility Letter for Guardian 5</i>						



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Section 622: Concrete Glare Screen

622.2 Concrete Glare Screen

For Precast Concrete Glare Screens, see Section 714.2 for approved precasters of standard glare screens (RC-59M). [Standard Drawing RC-59M \(Publication 72M\)](#)



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Section 624: Right-of-Way Fence

624.2(b) Packaged Dry Concrete

Last Revised: 7/7/2015

	Product	Name	Ref. No.
CTS-1 15	CTS Cement Manufacturing Company, 12442 Knott Street, Garden Grove, CA 92841 Packaged Dry Concrete	http://www.ctscement.com/ Rapid Set Concrete Mix	1993-092
USCPR 15 Plant	US Concrete Products, 16 Green Meadow Drive, Suite 202, Timonium, MD 21093 Baltimore, MD Packaged Dry Concrete	http://www.uscproducts.com/ HP Concrete (41423)	2010-319Q



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Section 626: Gabions

626.2(c) Gabion Basket

Last Revised: 7/7/2015

Steel Products Procurement Act applies.

	Product	Name	Ref. No.
CESHC 15	C. E. Sheperd Company, 2221 Canada Dry Street, Houston, TX 77023 http://www.ceshepherd.com/		
	Galvanized Wire Gabion		1997-190
	Polyvinyl Chloride Coated Gabion		1997-190
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 http://www.lane-enterprises.com/		
	Galvanized Wire Gabion		1988-014
	Polyvinyl Chloride Coated Gabion		2000-273Q
MACCA 15	Maccaferri Gabions, Inc., 10303 Governor Lane Blvd., Williamsport, MD 21795-3116 http://www.maccaferri.com/us/		
	Galvanized Wire Gabion		1968-012
	Polyvinyl Chloride Coated Gabion		1968-012
TERR1 15 Plant	Terra Aqua Inc., 1415 North 32nd Street, Ft. Smith, AR 72904 Ft. Smith, AR		
	Galvanized Wire Gabion		1987-195B
	Polyvinyl Chloride Coated Gabion		1987-195A
ULTGB 15	Ultimate Gabions, Inc., 500 Wood Street, P.O. Box 1002, Bristol, RI 02809		
	Galvanized Wire Gabion		1998-026



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Section 627: Temporary Barrier

Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. Temporary work zone devices, including Category 3, manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

627.2 Temporary Barriers

For Precast Concrete Barriers, see Section 714.2 for approved precasters of standard PennDOT barriers (RC-57M & RC-58M) or licensed barriers and Glare Screens (RC-59M). Also see Section 901.2 for other approved temporary barriers. Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Concrete Median Barrier: [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Single Face Concrete Barrier: [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Concrete Glare Screen: [Standard Drawing RC-59M \(Publication 72M\)](#)



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Section 633: Plain Concrete Mountable Curb

633.2 Preformed Cellular Polystyrene (ASTM C578)

See Section 516.2(m) for approved preformed cellular polystyrene products.



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Section 636: Asphalt Concrete Curb

636.2(c) Filler (Drawn Polyester Fibers)

Last Revised: 4/27/2015

Product	Name	Ref. No.
FIBAD 15 Fiber-Ad Corporation, 2619 West Blvd., Charlotte, NC 28224		
Asphalt Stockpile Patching Material <i>Standard Special Provision c04861 Item 9486-001.</i>	A-1 Polyester	1991-275
Asphalt Wearing Course FJ-4 (SU) <i>Standard Special Provision S-b04231 Section 423-Bituminous Wearing Course FJ-4 (SU). (0.125% by weight mix, 0.2% additional AC.)</i>	A-1 Polyester	1991-275
Filler for Asphalt Concrete Curb Mixes	A-1 Polyester	1991-275
GFC-M 15 GFC Materials Company, 2183 Pennsylvania Ave., Apalachin, NY 13732		
Asphalt Stockpile Patching Material <i>Standard Special Provision c04861 Item 9486-001.</i>	Type 402 Polyester	1990-344B
Asphalt Wearing Course FJ-4 (SU) <i>Standard Special Provision S-b04231 Section 423-Bituminous Wearing Course FJ-4 (SU). (0.125% by weight mix, 0.2% additional AC.)</i>	Type 402 Polyester	1990-344B
Filler for Asphalt Concrete Curb Mixes	Type 402 Polyester	1990-344B
KAPEJ 15 Kapejo, Inc., P. O. Box 649, New Castle, DE 19720-0649		
Asphalt Stockpile Patching Material <i>Standard Special Provision c04861 Item 9486-001.</i>	Bonifiber B	1984-014
Asphalt Wearing Course FJ-4 (SU) <i>Standard Special Provision S-b04231 Section 423-Bituminous Wearing Course FJ-4 (SU). (0.125% by weight mix, 0.2% additional AC.)</i>	Bonifiber B	1984-014
Filler for Asphalt Concrete Curb Mixes	Bonifiber B	1984-014



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Section 643: Temporary Concrete Barrier, Structure Mounted

643.2(a) Temporary Concrete Barrier, Structure Mounted

For Precast Concrete Barriers, Structure Mounted, see Section 714.2 for approved precasters of standard PennDOT barriers (BC-719M). Also see Section 901.2 for other approved temporary structured mounted barriers. [Standard Drawing of Temporary Concrete Barrier, Structure Mounted \(Pub 219M, BC-719M\)](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

643.2(c)6 Adhesive Bonding Material (use in accordance with BC-719M)

Last Revised: 2/7/2019

Use in accordance with BC-719M. [Standard Drawing of Temporary Concrete Barrier, Structure Mounted \(Pub 219M, BC-719M\)](#)

Provisional Approvals: Publication 408, Section 643.2(c)6.b.3 includes a requirement for independent Shock testing per ASTM E 488 with listed modifications and references to Standard Drawing BC-719M. The provisional approval status will remain until independent shock testing results are received and approved by PennDOT.

	Product	Name	Installation Type	Spacing	Ref. No.
ADHTC 15	Adhesives Technology Corporation, 450 East Copans, Pompano Beach, FL 33064 http://www.atcepoxy.com/				
	Adhesive Bonding Material	ULTRABOND HS-200	A, B	1 ft., 2 ft., 4 ft.	2004-054Q
	<i>Provisionally Approved</i>				
	Adhesive Bonding Material	ULTRABOND HS-200	C	1 ft.	2004-054Q
	<i>Provisionally Approved</i>				
ADVAC 15	Advance Coatings, 42 Depot Road, Westminster, MA 01473 http://advancecoatings.com/				
	Adhesive Bonding Material	Keligroul 101-P	A, B	1 ft., 2 ft., 4 ft.	2004-123B
	<i>Provisionally Approved</i>				
	Adhesive Bonding Material	Keligroul 101-P	C	1 ft.	2004-123B
	<i>Provisionally Approved</i>				
ITWRH 15 Plant	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/				
	26501 Bourg Lès Valence Valence, France				
	Adhesive Bonding Material	Red Head A7+	A	1 ft., 2 ft., 4 ft.	2016-239Q
	<i>Provisionally Approved</i>				
	Adhesive Bonding Material	Red Head A7+	B	1 ft., 2 ft.	2016-239Q
	<i>Provisionally Approved</i>				



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Section 643: Temporary Concrete Barrier, Structure Mounted

643.2(c)6 Adhesive Bonding Material (use in accordance with BC-719M)

Last Revised: 2/7/2019

Use in accordance with BC-719M. [Standard Drawing of Temporary Concrete Barrier, Structure Mounted \(Pub 219M, BC-719M\)](#)

Provisional Approvals: Publication 408, Section 643.2(c)6.b.3 includes a requirement for independent Shock testing per ASTM E 488 with listed modifications and references to Standard Drawing BC-719M. The provisional approval status will remain until independent shock testing results are received and approved by PennDOT.

Product	Name	Installation Type	Spacing	Ref. No.
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120	http://www.daytonsuperior.com/brands/chemicals/unitex		
Adhesive Bonding Material	Propoxy 300 Fast	A, B	1 ft., 2 ft., 4 ft.	2004-056B
<i>Provisionally Approved</i>				
Adhesive Bonding Material	Propoxy 300 Fast	C	1 ft.	2004-056B
<i>Provisionally Approved</i>				



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Section 659: High Friction Surface Treatment (HFST)

659.2(b) Binder Resin System (Binder)

Last Revised: 2/13/2018

There are other High Friction Surface Treatment Binder Resin products not listed below that are under evaluation. For a list of other resin systems that can be used on projects, contact the New Products and Innovations (NPI) Section via email at RA-pdBulletin15@pa.gov

	Product	Name	Ref. No.
CCMAT 15 Facility	Cornerstone Construction Material, LLC, 1618 East Elm Street, Harrisonville, MO 64701 101 East Walnut Street Archie, MO 64725	http://ccmaterial.com	
	Binder Resin System	CE330 Epoxy Binder	2014-086B
KWIK1 15	Kwik Bond Polymers, 923 Teal Drive, Benicia, CA 94510	http://www.kwikbondpolymers.com	
	Binder Resin System	PPC HFST	2013-197A
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120	http://www.daytonsuperior.com/brands/chemicals/unitex	
	Binder Resin System	PRO-POXY Type III DOT	2014-018

659.2(c) Aggregate Surface Topping (Aggregate)

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 659.2(c) for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Section 664: Modular Architectural Block System

664.2(a) Modular Architectural Blocks

Last Revised: 11/5/2019

Modular architectural block systems may be used for nonstructural landscape architecture applications according to the manufacturer drawings and recommendations. An acceptable landscape architectural site cannot have structures with foundations above the aggregate base within 8 feet of the back of the block system. System construction is restricted to a height of 4 feet above grade.

Approved Licensors:

- Allan Block Corporation (Allan Block), 1994-268;
- Anchor Wall Systems (Anchor Diamond), 1995-265;
- Keystone Retaining Wall Systems (Keystone Compac & Keystone Standard), 2000-186, 2000-187;
- Risi Stone Systems (Dura Hold II), 1995-144, 1999-190Q;
- Versa-Lok Company (Versa-Lok), 2002-116

	Product	Name	Ref. No.
DOREN 15	Doren, Inc., R.D. #2, Route 18, P.O. Box 55, Wampum, PA 16157 Modular Architectural Block	Versa-Lok	2002-116Q
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/ Modular Architectural Block	Dura Hold II	1999-190Q
FIZZ2 15 Plant	Fizzano Brothers Concrete Products, Inc., 201 South Phoenixville Pike, Malvern, PA 19355 http://fizzano.com/ 201 S. Phoenixville Pike Malvern, PA 19355 Modular Architectural Block	Allan Block	1994-268
LANDS 15	Landis Block & Concrete Inc., 711 N. County Line Road, Souderton, PA 18964 http://www.landisbc.com/ Modular Architectural Block	Anchor Diamond	1995-265
MIDAP 15	Mid Atlantic Precast Inc., 401 Railroad Street, Monongahela, PA 15063 Modular Architectural Block	Dura Hold II	1995-144
YORKB 15	York Building Products, Inc., 1020 North Hartley Street, York, PA 17404 http://www.yorkbuilding.com/ Modular Architectural Block <i>Product information for Keystone Compac</i>	Keystone Compac	2000-187Q
	Modular Architectural Block <i>Product information for Keystone Standard</i>	Keystone Standard	2000-186Q



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Section 678: Permanent Barricades

678.2(a)1 Wood Posts (Pressure Treated)

Last Revised: 7/7/2015

	Product	Name	Ref. No.
AMETS 15	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 Wood Post (Pressure Treated)	http://www.americantimberandsteel.com/	1995-271
GRE-1 15 Plant	Great Southern Wood Preserving, P. O. Box 610, Abbeville, AL 36310 Hagerstown, MD Wood Post (Pressure Treated)	http://greatsouthernwood.com/	2011-149Q
STEJ1 15	Stella-Jones Corporation, 3424 Parkersburg Road, Reedy, WV 25270-9402 <i>Formerly Burke-Parsons Bowlby (BURPB 15)</i> Wood Post (Pressure Treated)	http://stella-jones.com/	1997-067
TAYLR 15	Taylor-Ramsey Corporation, P.O. Box 11888, Lynchburg, VA 24506 Wood Post (Pressure Treated)		1985-090



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Section 679: Slab Stabilization

(a) Cement Grout Stabilization; (b) Asphalt Grout Stabilization; (c) High Density Polyurethane

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 10/29/2020

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

	Product	Name	NTPEP Test Number	Ref. No.
5STAR 15	Five Star Products, Inc., 750 Commerce Drive, Fairfield, CT 06825 http://www.fivestarprouducts.com/			
	Cementitious, Non-Metallic, Non-Staining Material	5 Star Highway Patch		1979-039
	Cementitious, Non-Metallic, Non-Staining Material	5 Star Structural Concrete		1987-002
	Cementitious, Non-Metallic, Non-Staining Material	5 Star Structural Concrete V/O		1990-214
AQUAF 15	Aquafin, Inc., 505 Blue Ball Road, #160, Elkton, MD 21921 http://www.aquafin.net/ Formerly Ceratech, Inc. (CETEC 15)			
	Cementitious, Non-Metallic, Non-Staining Material	Pavemend SL		2010-276
	<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SL Technical Datasheet</i>			
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html			
	Cementitious, Non-Metallic, Non-Staining Material	MasterEmaco N 424		1977-024
	<i>Previous Name: Emaco GP</i>			
CGM-N 15	CGM Inc., 1463 Ford Road, Bensalem, PA 19020 http://cgmbuildingproducts.com/			
	Cementitious, Non-Metallic, Non-Staining Material	CGM Highway Patch		1987-082
	<i>Previous Name: 10-60 Rapid Mortar</i>			
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/			
	Cementitious, Non-Metallic, Non-Staining Material	ChemSpeed 65		1995-046
DAYT1 15	Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/			
	Cementitious, Non-Metallic, Non-Staining Material	HD-50	RSCP-2014-01-007	1985-185
	Cementitious, Non-Metallic, Non-Staining Material	Pave Patch 3000	RSCP-2017-01-007	2004-067Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 10/29/2020

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

	Product	Name	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
	Cementitious, Non-Metallic, Non-Staining Material	Euco Repair SCC Fast	RSCP-2017-01-014	2019-036Q
	Cementitious, Non-Metallic, Non-Staining Material	Euco-Speed		1995-148
	Cementitious, Non-Metallic, Non-Staining Material	Express Repair		2003-132Q
	Cementitious, Non-Metallic, Non-Staining Material	Speed Crete 2028		1996-223
	Cementitious, Non-Metallic, Non-Staining Material	Speed Crete Green Line		1991-010
	Cementitious, Non-Metallic, Non-Staining Material	VersaSpeed		2006-010Q
GILLI 15	Gill Industries, Inc., 3462 Kershaw-Camden Highway, Lancaster, SC 29720 http://www.gill-industries.com/			
	Cementitious, Non-Metallic, Non-Staining Material	Gill 33B		1972-050
	Cementitious, Non-Metallic, Non-Staining Material	P Superbond		1972-050
HBFUL 15 Plant	H. B. Fuller Construction Products Inc., 1200 Willow Lake Boulevard, St. Paul, MN 55110-5101 http://www.hbfuller.com/			
	59 Brunswick Avenue Edison, NJ 08817			
	Cementitious, Non-Metallic, Non-Staining Material	ProSpec C-1107 Construction Grout		1988-044
	<i>(formerly ProSpec F-77)</i>			
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/			
	Cementitious, Non-Metallic, Non-Staining Material	Duracrete II		2007-005Q
L&MCC 15	L&M Construction Chemicals, Inc., 14851 Calhoun Road, Omaha, NE 68152 http://www.lmcc.com/			
	Cementitious, Non-Metallic, Non-Staining Material	Crystex		1976-032
	Cementitious, Non-Metallic, Non-Staining Material	Durapatch Hiway		1984-217
MAPEIA15 Plant	MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/			
	Fredericksburg, VA			
	Cementitious, Non-Metallic, Non-Staining Material	Planitop 18		2017-300Q
	Cementitious, Non-Metallic, Non-Staining Material	Planitop 18 TG	RSCP-2018-01-001	2018-078Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 10/29/2020

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
QUIKR 15 Plant	The Quikrete Companies, One Securities Centre, 3490 Piedmont Road, N.E. Suite 1300, Atlanta, GA 30305 http://www.quikrete.com/		
	Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE FastSet™ Concrete Mix	RSCP-2017-01-012 2000-288Q
	Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE FastSet™ DOT Mix	RSCP-2017-01-008 2003-004Q
	Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE FastSet™ Non-Shrink Grout (Product No. 1585-09)	2000-292Q
	Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE Rapid Road Repair	1984-086
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	1682 Marion Williamsport Road E Marion, OH 43302		
	Cementitious, Non-Metallic, Non-Staining Material	SikaSet Road Patch	1978-043
	Cementitious, Non-Metallic, Non-Staining Material	Sikatop III	1978-043
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	Cementitious, Non-Metallic, Non-Staining Material	SikaQuick 1000	RSCP-2017-01-006 2003-036Q
	Cementitious, Non-Metallic, Non-Staining Material	SikaQuick 2500	RSCP-2016-01-011 2003-037Q
SPECH 15	SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108 http://specchemllc.com/		
	Cementitious, Non-Metallic, Non-Staining Material	Repcon 928	RSCP-2018-01-004 2013-018Q
	<i>Provisionally Approved</i>		



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 10/29/2020

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.	
USGY1 15	U. S. Gypsum Company, Industrial Products, 125 South Franklin Street, Chicago, IL 60606-4678			
	Cementitious, Non-Metallic, Non-Staining Material	Duracal	RSCP-2014-01-005	1988-020
	Cementitious, Non-Metallic, Non-Staining Material	Duracal-S		1994-009
WMD-1 15 Plant	Western Material and Design, LLC, P.O. Box 268, Lee's Summit, MO 64063 https://wmdus.com/ 101 East Walnut Street Archie, MO 64725			
	Cementitious, Non-Metallic, Non-Staining Material	FasTrac 246 Concrete	RSCP-2017-01-004	2018-197Q

679.2(a)5 Rapid Set Concrete Patching Materials - Type B

Last Revised: 11/2/2020

Type B: Magnesium Phosphate Cement Based Materials (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.	
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html			
	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 (previous Set 45 Regular)		1974-016
	<i>Effective 10/30/2020, the new primary supplier code for MasterEmaco T 545 is MBS11 15. It is also manufactured at MBS-7 15 & MBS12 15.</i>			
	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 HT (previous Set 45 Hot Weather)		1974-016
	<i>Effective 10/30/2020, the new primary supplier code for MasterEmaco T 545 HT is MBS11 15. It is also manufactured at MBS-7 15 & MBS12 15.</i>			
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
	Magnesium, Phosphate Cement-Based Material	Euco-Speed M.P.		1988-354
IMCTI 15	IMCO Technologies, Inc., 350 Wentworth St. North,, Hamilton, Ontario Canada L8L5W3			
	Magnesium, Phosphate Cement-Based Material	MG-Krete 1260		2006-235Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials - Type B

Last Revised: 11/2/2020

Type B: Magnesium Phosphate Cement Based Materials (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
MBS-7 15 Plant Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Newark, CA <i>Formerly BASF Construction Chemicals (BAS-1115)</i>	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 (previous Set 45 Regular)	1974-016
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>		
	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 HT (previous Set 45 Hot Weather)	1974-016
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>		
MBS11 15 Plant Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 9658 State Route 43 Streetsboro, OH 44241 <i>Formerly BASF Building Systems (BASBS 15)</i>	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 (previous Set 45 Regular)	1974-016
	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 HT (previous Set 45 Hot Weather)	1974-016
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>		
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>		
MBS12 15 Plant Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 7100 Wright Road Houston, TX 77041 <i>Formerly BASF Building Systems (BASBS 15)</i>	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 (previous Set 45 Regular)	1974-016
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>		
	Magnesium, Phosphate Cement-Based Material	MasterEmaco T 545 HT (previous Set 45 Hot Weather)	1974-016
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>		
PHOS1 15 Plant Phoscrete Corporation, 265 S Federal Hwy, Ste 320, Deerfield Beach, FL 33441-4161 https://phoscrete.com/ Whitmore Lake, MI	Magnesium, Phosphate Cement-Based Material	Phoscrete HC	RSCP-2015-01-002
			2017-104Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials - Type C

Last Revised: 3/2/2015

Type C: Polymer Mortar and Concrete (ASTM C-928)

	Product	Name	NTPEP Test Number	Ref. No.
HILT- 15	Hilti, Inc., 5400 South 122nd East Ave., P.O. Box 21148, Tulsa, OK 74121 https://www.hilti.com/ Polymer Mortar and Concrete	RM 698 Epoxy Patch		1988-017
TRASA 15	Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/ Polymer Mortar and Concrete	T17 Polymer Concrete		1979-060

679.2(a)6 Alternate Mix Design - Cement Grout Stabilization

Last Revised: 7/6/2017

Concrete Mix Design (void filler beneath slab)

	Product	Name	Ref. No.
COVES 15	Covestro, LLC, 1 Covestro Circle, Pittsburgh, PA 15205 http://www.covestro.us/en <i>Formerly Bayer Material Science</i> Alternate to Concrete Mix Design (void filler beneath slab) <i>Conditionally approved as an alternate per manufacturer's specifications</i>	486 Star	2007-023

679.2(b)5 Rapid Set Concrete Patching Materials

See Section 679.2(a)5

679.2(c)5 Rapid Set Concrete Patching Materials

See Section 679.2(a)5



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 680: Waterproofing

680.2(b) Adhesive-Backed Preformed Membrane Sheet

Last Revised: 6/20/2019

	Product	Name	Ref. No.
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040		
	Bridge Deck, Rubberized Asphalt	GeoTac	2006-035Q
	Non-Bridge Deck, Rubberized Asphalt	GeoTac	2006-035Q
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Bridge Deck, Rubberized Asphalt <i>MEL-PRIME is a surface preparation adhesive as part of the MEL-DEK membrane system.</i>	SealTight MEL-DEK	1993-275
	Non-Bridge Deck, Rubberized Asphalt <i>MEL-PRIME is a surface preparation adhesive as part of the MEL-ROL membrane system.</i>	SealTight MEL-ROL	1993-274
POLYG 15	Polyguard Products, Inc., 3801 S. Business 45, Ennis, TX 75119 http://www.polyguardproducts.com/		
	Bridge Deck, Rubberized Asphalt	Polyguard NW-75	2007-115Q
	Non-Bridge Deck, Rubberized Asphalt	Polyguard NW-75	2007-115Q
PROP2 15 Plant	Propex Operating Company, LLC, 4019 Industry Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 428 Rollins Industrial Blvd. Ringgold, GA 30736		
	Bridge Deck, Rubberized Asphalt	Petrotac 4591	2011-167Q
	Non-Bridge Deck, Rubberized Asphalt	Petrotac 4591	2011-167Q
ROYST 15 Facility	Chase Corporation, 295 University Avenue, Westwood, MA 02090 http://www.chasecorp.com/ 128 First Street Pittsburgh, PA 15238		
	Bridge Deck, Modified Bitumen <i>Certification Reduction Level 3 per Publication 408 Section 106.03(b)3 as of 11/27/2012</i>	Royston Bridge Membrane 10A-65	2000-018Q
	Bridge Deck, Modified Bitumen <i>Certification Reduction Level 3 per Publication 408 Section 106.03(b)3 as of 11/27/2012</i>	Royston Bridge Membrane 10A-65 Easy Pave	2000-019Q



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Section 680: Waterproofing

680.2(b) Adhesive-Backed Preformed Membrane Sheet

Last Revised: 6/20/2019

	Product	Name	Ref. No.
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafcoc, Inc.</i>		
	Bridge Deck, Rubberized Asphalt	Right Deck	2017-171Q
	Non-Bridge Deck, Rubberized Asphalt	Right Roll	2017-172Q
SOPRE 15	Soprema, Inc., 310 Quadral Drive, Wadsworth, OH 44281 http://soprema.us/ <i>Conditionally approved as an alternate per manufacturer's specifications.</i>		
	Bridge Deck, Modified Bitumen	Antirock (Alternate)	2001-043Q
TENC2 15 Plant	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 http://www.tencate.com/ Ennis, TX		
	Non-Bridge Deck, Modified Bitumen	Mirafi MTK	2018-029Q



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Section 695: Detectable Warning Surface

695.2(a) Detectable Warning Surface (DWS)

Last Revised: 10/29/2020

Dome size and spacing as specified in [Standard Drawing RC-67M \(Publication 72M\)](#)

	Product	Name	Ref. No.
ADASI 15	ADA Solutions, Inc, 323 Andover Street, Suite 3, Wilmington, MA 01887 https://adatile.com/		
	DWS, Cast Iron	Iron Dome	2018-017Q
	DWS, Polymer Composite	Replaceable Wet Set Composite	2008-019Q
	DWS, Polymer Composite	Tactile Systems Composite Paver (Cast in Place)	2007-049Q
ARMOR 15	Armorcast Products Company, 13230 Saticoy Street, North Hollywood, CA 91605 http://www.armorcastprod.com/products/		
	DWS, Polymer Concrete	Detectable Warning Wet Set Replaceable (with steel angles)	2007-116Q
DETTI 15 Plant	Detectile, Inc., 603 Mallard Lane, Oak Brook, IL 60523 http://www.detectile.com/ Manitowoc, WI		
	DWS, Polymer Composite	PFC Composite Replaceable Panel	2009-057Q
EJI-0 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730		
	DWS, Cast Iron	DURALAST 7005 Detectable Warning Plate	2007-020Q
ENGPI 15 Plant	Engineered Plastics, Inc., 300 International Dr., Suite 100, Williamsville, NY 14221 http://engplastics.com/ Buffalo, NY		
	DWS, Polymer Composite <i>Provisionally Approved</i>	Access Tile Replaceable Cast in Place ACC-R	2010-036QB
	DWS, Polymer Composite	Armor-Tile	2007-052Q
EZSTI 15 Plant	EZ Set Tile, Inc., 4495 Gunpowder Circle, Hastings, NE 68901 http://www.ezsettile.com/ Aurora, NE		
	DWS, Polymer Composite <i>Provisionally Approved</i>	EZ Set Tile (Cast in Place)	2007-019Q



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Section 695: Detectable Warning Surface

695.2(a) Detectable Warning Surface (DWS)

Last Revised: 10/29/2020

Dome size and spacing as specified in [Standard Drawing RC-67M \(Publication 72M\)](#)

	Product	Name	Ref. No.
MBI1 15 Plant	Mar-Bal Incorporated, 10095 Queens Way, Chagrin Falls, OH 44023 Dublin, VA	http://www.mar-bal.com/language/en/	
	DWS, Polymer Composite	alertcast Detectable Warning System	2018-062Q
MFGCS 15	Molded Fiber Glass Composite Systems Company, 2925 MFG Place, Ashtabula, OH 44004	https://detectable-warning.com/products/alertcast/	
	DWS, Polymer Composite	alertcast Detectable Warning System	2010-196Q
NEENA 15	Neenah Foundry Company, Box 729, 2121 Brooks Ave., Neenah, WI 54956	http://www.nfco.com/	
	DWS, Cast Iron <i>Provisionally Approved</i>	24" x 24" Detectable Warning Plate (4984)	2007-111Q
STECC 15	Steel Craft Corporation, 105 Steel Craft Road, Hartford, WI 53027	http://www.steelcraftwi.com/	
	DWS, Stainless Steel <i>Provisionally Approved</i>	MD Metapanel	2011-191Q
TRASA 15	Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801	http://www.transpo.com/	
	DWS, Polymer Concrete <i>Provisionally Approved</i>	Step-Safe	2006-229Q



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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

696.2 Temporary Impact Attenuating Devices

Last Revised: 12/10/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Temporary work zone devices manufactured after December 31, 2019, must meet the AASHTO MASH 2016 criteria. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

	Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.	
BARRS 15	Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571 http://www.barriersystemsinc.com/								
	Type V, Non-Gating Two-Way Traffic System	Universal TAU-II	NCHRP 350		TL-2, TL-3	CC-75	SCT01a	2004-083Q	
	Type V, Non-Gating Two-Way Traffic System	X-TENUator	NCHRP 350		TL-3	CC-109	SCI23	2011-069QB	
	Type VI, Gating Non-Redirective Crash Cushion System	ABSORB 350	NCHRP 350		TL-3	CC-66	SCI11b	2001-066	
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/								
	Pell City, AL								
	Type V, Non-Gating Two-Way Traffic System	QuadGuard CZ	NCHRP 350		TL-3	CC-35A	SCT02b,c	1998-027	
	Type V, Non-Gating Two-Way Traffic System	QuadGuard High Speed (HS)	NCHRP 350		TL-3	CC-35E	SCT02d	2001-223Q	
	Type V, Non-Gating Two-Way Traffic System	QuadGuard II (Modified QuadGuard)	NCHRP 350		TL-2, TL-3	CC-35I		2009-159QB	
	<i>Spincast Plastics, South Bend, IN</i>								
	Type V, Non-Gating Two-Way Traffic System	QUEST	NCHRP 350		TL-3	CC-87	SCI20	2005-052Q	
	Type V, Non-Gating Two-Way Traffic System	REACT 350	NCHRP 350		TL-3	CC-26B	SCI16a	1995-158	
Type VI, Gating Non-Redirective Crash Cushion System	Energite III Module	NCHRP 350		TL-3	CC-29	SCI06c	----		
Type VI, Gating Non-Redirective Crash Cushion System	Fitch Inertial	NCHRP 350		TL-3	CC-28		----		



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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

696.2 Temporary Impact Attenuating Devices

Last Revised: 12/10/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Temporary work zone devices manufactured after December 31, 2019, must meet the AASHTO MASH 2016 criteria. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.	
LEISS 15	Leiss Tool & Die, 801 North Pleasant Avenue, Somerset, PA 15501 http://leiss.com/ Type V, Non-Gating Two-Way Traffic System	SCI 100 GM			MASH 2016	TL-3	CC-128	2014-029QD
	* Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion							
	Type V, Non-Gating Two-Way Traffic System	SCI 70 GM			NCHRP 350	TL-2	CC-85A	SCI17b 2014-029QB
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 http://www.lindsay.com/transportation-solutions 505 Crown Point Ave Omaha, NE 67110							
	Type V, Non-Gating Two-Way Traffic System	Universal TAU-M			MASH 2016	TL-2, TL-3	CC-146, CC-147	2018-278Q
	* Manual w/ Parts List, FHWA Eligibility Letters, Concrete & Asphalt Foundation Drawings for TAU-M							
	Type VI, Gating Non-Redirective Crash Cushion System	ABSORB-M	42		MASH 2016	TL-3	CC-153	2019-183Q
<i>Manual, FHWA Eligibility Letter CC-153, approved PE stamped drawings, and anti-freeze solutions for water-filled ABSORB-M Type VI Crash Cushion</i>								
MORVA 15	Morgan Valley Manufacturing, 340 North Industrial Road, P. O. Box 746, Morgan, UT 84050 Type V, Non-Gating Two-Way Traffic System	SCI 100 GM			MASH 2016	TL-3	CC-128	2004-015
	* Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion							
	Type V, Non-Gating Two-Way Traffic System	SCI 70 GM			NCHRP 350	TL-2	CC-85A	SCI17b 2005-033
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/ Middlefield, OH							
	Type VI, Gating Non-Redirective Crash Cushion System	CrashGard Sand Barrel System			MASH	TL-3	CC-145	2010-306Q



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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

696.2 Temporary Impact Attenuating Devices

Last Revised: 12/10/2020

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT Approved): [Section 619.2 & 696.2 Permanent and Temporary End Treatments Meeting MASH 2016 Criteria](#)

Temporary work zone devices manufactured after December 31, 2019, must meet the AASHTO MASH 2016 criteria. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/						
	Type VI, Gating Non-Redirective Crash Cushion System	Big Sandy (Sand Barrel System)	MASH		TL-3	CC-139	1998-143
	<i>System was crash tested to AASHTO MASH crash tested per FHWA Eligibility Letter CC-139. Installation Instructions and FHWA Eligibility Letter for Big Sandy</i>						
TRIN3 15	Type VI, Gating Non-Redirective Crash Cushion System	MASH Sentry Longitudinal Energy Dissipater (SLED)	MASH		TL-3	CC-131	2011-111
	<i>System was crash tested to MASH criteria per FHWA Eligibility Letter CC-131. Manual, FHWA Eligibility Letter CC-131, and water freezing prevention documents for MASH Sentry Longitudinal Energy Dissipater (SLED) Type VI Crash Cushion</i>						
TRIN3 15	Trinity Highway Products, LLC, 2548 NE 28th Street, Ft. Worth, TX 76111 http://www.highwayguardrail.com/						
	Type V, Non-Gating Two-Way Traffic System	TRACC	NCHRP 350		TL-3	CC-54	SCI18a,b 2010-251QA
<i>* Approved MM-USA marking as Identifiable Steel</i>							
TRIN7 15 Plant	Trinity Highway Products, LLC, 2525 Stemmons Freeway, Dallas, TX 75207 https://trinityhighway.com/						
	Pell City, AL 35128						
	Type V, Non-Gating Two-Way Traffic System	QuadGuard M10 (24" Wide)	MASH 2016		TL-3	CC-112, CC112c	2018-219Q
<i>* Manual, Product Information, FHWA Eligibility Letters, and PE Stamped Drawings for QuadGuard M10</i>							
WHIPI 15	Whip Industries, 3010 South Main Street, Fort Worth, TX 76110 http://www.whipindustries.com/						
	Type V, Non-Gating Two-Way Traffic System	SCI 100 GM	MASH 2016		TL-3	CC-128	2014-017QB
<i>* Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>							
	Type V, Non-Gating Two-Way Traffic System	SCI 70 GM	NCHRP 350		TL-2	CC-85A	SCI17b 2014-017QD



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Section 701: Cement

701 Cement Plants & Terminals

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Product	Name	Letter Date	Ref. No.
AALPO 15 Plant	Aalborg Portland A/S, Roerdalsvej 44, Aalborg 9100 https://www.aalborgportland.dk/ Roerdalsvej 44 Aalborg 9100 Type I		2010-084Q
ARGO1 15 Plant	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ 1826 South Queen Street Martinsburg, WV 25401 Formerly Essroc Materials, Inc. (ESS-3 15) Type I Portland Cement Type I/II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		1995-072
	Type II Portland Cement Type I/II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	8/14/2012	1995-072
	Type III Portland Cement Type III		1995-072
	Type III Portland Cement Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-077Q
	Type II Argos Type II Cement <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2019-072Q
ARGO2 15 Terminal	Argos USA, 3015 Windward Plaza, Winward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ 4120 Buckeystown Pike Frederick, MD 21703 Formerly Essroc Materials, Inc. (ESS-5 15) Type I Type I/II, Terminal for ARGO1 15, Ref. No. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
	Type II Type I/II, Terminal for ARGO1 15, Ref. No. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-183QB



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Product	Name	Letter Date	Ref. No.
ARGO3 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ Bessemer, PA <i>Formerly Essroc Materials, Inc. (ESS-6 15)</i>		
	Type I Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-149QA
	Type II Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-149QB
	<hr/>		
ARGO4 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ 500 West Park Road Leetsdale, PA 15056 <i>Formerly Essroc Materials, Inc. (ESS10 15)</i>		
	Type I Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-235QA
	Type I Type I/II, Terminal for ARGO6 15, Ref. 2017-230Q (Calera, AL) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2010-235QA
	Type II Type I/II, Terminal ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-235QB
	Type II Type I/II, Terminal for ARGO6 15, Ref. 2017-230Q (Calera, AL) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2010-235QB
	<hr/>		
ARGO6 15 Plant	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ Roberta Plant 8039 Highway 25 Calera, AL 35040		
	Type I Type I/II, Terminal for ARGO6 15, Ref. 2017-230Q (Calera, AL) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2017-230Q
Type II Type I/II, Terminal for ARGO6 15, Ref. 2017-230Q (Calera, AL) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2017-230Q	



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Product	Name	Letter Date	Ref. No.
ARGO7 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ 411 Oberlin Avenue SW Massillon, OH 44647		
Type I	Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-105Q
Type II	Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-105Q
ARMST 15 Plant	Armstrong Cement and Supply, 100 Clearfield Road, Cabot, PA 16023-9521 Cabot, PA		
Type I			----
Type I	<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>	7/6/2009	----
Type II			----
Type II	<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>		2019-229Q
Type II MH			----
Type II MH	<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>		2019-229Q
Type III			----
Type V			2000-010Q



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Product	Name	Letter Date	Ref. No.
BUZZ1 15 Plant	Buzzi Unicem USA Stockertown, 501 Hercules Drive, P. O. Box 69, Stockertown, PA 18083 http://www.buzziunicemusa.com/		
Type I	<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>	5/4/2009	----
Type I	Terminal for BUZZ2 15, Ref. 2011-222QA (Chattanooga, TN)		2012-023QA
Type II	Terminal for BUZZ2 15, Ref. 2011-222QB (Chattanooga, TN)		2012-023QB
Type II MH		5/4/2009	----
Type III		5/4/2009	----
BUZZ2 15 Plant	Buzzi Unicem USA, Chattanooga, 1201 Suck Creek Road, P. O. Box 4304, Chattanooga, TN 37405 http://www.buzziunicemusa.com/		
Type I			2011-222QA
Type II			2011-222QB
CEMX1 15 Terminal	CEMEX, Inc. (Effective 3/7/20, acquired by Eagle Materials/Kosmos Cement Company LLC - See KCC-2 15), 10100 Katy Freeway, Suite 300, Houston, TX 77043 200-B Neville Island Pittsburgh, PA 15225 See KCC-2 15 - Kosmos Cement Company LLC		
Type I	Terminal for CEMX4 15, Ref. No. 2001-056		----
Type II	Terminal for CEMX4 15, Ref. No. 2001-056		----
Type II MH	Terminal for CEMX4 15, Ref. No. 2001-056		----
Type III	Terminal for CEMX4 15, Ref. No. 2001-056		----



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Product	Name	Letter Date	Ref. No.
CEMX2 15 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 2001 Portland Park Wampum, PA 16157		
Type I	Terminal for CEMX8 15, Ref. 2018-231 (Knoxville, TN) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2018-231Q
Type I	Terminal for KCC-1 15, Ref. 2001-056Q (Louisville, KY) <i>This cement is supplied from the Kosmos Cement Company LLC plant in Louisville, KY (KCC-1 15).</i>		2010-042Q
Type II	Terminal for CEMX8 15, Ref. 2018-231 (Knoxville, TN) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2018-231Q
Type II	Terminal for KCC-1 15, Ref. 2001-056Q (Louisville, KY) <i>This cement is supplied from the Kosmos Cement Company LLC plant in Louisville, KY (KCC-1 15).</i>		2010-042Q
Type II MH	Terminal for KCC-1 15, Ref. 2001-056Q (Louisville, KY) <i>This cement is supplied from the Kosmos Cement Company LLC plant in Louisville, KY (KCC-1 15).</i>	3/9/2020	2010-042Q
Type III	Terminal for KCC-1 15, Ref. 2001-056Q (Louisville, KY) <i>This cement is supplied from the Kosmos Cement Company LLC plant in Louisville, KY (KCC-1 15).</i>		2010-141QA
CEMX4 15 Plant	CEMEX, Inc. (Effective 3/7/20, acquired by Eagle Materials/Kosmos Cement Company LLC - See KCC-1 15), 10100 Katy Freeway, Suite 300, Houston, TX 77043 Kosmos Cement Plant 15301 Dixie Highway Louisville, KY 40272 See KCC-1 15 - Kosmos Cement Company LLC		
Type I			2001-056Q
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-130Q
Type II			2001-056Q
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-130Q
Type II MH			2001-056Q
Type III			2001-056Q
Type IS			1993-040



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Product	Name	Letter Date	Ref. No.
CEMX6 15 Plant	Fairborn Cement Company (Eagle Materials, Inc.), 3811 Turtle Creek Blvd, Suite 1100, Dallas, TX 75219 http://www.eaglematerials.com 3250 Linebaugh Road Xenia, OH 45385 (Formerly CEMEX, Inc.)		
Type I	Per AASHTO M 85, Portland cement with up to 5% limestone addition.		2012-172QA
Type II	Per AASHTO M 85, Portland cement with up to 5% limestone addition.		2012-172QB
Type II MH	Per AASHTO M 85, Portland cement with up to 5% limestone addition.		2012-172QB
Type III			2010-043Q
Type III	Per AASHTO M 85, Portland cement with up to 5% limestone addition.		2017-333Q
CEMX7 15 Terminal	CEMEX, Inc. (Effective 3/7/20, acquired by Eagle Materials/Kosmos Cement Company LLC - See KCC-3 15), 10100 Katy Freeway, Suite 300, Houston, TX 77043 1007 Maccorkle SW Avenue South Charleston, WV 25303 See KCC-3 15 - Kosmos Cement Company LLC		
Type I	Terminal for CEMX4 15, Ref. No. 2001-056		2016-084Q
Type II	Terminal for CEMX4 15, Ref. No. 2001-056		2016-084Q
Type II MH	Terminal for CEMX4 15, Ref. No. 2001-056		2016-084Q
Type III	Terminal for CEMX4 15, Ref. No. 2001-056		2016-084Q
CEMX8 15 Plant	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 6212 Cement Plant Road Knoxville, TN 37924		
Type I	Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).		2018-231Q
Type II	Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).		2018-231Q



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Product	Name	Letter Date	Ref. No.
CRH-1 15 Plant	CRH Canada Group Inc. (To be renamed Ash Grove, effective 7/6/20), 2300 Steeles Avenue West, Concord, Ontario L4K 5X6 https://www.ashgrove.com/		
	Ash Grove Mississauga Cement Plant 2391 Lakeshore Road West Mississauga, Ontario L5J 1K1		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	1/17/2008	----
	Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2016-027Q
CRH-2 15 Plant	CRH Canada Group Inc. (To be renamed Ash Grove, effective 7/6/20), 2300 Steeles Avenue West, Concord, Ontario L4K 5X6 https://www.ashgrove.com/		
	Ash Grove Joliette Cement Plant 966 chemin des Prairies Joliette, Quebec J6E 0L4		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-079Q
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-079Q
	Type II MH <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-079Q
ESSEX 15 Terminal	Titan America, LLC, 188 Summerfield Court, Suite 201, Roanoke, VA 24019		
	Essex Cement Company, LLC 182 Calcutta Street Port Newark, NJ 07114		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for TITAN 15, Ref. 2016-132 (Elefsina, Greece)	2019-248Q
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for TITAN 15, Ref. 2016-132 (Elefsina, Greece)	2019-248Q
	Type II MH <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for TITAN 15, Ref. 2016-132 (Elefsina, Greece)	2019-248Q
FEDW0 15 Plant	Federal White Cement, Inc., P.O. Box 1609, Woodstock, Ontario N4S 0A8 http://www.federalwhitecement.com/		
	P.O. Box 1609 Woodstock, Ontario N4S 0A8		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-002Q



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Product	Name	Letter Date	Ref. No.
FEDW1 15 Terminal	Federal White Cement, Inc., P.O. Box 1609, Woodstock, Ontario N4S 0A8 http://www.federalwhitecement.com/ Northampton, PA		
	Type I Terminal for FEDW0 15 <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-002Q
HOLI1 15 Terminal	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Tarentum Terminal 445 Grantham Street Tarentum, PA 15084		
	Type I Terminal for HOLI4 15, Ref. 8/14/2007 (Hagerstown, MD)		2008-118Q
	Type I Terminal for HOLI5 15, Ref. 2011-224QA (Holly Hill, SC)		2014-191QA
	Type II Terminal for HOLI4 15, Ref. 6/11/2010 (Hagerstown, MD)		2008-118Q
	Type II Terminal for HOLI5 15, Ref. 2011-224QB (Holly Hill, SC)		2014-191QB
	Type II MH Terminal for HOLI5 15, Ref. 2011-224QB (Holly Hill, SC)		2014-191QC
HOLI2 15 Plant	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Buffalo, NY		
	Type I		----
	Type II		----
	Type II MH		----
	Type III		----
HOLI4 15 Plant	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Holcim Hagerstown Plant 1260 Security Road Hagerstown, MD 21742		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	8/14/2007	----
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	6/11/2010	1990-148
	Type II MH <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	6/11/2010	1990-148
	Type III		1990-148



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HOLI5 15 Plant	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/		
	Holcim Holly Hill Plant 2173 Gardner Boulevard Holly Hill, SC 29059		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-224QA
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-224QB
	Type II MH <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-224QB
HOLI6 15 Plant	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/		
	Ste. Genevieve Plant 2942 US Highway 61 Bloomsdale, MO 63627		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2012-090QA
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2012-090QB
	Type II MH <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2012-090QB
HOLI7 15 Terminal	Holcim U.S. Inc, Bloomsdale, MO 63627 https://www.lafargeholcim.us/		
	Wierton, WV		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for HOLI6 15, Ref. 2012-090QA (Bloomsdale, MO)	2012-099Q
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for HOLI6 15, Ref. 2012-090QB (Bloomsdale, MO)	2012-099Q
	Type II MH <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for HOLI6 15, Ref. 2012-090QB (Bloomsdale, MO)	2012-099Q



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Product	Name	Letter Date	Ref. No.
HOLI9 15 Terminal	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Baltimore, MD		
Type I	Terminal for HOLI5 15, Ref. No. 2011-224QA (Holly Hill, SC) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2014-093Q
Type II	Terminal for HOLI5 15, Ref. No. 2011-224QB (Holly Hill, SC) <i>Per AASHTO M85-07, Portland cement with up to 5% limestone addition.</i>		2014-093Q
Type II MH	Terminal for HOLI5 15, Ref. No. 2011-224QB (Holly Hill, SC) <i>Per AASHTO M85-07, Portland cement with up to 5% limestone addition.</i>		2014-093Q
KCC-1 15 Plant	Kosmos Cement Company LLC, 15301 Dixie Highway, Louisville, KY 40272 15301 Dixie Highway Louisville, KY 40272 Formerly CEMX4 15 - CEMEX, Inc.		
Type I			2001-056Q
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-130Q
Type II			2001-056Q
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-130Q
Type II MH			2001-056Q
Type III			2001-056Q
Type IS			1993-040



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Product	Name	Letter Date	Ref. No.
KCC-2 15 Terminal	Kosmos Cement Company LLC, 15301 Dixie Highway, Louisville, KY 40272 200-B Neville Island Pittsburgh, PA 15225 Formerly CEMX1 15 - CEMEX, Inc.		
Type I	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type I	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		----
Type II	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		----
Type II	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type II MH	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		----
Type III	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		----
KCC-3 15 Terminal	Kosmos Cement Company LLC, 15301 Dixie Highway, Louisville, KY 40272 1007 Maccorkle SW Avenue South Charleston, WV 25303 Formerly CEMX7 15 - CEMEX, Inc.		
Type I	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		2016-084Q
Type I	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2016-084Q
Type II	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2016-084Q
Type II	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		2016-084Q
Type II MH	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		2016-084Q
Type III	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)		2016-084Q
KEYSP 15 Plant	Keystone Cement Company, Route 329, P.O. Box A, Bath, PA 18014 http://www.keystone-cement.com/ Bath, PA		
Type I			----
Type II			----
Type III			----



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KEYST 15 Terminal	Keystone Cement Company, Route 329, P.O. Box A, Bath, PA 18014		
	Adrian Terminal 719 Tarrtown Road Adrian, PA 16210		
	Type I Terminal for KEYSP 15 (Bath, PA)		2017-267Q
	Type II Terminal for KEYSP 15 (Bath, PA)		2017-267Q
	Type III Terminal for KEYSP 15 (Bath, PA)		2017-267Q
LAFR1 15 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/		
	Buffalo Cement Terminal 575 Ohio Street Buffalo, NY 14203		
	Type I		----
	Type II		----
	Type III		----
LAFR1015 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/		
	Ravena Cement Plant 1916 Route 9 W Ravena, NY 12143		
	Type I		----
	Type I	3/25/2010	----
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type II	3/25/2010	----
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type II		----
LAFR1715 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/		
	Pittsburg Terminal 1529 Chartiers Avenue Pittsburgh, PA 15204		
	Type I Terminal for HOLI4 15 (Hagerstown, MD)		----
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type I Terminal for LAFR3 15 (Bath, Ontario)		2006-063Q
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type II Terminal for HOLI4 15 (Hagerstown, MD)		----
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type II Terminal for LAFR3 15 (Bath, Ontario)		2006-063Q
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		



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Product	Name	Letter Date	Ref. No.
LAFR2 15 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/ Cleveland Cement Terminal/Slag 2500 Elm Street Cleveland, OH 44113		
	Type I		----
	Type II		----
	Type III		----
LAFR3 15 Plant	LafargeHolcim Canada Inc., 6509 Airport Road, Mississauga, Ontario https://www.lafarge.ca/en 6501 Hwy 33 West P.O. Box 160 Bath, Ontario K0H 1G0		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	1/17/2008	----
	Type I		----
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
	Type III		----
	Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-275Q
LAFR5 15 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/ Oswego Cement Terminal 1 West Van Buren Street Oswego, NY 13126		
	Type I		----
	Type II		----
	Type III		----



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LAFR7 15 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/ Whitehall Cement Plant 5160 Main Street Whitehall, PA 18052		
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	12/16/2009	----
Type I			2001-095Q
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2013-146Q
Type III	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	12/16/2009	----
Type III			2001-095Q
Type IS (25)	MaxCem 25		2019-243Q
Type IS (30)			2005-002Q
Type IS (40)			2008-021Q
LAFR8 15 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/ Joppa Cement Plant 2500 Portland Road Grand Chain, IL 62941		
Type I			1991-153
Type II			1991-153
Type III			1991-153
LAFR9 15 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/ Belpre Cement Terminal 1684 State Route 618 Belpre, OH 45714		
Type I			1993-402
Type II			1993-402
Type III			1993-402



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Product	Name	Letter Date	Ref. No.
LEH-1 15 Plant	Lehigh Cement Company, LLC, 675 Quaker Hill Road, Union Bridge, MD 21791 http://www.lehighhanson.com/ Union Bridge, MD		
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	3/11/2008	----
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	3/11/2008	----
Type II MH	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	3/11/2008	----
Type III	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	3/11/2008	----
LEH-2 15 Plant	Lehigh White Cement Company LLC, 200 Hokes Mill Road, York, PA 17404 https://www.lehighwhitecement.com/ 200 Hokes Mill Road York, PA 17404		
Type I White	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	4/6/2009	----
Type I White			1989-253
LEH-3 15 Plant	Lehigh Cement Company, LLC, 537 Evansville Road, Fleetwood, PA 19522 http://www.lehighhanson.com/ Evansville Plant, Fleetwood, PA		
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type II MH	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type III	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type IS (40)			1999-152Q
Type IS (50)			2019-035Q



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	Product	Name	Letter Date	Ref. No.
LEH-4 15 Terminal	Lehigh Cement Company, LLC, 100 Woodlawn Road, Aliquippa, PA 15001-5404 http://www.lehighhanson.com/ Aliquippa, PA			
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, Ref. Ltr. 03/11/2008 (Union Bridge, MD)		2003-110Q
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, Ref. Ltr. 03/11/2008 (Union Bridge, MD)		2003-110Q
LEH-6 15 Terminal	Lehigh Cement Company, LLC, 63 Flushing Avenue Unit 295, Brooklyn, NY 11205 http://www.lehighhanson.com/ Brooklyn, NY			
	Type I	Terminal for AALPO 15, Ref. No. 2010-084Q (Aalborg, Denmark)		2010-208Q
LEH-7 15 Terminal	Lehigh Cement Company, LLC, 3100 Mertens Avenue, Baltimore, MD 21224 http://www.lehighhanson.com/ Baltimore, MD			
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, Ref. Ltr. 03/11/2008 (Union Bridge, MD)		2012-010QA
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, Ref. Ltr. 03/11/2008 (Union Bridge, MD)		2012-010QB
LEH-8 15 Terminal	Lehigh Cement Company, LLC, 361 Boxart Street, Rochester, NY 14612 http://www.lehighhanson.com/ 361 Boxart Street Rochester, NY 14612 (Formerly Essroc ESS-8 15)			
	Type I	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)		2000-004Q
	Type II	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)		2000-004Q



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Product	Name	Letter Date	Ref. No.
LEH-9 15 Plant	Lehigh Cement Company, LLC, 3938 Easton Nazareth Highway, Nazareth, PA 18064 http://www.lehighhanson.com/ 3938 Easton Nazareth Highway Nazareth, PA 18064 (Formerly Essroc ESS-7 15)		
Type I	Plant 1 - Limestone Source: Pennsy Supply <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2013-071Q
Type I	Plant 1 - Saylor's Portland Cement - Limestone Source: Medford Fines (Martin Marietta Materials) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-037Q
Type I	Plant 1 - Saylor's Portland Cement - Limestone Source: Nazareth Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-157Q
Type I	Plant 3		1997-187
Type II	Plant 1 - Limestone Source: Pennsy Supply <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2013-071Q
Type II	Plant 1 - Saylor's Portland Cement - Limestone Source: Medford Fines (Martin Marietta Materials) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-037Q
Type II	Plant 3		1997-187
Type III	Plant 1 <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		1997-187
Type III	Plant 3		1997-187
Type IL	Plant 1 <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2018-244Q



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Product	Name	Letter Date	Ref. No.
LEH11 15 Plant	Lehigh Cement Company, ULC, Highway 49 South, Picton, Ontario KOK 2T0 http://www.lehighhanson.com/ Picton, Ontario, Canada (Formerly Essroc ESS11 15)		
Type I	Per AASHTO M85, Portland cement with up to 5% limestone addition.	6/9/2011	-
Type I			2005-087Q
Type II	Per AASHTO M85, Portland cement with up to 5% limestone addition.	6/9/2011	-
Type II			2005-087Q
Type IL	Type IL Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.		2019-004Q
LEH12 15 Terminal	Lehigh Cement Company, LLC, 29 West First Street, Oswego, NY 13126 http://www.lehighhanson.com/ Oswego, NY (Formerly Essroc ESS12 15)		
Type I	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)		2005-088Q
Type II	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)		2005-088Q
LEH13 15 Plant	Lehigh Cement Company, LLC, Highway 31, Speed, IN 47172 http://www.lehighhanson.com/ Speed, IN (Formerly Essroc ESS13 15)		
Type I			2009-024QA
Type I	Per AASHTO M85, Portland cement with up to 5% limestone addition.		2017-354Q
Type II			2009-024QB
Type II	Per AASHTO M85, Portland cement with up to 5% limestone addition.		2017-354Q
Type III			2009-162Q
Type III	Per AASHTO M85, Portland cement with up to 5% limestone addition.		2017-354Q



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LEH14 15 Terminal	Lehigh Cement Company, LLC, 1101 Erieside Extended, Cleveland, OH 44114 http://www.lehighhanson.com/ Cleveland, OH (Formerly Essroc ESS14 15) Type II	Terminal for LEH11 15, Ref. No. 2005087Q (Picton, Ontario)	2010-018Q
LEH16 15 Terminal	Lehigh Cement Company, LLC, 8282 Middlebranch Road, Middlebranch, OH 44652 http://www.lehighhanson.com/ [Slag Plant, Cement Terminal] Middlebranch, OH 44652 (Formerly Essroc ESS-4 15) Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, 3/11/2008 (Union Bridge, MD)	----
	Type I	Terminal for LEH-9 15, Ref. No. 1997-187 (Nazareth, PA)	2015-041Q
	Type I	Terminal for LEH13 15, Ref No. 2017-354Q (Speed, IN) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	2017-354Q
	Type I	Terminal for LEH13 15, Ref. No. 2009-024QA (Speed, IN)	2009-024QA
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, 3/11/2008 (Union Bridge, MD)	----
	Type II	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)	2010-113QB
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH13 15, Ref No. 2017-354Q (Speed, IN)	2017-354Q
	Type II	Terminal for LEH13 15, Ref. No. 2009-024QB (Speed, IN)	2009-024QB
	Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH1-15, 3/11/2008 (Union Bridge, MD)	----
	Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH13 15, Ref No. 2017-354Q (Speed, IN)	2017-354Q
	Type III	Terminal for LEH13 15, Ref. No. 2009-162Q (Speed, IN)	2010-113QA



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LEHN0 15 Plant	Lehigh Northeast Cement Company, 313 Warren Street, Glen Falls, NY 12801 Glen Falls, NY		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-180QA
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-180QB
	Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-180QC
MCINN 15 Plant	McInnis Cement Company, 850 Canal Street, 3rd Floor, Stamford, CT 06902 https://mcinniscement.com/the-projects/#the-plant 50, Road 132 Port Daniel-Gascons (Quebec) G0C-2N0		
	Type I <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Type I/II Cement	2019-249Q
	Type II <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Type I/II Cement	2019-249Q
	Type III <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Type III Cement	2020-186Q
MEDC1 15 Plant	Medcem Madencilik, Atasehir Bulvari, Metropol Istanbul, C-2 Blok, 34758, Istanbul, Türkiye http://www.medcem.com.tr/en/home Akdere Köyü Bagalani Mevkii Silifke/MERSIN		
	Type I Type II		2019-121Q 2019-121Q
RIVER 15 Plant	Riverside Construction Materials, 355 Newbold Rd., Fairless Hills, PA 19030 Siam Cement Company Thailand		
Type I <i>Manufactured by the Siam Cement Company.</i>		1998-195	



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RIVERT15 Terminal	Riverside Construction Materials, 355 Newbold Road, Fairless Hills, PA 19030 7900 N. Radcliffe Street Bristol, PA 19007		
Type I	Terminal for MEDC1 15, Ref. No. 2019-121 (Mersin, Turkey) <i>NOTE: Cement is shipped from the Medcem Madencilik Plant in Mersin, Turkey (MEDC1 15). Plant Verification (PV) samples are submitted by the Riverside Construction Materials terminal in Bristol, PA (RIVERT15).</i>		2019-097Q
Type I	Terminal for TITAN 15, Ref. No. 2016-132 (Elefsina, Greece) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition. NOTE: Cement is shipped from the Kamari Plant in Elefina, Greece (TITAN 15). Plant Verification (PV) samples are submitted by the Riverside Construction Materials terminal in Bristol, PA (RIVERT15).</i>		2016-098Q
STMC1 15 Plant	St. Marys Cement, Votorantim Cimentos, 9333 Dearborn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/ 585 Water Street P.O. Box 1000 St. Marys, Ontario N4X 1B6		
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	10/6/2010	----
Type I			1988-318
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	10/6/2010	----
Type II			1988-318
Type II MH	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	10/6/2010	----
Type II MH			1988-318
Type III			1988-318



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STMC2 15 Plant	St. Marys Cement, 9333 Dearborn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/ Bowmanville, Ontario		
Type I	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	10/6/2010	----
Type I			1997-097
Type II	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2013-248QA
Type II MH	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2013-248QB
Type III			1997-097
STMC3 15 Terminal	St. Marys Cement, 9333 Dearborn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/ Buffalo, NY		
Type I	Terminal for STMC1 15, Ref. No. 1988-318 (St. Marys, Ontario)		1999-1959Q
Type I	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		1999-1959Q
Type II	Terminal for STMC1 15, Ref. No. 1988-318 (St. Marys, Ontario)		1999-1959Q
Type III	Terminal for STMC1 15, Ref. No. 1988-318 (St. Marys, Ontario)		1999-1959Q
Type III	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		1999-1959Q
STMC5 15 Terminal	St. Marys Cement, 2301 Front Street, Toledo, OH 43605 http://www.stmaryscement.com/saintmaryscementinc/ Toledo, OH		
Type I	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		2008-116Q
STMC6 15 Terminal	St. Marys Cement, 250 Jefferson Street, Cleveland, OH 44113 http://www.stmaryscement.com/saintmaryscementinc/ Cleveland, OH		
Type I	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		2008-117QA



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Section 701: Cement

701 Cement Plants & Terminals

Last Revised: 11/5/2020

Product	Name	Letter Date	Ref. No.
TITAN 15 Plant	Titan Cement Company, Kalkidos 22A, 11143 Athens, Greece http://www.titan-cement.com/en/ Kamari Plant: Elefsina, Greece Type I, II, II MH	Riverside Cement	2016-132
<i>Per AASHTO M85, Portland cement with up to 5% limestone addition. NOTE: Cement is shipped to a Riverside Construction Materials terminal in Bristol, PA (RIVERT15). Plant Verification samples are submitted by Riverside Construction Materials (RIVERT15).</i>			



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Section 702: Asphalt Material

702a Asphalt Cement

Last Revised: 5/6/2015

Product	Name	Ref. No.
ATLMC 15	Atlas Minerals and Chemicals, Inc., 1227 Valley Road, P.O. Box 38, Mertztown, PA 19539-0038 http://www.atlasmin.com/	
	ASTM D 3141	----
	WA-1	----
	WM-1	----
PUREA 15	Pure Asphalt Company, 3300 West 31st Street, Chicago, IL 60623 http://www.pureasphalt.com/	
	ASTM D 3141	----
SOLAR 15	Solar Compounds, 1201 West Blancke Street, Linden, NJ 07036 http://www.solarcompounds.com/	
	J-1	----
TRUM1 15 Refinery	Trumbull Asphalt, Division of Owens Corning, 7800 West 59th Street, Summit, IL 60501 http://www.owenscorning.com/trumbull/ Kearny, NJ	
	ASTM D 3141	2005-001Q
TRUM3 15 Refinery	Trumbull Asphalt, Division of Owens Corning, 7800 West 59th Street, Summit, IL 60501 http://www.owenscorning.com/trumbull/ Medina, OH	
	ASTM D 3141	----
ZECH0 15	Zeigler Chemical Corporation, 600 Prospect Avenue, Piscataway, NJ 08854 http://zieglerchemical.com/	
	WA-1	----
	WM-1	----

702b Cutback Asphalt

Last Revised: 6/24/2020

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
ASP-2 15	Asphalt Paving Systems, 500 North Egg Harbor Road, P.O. Box 500, Hammonton, NJ 08037-0500 http://www.asphaltpavingsystems.com/ Formerly Shore Slurry Seal, Inc. (SHORE 15)	
	MC-30	----



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Section 702: Asphalt Material

702b Cutback Asphalt

Last Revised: 6/24/2020

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
ASP-2 15	Asphalt Paving Systems, 500 North Egg Harbor Road, P.O. Box 500, Hammonton, NJ 08037-0500 http://www.asphaltpavingsystems.com/ <i>Formerly Shore Slurry Seal, Inc. (SHORE 15)</i>	
	MC-400	----
	MC-70	----
	MC-800	----
	RC-250	----
	RC-70	----
	RC-800	----
	WP-1	----
ATLMC 15	Atlas Minerals and Chemicals, Inc., 1227 Valley Road, P.O. Box 38, Mertztown, PA 19539-0038 http://www.atlasmin.com/	
	MC-30	1999-116Q
	MC-400	1999-116Q
	MC-70	1999-116Q
	MC-800	1999-116Q
	RC-250	1999-116Q
	RC-70	1999-116Q
	RC-800	1999-116Q
	WP-1	1999-116Q
COOPC 15	Coopers Creek Chemical Corporation, 884 River Road, West Conshohocken, PA 19428-2699 http://cooperscreekchemical.com/	
	MC-30	2000-119Q
	MC-400	2000-119Q
	MC-70	2000-119Q
	MC-800	2000-119Q
	RC-250	2000-119Q
	RC-70	2000-119Q
	RC-800	2000-119Q
	WP-1	2000-119Q



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Section 702: Asphalt Material

702b Cutback Asphalt

Last Revised: 6/24/2020

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
HENCO 15	Henry Company, 336 Cold Stream Road, Kimberton, PA 19442 http://us.henry.com/	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
MARFR 15	Frank Martuccio Asphalt and Paving, Inc., 1059 Mercer Avenue, Hermitage, PA 16148	
MC-30		2006-067Q
MC-400		2006-067Q
MC-70		2006-067Q
MC-800		2006-067Q
RC-250		2006-067Q
RC-70		2006-067Q
RC-800		2006-067Q
WP-1		2006-067Q



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Section 702: Asphalt Material

702b Cutback Asphalt

Last Revised: 6/24/2020

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
MDL-3 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 http://www.midlandasphalt.com/	
	Clearfield, PA	
	Formerly Whitaker Road (WHITR 15)	
	MC-30	----
	MC-400	----
	MC-70	----
	MC-800	----
	RC-250	----
	RC-70	----
	RC-800	----
	WP-1	----
NEVLC 15	Neville Chemical Company, 2800 Neville Road, Neville Island, PA 15225 http://www.nevchem.com/	
	Cut-Back Asphalt	SRTC
PECKH 15	Peckham Materials Corporation, 2 Union Street Extension, Athens, NY 12015	
	MC-30	1999-133Q
	MC-400	1999-133Q
	MC-70	1999-133Q
	MC-800	1999-133Q
	RC-250	1999-133Q
	RC-70	1999-133Q
	RC-800	1999-133Q
	WP-1	1999-133Q



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Section 702: Asphalt Material

702b Cutback Asphalt

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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
RUSS0 15	Russell Standard Corporation, 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137 http://www.russellstandard.com/	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
RUSS3 15	Russell Standard Corporation, Hammaker East, LTD, 118 Siloam Road, Chambersburg, PA 17201 http://www.russellstandard.com/	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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Section 702: Asphalt Material

702b Cutback Asphalt

Last Revised: 6/24/2020

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
RUSS7 15 Facility	Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238 http://www.russellstandard.com/ 3450 Asiatic Avenue Baltimore, MD 21226	
MC-30		2018-213Q
MC-400		2018-213Q
MC-70		2018-213Q
MC-800		2018-213Q
RC-250		2018-214Q
RC-70		2018-214Q
RC-800		2018-214Q
WP-1		2018-214Q
SEABD 15	Seaboard Asphalt Products Company, 3601 Fairfield Road, Baltimore, MD 21226 http://seboardasphalt.com/	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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Section 702: Asphalt Material

702b Cutback Asphalt

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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

	Product	Name	Ref. No.
SUIT1 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ 505 Como Park Blvd. Buffalo, NY		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
	WP-1		----
SUIT3 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ Cortland, NY		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
	WP-1		----



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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
SUIT4 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ 20 Fairground Lane Watkins Glen, NY	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
SUIT5 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ Jamestown, NY	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
SUIT6 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ New York State Route 19 Belmont, NY	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ 10965 McHenry Street Meadville, PA	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
UAC-1 15 Plant	United Asphalt Company, P.O. Box 291, Cedar Brook, NJ 08018 https://unitedasphalt.com/asphalt-cutbacks/ 237 North Grove Street Berlin, NJ 08009	
RC-250	Del-Val RC-250	2019-024Q
RC-70	Del-Val RC-70	2019-023Q
RC-800	Del-Val RC-800	2019-025Q



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702b Cutback Asphalt

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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
UNRC0 15	United Refining Company, P.O. Box 780, Warren, PA 16365 http://www.urc.com/	
	MC-30	----
	MC-400	----
	MC-70	----
	MC-800	----
	RC-250	----
	RC-70	----
	RC-800	----
	WP-1	----
UNRC1 15	United Refining Company, 15 Bradley Street, P.O. Box 780, Warren, PA 16365-0780 http://www.urc.com/	
Terminal	Springdale Terminal Springdale, PA	
	MC-30	----
	MC-400	----
	MC-70	----
	MC-800	----
	RC-250	----
	RC-70	----
	RC-800	----
	WP-1	----



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Section 702: Asphalt Material

702b Cutback Asphalt

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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
ZECH0 15	Zeigler Chemical Corporation, 600 Prospect Avenue, Piscataway, NJ 08854 http://zieglerchemical.com/	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----

702c Emulsified Asphalt

Last Revised: 6/24/2020

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
ASP-1 15	Asphalt Paving Systems, 8th St. & Reading Ave., P.O. Box 530, Hammonton, NJ 08037 http://www.asphaltpavingystems.com/ Formerly ASPPS 15	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	2017-098Q



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Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 6/24/2020

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
ASP-1 15	Asphalt Paving Systems, 8th St. & Reading Ave., P.O. Box 530, Hammonton, NJ 08037 <i>Formerly ASPPS 15</i>	http://www.asphaltpavingsystems.com/	
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 7: UTFCEM		----
DOSK0 15	Dosch-King Emulsions, Inc., 16 Troy Hills Road, Whippany, NJ 07981	http://doschking.net/index.html	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 7: UTFCEM		----
ENVES 15	Environmental Energy Solutions, LLC, 10027 Route 403 Highway South, Seward, PA 15954	http://www.eesolutionsllc.com/	
	EM Type 4: AEP		----



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702c Emulsified Asphalt

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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
KAP-1 15 Terminal	Kuhnsville Asphalt Products, 6661 Tilgham Street, Allentown, PA 18106 PA	https://www.kvasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2019-080Q
LINP0 15	Lindy Paving, Inc., P.O. Box 282, 4551 West State Street, Hillsville, PA 16132 <i>Provisionally Approved</i>	https://www.pjdick.com/lindy-paving/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2010-040Q
MARFR 15	Frank Martuccio Asphalt and Paving, Inc., 1059 Mercer Avenue, Hermitage, PA 16148		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----



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Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 6/24/2020

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
MDL-1 15	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 <i>Formerly MDLAC 15</i>	http://www.midlandasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----
	EM Type 7: UTFCEM		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
MDL-2 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 Lyons, NY	http://www.midlandasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----
	EM Type 7: UTFCEM		----



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702c Emulsified Asphalt

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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
MDL-3 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 Clearfield, PA <i>Formerly Whitaker Road (WHITR 15)</i>	http://www.midlandasphalt.com/	
	EM Non-Standard	FastTack	2010-128
	<i>Conditionally approved per manufacturer's specifications. FastTack system includes an adhesion agent (MC), an emulsified asphalt and a breaking agent (Rupteur XC).</i>		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-126Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----
	EM Type 7: UTFCEM		----



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702c Emulsified Asphalt

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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
MDL-4 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388	http://www.midlandasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----
	EM Type 7: UTFCEM		----
MOHWK 15	Mohawk Asphalt Emulsions, 6 Freemans Bridge Road, Scotia, NY 12302		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 7: UTFCEM		----



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Section 702: Asphalt Material

702c Emulsified Asphalt

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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
NEAS1 15 Terminal	New England Asphalt Services, dba Empire Emulsions, 508 Forest Road, Northford, CT 06742 Empire Emulsions 1297 Craigville Road Chester, NY 10918		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2019-047Q
PECKH 15	Peckham Materials Corporation, 2 Union Street Extension, Athens, NY 12015		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
RUSS0 15	Russell Standard Corporation, 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137 http://www.russellstandard.com/	
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T <i>(Also evaluated per PEQ 2018-033Q)</i>		2018-111Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----
EM Type 7: UTFCEM		----
RUSS1 15	Russell Standard Corporation, 990 Hazel Street, Akron, OH 44305 http://www.russellstandard.com/	
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2018-015Q



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
RUSS3 15	Russell Standard Corporation, Hammaker East, LTD, 118 Siloam Road, Chambersburg, PA 17201	http://www.russellstandard.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2008-172Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 7: UTFCEM		----
RUSS4 15	Russell Standard Corporation, 3580 Wheelertown Road, Waterford, PA 16441	http://www.russellstandard.com/	
Terminal	Wheelertown Terminal Waterford, PA		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
RUSS6 15 Terminal	Russell Standard Corporation, P.O. Box 802, Mars, PA 16046	http://www.russellstandard.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 5: E-1 Prime		----
RUSS7 15 Facility	Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238	http://www.russellstandard.com/	
	3450 Asiatic Avenue Baltimore, MD 21226		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2018-112Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
RUSS8 15	Russell Standard Corporation, 3847 Pottsville Pike, Reading, PA 19605 <i>Formerly Ergon Asphalt & Emulsions, Inc. (ERG01 15)</i>	http://www.russellstandard.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T <i>(Also evaluated per PEQ 2018-114Q)</i>		2018-113Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		-
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		-
	EM Type 4: AEP		-
	EM Type 7: UTFCEM		----
SHSA1 15 Terminal	Shelly & Sands Inc., 3570 South River Road, P. O. Box 1585, Zanesville, OH 43702 S&S Terminal & Emulsions 1731 Old State Route 7 Rayland, OH	http://shellyandsands.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2018-205Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SHSA2 15 Facility	Shelly & Sands, Inc., 3570 South River Road, Zanesville, OH 43702	http://shellyandsands.com/	
	S & S Emulsions 1731 Old SR #7 Rayland, OH 43943		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2018-205Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
SPEEM 15	Specialty Emulsions, Inc., 1194 Zinns Quarry Road, York, PA 17404	http://specialtyemulsionsinc.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2011-084Q
	<i>Product name for NTT: EM-50-TT</i>		
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT1 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	505 Como Park Blvd. Buffalo, NY		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
SUIT2 15 Terminal	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	797 Carlton Drive Bentleyville, PA		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T (Also evaluated per PEQ 2018-158Q & PEQ 2018-159Q)		2018-163Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		2018-160Q



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT3 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-231Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT4 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 20 Fairground Lane Watkins Glen, NY	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT5 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		2018-161Q
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT6 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 New York State Route 19 Belmont, NY	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		2018-143Q
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 10965 McHenry Street Meadville, PA	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-232Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----
	EM Type 7: UTFCEM		----
TERAS 15	Terry Asphalt Materials, Inc., 8 Standen Dr., Hamilton, OH 45015	http://terryasphalt.com/index.html	
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
TSA-1 15	Tri-State Asphalt, LLC, PO Box 470, 1362 Bungalow Road, Morris, IL 60450	https://www.tsasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2018-241Q
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		2018-242Q



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Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 6/24/2020

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

~ [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
VESTA 15	Vestal Asphalt, Inc., 209 Stage Road, Vestal, NY 13850 http://vestalaspalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T <i>(Also evaluated per PEQ 2018-232Q)</i>	2019-075Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P	----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP	----
	EM Type 4: AEP	----
	EM Type 5: E-1 Prime	----
	EM Type 6: EDP	2018-248Q
	EM Type 7: UTFCEM	2018-246Q

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 8/28/2020



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Posted:
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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 8/28/2020

PGAB Grades not listed in Bulletin# 25 (Specifications for Asphalt/Bituminous Materials) are Restricted Use Non-Standard Grades. Materials Testing Laboratory must be contacted prior at (717) 787-2707 to use.

PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
APEX1 15	Apex Oil Company, Inc., 8235 Forsyth Boulevard, Suite 400, St. Louis, MO 63105	http://www.apexoil.com/	
Terminal	1622 South Clinton Street	Baltimore, MD 21224	
	PG 58-28, PG 58S-28		----
	PG 64-22, PG 64S-22		----
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2014-219Q
	PG 76-22, PG 64E-22		2017-070Q
	PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2017-203Q
ASSA1 15	Associated Asphalt, 5201 Causeway Blvd., Tampa, FL 33675	http://associatedasphalt.com/	
Refinery	Associated Asphalt Paulsboro 4 Paradise Road	Paulsboro, NJ 08066-1740	
	(Formerly AXON1 15)		
	PG 58-28		2005-110Q
	PG 58-28 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2009-093Q
	PG 64-22, PG 64S-22		----
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2009-046Q
	PG 76-22, PG 64E-22		----
	PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2009-040Q



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
ASSA2 15 Terminal	Associated Asphalt, 5201 Causeway Blvd., Tampa, FL 33675 Associated Asphalt Baltimore 1955 Chesapeake Avenue Baltimore, MD 21226 PG 64-22, PG 64S-22	http://associatedasphalt.com/	2019-209Q
ASSA3 15 Terminal	Associated Asphalt, 5201 Causeway Blvd., Tampa, FL 33675 Associated Asphalt Baltimore 1800 Frankfurst Avenue Baltimore, MD 21226 (Formerly AXON3 15) PG 58-28, PG 58S-28 PG 58-28, PG 58S-28 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives <i>Terminal for ASSA1 15, Ref. No. 2009-093Q</i> PG 64-22, PG 64S-22 PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives <i>Terminal for ASSA1 15, Ref. No. 2009-046Q</i> PG 76-22, PG 64E-22 PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives <i>Terminal for ASSA1 15, Ref. No. 2009-040Q</i>	http://associatedasphalt.com/	----- 2012-042Q 2008-104Q 2012-045Q ----- 2012-046Q



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
ASSA4 15 Terminal	Associated Asphalt, 5201 Causeway Blvd., Tampa, FL 33675 http://associatedasphalt.com/ Associated Asphalt Perth Amboy 920 High Street Perth Amboy, NJ 08861 (Formerly AXON4 15) PG 64-22, PG 64S-22		-----
ASSA7 15 Terminal	Associated Asphalt, 5201 Causeway Blvd., Tampa, FL 33675 http://associatedasphalt.com/ Associated Asphalt Gloucester [BKEP Materials, LLC] 201 Water Street [King Street & Jersey Avenue] Gloucester City, NJ 08030 (Formerly AXON7 15)		
	PG 58-28, PG 58S-28		2016-284Q
	PG 64-22, PG 64S-22		2009-096Q
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2019-221Q
	PG 76-22, PG 64E-22		2009-097Q
	PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2019-220Q



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702d Performance Grade Asphalt Binder (PGAB)

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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
ASSAS 15	Associated Asphalt, 5201 Causeway Blvd., Tampa, FL 33675	http://associatedasphalt.com/	
Terminal	Associated Asphalt Martinsburg, LLC 855 Corning Way	Martinsburg, WV 25405	
	PG 64-22, PG 64S-22		----
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2019-216Q
	PG 76-22, PG 64E-22		2008-075Q
	PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2019-215Q



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PGAB Grades not listed in Bulletin# 25 (Specifications for Asphalt/Bituminous Materials) are Restricted Use Non-Standard Grades. Materials Testing Laboratory must be contacted prior at (717) 787-2707 to use.

PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

Product	Name	Ref. No.
BIT-0 15	Bitumar USA, Inc., 6000 Pennington Avenue, Baltimore, MD 21226 http://www.bitumar.com/home.html	
	PG 58-28, PG 58S-28	2008-085Q
	PG 58-28, PG 58S-28 Modified with Evotherm® J1 Warm Mix Technology with Anti-Strip Additives	2019-038Q
	PG 58-28, PG 58S-28 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives	2018-281Q
	PG 64-22, PG 64S-22	2008-084Q
	PG 64-22, PG 64S-22 Modified with Evotherm® J1 Warm Mix Technology with Anti-Strip Additives	2019-039Q
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives	2012-181QA
	PG 64-22, PG 64S-22 Modified with Sasobit Warm Mix Technology	2011-118Q
	PG 64-22, PG 64S-22 Modified with SonneWarmix Warm Mix Technology	2013-067Q
	PG 76-22, PG 64E-22	2008-048Q
	PG 76-22, PG 64E-22 Modified with Evotherm® J1 Warm Mix Technology with Anti-Strip Additives	2019-040Q
	PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives	2013-066Q



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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
BIT-3 15 Terminal	Bitumar USA, Inc., 6000 Pennington Avenue, Baltimore, MD 21226 200 Development Drive Inwood, WV 25428 PG 64-22	http://www.bitumar.com/en	2017-330Q
ERIE15 15 Terminal	Erie Materials, Inc., 4507 Tiffin Ave, P.O. Box 2308, Sandusky, OH 44870 Sandusky, OH PG 58-28, PG 58S-28 PG 64-22, PG 64S-22		2016-134Q 2016-135Q
GARD3 15 Terminal	Gardner Asphalt Supply, LLC, 4161 E 7th Ave, Tampa, FL 33605 Seaford Terminal 25938 Nanticoke Street Seaford, DE 19973 PG 64-22, PG 64S-22		2018-173Q
GORM1 15 Terminal	The Gorman Group, LLC, 200 Church Street, Albany, NY 12202 Gorman Terminals Rensselaer, NY PG 64-22, PG 64S-22	http://www.gormanroads.com/	2016-151Q
HAWG1 15 Terminal	Glenn O. Hawbaker, Inc., 1952 Waddle Road, State College, PA 16803 Pleasant Gap, PA PG 58-28, PG 58S-28 PG 64-22, PG 64S-22	http://www.goh-inc.com/	2015-048Q -----



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702d Performance Grade Asphalt Binder (PGAB)

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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
MARA1 15 Refinery	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 11631 US Route 23 Catlettsburg, KY	http://www.marathonpetroleum.com/	
	PG 52-28		----
	PG 64-22, PG 64S-22		----
MARA1015 Terminal	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 21st Street at Nevada St Wellsville, OH 43968	http://www.marathonpetroleum.com/	
	PG 64-22, PG 64S-22		----
MARA2 15 Refinery	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 301 S. Fort St Detroit, MI 48217	http://www.marathonpetroleum.com/	
	PG 52-28		----
	PG 58S-28		2020-183Q
MARA3 15 Refinery	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 2408 Gambinus Avenue, SW Canton, OH 44706	http://www.marathonpetroleum.com/	
	PG 52-28		----
	PG 64-22, PG 64S-22		----
MARA6 15 Terminal	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 11001 Brower Road North Bend, OH 45052	http://www.marathonpetroleum.com/	
	PG 76-22, PG 64E-22		----



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Section 702: Asphalt Material

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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
MARA7 15 Terminal	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 2000 Central Furnace Court Cleveland, OH 44115	http://www.marathonpetroleum.com/	
	PG 58-28, PG 58S-28		----
	PG 64-22, PG 64S-22		----
	PG 76-22, PG 64E-22		----
MARA8 15 Terminal	Marathon Petroleum LLC, 28001 Citrin Drive, Romulus, MI 48174 Floreffe PA Asphalt Terminal 1100 Glasshouse Road Jefferson Hills, PA 15025	http://www.marathonpetroleum.com/	
	PG 64-22, PG 64S-22		----
	PG 76-22, PG 64E-22		----
MDL-2 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 Lyons, NY	http://www.midlandasphalt.com/	
	PG 58-28 <i>Provisionally Approved</i>		----
	PG 64-22 <i>Provisionally Approved</i>		----
	PG 76-22		----



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AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
NJAT1 15 Terminal	CL Consulting and Management Corp, 625 Mt. Hope Road, Wharton, NJ 07885 New Jersey Asphalt Terminals 534 South Front Street Elizabeth, NJ 07202		PG 64-22, PG 64S-22
			2015-156Q
			PG 76-22, PG 64E-22
			2015-157Q
PARCOA15 Terminal	Peckham Industries, Inc., 20 Haarlem Ave, White Plains, NY 10603 http://www.peckham.com/ PARCO - Athens Terminal 2 Union Street Extension Athens, NY 12015		PG 64-22
			2017-051Q
			PG 76-22

PARCOB15 Terminal	Peckham Industries, Inc., 20 Haarlem Ave, White Plains, NY 10603 PARCO - Bronx 939 East 138th Street Bronx, NY 10454		PG 64-22
			2016-240Q
PARCOC15 Terminal	Peckham Industries, Inc., 20 Haarlem Ave, White Plains, NY 10603 http://www.peckham.com/ PARCO - West Athens Terminal 763 Schoharie Turnpike Athens, NY 12015		PG 64-22
			2017-052Q
PARCOD15 Terminal	Peckham Industries, Inc., 20 Haarlem Ave, White Plains, NY 10603 http://www.peckham.com/ PARCO - Bridgeport Terminal 1 Seaview Avenue Bridgeport, CT 06607		PG 64-22
			2017-050Q



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For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
PAUR- 15 Refinery	PBF Holding, LLC, 1 Sylvan Way, Second Floor, Parsippany, NJ 07054 http://www.pbfenergy.com/refineries		
	Paulsboro Refining Company, LLC 800 Billingsport Road Paulsboro, NJ 08066		
	<i>Note: Please use PBFH2 15 as the supplier code</i>		
	PG 58-28		2015-135Q
	PG 64-22		----
PBFH0 15 Terminal	PBF Holding, LLC, 1 Sylvan Way, Second Floor, Parsippany, NJ 07054		
	PBF Logistics Terminal, LLC 3400 S. 67th Street Philadelphia, PA 19153		
	PG 58-28, PG 58S-28		2014-159Q
	PG 58-28, PG 58S-28 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2016-008Q
	PG 64-22, PG 64S-22		----
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2016-007Q
PBFH2 15 Refinery	PBF Holding, LLC, 1 Sylvan Way, Second Floor, Parsippany, NJ 07054 http://www.pbfenergy.com/refineries		
	Paulsboro Refining Company, LLC 800 Billingsport Road Paulsboro, NJ 08066		
	<i>Note: Formerly PAUR- 15</i>		
	PG 58-28		2015-135Q
	PG 64-22, PG 64S-22		----



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AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
RUSS0 15	Russell Standard Corporation, 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137 PG 64-22, PG 64S-22	http://www.russellstandard.com/	----
RUSS9 15 Terminal	Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238 1955 Chesapeake Avenue Baltimore, MD 21226 PG 58-28	http://www.russellstandard.com/	2019-225Q
SHSA1 15 Terminal	Shelly & Sands Inc., 3570 South River Road, P. O. Box 1585, Zanesville, OH 43702 S&S Terminal & Emulsions 1731 Old State Route 7 Rayland, OH PG 64-22, PG 64S-22 PG 76-22, PG 64E-22	http://shellyandsands.com/	----- 2019-124Q
SUIT3 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 Cortland, NY PG 52-28 PG 58-28 PG 64-22 PG 76-22	http://www.suit-kote.com/	----- ----- ----- -----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 8/28/2020

PGAB Grades not listed in Bulletin# 25 (Specifications for Asphalt/Bituminous Materials) are Restricted Use Non-Standard Grades. Materials Testing Laboratory must be contacted prior at (717) 787-2707 to use.

PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

	Product	Name	Ref. No.
SUIT5 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	Jamestown, NY		
	PG 58-28, PG 58S-28		----
	PG 64-22, PG 64S-22		----
	PG 76-22, PG 64E-22		----
SUIT7 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	Cortland, NY		
	PG 52-28		----
	PG 58-28, PG 58S-28		----
	PG 58-28, PG 58S-28 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2013-202Q
	PG 64-22, PG 64S-22		----
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2011-071QB
PG 76-22, PG 64E-22		----	
PG 76-22, PG 64E-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2013-201Q	



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Section 702: Asphalt Material

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	Product	Name	Ref. No.
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	10965 McHenry Street Meadville, PA		
	PG 58-28, PG 58S-28		----
	PG 64-22, PG 64S-22		----
	PG 76-22, PG 64E-22		----
SUIT9 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	3900 River Road Tonawanda, NY 14150		
	PG 58-28, PG 58S-28		2016-124Q
	PG 64-22, PG 64S-22		2016-122Q
	PG 76-22, PG 64E-22		2016-123Q
TRI-1 15 Terminal	All States Construction, LLC, 325 Amherst Road, P.O. Box 91, Sunderland, MA 01375 http://www.asmg.com		
	1 West Van Buren Street Oswego, NY 13126		
	<i>Formerly Tri State Materials</i>		
	PG 64-22, PG 64S-22		----
	<i>Provisionally Approved</i>		



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

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	Product	Name	Ref. No.
TRI-2 15 Terminal	All States Construction, LLC, 325 Amherst Road, P.O. Box 91, Sunderland, MA 01375 301 Normanskill Street Albany, NY 12202 <i>Formerly All States Asphalt, LLC</i>	http://www.asmg.com	
	PG 58-28, PG 58S-28		----
	PG 64-22, PG 64S-22		----
UNRC0 15	United Refining Company, P.O. Box 780, Warren, PA 16365	http://www.urc.com/	
	PG 52-28		----
	PG 58-28, PG 58S-28		----
	PG 58-28, PG 58S-28 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2012-021QA
	PG 58-28, PG 58S-28 Modified with SonneWarmix RT Warm Mix Technology		2017-229Q
	PG 64-22, PG 64S-22		----
	PG 64-22, PG 64S-22 Modified with Evotherm® M1 Warm Mix Technology with Anti-Strip Additives		2012-021QB
	PG 64-22, PG 64S-22 Modified with SonneWarmix RT Warm Mix Technology		2017-228Q
UNRC1 15 Terminal	United Refining Company, 15 Bradley Street, P.O. Box 780, Warren, PA 16365-0780 Springdale Terminal Springdale, PA	http://www.urc.com/	
	PG 64-22, PG 64S-22		----



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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PGAB Supplier Requirements: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 320 PGAB Grades: PG 58-28, PG 64-22, PG 76-22

AASHTO M 332 PGAB Grades: PG 58S-22, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme)

For contracts specifying an AASHTO M 332 MSCR grade (PG 58S-28, PG 64S-22, or PG 64E-22), an AASHTO M 320 grade (PG 58-28, PG 64-22, or PG 76-22) can not be used in its place.

Product	Name	Ref. No.
WARMA 15	Warden Modified Asphalt L.P., 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137 http://wardenasphalt.com/	
PG 64-22, PG 64S-22		----
PG 76-22, PG 64E-22		----



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Qualified Products List for Construction

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Section 704: Cement Concrete

704 Producers of Ready Mix Concrete

See Bulletin 42, [Publication 42](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 705: Joint Material

705.1 Premolded Expansion Joint Filler

Last Revised: 4/10/2020

	Product	Name	Ref. No.
DODGE 15	Dodge-Regupol, Inc., 715 Fountain Ave., Lancaster, PA 17601 http://regupol.com/		
	Cork	CEJ 6510	1993-019
HUNTN 15	Hunton Fiber, P.O. Box 578, Grasonville, MD 21638 http://english.hunton.no/index.php		
	Fiber	Nor-Board	2000-047Q
JDRSC 15	J.D. Russell Company, P.O. Box 36795, 4075 N. Hwy Dr., Tucson, AZ 85740 http://jdrussellco.com/#!/		
	Preformed Rubber	Reflex	2000-243Q
KNICE 15	Knight - Celotex, One Northfield Plaza, Suite 400, Northfield, AZ 60093 https://knightcelotexfiberboard.wordpress.com/		
	Fiber	Conflex Bituminous	1994-217
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Cork	Sealtight Cork	----
	Fiber	Sealtight Fibre	----
	Preformed Rubber	Sealtight Sponge	----
MEDW1 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Plant	2100 Monroe Street P. O. Box 7550 York, PA 17404-0550		
	Cork	Sealtight Cork	----
	Fiber	Sealtight Fibre	----
	Preformed Rubber	Sealtight Sponge	----
MONAR 15	Monarch Rubber Company, 3500 Pulaski Highway, Baltimore, MD 21224 http://rubbermasters.in/		
	Preformed Rubber	Geno 40 #1624	1988-026
NOMAC 15	Nomaco, Inc., 501 Innovative Way, Zebulon, NC 27597 http://www.nomaco.com/		
	Preformed Polypropylene Foam Expansion Joint Filler	Nomaflex	2016-278



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 705: Joint Material

705.1 Premolded Expansion Joint Filler

Last Revised: 4/10/2020

	Product	Name	Ref. No.
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafcoc, Inc.</i>		
	Fiber	Right-Joint	1997-047
STEIC 15	Steico SE, Otto-Lilienthal-Ring 30, Feldkirchen, Germany		
	Fiber	Form Flex Expansion Joint	2017-088Q
TEMIN 15	Temple - Inland, 303 S. Temple Drive, Diboll, TX 75941		
	Fiber	Fiberflex	----

705.2(b) Longitudinal Joint Material

Last Revised: 6/18/2019

	Product	Name	Ref. No.
MIDPA 15	Mid-Park, Inc., 1021 Salt River Rd., Leitchfield, KY 42754 http://mid-park.com/		
	Tie Bolt	Standard Hook	1986-309
	Tie Bolt	Wiggle Bolt	1986-308
SIMP1 15	Simplex Construction Supplies, Inc., 2150B South Route 45-52, Kankakee, IL 60901 https://www.simplex-usa.com/ <i>Formerly Dayton Superior Corporation (DAYT5 15)</i>		
	Tie Bolt	Hook Bolt and Coupler	1994-066A
	Tie Bolt	Wiggle Bolt and Coupler	1994-066B
SOEBS 15	Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 http://www.sebolt.com/index.html		
	Tie Bolt	Standard Hook	1991-118
UNIQU 15	Unique Industries, P.O. Box 683, 13488 Highway 25 North, Calera, AL 35040 http://www.uiind.com/		
	Tie Bolt		1999-002Q
WADY- 15	Wady Industries, Inc., 510 E. Grove St., Maquoketa, IA 52060		
	Tie Bolt	Wiggle Bolt (Slip Form)	1990-333B



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 705: Joint Material

705.3 Load Transfer Assemblies (Force-Transfer Units) for Reinforced and Plain Cement Concrete Pavement Last Revised: 6/18/2019

A Load Transfer Assembly includes contraction/expansion wire baskets and dowel bars. An approved supplier of Load Transfer Assemblies can supply the baskets without the dowels. [Standard Drawing of Load Transfer Assemblies RC-20M \(Publication 72M\)](#)

Steel Products Procurement Act applies. Manufacturers approved for 6:1 skewed and non-skewed joints with Type B coating, unless otherwise noted.

	Product	Name	Ref. No.
CMTH1 15	CMT Highway, LLC, 2197 Yankee Avenue, Durant, IA 52747 http://cmthighway.com/		
	Dowel Bars, Fabricator		2017-316Q
	Load Transfer Assembly		2017-316Q
CONTM 15	Contractors Materials Company, 10320 South Medallion Drive, Cincinnati, OH 45241 http://cmcmmi.com/		
	Dowel Bars, Fabricator		2015-178Q
DAYT4 15	Dayton Superior Corporation, 4201 Montdale Drive, Valparaiso, IN 46383 http://www.daytonsuperior.com/ <i>Formerly Block Heavy & Highway Products Company (BH&HP 15)</i>		
	Dowel Bars, Epoxy Coater		2000-343Q
	Dowel Bars, Fabricator		2000-344Q
	Load Transfer Assembly		2000-344Q
MDSP2 15	Meadow Burke Products, 6467 S. Falkenburg Road, Riverview, FL 33578 http://meadowburke.com/		
	Dowel Bars, Epoxy Coater		----
	Dowel Bars, Fabricator		----
	Load Transfer Assembly		----
SIMP1 15	Simplex Construction Supplies, Inc., 2150B South Route 45-52, Kankakee, IL 60901 https://www.simplex-usa.com/ <i>Formerly Dayton Superior Corporation (DAYT5 15)</i>		
	Dowel Bars, Epoxy Coater		1996-160
	Dowel Bars, Fabricator		----
	Load Transfer Assembly		----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 705: Joint Material

705.3 Load Transfer Assemblies (Force-Transfer Units) for Reinforced and Plain Cement Concrete Pavement Last Revised: 6/18/2019

A Load Transfer Assembly includes contraction/expansion wire baskets and dowel bars. An approved supplier of Load Transfer Assemblies can supply the baskets without the dowels. [Standard Drawing of Load Transfer Assemblies RC-20M \(Publication 72M\)](#)

Steel Products Procurement Act applies. Manufacturers approved for 6:1 skewed and non-skewed joints with Type B coating, unless otherwise noted.

Product	Name	Ref. No.
TYEBR 15 Facility	TyE Bar, LLC, 1050 Ohio Avenue, Glassport, PA 15045 http://www.tyerebar.com/	
	1050 Ohio Avenue Glassport, PA 15045	
	Dowel Bars, Fabricator	2015-084Q
	Load Transfer Assembly	2016-141Q
VIMC- 15	Vimco, Inc., 300 Hansen Access Road, King of Prussia, PA 19406 http://vimcoinc.com/	
	Dowel Bars, Fabricator	2012-242Q
	Load Transfer Assembly	2012-242Q
WADY- 15	Wady Industries, Inc., 510 E. Grove St., Maquoketa, IA 52060	
	Dowel Bars, Epoxy Coater	1996-110
	Dowel Bars, Fabricator	1982-059
	Load Transfer Assembly	1982-059

705.3(f) High Performance Dowel Bars

Last Revised: 10/8/2020

Product	Name	Ref. No.	
JAR-1 15 Plant	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://jardenzinc.com/		
	2500 Old Stage Road Greeneville, TN 37744		
	Rolled Zinc Alloy Tubular Dowel Bar	LifeDowel, Type 2 (1.445" OD)	2016-164Q
	<i>Outside diameter of the approved dowel bar with zinc sleeve is 1.445". Proper galvanized end caps must be supplied to the project (0.06 oz/ft²).</i>		
	Rolled Zinc Alloy Tubular Dowel Bar	LifeDowel, Type 2 (1.695" OD)	2016-164Q
	<i>Outside diameter of the approved dowel bar with zinc sleeve is 1.695". Proper galvanized end caps must be supplied to the project (0.06 oz/ft²).</i>		

705.4(a) Silicone Joint Sealing Material

Last Revised: 2/13/2018



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Section 705: Joint Material

705.4(a) Silicone Joint Sealing Material

Last Revised: 2/13/2018

	Product	Name	Ref. No.
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040		
	Silicone	Roadsaver Non-Sag Silicone (34902)	2000-110Q
DOW-4 15	The Dow Chemical Company, 2200 W. Salzburg Road, P. O. Box 994, Midland, MI 48686 http://www.dow.com/ <i>Formerly Dow Corning Corporation</i>		
	Silicone	DOWSIL 888 Silicone Joint Sealant	1996-002
SIKA4 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Lakewood, NJ		
	Silicone	Sikasil 728 NS	2012-210Q
TREM2 15	Tremco, Inc., 3755 Green Road, Beachwood, OH 44122 http://tremcoinc.com/		
	Silicone	Spectrem 800 Low Modulus Silicone	2001-123Q

705.4(b) Rubberized Joint Sealing Material (ASTM D6690-Type II and IV)

Last Revised: 7/2/2019

Use ASTM D6690-Type II for sealing asphalt pavement joints and ASTM D6690-Type IV for all other joint sealing applications.

	Product	Name	Ref. No.
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040		
	Type IV, ASTM D6690	RoadSaver 231	1999-047Q
CRAF2 15	Crafco, Inc., 1680 East Race Street, Allentown, PA 18103 http://www.crafco.com/		
	Type II, ASTM D6690	Flex-A-Fill 9005	2016-256Q
	Type II, ASTM D6690	Roadsaver 221	2008-128QB
	Type IV, ASTM D6690	RoadSaver 231	1999-047Q



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Section 705: Joint Material

705.4(b) Rubberized Joint Sealing Material (ASTM D6690-Type II and IV)

Last Revised: 7/2/2019

Use ASTM D6690-Type II for sealing asphalt pavement joints and ASTM D6690-Type IV for all other joint sealing applications.

	Product	Name	Ref. No.
CRAF4 15	Crafco, Inc. (Deery Brand), 912 Salt Springs Road, Youngstown, OH 44509 http://www.deeryamerican.com/ Formerly Deery American Corporation (DEERY 15)		
	Type II, ASTM D6690	Deery 102	2008-129A
	Type IV, ASTM D6690	Deery 101	1999-113
MAXPR 15	Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com		
	Type II, ASTM D6690	Elastoflex 61	2015-106Q
MCASP 15	McAsphalt Industries Limited, 8800 Sheppard Avenue, East, Scarborough, Ontario Canada http://www.mcasphalt.com/		
	Type II, ASTM D6690	Beram 195	2008-130QA
	Type IV, ASTM D6690	Beram 195 LM	1998-079Q
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Type II, ASTM D6690	3405 (Sealtight)	2008-131Q
	Type IV, ASTM D6690	3405-M	2000-029Q
P&TPR 15	P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 http://www.p-tproductsinc.com/		
	Type II, ASTM D6690	Dura-Fill 3405	2008-124QA
	Type IV, ASTM D6690	Dura-Fill 3405 LM (K)	1999-112Q
RTPT2 15 Facility	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ Sharpville, PA Effective October 19, 2020, acquired by Crafco, Inc.		
	Type II, ASTM D6690 <i>Formerly #3405 Regular</i>	RP 3405	2016-300Q
	Type IV, ASTM D6690 <i>Formerly #3405 Modified</i>	RP Type 4 ELT	2004-049Q



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Section 705: Joint Material

705.4(b) Rubberized Joint Sealing Material (ASTM D6690-Type II and IV)

Last Revised: 7/2/2019

Use ASTM D6690-Type II for sealing asphalt pavement joints and ASTM D6690-Type IV for all other joint sealing applications.

	Product	Name	Ref. No.
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by CrafcO, Inc.</i>		
	Type II, ASTM D6690 <i>Formerly #3405 Regular</i>	RP 3405	2008-161QB
	Type IV, ASTM D6690 <i>Formerly #3405 Modified</i>	RP Type 4 ELT	2004-049Q

705.4(c) Rubberized Joint Sealing Material (ASTM D6690-Type I)

Last Revised: 7/2/2019

	Product	Name	Ref. No.
CRAF2 15	CrafcO, Inc., 1680 East Race Street, Allentown, PA 18103 http://www.crafcO.com/		
	Type I, ASTM D 6690	Roadsaver 211	2008-128Q
CRAF4 15	CrafcO, Inc. (Deery Brand), 912 Salt Springs Road, Youngstown, OH 44509 http://www.deeryamerican.com/ <i>Formerly Deery American Corporation (DEERY 15)</i>		
	Type I, ASTM D 6690	Deery 103	2008-129B
	Type I, ASTM D 6690 <i>Conditionally approved for use according to the manufacturer's specifications and usage guidelines.</i>	Level and Go Repair Mastic	2002-129
MAXPR 15	Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com		
	Type I, ASTM D 6690	Elastoflex 410	2016-185Q
MCASP 15	McAsphalt Industries Limited, 8800 Sheppard Avenue, East, Scarborough, Ontario Canada http://www.mcasphalt.com/		
	Type I, ASTM D 6690	Beram 190	2008-130QB
P&TPR 15	P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 http://www.p-tproductsinc.com/		
	Type I, ASTM D 6690	Dura-Fill 1190	2008-124QB



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Section 705: Joint Material

705.4(c) Rubberized Joint Sealing Material (ASTM D6690-Type I)

Last Revised: 7/2/2019

	Product	Name	Ref. No.
RTPT2 15 Facility	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ Sharpsville, PA <i>Effective October 19, 2020, acquired by Crafc0, Inc.</i>		
	Type I, ASTM D 6690 <i>Formerly #1190</i>	RP 1190	2016-301Q
	Type I, ASTM D 6690 <i>RP Gray Sealant is gray in color and composed of non-asphaltic resins; therefore, it must not be mixed or combined with other approved crack sealant products.</i>	RP Gray Sealant	2017-195Q
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafc0, Inc.</i>		
	Type I, ASTM D 6690 <i>Formerly #1190</i>	RP 1190	2010-209Q
UPMCP 15	Unique Paving Materials Corporation, 3993 East 93rd Street, Cleveland, OH 44105-4096 http://www.uniquepavingmaterials.com/		
	Type I, ASTM D 6690 <i>Conditionally approved for use according to the manufacturer's specifications and usage guidelines.</i>	Kold-Flo Joint Sealant	2006-074

705.4(d)1.a Preformed Neoprene Compression Seals and Strip Seals

Last Revised: 10/16/2020

	Product	Name	Movement Class	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/			
	Bridge Seal	CA-5001	2.5 in.	1993-271
	Bridge Seal	CA-6000 (6")	3.0 in.	1994-300
	Bridge Seal	CV-1625	0.5 in.	1989-233
	Bridge Seal	CV-1752	0.5 in.	2013-107Q
	Bridge Seal	CV-2000	0.5 in.	1989-161
	Bridge Seal	CV-2250	0.5 in.	2013-108Q
	Bridge Seal	CV-2502	1.0 in.	1989-071
	Bridge Seal	CV-3000	1.0 in.	1989-162



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Section 705: Joint Material

705.4(d)1.a Preformed Neoprene Compression Seals and Strip Seals

Last Revised: 10/16/2020

Product	Name	Movement Class	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	Bridge Seal	CV-3500	1.5 in. 1989-054
	Bridge Seal	CV-4000	1.5 in. 1989-168
	Bridge Seal	CV-5000	2.0 in. 1991-130
	Bridge Seal	CV-6000	2.5 in. 1989-035
	Bridge Seal	CV-6000-A	2.5 in. 1992-002
	Bridge Seal	K-4000	2.0 in. 1993-273
	Bridge Seal	V-1625	0.5 in. 1993-030
	Strip Seal Gland	A2R-400	4.0 in. 2004-162Q
	Strip Seal Gland	A2R-EXTRA	7.0 in. 2004-165Q
	Strip Seal Gland	E2M, WB-400	4.0 in. 2004-163Q
	Strip Seal Gland	L2-400	4.0 in. 2004-166Q
	Strip Seal Gland	L2-500	5.0 in. 2004-164Q
	Strip Seal Gland	SE-300	3.0 in. 2009-195Q
	Strip Seal Gland	SE-400	4.0 in. 2009-196Q
	Strip Seal Gland	SE-500	5.0 in. 2009-197Q



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Section 705: Joint Material

705.4(d)1.a Preformed Neoprene Compression Seals and Strip Seals

Last Revised: 10/16/2020

Product	Name	Movement Class	Ref. No.
TRE-1 15 Plant	Trelleborg Sealing Profiles US Inc., 285 Lena Drive, Aurora, OH 44202 <u>http://www.trelleborg.com/en/</u> Streetsboro, OH <i>Licensing Company: Watson Bowman Acme (BASF)</i>		
	Bridge Seal	Wabo CompressionSeal WA-175	0.5 in. 2010-222QA
	Bridge Seal	Wabo CompressionSeal WA-200	1.0 in. 2010-222QB
	Bridge Seal	Wabo CompressionSeal WA-250	1.0 in. 2010-222QC
	Bridge Seal	Wabo CompressionSeal WA-300	1.5 in. 2010-222QD
	Bridge Seal	Wabo CompressionSeal WA-350	1.5 in. 2010-222QE
	Bridge Seal	Wabo CompressionSeal WA-400	2.0 in. 2010-222QF
	<i>Wabo CompressionSeal Technical Data Sheet for WA-175, WA-200, WA-250, WA-300, WA-350, and WA-400</i> <u>Wabo CompressionSeal Technical Data Sheet</u>		
	Strip Seal Gland	Wabo StripSeal SE-300	3.0 in. 2009-087Q
	Strip Seal Gland	Wabo StripSeal SE-400	4.0 in. 2009-152Q
	Strip Seal Gland	Wabo StripSeal SE-500	5.0 in. 2009-153Q
	Strip Seal Gland	Wabo StripSeal SE-800	8.0 in. 2013-169Q
	<i>Wabo StripSeal Technical Data Sheet for SE-300, SE-400, SE-500, and SE-800</i> <u>Wabo StripSeal Technical Data Sheet</u>		

705.4(d)1.b Lubricant Adhesive

Last Revised: 9/20/2018

Product	Name	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 <u>http://www.dsbrown.com/</u>	
	Lubricant Adhesive	DSB 1520 Lubricant Adhesive
	<i>Manufactured for D.S. Brown by ChemMasters. Product originally named Delastibond 1520.</i>	
		1992-101



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Section 705: Joint Material

705.4(d)1.b Lubricant Adhesive

Last Revised: 9/20/2018

Product	Name	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/		
Lubricant Adhesive	Adhesive Lubricant 105	----
Lubricant Adhesive	Lube Plus 4070	1995-100
RASCP 15 Royal Adhesives and Sealants, 2001 W Washington Street, South Bend, IN http://www.royaladhesives.com/ Plant 266 Humberline Drive Toronto, Ontario, Canada M9W 5X1		
Lubricant Adhesive <i>Manufactured for D.S. Brown by Royal Adhesives & Sealants.</i>	D.S. Brown DSB 1520	2016-207Q

705.4(e) Preformed Closed Cell Polyethylene Joint Filler

Last Revised: 3/5/2015

Product	Name	Ref. No.
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 1"	1986-123B
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 1/2"	1986-261ABC
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 2"	1986-261ABC
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 3/4"	1986-261ABC

705.4(g) Asphalt Rubber Sealing Compound

Last Revised: 7/2/2019

Product	Name	Ref. No.
CRAF2 15 Crafc0, Inc., 1680 East Race Street, Allentown, PA 18103 http://www.crafco.com/		
Asphalt Rubber Sealing Compound	Asphalt Rubber Type 2, Part No. 34232	1999-074Q
Asphalt Rubber Sealing Compound	PolyFlex 601	2019-006Q
Asphalt Rubber Sealing Compound	PolyFlex Type 2, Part No. 34518	2016-033Q



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Section 705: Joint Material

705.4(g) Asphalt Rubber Sealing Compound

Last Revised: 7/2/2019

Product	Name	Ref. No.
CRAF4 15 Crafco, Inc. (Deery Brand), 912 Salt Springs Road, Youngstown, OH 44509 http://www.deeryamerican.com/ <i>Formerly Deery American Corporation (DEERY 15)</i>		
Asphalt Rubber Sealing Compound	Deery 5078	1999-060Q
Asphalt Rubber Sealing Compound	PolyFlex 601	2019-021Q
MAXPR 15 Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com		
Asphalt Rubber Sealing Compound	Elastoflex 650	2016-186Q
MCASP 15 McAsphalt Industries Limited, 8800 Sheppard Avenue, East, Scarborough, Ontario Canada http://www.mcasphalt.com/		
Asphalt Rubber Sealing Compound	Beram Asphalt Rubber (AR)	2000-048Q
P&TPR 15 P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 http://www.p-tproductsinc.com/		
Asphalt Rubber Sealing Compound	Dura_Fill 5078	2003-044Q
RTPT2 15 RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ Facility Sharpsville, PA <i>Effective October 19, 2020, acquired by Crafco, Inc.</i>		
Asphalt Rubber Sealing Compound <i>Formerly #5078</i>	RP 5078	2016-302Q
RTPTC 15 RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafco, Inc.</i>		
Asphalt Rubber Sealing Compound <i>Formerly #5078</i>	RP 5078	2010-112Q
ULSCP 15 Ultra Seal Construction Products, 5309 Maingate Drive, Mississauga, Ontario, Canada L4W 1G6 http://www.ultrasealproducts.com/		
Asphalt Rubber Sealing Compound	Ultraseal 1197	1998-200

705.4(alternate) Precompressed, Silicone-and-Foam Hybrid Joint Sealing Material

Last Revised: 7/6/2017

The product listing below is conditionally approved as an alternate system to Joint Sealant Material as specified in Publication 408, Section 705.4.



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Section 705: Joint Material

705.4(alternate) Precompressed, Silicone-and-Foam Hybrid Joint Sealing Material

Last Revised: 7/6/2017

The product listing below is conditionally approved as an alternate system to Joint Sealant Material as specified in Publication 408, Section 705.4.

Product	Name	Ref. No.
EMSEAL15 EMSEAL, A Sika Company, (EMSEAL Joint Systems, Ltd.), 25 Bridle Lane, Westborough, MA 01581 http://www.emseal.com/		
Precompressed, Silicone-and-Foam Hybrid	BEJS (Bridge Expansion Joint System)	2012-030
<i>Conditionally approved per the manufacturer's specifications and usage guidelines. BEJS Tech Data, Install Data, and Checklist</i>		

705.5(b) Gaskets for Circular Pipe Joints

Last Revised: 10/16/2020

Product	Name	Ref. No.
CONSE 15 Concrete Sealants, Inc., 9325 State Route 201, Tipp City, OH 45371 http://www.conseal.com/		
Flexible Plastic Gasket (Hydrocarbon Blend)	ConSeal CS-102	1984-140
Flexible Plastic Gasket (Hydrocarbon Blend)	ConSeal CS-202	1984-140A
CUSTM 15 Custom Rubber Extrusions, 100 Romito Street, P.O. Box 1079, Ravenna, OH 44266		
Elastomeric Gasket	Neoprene and Isoprene Gaskets	1996-019
FORSH 15 Forsheda Pipe Seal Corporation, 2200 South McDuffie St., Anderson, SC 29624		
Elastomeric Gasket <i>Prelubricated Utility Hole Joint Seal</i>	Forsheda F-114	1990-238A
Elastomeric Gasket <i>Prelubricated Utility Hole Joint Seal</i>	Forsheda F-138	1990-237
HAML 15 Hamilton Kent, 77 Carlingview Drive, Etobicoke, Ontario M9W 5E6 Canada		
Elastomeric Gasket	Tylox (O-Rings)	----
Elastomeric Gasket	Tylox Superseal Gasket	1997-192
PSEAL 15 Press-Seal Gasket Corporation, 2424 West State Blvd., Fort Wayne, IN 46808 http://www.press-seal.com/		
Elastomeric Gasket	O-Ring Concrete Pipe Gasket	2014-234Q
Elastomeric Gasket	RFS Prelubricated Concrete Pipe Gasket	2014-233Q



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Section 705: Joint Material

705.5(b) Gaskets for Circular Pipe Joints

Last Revised: 10/16/2020

Product	Name	Ref. No.
RINMA 15 Rinker Materials, 1627 Oakbrook Parkway, Gainesville, GA 30507 http://www.rinkerpipe.com/ Elastomeric Gasket	Delta Seal Rubber Profile Gasket	2009-100QA
RU-VA 15 Ru Van, Inc., 1175 Diamond Ave., Evansville, IN 47711 Flexible Plastic Gasket (Hydrocarbon Blend)	RU-30 Butyl Sealant	1990-042
TRE-2 15 Plant Trelleborg Pipe Seals, 250 Elm St., P.O. Box 301, Milford, NH 03055 http://www.trelleborg.com/pipe-seals Bonne Terre, MO 63628 <i>Formerly Bidco Sealants (BIDC- 15)</i> Flexible Plastic Gasket (Hydrocarbon Blend)	Trelleborg C-56 Preformed Joint Sealant	1990-206
VERTI 15 Vertex, Inc., 3956 Industrial Parkway, Mogadore, OH 44260-1201 http://www.vertexinc.com/ Elastomeric Gasket	Ecoproof Bell Gasket	2007-008Q
Elastomeric Gasket	Rubberman O-Ring Gasket	1997-072
Elastomeric Gasket	Star Seal	1997-056

705.5(c)2 Waterstops (Polyvinyl Chloride)

Last Revised: 2/14/2018

Product	Name	Ref. No.
DURAJ 15 Durajoint Concrete Accessories, 10421 Industrial Drive, Garrettsville, OH 44231 http://www.durajoint.com/ Polyvinyl Chloride Waterstop	Durajoint Type 12 RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 18 RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 27	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 29A RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 29RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 36 RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 3A	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 4	1999-219Q
Polyvinyl Chloride Waterstop	Durajoint Type 4B	1999-219Q
Polyvinyl Chloride Waterstop	Durajoint Type 5	2017-244Q



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Section 705: Joint Material

705.5(c)2 Waterstops (Polyvinyl Chloride)

Last Revised: 2/14/2018

Product	Name	Ref. No.
DURAJ 15 Durajoint Concrete Accessories, 10421 Industrial Drive, Garrettsville, OH 44231 http://www.durajoint.com/		
Polyvinyl Chloride Waterstop	Durajoint Type 7	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type DB-2	2017-244Q
GREES 15 Sika Greenstreak, 3400 Tree Court, Industrial Boulevard, Box 7139, St. Louis, MO 63177 http://usa.sika.com/		
Polyvinyl Chloride Waterstop	Model 698	----
Polyvinyl Chloride Waterstop	Model 701	----
Polyvinyl Chloride Waterstop	Model 703	----
Polyvinyl Chloride Waterstop	Model 705	----
Polyvinyl Chloride Waterstop	Model 709	----
Polyvinyl Chloride Waterstop	Model 748	----
SOUMP 15 Southern Metal & Plastic Products, 3400 Tree Court Ind. Blvd., St. Louis, MO 63122 http://sometals.com/		
Polyvinyl Chloride Waterstop	15 RCB	2006-025Q
WATER 15 Waterstop & Accessories, 3400 Tree Court Indus. Blvd., St. Louis, MO 63122		
Polyvinyl Chloride Waterstop	RB6-316 (type C1)	2000-009Q
Polyvinyl Chloride Waterstop	RSB6-316 (type C2)	2000-009Q
Polyvinyl Chloride Waterstop	TWB6-18 (type E2)	2000-009Q

705.6 Graphite Lubricant

Last Revised: 5/31/2019

The graphite lubricants are only approved for use on projects with let dates prior to October 4, 2019. Graphite lubricants were removed from Publication 408, 2016 with Change No. 7.

Product	Name	Ref. No.
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Graphite Lubricant	Sure-Slip Graphite Paste	1992-340
VEXCN 15 Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Aquired by ChemMasters, Inc.</i>		
Graphite Lubricant	Certi-Vex Sure Slide	2011-247Q



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Section 705: Joint Material

705.7(b)/705.6(b) Mortar For Masonry and Horizontal Joints Between Precast Components in Utility I

Last Revised: 11/2/2017

	Product	Name	Ref. No.
BUZZ1 15 Plant	Buzzi Unicem USA Stockertown, 501 Hercules Drive, P. O. Box 69, Stockertown, PA 18083 http://www.buzziunicemusa.com/ Stockertown, PA		
	Mortar (Masonry Joints and Horizontal Joints Between Manholes (Utility Holes)/Inlet Components)	Type N	2017-218Q
CEMX6 15 Plant	Fairborn Cement Company (Eagle Materials, Inc.), 3811 Turtle Creek Blvd, Suite 1100, Dallas, TX 75219 http://www.eaglematerials.com 3250 Linebaugh Road Xenia, OH 45385 (Formerly CEMEX, Inc.)		
	Mortar (Masonry Joints and Horizontal Joints Between Manholes (Utility Holes)/Inlet Components)	Type N	2010-233QC
LEH-9 15 Plant	Lehigh Cement Company, LLC, 3938 Easton Nazareth Highway, Nazareth, PA 18064 http://www.lehighhanson.com/ 3938 Easton Nazareth Highway Nazareth, PA 18064 (Formerly Essroc ESS-7 15)		
	Mortar (Masonry Joints and Horizontal Joints Between Manholes (Utility Holes)/Inlet Components)	Type N	2002-109Q

705.8(a)/705.7(a) Caulking Compound (Pipe and Horizontal Joints Between Precast Components in I

Last Revised: 6/29/2015

	Product	Name	Ref. No.
SEABD 15	Seaboard Asphalt Products Company, 3601 Fairfield Road, Baltimore, MD 21226 http://seaboardasphalt.com/		
	Caulking (Pipe Joints and Horizontal Joints Between Manholes (Utility Holes)/Inlet Components)	MP-52	1994-206

705.8(b)/705.7(b) Caulking Compound (Other)

Last Revised: 11/2/2020

	Product	Name	Ref. No.
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html		
	Caulking (Other)	MasterSeal NP 1	1990-185



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Section 705: Joint Material

705.8(b)/705.7(b) Caulking Compound (Other)

Last Revised: 11/2/2020

Product	Name	Ref. No.
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html <i>Effective 10/30/2020, the new supplier code for MasterSeal NP 1 is MBS13 15. Previous Name: Sonolastic NP 1</i>	
DOW-4 15	The Dow Chemical Company, 2200 W. Salzburg Road, P. O. Box 994, Midland, MI 48686 http://www.dow.com/ Formerly Dow Corning Corporation Caulking (Other)	DOWSIL 790 Silicone Sealant 1993-235
MBS13 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 10601 Fulton Street Brighton, CO 80601 Formerly BASF Building Systems (BASBS 15) Caulking (Other) <i>Previous Name: Sonolastic NP 1</i>	MasterSeal NP 1 1990-185
PECCR 15	Pecora Corporation, 165 Wambold Road, Harleysville, PA 19438 http://pecora.com/ Caulking (Other) Caulking (Other) Caulking (Other)	Dynatrol I-XL Polyurethane NR-300 Urexpam Polyurethane Pecora 864 Silicone 2000-283Q 2000-282Q 2000-286Q
SCHMH 15	Schnee-Morehead, Inc., 111 North Nursery Road, P.O. Box 171305, Irving, TX 75017-1305 http://schneemorehead.com/ Caulking (Other)	SM7108 Permathane 1999-003Q
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071 Caulking (Other) Caulking (Other)	Sikaflex 15LM Polyurethane Sikaflex 1a 2000-126Q 1982-035
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302 Caulking (Other)	Sikaflex 1a 1982-035



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Section 705: Joint Material

705.8(b)/705.7(b) Caulking Compound (Other)

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	Product	Name	Ref. No.
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	Lyndhurst, NJ		
	Caulking (Other)	Sikaflex 15LM Polyurethane	2000-126Q
	Caulking (Other)	Sikaflex 1a	1982-035
SIKA4 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	Lakewood, NJ		
	Caulking (Other)	Sikaflex 1a	1982-035
	Caulking (Other)	Sikasil WS-290 (Type S Grade NS CL 100/50)	2013-032Q
	Caulking (Other)	Sikasil WS-295 (Type S Grade NS CL 50)	2013-031Q
TREM2 15	Tremco, Inc., 3755 Green Road, Beachwood, OH 44122 http://tremcoinc.com/		
	Caulking (Other)	Tremco Dymonic FC	2007-033Q

705.9/705.8 Joint Backing Material

Last Revised: 11/22/2019

	Product	Name	Ref. No.
ALCOT 15	Alcot Plastics Ltd., 31 Malcolm Rd., Guelph, ON Canada N1K 1A7 https://alcotplastics.com/		
	Joint Backing Material <i>Cold Application Only</i>	Alcot Standard Backer Rod	2018-221Q
INDUS 15	Industrial Thermo Polymers Limited, 153 Van Kirk Drive, Brampton, Ontario, Canada		
	Joint Backing Material	Blue-Grey, Closed Cell PE Foam	1991-172
	Joint Backing Material	Hot Rod XL (Black Cross Linked)	1991-173
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Joint Backing Material	Cera-Rod (Heat Resistant)	1986-026
	Joint Backing Material	Deck-O-Foam (Cold Application Only)	1998-050



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Section 705: Joint Material

705.9/705.8 Joint Backing Material

Last Revised: 11/22/2019

Product	Name	Ref. No.
NOMAC 15 Nomaco, Inc., 501 Innovative Way, Zebulon, NC 27597 http://www.nomaco.com/		
Joint Backing Material	HBR Backer Rod (Cold Application Only)	2001-177Q
Joint Backing Material	HBR XL Backer Rod (Cold or Hot Applied)	2001-178Q
Joint Backing Material	Sof Rod (Cold Application Only)	1995-182



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Section 706: Concrete Bonding Compound

Type I - Non-load bearing applications, bonding hardened concrete (28 days or older) to hardened concrete surfaces

Type II - Non-load bearing applications, bonding freshly mixed concrete to hardened concrete

Type III - For bonding skid-resistant materials to hardened concrete and as a binder in epoxy mortars or epoxy concretes used on traffic bearing surfaces

Type V - Load bearing applications, bonding fresh concrete to hardened concrete

Grade 1 - Low viscosity;

Grade 2 - Medium viscosity;

Grade 3 - Non-sagging consistency

Class A - For use below 40F, to the lowest allowable temperature defined by manufacturer

Class B - For use between 40F and 60F

Class C - For use above 60F, to the highest allowable temperature defined by manufacturer

706.1 Epoxy Bonding Compound (ASTM C881)

Last Revised: 11/2/2020

	Product	Name	Epoxy Class	Ref. No.
ADHTC 15	Adhesives Technology Corporation, 450 East Copans, Pompano Beach, FL 33064 http://www.atcepoxy.com/			
	Type I, Grade 1	CRACKBOND LR-321	C	2016-101
	Type I, Grade 2	CRACKBOND 2100 MV		2009-095Q
	<i>MV = Medium Viscosity; Formerly ULTRABOND 2100</i>			
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html			
	Type I, Grade 1	MasterInject 1380		1975-040
	<i>Effective 10/30/2020, new supplier code for MasterInject 1380 is MBS12 15. Previous Name: Concessive 1380</i>			
	Type I, Grade 3	MasterEmaco ADH 327		1992-146
	<i>Effective 10/30/2020, new supplier code for MasterEmaco ADH 327 is MBS12 15. Previous Name: Concessive Paste LPL</i>			
	Type I, Grade 3	MasterEmaco ADH 327 RS		1992-147
	<i>Effective 10/30/2020, new supplier code for MasterEmaco ADH 327 RS is MBS12 15. Previous Name: Concessive Paste SPL</i>			
	Type II, Grade 2	MasterEmaco ADH 326		1992-148
	<i>Effective 10/30/2020, new supplier code for MasterEmaco ADH 326 is MBS12 15. Previous Name: Concessive Liquid LPL</i>			



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Section 706: Concrete Bonding Compound

706.1 Epoxy Bonding Compound (ASTM C881)

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Product	Name	Epoxy Class	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Type I & II, Grade 2	Dural 452 MV	B, C	2003-100Q
Type I & II, Grade 3	Dural 452 MV	B, C	2003-099Q
Type I, Grade 1	Duralflex Gel (formerly Flexocrete)		1980-032
Type I, Grade 1	Euco 452 LV		1986-310A
Type II, Grade 2	Euco 452 MV		1986-310B
Type III, Grade 1	Dural 340 NS	C	2001-192QA
Type III, Grade 1	Dural 340 SL	B, C	----
Type III, Grade 1	Duralflex Gel (formerly Flexocrete Gel)	C	1980-031
Type III, Grade 1	Flexolith	A, B, C	1994-231
Type III, Grade 3	Dural 452 Gel	C	2001-192QB
Type III, Grade 3	Flexocrete	C	----
Type V, Grade 2	Dural 452 MV	B, C	2003-100QB
HALMTE 15	Hallemite, 80 Cypress Street, P. O. Box 840, Warwick, RI 02888		
Type I, Grade 1	Hallemite 182LV (injection)		1997-197
Type II, Grade 2	Hallemite 140		1997-195
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Type I, Grade 1	Sure-Poxy HM, Class B	B	1992-366
Type I, Grade 1	Sure-Poxy HMLV 112		1988-290
Type I, Grade 3	Sure-Poxy 116		1992-169
Type I, Grade 3	Sure-Poxy HM Gel		1990-352
Type II, Grade 2	Sure-Poxy HM		1981-050
Type III, Grade 1	Sure-Poxy LM-LV		1981-049



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Section 706: Concrete Bonding Compound

706.1 Epoxy Bonding Compound (ASTM C881)

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Product	Name	Epoxy Class	Ref. No.
MBS12 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 7100 Wright Road Houston, TX 77041 <i>Formerly BASF Building Systems (BASBS 15)</i>		
Type I, Grade 1	MasterInject 1380		1975-040
<i>Previous Name: Concessive 1380</i>			
Type I, Grade 3	MasterEmaco ADH 327		1992-146
<i>Previous Name: Concessive Paste LPL</i>			
Type I, Grade 3	MasterEmaco ADH 327 RS		1992-147
<i>Previous Name: Concessive Paste SPL</i>			
Type II, Grade 2	MasterEmaco ADH 326		1992-148
<i>Previous Name: Concessive Liquid LPL</i>			
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Type I, Grade 1	Rezi-Weld LV		1990-230
Type I, Grade 3	Rezi-Weld Gel Paste		1990-232
Type II, Grade 2	Rezi-Weld 1000		1990-231
Type III, Grade 1	Rezi-Weld LV		1990-230
PLYGM 15	Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/		
Type I, Grade 1	Polyject 1001 MV		1995-048A
POLYC 15 Plant	Olin Epoxy-POLY-CARB, 8440 Tower Dr., Twinsburg, OH 44087 http://www.poly-carb.com/ 125 Industrial Park Rd. Roberta, GA 31078 <i>Formerly POLY-CARB, Inc.</i>		
Type I, Grade 1	Mark-25.3		2000-172Q
Type II, Grade 1	Mark-184		2000-174Q
Type II, Grade 1	Mark-25.3		2000-172Q



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Section 706: Concrete Bonding Compound

706.1 Epoxy Bonding Compound (ASTM C881)

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Product	Name	Epoxy Class	Ref. No.
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	201 Polito Avenue Lyndhurst, NJ 07071		
	Type I & II, Grade 2	Sikadur 32 Hi Mod	----
	Type I, Grade 1	Sikadur 35 Hi Mod LV	----
	Type I, Grade 1	Sikadur 52 Injection Resin	1986-228
	Type I, Grade 3	Sikadur Injection Gel	1987-165
Type III, Grade 1	Sikadur 21 Lo Mod LV	----	
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	1682 Marion Williamsport Road E Marion, OH 43302		
	Type I, Grade 1	Sikadur 35 Hi Mod LV	----
	Type I, Grade 1	Sikadur 52 Injection Resin	1986-228
	Type I, Grade 2	Sikadur 32 Hi Mod	----
	Type I, Grade 3	Sikadur Injection Gel	1987-165
Type II, Grade 2	Sikadur 32 Hi Mod	----	
Type III, Grade 1	Sikadur 21 Lo Mod LV	----	
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
	Type I, Grade 1	Pro-Poxy 100	1991-290A
	Type I, Grade 3	Pro-Poxy 300	1991-290C
	Type II, Grade 1	Pro-Poxy 50	B, C 2018-012Q
	Type II, Grade 2	Pro-Poxy 200	1991-290B

706.2 Other Bonding Compound (ASTM C882)

Last Revised: 5/11/2017

Product	Name	Ref. No.
ADHTC 15	Adhesives Technology Corporation, 450 East Copans, Pompano Beach, FL 33064 http://www.atcepoxy.com/	
	Type II, Grade 3, Class A & B	ASF-1000 2016-285Q
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/	
Other Bonding Compound	Cretelox	1996-096



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Section 706: Concrete Bonding Compound

706.2 Other Bonding Compound (ASTM C882)

Last Revised: 5/11/2017

Product	Name	Ref. No.
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 Other Bonding Compound	http://www.daytonsuperior.com/ Day-Chem Ad Bond (J-40)	1995-161
EUCLD 15 Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 Other Bonding Compound	http://www.euclidchemical.com/ Duralprep AC	1996-222
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 Other Bonding Compound <i>For placement of fresh to hardened concrete only in the period 4 to 24 hours after application of bonding agent.</i>	http://www.kaufmanproducts.net/ SurePoxy HM EPL	1996-093
RDWRE 15 Roadware, Inc., 381 Bridgepoint Way, South St. Paul, MN 55075 Other Bonding Compound	http://www.concretemender.com/ 10 Minute Concrete Mender	2000-336Q
SIKA0 15 Facility Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 Other Bonding Compound	http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071 Armatec 110	1990-223
SIKA1 15 Plant Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 Other Bonding Compound	http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302 Armatec 110	1990-223



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Section 709: Reinforcement Steel

Steel Products Procurement Act applies.

Click to view for companies listed in this section [Rebar Mill Symbols](#)

709.1 Fabricator of Reinforcement Bars

Last Revised: 7/15/2019

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

	Product	Name	Ref. No.
AHLEJ 15	J.M. Ahle Company, 190 William Street, Suite 2D, South River, NJ 08882 Fabricator, Black Bar and Epoxy Coated Bar	http://www.jmahle.com/	2008-139Q
AKRRC 15	Akron Rebar Company, 809 W. Waterloo Road, Akron, OH 44314 Fabricator, Stainless Steel Bar	http://www.akronrebar.com/	2012-019Q
BLOMT 15	Bloomsburg Metal Company, 610 North Penn Ave., Wilkes-barre, PA 18705-1730 Fabricator, Black Bar and Epoxy Coated Bar	http://www.bloomet.com/	----
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i> Fabricator, Black Bar and Epoxy Coated Bar	http://www.braymanprecast.com/	2014-169Q
CMCIL 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 Fabricator, Black Bar and Epoxy Coated Bar <i>(Formerly listed under the TOLTC 15 supplier code)</i>	https://www.cmc.com/	2001-229Q
CMCNC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar North Carolina 2528 North Chester Street Gastonia, NC 28052 Fabricator, Black Bar and Epoxy Coated Bar	https://www.cmc.com/	2007-117Q
CMCRK 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Knoxville 1919 Tennessee Avenue Knoxville, TN 37921 Fabricator, Black Bar and Epoxy Coated Bar <i>(Formerly Gerdau Ameristeel - GERD3 15)</i>	https://www.cmc.com/	2010-190Q



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

Last Revised: 7/15/2019

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

	Product	Name	Ref. No.
CMCRM 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Muncie 1610 South Macedonia Avenue Muncie, IN 47302 Fabricator, Black Bar and Epoxy Coated Bar	https://www.cmc.com/	2009-073Q
CMCRPA15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Perth Amboy 333 Riverview Drive Perth Amboy, NJ 08861 Fabricator, Black Bar Only (Formerly Gerdau Ameristeel - GERD1215)	https://www.cmc.com/	2017-045Q
CMCRS 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Sayreville 1 Crossman Road North Sayreville, NJ 08872 Fabricator, Black Bar Only Note: Not approved to bend reinforcement bar.	https://www.cmc.com/ Cutting / Shearing of Black Bar to Length	2019-026
CMCRY 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar York 1700 7th Avenue York, PA 17403 Fabricator, Black Bar and Epoxy Coated Bar (Formerly Gerdau Ameristeel - GERD6 15)	https://www.cmc.com/	----
CMCTN 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Steel Tennessee 1919 Tennessee Avenue Knoxville, TN 37921 Fabricator, Black Bar and Epoxy Coated Bar (Formerly Gerdau Ameristeel - GERD3 15)	https://www.cmc.com/	2010-190Q
CONTM 15	Contractors Materials Company, 10320 South Medallion Drive, Cincinnati, OH 45241 Fabricator, Black Bar and Epoxy Coated Bar Fabricator, Stainless Steel Bar Threading of Reinforcement Bar Threading of Reinforcement Bar	http://cmcmmi.com/ Tru-Splice Precast Insert System	1997-049Q 2012-166Q 1997-049Q 2017-274Q



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

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All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

Product	Name	Ref. No.
DIAFB 15	Diamond Fabrications, Inc., 30 Stewart Court, Washington, PA 15301 http://diamondmetalfab.com/ Fabricator, Black Bar and Epoxy Coated Bar	1998-045
DIMFAB15	Dimension Fabricators, 2000 7th Street, Glenville, NY 12302 https://www.dimensionfabricators.com/ Fabricator, Black Bar and Epoxy Coated Bar	2016-165Q
FISHW 15	Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963 https://fisher-welding-fabricating.hub.biz/ Fabricator, Black Bar and Epoxy Coated Bar	2013-154Q
HARMA 15	HarMac, A Division of A.H. Harris Sayreville, 301 Hartle Street, Sayreville, NJ 08872 https://ahharris.com/ Fabricator, Black Bar and Epoxy Coated Bar	2007-090Q
IRF-1 15	InteRebar Fabricators, 20 Davidson Lane, New Castle, DE 19720-2214 <i>Formerly Metal Partners International (MPI-1 15)</i> Fabricator, Black Bar and Epoxy Coated Bar	2017-190Q
KENGC 15	Kenglo Construction Supply Company, P. O. Box 54, Route 403 South, Strongstown, PA 15957 Fabricator, Black Bar and Epoxy Coated Bar	2001-152Q
MENOS 15	Men of Steel Rebar Fabricators, 2039 Route 130, Burlington, NJ 08016 http://www.menofsteelrebar.com/ Fabricator, Black Bar and Epoxy Coated Bar	2008-086Q
MIDWP 15	Midwest Pipe Coating, 925 Kennedy Ave., Schererville, IN 46375 http://midwestpiperebar.com/ Fabricator, Black Bar and Epoxy Coated Bar	2010-054Q
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 http://www.nfco.com/ Fabricator, Black Bar and Epoxy Coated Bar	1989-247
REST1 15	Re-Steel Supply Company, Inc., 2000 Eddystone Industrial Park, Eddystone, PA 19022 http://www.resteel.com/ Fabricator, Black Bar and Epoxy Coated Bar	----



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

Last Revised: 7/15/2019

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

	Product	Name	Ref. No.
REST2 15	Re-Steel Supply Company, Inc., 798 E. Venango Street, Philadelphia, PA 19134 http://www.resteel.com/		
	Fabricator, Black Bar and Epoxy Coated Bar		2007-009Q
	Fabricator, Galvanized Bar		2007-148Q
REST3 15	Re-Steel Supply Company, Inc., 63 Jr. Hawvermale Way, 522 Business Park, Berkeley Springs, WV 25411 http://www.resteel.com/		
	Fabricator, Black Bar and Epoxy Coated Bar		2009-067Q
	Fabricator, Stainless Steel Bar		----
	<i>Only approved to cut straight stainless steel reinforcement bars to required length. Not approved to bend stainless steel reinforcement bars at any angle.</i>		
SALSR 15	Salit Specialty Rebar, 3235 Lockport Road, Niagara Falls, NY 14305 http://stainlessrebar.com/		
	Fabricator, Stainless Steel Bar		2008-178Q
SIMCT 15	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 http://simcote.com/		
	Fabricator, Black Bar and Epoxy Coated Bar		2010-210Q
SIMP1 15	Simplex Construction Supplies, Inc., 2150B South Route 45-52, Kankakee, IL 60901 https://www.simplex-usa.com/ <i>Formerly Dayton Superior Corporation (DAYT5 15)</i>		
	Fabricator, Black Bar and Epoxy Coated Bar		1994-117
SIMRE 15	Simpson Reinforcing, Inc, 2001 Dr. Thomas Boulevard, Arnold, PA 15068 http://www.simpsonrebar.com/		
	Fabricator, Black Bar and Epoxy Coated Bar		----
	Fabricator, Galvanized Bar		2008-174Q
SPIFA 15	Spiral Fab, Inc., 10034 State Road 156, Vevay, IN 47043 http://spiral-fab.com/		
	Spiral Fabricator, Black Bar and Epoxy Coated Bar		2010-120Q
STEEL 15	Steelcorp, Inc., 5938 State Route 128, Miamitown, OH 45041 http://steelcorpinc.com/		
	Fabricator, Black Bar and Epoxy Coated Bar		2000-112Q



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

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All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

	Product	Name	Ref. No.
TITUS 15	Titusville Fabricating, 191 Howard St., Franklin, PA 16323 Fabricator, Black Bar and Epoxy Coated Bar Fabricator, Galvanized Bar		1996-073 2007-011Q
TOLTC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 (formerly: Toltec Steel Services, Inc.) Fabricator, Black Bar and Epoxy Coated Bar	https://www.cmc.com/	2001-229Q
TRIBO 15	Tri-Boro Construction Supplies, Inc, 1490 Ritner Highway, Carlisle, PA 17013 Fabricator, Black Bar and Epoxy Coated Bar	http://www.tri-borosupplies.com/	2008-040Q
TRISR 15	Tri State Rebar Company, 1558 Mt. Pleasant Road, Amcel Center Suite 72, Mount Pleasant, PA 15666 Fabricator, Black Bar and Epoxy Coated Bar	http://tristaterebar.com/contacts.html	1990-308
TYEBR 15 Facility	TyE Bar, LLC, 1050 Ohio Avenue, Glassport, PA 15045 1050 Ohio Avenue Glassport, PA 15045 Fabricator, Black Bar and Epoxy Coated Bar	http://www.tyerebar.com/	2015-084Q
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 Fabricator, Black Bar and Epoxy Coated Bar	http://www.lcwhitford.com/	2007-043Q

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

	Product	Name	NTPEP Test Number	Ref. No.
ABSTM 15	Byer Steel, 200 West North Bend Road, Cincinnati, OH 45216 Formerly A. B. Steel Mills, Inc. Deformed Straight Rebar	http://www.byersteelminded.com/		2001-162



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

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Product	Name	NTPEP Test Number	Ref. No.
ALTSC 15	Alton Steel Inc., # 5 Cut Street, Alton, IL 62002 http://altonsteel.com/ Plain Straight Rebar		1999-226Q
ARM-1 15	Bayou Steel Group (Formerly: Arcelormittal Harriman), 2404 S. Roane St., Harriman, TN 37748 http://bayousteelgroup.com/ Deformed Straight Rebar		2001-213Q
CMCFL 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Steel Florida 16770 Rebar Road Jacksonville, FL 32234 Deformed Straight Rebar (Formerly Gerdau Ameristeel - GERD4 15) Plain Straight Rebar (Formerly Gerdau Ameristeel - GERD4 15)		1986-166 1986-166
CMCNJ 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Steel New Jersey 1 North Crossman Road Sayreville, NJ 08872 Deformed Straight Rebar (Formerly Gerdau Ameristeel - GERD1115) Plain Straight Rebar (Formerly Gerdau Ameristeel - GERD1115)		1988-098 1988-098
CMCOK 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Steel Oklahoma 584 Old Highway 70 Durant, OK 74701 Deformed Straight Rebar Deformed Coiled Rebar <i>Bar sizes 3 to 6 only</i>	REBAR-2018-01-028 REBAR-2018-01-028	2019-115Q 2019-115Q
CMCSC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Steel South Carolina 310 New State Road Cayce, SC 29033 Deformed Straight Rebar Plain Straight Rebar	(Prior Ref Nos. 1998-096, 1989-099, 1993-045) (Prior Ref Nos. 1998-096, 1989-099, 1993-045)	1998-084 1998-084



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

Product	Name	NTPEP Test Number	Ref. No.
CMCTN 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/		
	CMC Steel Tennessee 1919 Tennessee Avenue Knoxville, TN 37921		
	Deformed Straight Rebar (Formerly Gerdau Ameristeel - GERD3 15)		1987-204
	Plain Straight Rebar (Formerly Gerdau Ameristeel - GERD3 15)		1987-204
EVRAZ 15	Evraz, Inc. NA/Rocky Mountain Steel, 2100 S. Freeway, Pueblo, CO 81004 http://www.evrazna.com/Products/tabid/55/Default.asp		
	Deformed Coiled Rebar		2013-130Q
GERD1 15	Gerdau Ameristeel, Charlotte Steel Mill Div., P.o. Box 481980, Charlotte, NC 28269 http://www.gerdau.com/northamerica/en		
		Deformed Straight Rebar	1986-167
	Plain Straight Rebar		1986-167
GERD1215	Gerdau Ameristeel, Perth Amboy Steel Division, 333 Riverview Drive, Perth Amboy, NJ 08861 http://www.gerdau.com/northamerica/en		
		Deformed Straight Rebar (Prior Ref. Nos.: 1989-198, 1986-354)	2000-099Q
	Plain Straight Rebar (Prior Ref No. 1986-354)		1989-198
GERD1315	Gerdau Ameristeel, St. Paul Mill, 1678 Red Rock Road, St. Paul, MN 55119 http://www.gerdau.com/northamerica/en <i>Effective July 1, 2020, the St. Paul Mill is an idle status.</i>		
		Deformed Straight Rebar	1986-354
	Plain Straight Rebar		1989-198
GERD1515	Gerdau Ameristeel Sand Springs, Quality Assurance Department, 2300 South Highway 97, Sand Springs, OK 74063 http://www.gerdau.com/northamerica/en		
		Deformed Straight Rebar	2003-107Q
	Plain Straight Rebar		2003-107Q
GERD1615	Gerdau Ameristeel - Midlothian, 300 Ward Road, Midlothian, TX 76065 http://www.gerdau.com/northamerica/en		
		Deformed Straight Rebar	1986-120
	Plain Straight Rebar		1986-120



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

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Product	Name	NTPEP Test Number	Ref. No.
GERD2 15	Gerdau Ameristeel, West Tennessee Steel Mill Division, P.O. Box 3670, Jackson, TN 38303 http://www.gerdau.com/northamerica/en		
	Deformed Straight Rebar		1986-160
	Plain Straight Rebar		1986-160
KEYSW 15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us <i>Formerly Keystone Steel & Wire Company</i>		
	Deformed Coiled Rebar <i>Bar Sizes 3-5 Only. The new supplier code is LIBSWP15.</i>		2013-061Q
LIBSWP15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us <i>Formerly Keystone Steel & Wire Company (KEYSW 15)</i>		
	Deformed Coiled Rebar <i>Bar Sizes 3-5 Only</i>		2013-061Q
NUCR1 15	Nucor Steel, Darlington Division, 300 Steel Mill Road, Darlington, SC 29540 http://www.nucor.com/		
	Deformed Straight Rebar		1991-180
	Plain Straight Rebar		1991-180
NUCR2 15	Nucor Steel, Auburn Division, P.O. Box 2008, 25 Quarry Road, Auburn, NY 13021 http://www.nucor.com/		
	Deformed Straight Rebar		1998-165
	Plain Straight Rebar		1998-165
NUCR3 15	Nucor Steel Kankakee, Inc., 972 East 4500 North Road, Bourbonnais, IL 60914-4127 http://www.nucor.com/		
	Deformed Straight Rebar		1991-367
	Plain Straight Rebar		1991-367
NUCR4 15	Nucor Steel Jackson, Inc., 3630 Fourth Street, Jackson, MS 39232 http://www.nucor.com/		
	Deformed Straight Rebar	(Prior Ref. Nos. 1987-151, 1991-314)	1991-315
	Plain Straight Rebar	(Prior Ref. Nos. 1987-151, 1991-314)	1991-315



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

Product	Name	NTPEP Test Number	Ref. No.
NUCR5 15	Nucor Steel Birmingham, Inc., P.O. Box 2764, Birmingham, AL 35202-2764 http://www.nucor.com/ Deformed Straight Rebar	(Prior Ref. Nos. 1990-014, 1990-066, 1991-070, 1991-071, 1995-224, 1995-280)	1995-280
NUCR6 15	Nucor Steel Marion, Inc., 912 Cheney Ave., Marion, OH 43302 http://www.nucor.com/ Deformed Straight Rebar Plain Straight Rebar		1991-020 1991-020
NUCR7 15	Nucor Steel Connecticut, Inc., 35 Toelles Rd., P. O. Box 928, Wallingford, CT 06492 http://www.nucor.com/ Deformed Straight Rebar		1992-258
OPTS1 15 Plant	Optimus Steel, P.O. Box 3869, Beaumont, TX 77704 https://optimus-steelusa.com/ 100 Old Highway 90 West, Vidor, TX 77662 (Formerly Gerdau Ameristeel - GERD1715) Deformed Coiled Rebar <i>Bar sizes 3 to 5 only</i>		2014-238QA
STEDC 15 Plant	Steel Dynamics, Inc., 7575 West Jefferson Boulevard, Fort Wayne, IN 46804 http://www.stld-cci.com/srd/contact/default.aspx Steel Dynamics, Structural and Rail Division 2601 County Road 700 East Columbia City, IN 46725 Deformed Straight Rebar		2019-107Q
STEDP 15 Plant	Steel Dynamics, Inc., 7575 West Jefferson Boulevard, Fort Wayne, IN 46804 https://www.steeldynamics.com/Pittsboro/Home.aspx Steel Dynamics, Engineered Bar Products Division 8000 N. County Road 225 East Pittsboro, IN 46167 Deformed Straight Rebar		2016-152
STEDR 15 Plant	Steel Dynamics, Inc., 7575 West Jefferson Boulevard, Fort Wayne, IN 46804 http://www.roanokesteel.com/ Steel Dynamics, Roanoke Bar Division 102 Westside Boulevard NW Roanoke, VA 24017 Deformed Straight Rebar		2007-113Q

709.1(b) Rail Steel Bars



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Section 709: Reinforcement Steel

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019

Approved epoxy coaters: Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

	Product	Name	Ref. No.
ABCCM 15	ABC Coating Company of Michigan, 1503 Burlingame S.W., Wyoming, MI 49509 Approved Epoxy Coater		1994-144
CMCIL 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 Approved Epoxy Coater <i>(Formerly listed under the TOLTC 15 supplier code)</i>	https://www.cmc.com/	2001-229Q
CMCNC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar North Carolina 2528 North Chester Street Gastonia, NC 28052 Approved Epoxy Coater	https://www.cmc.com/	1997-114
CMCNJ 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Steel New Jersey 1 North Crossman Road Sayreville, NJ 08872 Approved Epoxy Coater <i>(Formerly Gerdau Ameristeel - GERD1115)</i>	https://www.cmc.com/	1990-381
CMCRK 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Knoxville 1919 Tennessee Avenue Knoxville, TN 37921 Approved Epoxy Coater <i>(Formerly Gerdau Ameristeel - GERD3 15)</i>	https://www.cmc.com/	1988-337
CMCRM 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Muncie 1610 South Macedonia Avenue Muncie, IN 47302 Approved Epoxy Coater <i>(Formerly Gerdau Ameristeel - GERD1415)</i>	https://www.cmc.com/	2005-133Q



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Section 709: Reinforcement Steel

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019

Approved epoxy coaters: Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

	Product	Name	Ref. No.
CMCRS 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Sayreville 1 Crossman Road North Sayreville, NJ 08872 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD1115)	https://www.cmc.com/	1990-381
CMCTN 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Steel Tennessee 1919 Tennessee Avenue Knoxville, TN 37921 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD3 15)	https://www.cmc.com/	1988-337
CORCI 15	Corrosion Control, Inc., 10 Quarry Road, Auburn, NY 13021 Approved Epoxy Coater	http://www.corrosioncontrolinc.com/	2004-085Q
LANE5 15	Lane Enterprises, Inc., 1244 Claremont Road, Carlisle, PA 17013 Approved Epoxy Coater	http://www.lane-enterprises.com/	1989-223
MCOAT 15	Miamisburg Coating, 925 N. Main St., Miamisburg, OH 45342 Approved Epoxy Coater of Mechanical Splice Couplers Only		2013-242Q
MIDWP 15	Midwest Pipe Coating, 925 Kennedy Ave., Schererville, IN 46375 Approved Epoxy Coater	http://midwestpiperebar.com/	1984-128
SIMCT 15	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 Approved Epoxy Coater	http://simcote.com/	1985-022
SIMP1 15	Simplex Construction Supplies, Inc., 2150B South Route 45-52, Kankakee, IL 60901 Formerly Dayton Superior Corporation (DAYT5 15) Approved Epoxy Coater	https://www.simplex-usa.com/	1996-160



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Section 709: Reinforcement Steel

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019

Approved epoxy coaters: Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

	Product	Name	Ref. No.
SIMRE 15	Simpson Reinforcing, Inc, 2001 Dr. Thomas Boulevard, Arnold, PA 15068 Approved Epoxy Coater <i>Capability to coat up to and including #11 reinforcement bar.</i>	http://www.simpsonrebar.com/	2017-318Q
TITUS 15	Titusville Fabricating, 191 Howard St., Franklin, PA 16323 Approved Epoxy Coater		1996-073
TOLTC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 <i>(formerly: Toltec Steel Services, Inc.)</i> Approved Epoxy Coater	https://www.cmc.com/	2001-229Q
UCOAT 15	Universal Coatings, 8511 Tower Drive, Twinsburg, OH 44087 Approved Epoxy Coater of Mechanical Splice Couplers Only <i>Electrostatic and Fluid Dip</i>	http://universal-coatings.net/	2014-240Q

709.1(c)1 Epoxy Powder and Patching Material Manufacturers

Last Revised: 11/9/2020

In accordance with Standard Special Provision C-a00022-A, which is effective for projects let after 12/4/15; the patching or repair material must be compatible with the coating, inert in concrete, and feasible for repairs at the applicator, fabricator, or in the field.

Table A: [Approved Epoxy Coating Powders and Compatible Patching/Repair Materials](#)

	Product	Name	Compatible Repair Coating	Ref. No.
3M-07 15 Plant	3M Company, 3M Center, Building 0223-02-E-25, St. Paul, MN 55144 1508 East Cedar Street Angleton, TX 77515			
	Epoxy Powder Material (Manufacturer)	Scotchkote 413	ScotchKote 323 R [SIECO]	2015-093Q
	Epoxy Powder Material (Manufacturer)	Scotchkote 413	Greenbar Touch Up Coating Kit [VALSP3]	2017-201Q



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Section 709: Reinforcement Steel

709.1(c)1 Epoxy Powder and Patching Material Manufacturers

Last Revised: 11/9/2020

In accordance with Standard Special Provision C-a00022-A, which is effective for projects let after 12/4/15; the patching or repair material must be compatible with the coating, inert in concrete, and feasible for repairs at the applicator, fabricator, or in the field.

Table A: [Approved Epoxy Coating Powders and Compatible Patching/Repair Materials](#)

	Product	Name	Compatible Repair Coating	Ref. No.
3MC-1 15 Plant	3M Company, 1840 Oxford Street East, London, Ontario Canada N5v 3r Morden, Manitoba ROG 1JO			
	Epoxy Powder Material (Manufacturer)	ScotchKote 413	ScotchKote 323 R [SIECO]	2010-014Q
AKZNC 15	Akzo Nobel Coatings, Inc., 20 Culvert Street, Nashville, TN 37210 https://www.akzonobel.com/			
	Epoxy Powder	Resicoat RB-600 HKF30R	BarPatch 803 [ARMIN], Hi-Build Epoxoline Series 66HS [TNEMEC]	2013-141QB
	Epoxy Powder	Resicoat RB-600 HKF30R	Greenbar Touch Up Coating Kit [VALSP3]	2019-187Q
	Epoxy Powder	Resicoat RB-600 HKF30R-F	BarPatch 803 [ARMIN], Hi-Build Epoxoline Series 66HS [TNEMEC]	2013-141QB
	Epoxy Powder	Resicoat RB-600 HKF30R-F	Greenbar Touch Up Coating Kit [VALSP3]	2019-187Q
	Epoxy Powder	Resicoat RB-600 HKF30R-LG	BarPatch 803 [ARMIN], Hi-Build Epoxoline Series 66HS [TNEMEC]	2013-141QB
	Epoxy Powder	Resicoat RB-600 HKF30R-LG	Greenbar Touch Up Coating Kit [VALSP3]	2019-187Q
AXACS 15	Axalta Coating Systems, LLC, 9800 Genard Road, Houston, TX 77041 http://www.axaltacs.com/corporate/en_US.html <i>Formerly DuPont (DUPT3)</i>			
	Epoxy Powder	Nap-Gard 7-2750, 7-2750FC, 7-2750SG	Nap-Gard 7-1868 [SPEPC]	2012-176Q
	Epoxy Powder	Nap-Gard 7-2750, 7-2750FC, 7-2750SG	Greenbar Touch Up Coating Kit [VALSP3]	2016-184Q
VALSP215	The Sherwin-Williams Company, 10300 Claude Freeman Drive, Charlotte, NC 28262 https://industrial.sherwin-williams.com/na/us/en/general-industrial.html <i>Formerly Valspar Corporation</i>			
	Epoxy Powder Material (Manufacturer)	720A009 Greenbar	Greenbar Touch Up Coating Kit [VALSP3]	2009-079Q
VALSP415	The Sherwin-Williams Company, 13129 Harland Drive Ne, Covington, GA 30014 https://industrial.sherwin-williams.com/na/us/en/general-industrial.html <i>Formerly Valspar Corporation</i>			
	Epoxy Powder	720A009 Greenbar	Greenbar Touch Up Coating Kit [VALSP3]	2013-214Q

709.1(c)2.b Coating Repair Material Manufacturers

Last Revised: 11/9/2020



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Section 709: Reinforcement Steel

709.1(c)2.b Coating Repair Material Manufacturers

Last Revised: 11/9/2020

Product	Name	Compatible Epoxy Powder	Ref. No.
ARMIN 15	Armitage Industries Inc., DBA Thermal-Chem Corporation, 2550 Edgington Street, Franklin Park, IL 60131 Repair/Patching Material <i>Application Technical Info: Approval for un-thinned material only; Substrate temp.: 40-80 deg. F; Mix no less than 3 minutes (longer mix time required for lower temperature); VOC = 0.008 lbs/gal.</i>	BarPatch 803 Resicoat RB-600 HKF30R, HKF30R-F, HKF30R-LG [AKZNC]	2013-141QA
SIECO 15	Sierra Corporation, 11400 West 47th Street, Minnetonka, MN 55343 Repair/Patching Material <i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 41-200 deg. F @ 5 deg. F above Dew Point Temp. Mixing accomplished by mixing tip dispenser. VOC = 0.280 lbs/gal. Storage Condition Temperature: 40-100 deg. F</i>	ScotchKote 323R ScotchKote 413 [3MC-1 & 3M-07]	2013-135Q
SPEPC 15	Specialty Polymer Coatings Inc, #101 - 20529 62nd Ave., Langley, Bc V3a 8r4 Repair/Patching Material <i>Approval for un-thinned material only Application Technical Info - Substrate Temp.: 50-212 degF or a min. of 5.4 deg. F above Dew Point Temp.; VOC = 0.05 lbs/gal.</i>	Nap-Gard 7-1868 Dark Green Fast Cure Repair Nap-Gard 7-2750 [AXACS]	2012-231Q
TNEMEC15 Facility	Tnemec Company Inc., 6800 Corporate Drive, Kansas City, MO 64120 123 W. 23rd Avenue North Kansas City, MO 64116 Repair/Patching Material <i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-135 deg. F @ 5 deg. F above dew point; VOC = 1.44 lbs/gal.</i>	Hi-Build Epoxoline Series 66HS Resicoat RB-600 HKF30R, HKF30R-F, HKF30R-LG [AKZNC]	2018-034Q
VALSP315	The Sherwin-Williams Company, 5400 Avenue Of The Cities, Moline, IL 61265 Formerly Valspar Corporation Repair/Patching Material <i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>	Greenbar Touch Up Coating Kit 720A009 Greenbar [VALSP1, 2, 4]	2012-235Q
	Repair/Patching Material <i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>	Greenbar Touch Up Coating Kit Nap-Gard 7-2750, 7-2750FC, 7-2750SG	2016-184Q
	Repair/Patching Material <i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>	Greenbar Touch Up Coating Kit ScotchKote 413 [3M-07]	2017-201Q
	Repair/Patching Material <i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>	Greenbar Touch Up Coating Kit Resicoat RB-600 HKF30R, HKF30R-F, HKF30R-LG	2019-187Q



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Section 709: Reinforcement Steel

709.1(d) Low-Alloy Steel Bars

Last Revised: 12/3/2020

ASTM A706, Grade 60

	Product	Name	Ref. No.
CMCOK 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Steel Oklahoma 584 Old Highway 70 Durant, OK 74701		
	Low-Alloy Steel, Spooled Deformed <i>Bar Sizes 4, 6</i>		2019-126Q
	Low-Alloy Steel, Straight Deformed <i>Bar sizes 5, 7, 9</i>		2019-126Q
CMCSC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Steel South Carolina 310 New State Road Cayce, SC 29033		
	Low-Alloy Steel, Deformed		2005-015Q
EVRAZ 15	Evraz, Inc. NA/Rocky Mountain Steel, 2100 S. Freeway, Pueblo, CO 81004 http://www.evrazna.com/Products/tabid/55/Default.asp		
	Low-Alloy Steel, Coiled Only <i>Bar Sizes 3-5 Only</i>		2013-130Q
NUCR1 15	Nucor Steel, Darlington Division, 300 Steel Mill Road, Darlington, SC 29540 http://www.nucor.com/		
	Low-Alloy Steel, Deformed		2005-092Q
NUCR2 15	Nucor Steel, Auburn Division, P.O. Box 2008, 25 Quarry Road, Auburn, NY 13021 http://www.nucor.com/		
	Low-Alloy Steel, Deformed		1998-165
NUCR3 15	Nucor Steel Kankakee, Inc., 972 East 4500 North Road, Bourbonnais, IL 60914-4127 http://www.nucor.com/		
	Low-Alloy Steel, Deformed		1991-367
OPTS1 15 Plant	Optimus Steel, P.O. Box 3869, Beaumont, TX 77704 https://optimus-steelusa.com/ 100 Old Highway 90 West, Vidor, TX 77662 (Formerly Gerdau Ameristeel - GERD1715)		
	Low-Alloy Steel, Coiled Only <i>Bar sizes 3 to 5 only</i>		----



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Section 709: Reinforcement Steel

709.1(e) Galvanized Bars

Last Revised: 10/2/2020

	Product	Name	Ref. No.
CONGV 15	Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 Galvanized Bar	http://ctgalv.com/	2006-116Q
HUBBL 15	O. W. Hubbell and Sons, P.O. Box 37, New York Mills, NY 13417 Galvanized Bar	http://www.whyrust.com	2015-005Q
JAR-1 15 Plant	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 2500 Old Stage Road Greeneville, TN 37744 Galvanized Bar <i>American Steel Tubing: bonding zinc to bar</i> <i>Southeast Tubular Products: bonding zinc to bar</i> <i>Conditionally approved as an alternate per manufacturer's specifications.</i>	LifeDowel (formerly known as LifeJacket Dowel)	2009-084
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114 Galvanized Bar	http://www.newjerseygalvanizing.com/#/	2006-216Q
SAGV1 15	South Atlantic Galvanizing, 3025 Steel Way Drive, P.O. Box 1380, Graham, NC 27253 Galvanized Bar	http://www.southatlanticllc.com/	2014-016Q
TENNG 15	Tennessee Galvanizing, Inc., 1535 Industrial Boulevard, P.O. Box 609, Jasper, TN 37347 Galvanized Bar	http://tennesseegalvanizing.com/	2016-227Q
YOUNG 15	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 Galvanized Bar	http://younggalvanizing.com/	2006-178Q

709.1(f) Stainless Steel Bars

Last Revised: 9/2/2020

	Product	Name	Ref. No.
CARTC 15 Facility	Carpenter Technology Corporation, 101 West Bern Street, Reading, PA 19612 Hartsville Operations 205 Talley Metal Lane McBee, SC 29101 Stainless Steel Bar	http://www.cartech.com/ CarTech EnduraMet 32 Stainless (UNS S24100)	2008-177Q



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Section 709: Reinforcement Steel

709.1(f) Stainless Steel Bars

Last Revised: 9/2/2020

Product	Name	Ref. No.
CARTC 15 Facility	Carpenter Technology Corporation, 101 West Bern Street, Reading, PA 19612 http://www.cartech.com/ Hartsville Operations 205 Talley Metal Lane McBee, SC 29101	
TDS: CarTech EnduraMet 32 Stainless Technical Datasheet		

709.1(g) Uncoated Corrosion-Resistant Bars

Last Revised: 5/1/2019

Product	Name	Ref. No.
CASST 15	Cascade Steel Rolling Mills, Inc. (Subsidiary of Schnitzer Steel Industries, Inc.), 3200 NE Highway 99W, McMinnville, OR 97128 http://www.cascadesteel.com/ Uncoated Corrosion-Resistant Bar <i>Cascade Steel is a licensed partner of MMFX Technologies, a Commercial Metals Company. Product formerly known as MMFX2 Microcomposite Steel.</i>	2011-061
	ChromX 9100 (ASTM A1035, CS, Grade 100)	

709.3 Steel Welded Wire Fabric

Last Revised: 10/14/2020

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Mill / Non-Mill	Ref. No.
CARSW 15	Cargill Steel & Wire, 1915 John Connally Drive, Carrollton, TX 75006 http://www.cargill-etm.com/metals.html Cold Drawn Wire Fabricator	Wire-Mill	2000-027Q
CONCT 15	Concrete Pipe Products Corporation, Ten Thomas St., Chenango Bridge, NY 13901 Cold Drawn Wire Fabricator	Bright Basic Wire Wire-Mill	1990-323
CONGV 15	Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 http://ctgalv.com/ Galvanizer		2006-116Q



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

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A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

	Product	Name	Mill / Non-Mill	Ref. No.
DOWNY 15	Downey, B. L., Company, Inc., 2125 Gardner Road, Broadview, IL 60153 Epoxy Coater			1996-248
ENGWP 15	Engineered Wire Products, Inc., 1200 N. Warpole Street, P. O. Box 313, Upper Sandusky, OH 43351 http://ewp1.com/ <i>(Liberty Steel USA)</i> Cold Drawn Wire Fabricator Welded Wire Fabric Manufacturer	Bright Basic Wire	Wire-Mill	2009-048Q 1991-136
FOXVS 15	Fox Valley Steel & Wire Company, 111 North Douglas Street, Hortonville, WI 54944 Cold Drawn Wire Fabricator		Wire-Mill	2000-339Q
INST2 15	Insteel Wire Products, 638 Rappahannock Wire Road, Gallatin, TN 37066 http://www.insteel.com/ Welded Wire Fabric Manufacturer			2000-160Q
INST4 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 http://www.insteel.com/ 129 Carter Street Mount Airy, NC 27030 Cold Drawn Wire Fabricator Welded Wire Fabric Manufacturer	Bright Basic Wire	Wire-Mill	2008-004Q ----
INST5 15 Plant	Insteel Wire Products, 3050 Melson Ave., Jacksonville, FL 32254 http://www.insteel.com/ Jacksonville, FL <i>Formerly Ivy Steel and Wire (IS&W6)</i> Welded Wire Fabric Manufacturer			2006-043Q



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

Last Revised: 10/14/2020

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A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Mill / Non-Mill	Ref. No.
INST6 15 Plant	Insteel Wire Products, 810 Atchison Street, St. Joseph, MO 64503 http://www.insteel.com/		
	MO <i>Formerly Ivy Steel and Wire (IS&W5)</i>		
	Cold Drawn Wire Fabricator	Bright Basic Wire	Wire-Mill
	Welded Wire Fabric Manufacturer		1996-191
INST7 15 Plant	Insteel Wire Products, 501 Forrest Road, Hazle Township, PA 198202 http://www.insteel.com/		
	501 Forrest Rd Humbolt Industrial Park Hazle Township, PA 18202 <i>Formerly Ivy Steel and Wire (IS&W4)</i>		
	Welded Wire Fabric Manufacturer		1993-221
INST9 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 http://www.insteel.com/		
	3325 Route 1099 Hickman, KY		
	Galvanizer		2013-144Q
	Welded Wire Fabric Manufacturer		2013-144Q
IOWSW 15	Iowa Steel & Wire, 1500 West Van Buren, Centerville, IA 52544		
	Welded Wire Fabric Manufacturer		2000-230Q
KEYSW 15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us		
	<i>Formerly Keystone Steel & Wire Company</i>		
	Cold Drawn Wire Fabricator		Steel Mill & Wire-Mill
	<i>The new supplier code is LIBSWP15.</i>		2009-069Q
LANE5 15	Lane Enterprises, Inc., 1244 Claremont Road, Carlisle, PA 17013 http://www.lane-enterprises.com/		
	Epoxy Coater		1989-223



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

Last Revised: 10/14/2020

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

	Product	Name	Mill / Non-Mill	Ref. No.
LEGPT 15 Plant	Leggett & Platt, Inc., Adcom Wire Division, No. 1 Leggett Road, Carthage, MO 64836 Cold Drawn Wire Fabricator	http://leggett.com/	Wire-Mill	2002-022Q
LIBSWP15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 Formerly Keystone Steel & Wire Company (KEYSW 15) Cold Drawn Wire Fabricator	http://www.libertysteel.us	Steel Mill & Wire-Mill	2009-069Q
NELWS 15	Wire Mesh Corporation (WMC) (Formerly Nelson Wire and Steel), 1015 New Salem Road, New Salem, PA 15468 Formerly Nucor Wire Products (NUCW-) Welded Wire Fabric Manufacturer	https://wmc-us.com/		2011-151QAB
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114 Galvanizer	http://www.newjerseygalvanizing.com/#/		2006-216Q
NUCR7 15	Nucor Steel Connecticut, Inc., 35 Toelles Rd., P. O. Box 928, Wallingford, CT 06492 Cold Drawn Wire Fabricator Welded Wire Fabric Manufacturer	http://www.nucor.com/	Steel Mill & Wire-Mill	1992-258B 1992-258B
NUMES 15	Numesh USA, LLC, 211 Warren Street, Glens Falls, NY 12801 Welded Wire Fabric Manufacturer	http://www.numesh.com/en/		2010-066Q
SIMCT 15	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 Epoxy Coater	http://simcote.com/		1985-022
TAUSW 15	Taubensee Steel & Wire Company, 600 Diens Drive, Wheeling, IL 60090 Cold Drawn Wire Fabricator	http://www.taubensee.com/	Wire-Mill	2003-062Q



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

Last Revised: 10/14/2020

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Mill / Non-Mill	Ref. No.
TWP-1 15 Facility	Tatano Wire Products, LLC (SSW Holding Company, LLC), 3501 Tulsa St, Ft. Smith, AR 79203 http://sswholding.net/ 714 Braddock View Drive Lemont Furnace, PA 15456 Welded Wire Fabric Manufacturer		2019-250Q
VIMC- 15	Vimco, Inc., 300 Hansen Access Road, King of Prussia, PA 19406 http://vimcoinc.com/ Welded Wire Fabric Manufacturer		2012-017Q
WIRET 15 Plant	Wiretech Inc., 6440 E. Canning St., Commerce, CA 90040 http://www.wiretechincorporated.com/ Elyria, OH 44035 Cold Drawn Wire Fabricator	Wire-Mill	2010-060Q
YOUNG 15	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 http://younggalvanizing.com/ Galvanizer		2006-178Q

709.4 Deformed Welded Wire Fabric

Last Revised: 8/28/2020

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap steel was originally melted to form the steel rods. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Ref. No.
CONGV 15	Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 http://ctgalv.com/ Galvanizer	2006-116Q



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Section 709: Reinforcement Steel

709.4 Deformed Welded Wire Fabric

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All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap steel was originally melted to form the steel rods. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

	Product	Name	Ref. No.
CRI-1 15	Concrete Reinforcements, Inc, 13450 W Peoria Ave, Surprise, AZ 85379 Welded Wire Fabric Manufacturer	http://cri-steel.com/	2020-017Q
DOWNY 15	Downey, B. L., Company, Inc., 2125 Gardner Road, Broadview, IL 60153 Epoxy Coater		1996-248
ENGWP 15	Engineered Wire Products, Inc., 1200 N. Warpole Street, P. O. Box 313, Upper Sandusky, OH 43351 <i>(Liberty Steel USA)</i> Welded Wire Fabric Manufacturer	http://ewp1.com/	1991-136
INST4 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 129 Carter Street Mount Airy, NC 27030 Welded Wire Fabric Manufacturer	http://www.insteel.com/	----
INST5 15 Plant	Insteel Wire Products, 3050 Melson Ave., Jacksonville, FL 32254 Jacksonville, FL <i>Formerly Ivy Steel and Wire (IS&W6)</i> Welded Wire Fabric Manufacturer	http://www.insteel.com/	2006-043Q
INST6 15 Plant	Insteel Wire Products, 810 Atchison Street, St. Joseph, MO 64503 MO <i>Formerly Ivy Steel and Wire (IS&W5)</i> Welded Wire Fabric Manufacturer	http://www.insteel.com/	1996-191



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Section 709: Reinforcement Steel

709.4 Deformed Welded Wire Fabric

Last Revised: 8/28/2020

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A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

	Product	Name	Ref. No.
INST7 15 Plant	Insteel Wire Products, 501 Forrest Road, Hazle Township, PA 198202 501 Forrest Rd Humbolt Industrial Park Hazle Township, PA 18202 <i>Formerly Ivy Steel and Wire (IS&W4)</i> Welded Wire Fabric Manufacturer	http://www.insteel.com/	1992-071
INST9 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 3325 Route 1099 Hickman, KY Galvanizer Welded Wire Fabric Manufacturer	http://www.insteel.com/	2013-144Q 2013-144Q
IOWSW 15	Iowa Steel & Wire, 1500 West Van Buren, Centerville, IA 52544 Welded Wire Fabric Manufacturer		2000-230Q
LANE5 15	Lane Enterprises, Inc., 1244 Claremont Road, Carlisle, PA 17013 Epoxy Coater	http://www.lane-enterprises.com/	1989-223
NELWS 15	Wire Mesh Corporation (WMC) (Formerly Nelson Wire and Steel), 1015 New Salem Road, New Salem, PA 15468 <i>Formerly Nucor Wire Products (NUCW-)</i> Welded Wire Fabric Manufacturer	https://wmc-us.com/	2011-151QAB
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114 Galvanizer	http://www.newjerseygalvanizing.com/#/	2006-216Q
NUCR7 15	Nucor Steel Connecticut, Inc., 35 Toelles Rd., P. O. Box 928, Wallingford, CT 06492 Welded Wire Fabric Manufacturer	http://www.nucor.com/	2011-124Q



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Section 709: Reinforcement Steel

709.4 Deformed Welded Wire Fabric

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A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

	Product	Name	Ref. No.
NUMES 15	Numesh USA, LLC, 211 Warren Street, Glens Falls, NY 12801 Welded Wire Fabric Manufacturer	http://www.numesh.com/en/	2010-066Q
REISO 15	Engineered Wire Products, 3121 West Market Street, Warren, OH 44485 (Liberty Steel USA) Welded Wire Fabric Manufacturer	http://ewp1.com/	2011-086Q
SIMCT 15	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 Epoxy Coater	http://simcote.com/	1985-022
YOUNG 15	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 Galvanizer	http://younggalvanizing.com/	2006-178Q



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Posted:
12/10/2020 9:27:26AM

Section 711: Concrete Curing Material and Admixtures

711.1(a) Curing and Protecting Covers: White Polyethylene Sheeting

Last Revised: 3/9/2015

Product	Name	Ref. No.
FORTC 15 Fortifiber Corporation, 511 Highland Drive, Valdosta, GA 31601 http://www.fortifiber.com/ White Polyethylene Sheeting		1999-180
POLYA 15 Poly-America, Inc., 2000 West Marshall Drive, Grand Prairie, TX 75051 http://www.poly-america.com/ White Polyethylene Sheeting		1986-176

711.1(b) Curing and Protecting Covers: White Polyethylene Sheeting-Burlap Backed

Last Revised: 7/6/2017

Product	Name	Ref. No.
MAX-K 15 Max Katz Bag Company, Inc., 235 South Lasalle Street, Indianapolis, IN 46201 http://www.maxkatzbag.com/ White Polyethylene Sheeting, Natural Burlap Backed White Polyethylene Sheeting, Synthetic Burlap Backed		----- 1995-095
MCTG- 15 McTech Group, Inc., 3502 Diversified Drive, Loganville, GA 30052 http://www.mctechgroup.com/ White Polyethylene Sheeting, Natural Burlap Backed <i>Conditionally approved as an alternate per manufacturer's specifications.</i>	Ultracure	2010-062Q
MIDWC 15 Midwest Canvas Corporation, 4635 West Lake St., Chicago, IL 60644 http://www.midwestcanvas.com/ White Polyethylene Sheeting, Natural Burlap Backed		2000-105Q

711.1(c) Curing and Protecting Covers: White Polypropylene Sheeting-Polypropylene Fiber Backed

Last Revised: 3/9/2015

Product	Name	Ref. No.
FORTC 15 Fortifiber Corporation, 511 Highland Drive, Valdosta, GA 31601 http://www.fortifiber.com/ White Polypropylene Sheeting, Polypropylene Fiber Backed		1999-020

711.1(d) Curing and Protecting Covers: Burlap

Last Revised: 6/5/2020

Product	Name	Ref. No.
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Section 711: Concrete Curing Material and Admixtures

711.1(d) Curing and Protecting Covers: Burlap

Last Revised: 6/5/2020

	Product	Name	Ref. No.
ABITC 15	Abitec, Inc., 105 Grove Circle, Chalfont, PA 18914 Burlap		1999-191Q
ACEBB 15	Ace Bag & Burlap Company, 205 Water Street, Brooklyn, NYC, NY 11201 Burlap	http://www.ace-bag.com/	1992-046
AMEES 15	Amees Sales, Inc., 55 West 39th Street, New York, NY 10018 Burlap		1992-274A
BAG-P 15	Bag Processors, Inc., 325 W. Allen Street, Mechanicsburg, PA 17055 Burlap	http://www.bag-pro.com/	1983-106
DAYBAG15	The Dayton Bag & Burlap Co, 322 Davis Avenue, Dayton, OH 45403 Burlap	https://www.daybag.com/	2020-067Q
	<i>Provisionally Approved. Per the provisional approval, the Department will monitor the burlap use, application, and performance for a period of two years (6/5/2020 to 6/5/2022). Manufacturer agrees to submit samples for Plant Verification (PV) testing of a minimum of six distinct lots delivered to PennDOT projects over the two-year period. The submitted samples shall be two yards long by full width, labeled and rolled for shipping, and delivered to PennDOT's Laboratory Testing Section. Samples of lots not shipped to PennDOT may be used if unavoidable.</i>		
G&GF0 15	G. & G. Fabricating Co., 930 Henderson Blvd., #12, Folcroft, PA 19032 Burlap	http://gandgstamping.com/	----
INDVA 15	Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 Burlap	http://www.iviindustries.com/index.html	1994-100
MAX-K 15	Max Katz Bag Company, Inc., 235 South Lasalle Street, Indianapolis, IN 46201 Burlap	http://www.maxkatzbag.com/	----

711.1(e) Curing and Protecting Covers: Insulating Mats

Last Revised: 7/8/2015

	Product	Name	Ref. No.
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711.1(e) Curing and Protecting Covers: Insulating Mats

Last Revised: 7/8/2015

Product	Name	Ref. No.
MIDWC 15 Midwest Canvas Corporation, 4635 West Lake St., Chicago, IL 60644 http://www.midwestcanvas.com/ Insulating Mat		2000-107Q

711.1(f) Curing and Protecting Covers: Foam Insulation

Last Revised: 1/30/2017

Product	Name	Ref. No.
OWENC 15 Owens Corning, One Owens Corning Parkway, Toledo, OH 43659 http://www.owenscorning.com/ Foam Insulation	Foamular 1000	2002-005Q
Foam Insulation	Foamular 150	2002-005Q
Foam Insulation	Foamular 250	2002-005Q
Foam Insulation	Foamular 400	2002-005Q
Foam Insulation	Foamular 600	2002-005Q
PACTV 15 Kingspan Insulation LLC, 2100 RiverEdge Parkway, Suite 175, Atlanta, GA 30328 <i>Formerly Pactiv Building Products</i> Foam Insulation	GreenGuard XPS CM (0.5" thick)	1990-359A
Foam Insulation	GreenGuard XPS CM (1" thick)	1990-359B
Foam Insulation	GreenGuard XPS CM (1.5" thick)	1990-359C
Foam Insulation	GreenGuard XPS CM (2" thick)	1990-359D
Foam Insulation	GreenGuard XPS CM (2.5" thick)	1990-359E
Foam Insulation	GreenGuard XPS CM (3" thick)	1990-359F

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 4/29/2020

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Safe-Cure and Seal EPX		1999-217Q



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711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 4/29/2020

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Safe-Cure Clear DR		1989-076
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Safe-Cure 2000		1989-044
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Safe-Cure 800		1989-043
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Clear Resin Cure J11W		1994-070
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	DSSCC Clear Wax Cure		2000-102Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Resin Cure with Dye J11W		1985-200
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Resin Cure J10W		----
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Wax Cure J9A		2000-101Q
EUCLD 15 Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Tammsecure WB 30D		2001-140Q
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Thinfilm-420		----
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Thinfilm-445 (Wax Based)		1989-147
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Thinfilm-450		----



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Section 711: Concrete Curing Material and Admixtures

711.2(a) Concrete Curing Compound: Clear or White

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Product	Name	NTPEP Test Number	Ref. No.
L&MCC 15	L&M Construction Chemicals, Inc., 14851 Calhoun Road, Omaha, NE 68152 http://www.lmcc.com/		
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Cure R	1994-187
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Cure R-2	1994-188
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Cure W-2 (Wax Based)	1994-162
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1200	1988-251
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1250	1992-076
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1600	1988-252
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 2255 White	2013-115Q
MEDW1 15 Plant	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550		
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Sealtight 1100	2013-128Q
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1200	1988-251
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1600	1988-252



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Section 711: Concrete Curing Material and Admixtures

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 4/29/2020

Product	Name	NTPEP Test Number	Ref. No.
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafc0, Inc.</i>		
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Acrylic Concrete Cure and Seal 350	2017-199Q
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Clear Water Resin 309	2004-052Q
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Right Sheen 30 350	2017-206Q
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Water Resin 309	2004-051Q
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Water Wax 309	2003-033Q
SPECH 15	SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108 http://specchemllc.com/		
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Pavecure WW	2014-150Q
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Acquired by ChemMasters, Inc.</i>		
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Certi-Vex AC 1315	2000-069Q
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Certi-Vex Envio RC 1000	2002-126Q
	Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Envio Cure Clear 500	2000-067Q
	Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Envio Cure White 500	2000-068Q

711.2(b) Concrete Curing Compound: White, Poly-alpha-methylstyrene (PAMS)

Last Revised: 4/29/2020

Product	Name	NTPEP Test Number	Ref. No.
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Section 711: Concrete Curing Material and Admixtures

711.2(b) Concrete Curing Compound: White, Poly-alpha-methylstyrene (PAMS)

Last Revised: 4/29/2020

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Liquid Membrane-Forming Curing Compound, White, PAMS	Safe-Cure 4000	2018-051Q
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Liquid Membrane-Forming Curing Compound, White, PAMS	Sealtight 2255 White	2013-115Q
RTPTC 15	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ <i>Effective October 19, 2020, acquired by Crafcoc, Inc.</i> Liquid Membrane-Forming Curing Compound, White, PAMS	White Water Resin 44 (PAMS)	2018-013Q
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Acquired by ChemMasters, Inc.</i> Liquid Membrane-Forming Curing Compound, White, PAMS <i>Provisionally approved per manufacturer's requirement to supply internal QC data and representative 1 quart production lot samples for the first 12 shipments to PennDOT projects.</i>	Certi-Vex Envio Cure White 1315	2018-009Q

711.2(c) Concrete Curing Compound: Black

Last Revised: 7/8/2015

Product	Name	NTPEP Test Number	Ref. No.
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Acquired by ChemMasters, Inc.</i> Liquid Membrane-Forming Curing Compound, Black Emulsified Asphalt	Envio Cure Asphalt	2000-070Q

711.2(d) Concrete Curing Compound: Bridge Deck Intermediate

Last Revised: 11/2/2020

Product	Name	NTPEP Test Number	Ref. No.
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Section 711: Concrete Curing Material and Admixtures

711.2(d) Concrete Curing Compound: Bridge Deck Intermediate

Last Revised: 11/2/2020

Product	Name	NTPEP Test Number	Ref. No.
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html Bridge Deck Intermediate Curing Compound <i>Effective 10/30/2020, the new supplier code for MasterKure ER-50 is MBS12 15.</i>	MasterKure ER-50 (Formerly: Confilm)	1974-038
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Bridge Deck Intermediate Curing Compound	Spray Film	1990-186
DAYT1 15	Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/ Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	AquaFilm Concentrate J74 (formerly Sure Film J74)	1999-206
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Bridge Deck Intermediate Curing Compound	Euco-Bar	1988-088
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/ Bridge Deck Intermediate Curing Compound	Vapor Aid	1993-046
L&MCC 15	L&M Construction Chemicals, Inc., 14851 Calhoun Road, Omaha, NE 68152 http://www.lmcc.com/ Bridge Deck Intermediate Curing Compound	E-Con	1990-176B
MBS12 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 7100 Wright Road Houston, TX 77041 <i>Formerly BASF Building Systems (BASBS 15)</i>	MasterKure ER-50 (Formerly: Confilm)	1974-038
MEDW1 15 Plant	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550 <i>Provisionally Approved</i>	Evapre	1998-182



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Section 711: Concrete Curing Material and Admixtures

711.2(d) Concrete Curing Compound: Bridge Deck Intermediate

Last Revised: 11/2/2020

	Product	Name	NTPEP Test Number	Ref. No.
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 Lyndhurst, NJ Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	http://usa.sika.com/ SikaFilm		2000-130
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 <i>Acquired by ChemMasters, Inc.</i> Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	http://www.vexcon.com/ Certi-Vex Envio Assist		2010-148Q

711.3 Concrete Admixtures

Last Revised: 12/7/2020

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-0 15 Facility	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 23700 Chagrin Blvd. Cleveland, OH 44122 <i>Effective October 1, 2020, new supplier code is MBS-0 15</i>	https://www.basf.com/us/en.html			
A. Note: See BAS-1 (Allentown, PA), BAS-3 (Tipp City, OH), BAS-2 (Gurnee, IL), BAS-10 (Lancaster, TX), BAS-12 (Reynolds, GA), BAS-4 (Levittown/Bristol, PA), BAS-5 (Houston, TX), or BAS-8 (Quebec, Canada) for admixtures formerly listed under BAS-0					



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 12/7/2020

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-1 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Allentown, PA			
	Effective October 1, 2020, new supplier code is MBS-1 15			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 122 (Pozzolith 122HE)	16 to 64 oz/cwt	CADD-2015-01-043	1978-030
	<i>For use in non-reinforced concrete only.</i>			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 (Pozzolith NC 534)	10 to 45 oz/cwt	CADD-2015-01-120	1997-153
Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-031	1994-011
Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	-----
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3400 (Glenium 3400 NV)	2.0 to 12 oz/cwt	CADD-2016-01-099	2004-094Q
	<i>Provisionally Approved</i>			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7500 (Glenium 7500)	7.0 to 15 oz/cwt	CADD-2014-01-086	2007-118Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7620	3.6 oz./cwt and above	CADD-2014-01-053	2015-091QB
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7710 (Glenium 7710)	2.0 to 15 oz/cwt	CADD-2016-01-100	2009-083Q



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 12/7/2020

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-1 15	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
Plant	Allentown, PA				
	Effective October 1, 2020, new supplier code is MBS-1 15				
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1025 (PolyHeed 1025)	3.0 to 12 oz/cwt	CADD-2016-01-141	2003-142Q
	<i>Provisionally Approved</i>				
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterRheobuild 1000 (Rheobuild 1000)	1.0 to 25 oz/cwt	CADD-2105-01-070	1986-373
	Retarding (Type B) Admixture [RE]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	2000-142Q
	Retarding (Type B) Admixture [RE]	MasterSet R 100 (Pozzolith 100-XR)	2.0 to 4.0 oz/cwt	CADD-2016-01-098	1969-013
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-103	2002-034Q
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 7500 (Glenium 7500)	2.0 to 7.0 oz/cwt	CADD-2014-01-085	2007-118Q
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 7620	2.0 to 3.6 oz/cwt	CADD-2014-01-052	2015-091QA
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1025 (PolyHeed 1025)	3.0 to 12 oz/cwt	CADD-2016-01-140	2003-142Q
	<i>Provisionally Approved</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 900 (Polyheed 900)	3.0 to 15 oz/cwt	CADD-2014-01-084	2003-187Q
	<i>Provisionally Approved</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 997 (Polyheed 997)	3.0 to 15 oz/cwt	CADD-2015-01-071	1990-336



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 12/7/2020

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-1 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Allentown, PA				
	Effective October 1, 2020, new supplier code is MBS-1 15				
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	1975-066
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 322 (Pozzolith 322-N)	3.0 to 7.0 oz/cwt	CADD-2014-01-039	1991-049
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>	MasterPozzolith 700	3.0 to 5.0 oz/cwt	CADD-2015-01-044	2018-227Q
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2016-01-028	2001-024Q
	Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	2000-142Q
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2017-01-028	2001-024Q
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet Delvo (Delvo Stabilizer)	3.0 to 5.0 oz/cwt	CADD-2014-01-041	1995-071



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 12/7/2020

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-1015 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Lancaster, TX			
	Effective October 1, 2020, new supplier code is MBS-6 15.			
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 1466 (PS 1466)	2.0 to 10 oz/cwt	CADD-2016-01-143	2005-136Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 7700 (Glenium 7700)	2.0 to 15 oz/cwt	CADD-2016-01-097	2007-119Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)		CADD-2015-01-069	2004-043Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterPolyheed 1720 (Polyheed 1720)	3.0 to 12 oz/cwt	CADD-2015-01-067	2010-145QB
Retarding (Type B) Admixture [RE]	MasterSet R 122 (Pozzolith 122-R)	3.0 to 5.0 oz/cwt	CADD-2010-02-015	1975-014
Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)	3.0 to 5.0 oz/cwt	CADD-2014-01-020	1974-031
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterGlenium 1466 (PS 1466)	2.0 to 10 oz/cwt	CADD-2016-01-142	2005-098Q
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-068	2004-138Q



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Section 711: Concrete Curing Material and Admixtures

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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-1015	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
Plant	Lancaster, TX				
	<i>Effective October 1, 2020, new supplier code is MBS-6 15.</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1720 (Polyheed 1720)	3.0 to 12 oz/cwt	CADD-2015-01-066	2010-145QA
	<i>Provisionally Approved</i>				
BAS-1215	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
Plant	Reynolds, GA				
	<i>Effective October 1, 2020, new supplier code is MBS-9 15.</i>				
	Retarding (Type B) Admixture [RE]	MasterSet R 122 (Pozzolith 122-R)	3.0 to 5.0 oz/cwt	CADD-2010-02-015	1975-014
	Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)		CADD-2014-01-020	1974-031
	Retarding (Type B) Admixture [RE]	MasterSet R 961 (Pozzolith 961R)	3.0 to 5.0 oz/cwt	CADD-2014-01-038	2010-302Q
	<i>Provisionally Approved</i>				
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet R 961 (Pozzolith 961R)	3.0 to 5.0 oz/cwt	CADD-2014-01-038	2010-303Q
	<i>Provisionally Approved</i>				



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-2 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Gurnee, IL Effective October 1, 2020, new supplier code is MBS-2 15				
	Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
	Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
	Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-031	1994-011
	Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	----
	Air Entraining Admixture [AEA]	MasterAir VR 20 (MB-VR Concentrated)	As required		----
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 7511 (PS 1583)	3.0 to 15 oz/cwt	CADD-2014-01-030	2011-253QB
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 7700 (Glenium 7700)	2.0 to 15 oz/cwt	CADD-2016-01-097	2008-100Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-069	2004-043Q
	Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)	3.0 to 5.0 oz/cwt	CADD-2014-01-020	1974-031
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-103	2002-034Q



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-2 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Gurnee, IL <i>Effective October 1, 2020, new supplier code is MBS-2 15</i>				
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterGlenium 7511 (PS 1583)	3.0 to 15 oz/cwt	CADD-2014-01-030	2011-253QA
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-068	2004-138Q
	Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-3 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html			
	Tipp City, OH			
	Effective October 1, 2020, new supplier code is MBS-3 15			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 122 (Pozzolith 122HE)	16 to 64 oz/cwt	CADD-2015-01-043	1978-030
	<i>For use in non-reinforced concrete only.</i>			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 (Pozzolith NC 534)	10 to 45 oz/cwt	CADD-2015-01-087	1997-153
Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
Air Entraining Admixture [AEA]	MasterAir AE 400 (EverAIR Plus)	As required	CADD-2016-01-029	2009-143Q
	<i>Provisionally Approved</i>			
Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-029	1994-011
Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	----
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3400 (Glenium 3400 NV)	2.0 to 12 oz/cwt	CADD-2016-01-099	2004-094Q
	<i>Provisionally Approved</i>			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7500 (Glenium 7500)	7.0 to 15 oz/cwt	CADD-2014-01-086	2007-118Q



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-3 15	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
Plant	Tipp City, OH				
	Effective October 1, 2020, new supplier code is MBS-3 15				
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7710 (Glenium 7710)	2.0 to 15 oz/cwt	CADD-2016-01-100	2009-083Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1725 (Polyheed 1725)	3.0 to 12 oz/cwt	CADD-2015-01-065	2010-212QB
	<i>Provisionally Approved</i>				
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterRheobuild 1000 (Rheobuild 1000)	1.0 to 25 oz/cwt	CADD-2015-01-070	1986-373
	Retarding (Type B) Admixture [RE]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-028	2000-142Q
	Retarding (Type B) Admixture [RE]	MasterSet R 100 (Pozzolith 100-XR)	2.0 to 4.0 oz/cwt	CADD-2016-01-098	1969-013
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-103	2002-034Q
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 7500 (Glenium 7500)	2.0 to 7.0 oz/cwt	CADD-2014-01-085	2007-118Q
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 100 (PolyHeed FC 100)	8 to 30 oz/cwt	CADD-2018-01-035	2006-068Q
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1725 (Polyheed 1725)	3.0 to 12 oz/cwt	CADD-2015-01-064	2010-212QA
	<i>Provisionally Approved</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 900 (Polyheed 900)	3.0 to 15 oz/cwt	CADD-2014-01-084	2003-187Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-3 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html			
	Tipp City, OH			
	Effective October 1, 2020, new supplier code is MBS-3 15			
	<i>Provisionally Approved</i>			
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 997 (Polyheed 997)	3.0 to 15 oz/cwt	CADD-2015-01-071	1990-336
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-032	1975-066
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 700	3 to 5 oz/cwt	CADD-2015-01-044	2018-226Q
	<i>Provisionally Approved: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>			
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2016-01-028	2001-024Q
Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q
Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-028	2000-142Q
Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2017-01-028	2001-024Q
Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet Delvo (Delvo Stabilizer)	3.0 to 5.0 oz/cwt	CADD-2018-01-039	1995-071



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-8 15	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
Plant	St. Leonard, Quebec				
	<i>Effective October 1, 2020, new supplier code is MBS-8 15</i>				
	Water Reducing (Type A) Admixture [WR]	MasterCast 730S (Rheomix 730 2 to 15 oz/cwt FC-S)			2000-320Q
	<i>(Plasticizing Admixture for Precast Only) Provisionally Approved</i>				
CHRYS 15	Chryso, Inc., 1611 Hwy. 276, Rockwell, TX 75032 http://us.chryso.com/index.php				
	Accelerating (Type C) Admixture [ACCL]	Chryso TurboCast NCT		CADD-2016-01-024	2012-227Q
	<i>Provisionally Approved</i>				
	Air Entraining Admixture [AEA]	Chryso Air 260		CADD-2016-01-131	2012-226Q
	<i>Provisionally Approved</i>				
	High Range Water Reducing (Type F) Admixture [HRWR]	Chryso Fluid Optima 256		CADD-2010-01-051	2012-225Q
	<i>Provisionally Approved</i>				



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
DPI-1 15 Facility	DarCole Products, Inc., P.O. Box 1460, Henderson, KY 42419 http://www.darcole.com/ 9130 Hwy 60 West Henderson, KY 42420			
Accelerating (Type C) Admixture [ACCL]	DarNset 166 (DNS 166)	0 to 54 oz/cwt	CADD-2016-01-050	2020-007Q
<i>Provisionally Approved. It is required that the New Products and Innovations team at PennDOT be contacted by the Bulletin 42 Producer two (2) weeks before placement or use on a PennDOT project each time the product is used. Send email to RA-pdBulletin15@pa.gov. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 42 supplier code. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (6/18/2020 to 6/18/2022).</i>				
Air Entraining Admixture [AEA]	DarCole Synthetic Air 110 (DSA 110)	0.25 to 2.0 oz/cwt	CADD-2016-01-049	2020-004Q
<i>Provisionally Approved. It is required that the New Products and Innovations team at PennDOT be contacted by the Bulletin 42 Producer two (2) weeks before placement or use on a PennDOT project each time the product is used. Send email to RA-pdBulletin15@pa.gov. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 42 supplier code. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (6/18/2020 to 6/18/2022).</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	DarCole Super Flow 1443SCC (DSF 1443SCC)	3.0 to 12 oz/cwt	CADD-2016-01-048	2020-008Q
<i>Provisionally Approved. It is required that the New Products and Innovations team at PennDOT be contacted by the Bulletin 42 Producer two (2) weeks before placement or use on a PennDOT project each time the product is used. Send email to RA-pdBulletin15@pa.gov. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 42 supplier code. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (6/18/2020 to 6/18/2022). The maximum allowable dosage for DSF 1443SCC is 12 oz/cwt.</i>				
Water Reducing (Type A) Admixture [WR]	DarNlok 785 (DNL 785)	6.0 to 12 oz/cwt	CADD-2016-01-046	2020-005Q
<i>Provisionally Approved. It is required that the New Products and Innovations team at PennDOT be contacted by the Bulletin 42 Producer two (2) weeks before placement or use on a PennDOT project each time the product is used. Send email to RA-pdBulletin15@pa.gov. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 42 supplier code. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (6/18/2020 to 6/18/2022).</i>				



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCL3 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
Plant	227 Pearl Street Auburndale, FL 33823				
	Water Reducing (Type A) Admixture [WR]	Eucon SE	2.0 to 5.0 oz/cwt	CADD 2016-01-027	2018-206Q
	Water Reducing/Retarding (Type D) Admixture [RR]	Eucon SE	2.0 to 5.0 oz/cwt	CADD 2016-01-035	2018-207Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Accelerating (Type C) Admixture [ACCL]	Accelguard 80	12 to 90 oz/cwt	CADD-2017-01-080	1989-118
Accelerating (Type C) Admixture [ACCL]	Accelguard G3	10 to 90 oz/cwt	CADD-2016-01-005	2016-201Q
Accelerating (Type C) Admixture [ACCL]	Accelguard NCA	12.0 to 75 oz/cwt	CADD-2019-01-001	2015-060QB
Accelerating (Type C) Admixture [ACCL]	Eucon CIA	10 to 90 oz./cwt	CADD-2013-01-025	2015-122QA
Air Entraining Admixture [AEA]	Eucon AEA-92	0.1 to 4.0 oz/cwt	CADD-2015-01-112	1993-024
Air Entraining Admixture [AEA]	Eucon AEA-92S	0.5 to 2.0 oz/cwt	CADD-2017-01-055	2006-080Q
Air Entraining Admixture [AEA]	Eucon Air MAC12	0.1 to 4.0 oz/cwt	CADD-2018-01-005	2012-204Q
<i>Provisionally Approved</i>				
Air Entraining Admixture [AEA]	Eucon Air MAC6	0.1 to 4.0 oz/cwt	CADD-2016-01-036	2016-251Q
Air Entraining Admixture [AEA]	Eucon Air Mix	0.5 to 1.0 oz/cwt	CADD-2019-01-018	1975-080
Air Entraining Admixture [AEA]	Eucon Air Mix 200	0.5 to 1.0 oz/cwt	CADD-2017-01-056	1995-005
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon 1037	8.0 to 25 oz/cwt	CADD-2018-01-007	2003-067Q
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon 37	6.0 to 18 oz/cwt	CADD-2018-01-006	1980-023
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon MR	10 to 15 oz/cwt	CADD-2018-01-002	2012-220QB
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon MRX	7.0 to 12 oz/cwt	CADD-2018-01-047	2018-235Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 341	6.0 to 10 oz/cwt	CADD-2014-01-058	2004-081Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 5000	8.0 to 15 oz/cwt	CADD-2018-01-044	2002-148Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 6400	7.0 to 12 oz/cwt	CADD-2016-01-002	2015-071Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 6420	6.0 to 10 oz/cwt	CADD-2016-01-004	2012-209QB
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol Ultra 109	2.0 to 12 oz/cwt	CADD 2014-01-066	2015-094Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol Ultra 209	2.0 to 12 oz/cwt	CADD-2018-01-042	2016-252Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
High Range Water Reducing/Retarding (Type G) Admixture	Eucon 537	6.0 to 32 oz/cwt	CADD-2015-01-119	1991-282
Retarding (Type B) Admixture [RE]	Eucon Retarder 75	2.0 to 3.0 oz/cwt	CADD-2017-01-089	----
Retarding (Type B) Admixture [RE]	Eucon Stasis	1.0 to 6.0 oz/cwt	CADD-2015-01-116	2015-061QB
<i>NOTE: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a). This product is also known as Eucon W.O. (same formulation and manufacturing process).</i>				
Retarding (Type B) Admixture [RE]	Eucon W.O.	1.0 to 6.0 oz/cwt	CADD-2017-01-017	2015-061QB
<i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				
Water Reducing (Type A) Admixture [WR]	Eucon MR	4.0 to 10 oz/cwt	CADD-2018-01-001	2012-220QA
Water Reducing (Type A) Admixture [WR]	Eucon MRX	3.0 to 5.0 oz/cwt	CADD-2018-01-046	2018-234Q
Water Reducing (Type A) Admixture [WR]	Eucon WR	2.0 to 5.0 oz/cwt	CADD-2019-01-011	----
Water Reducing (Type A) Admixture [WR]	Plastol 341	2.0 to 6.0 oz/cwt	CADD-2015-01-117	2010-165Q
Water Reducing (Type A) Admixture [WR]	Plastol 6420	2.0 to 6.0 oz/cwt	CADD-2016-01-003	2012-209QA
<i>Provisionally Approved</i>				
Water Reducing and Accelerator (Type E) Admixture	Accelguard NCA	12 to 75.0 oz/cwt	CADD-2019-01-002	2015-060QA
Water Reducing and Accelerator (Type E) Admixture	Eucon CIA	10 to 90 oz/cwt	CADD-2017-01-081	2015-122QB
Water Reducing/Retarding (Type D) Admixture [RR]	Eucon Stasis	6.0 to 16 oz/cwt	CADD-2015-01-116	2015-061QA
<i>NOTE: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a). This product is also known as Eucon W.O. (same formulation and manufacturing process).</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	Eucon W.O.	6.0 to 16 oz/cwt	CADD-2011-01-017	2015-061QA
<i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 12/7/2020

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
	Water Reducing/Retarding (Type D) Admixture [RR]	Eucon WR-91	6.0 to 10 oz/cwt	CADD-2017-01-084	1993-023Q
FABRO 15	Great Lakes Polymer Technologies, LLC (dba Fabpro Polymers), 100 South Fabpro Way, Kingman, KS 67068 http://www.fabpropolymers.com/				
	Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF Master Fiber MAC Matrix	3.0 lbs/cy		2016-174Q
	Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber F 70	1.5 lbs/cy		2013-045Q
	Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber M 100	0.5 lbs/cy		2013-047Q
	Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber M 70	1.0 lbs/cy		2013-046Q
	Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber MAC 100	3.0 lbs/cy		2013-048Q
	Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber MAC 360 FF	3.0 lbs/cy		2019-101Q



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GENRT 15 Plant	MAPEI Corporation (Formerly General Resource Technology, Inc.), 2978 Center Court, Eagan, MN 55121-1257 Eagan, MN <i>Effective 1/1/2020, GRT is now MAPEI Corporation</i> See Supplier Code MAPEID15				http://www.mapei.com/US-EN/default.asp



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
GRAC0 15 Facility	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us				
	62 Whittemore Ave. Cambridge, MA 02140-1692				
	<i>Formerly: W. R. Grace and Company</i>				
	Accelerating (Type C) Admixture [ACCL] <i>For non-reinforced concrete only.</i>	Daracel	6.0 to 40 oz/cwt	CADD-2017-01-054	1983-257
	Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2014-01-050	1998-147Q
	Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051	1995-040
	Air Entraining Admixture [AEA]	Daravair 1000	0.25 to 10 oz/cwt	CADD-2018-01-063	1995-041
	Air Entraining Admixture [AEA]	Daravair 1400	0.25 to 10 oz/cwt	CADD-2018-01-066	1995-220
	Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Daravair AT60	0.25 to 10 oz/cwt	CADD-2018-01-062	1997-048
	Air Entraining Admixture [AEA]	Daravair M	0.25 to 10 oz/cwt	CADD-2018-01-067	1981-040
	Air Entraining Admixture [AEA]	Darex AEA	0.25 to 10 oz/cwt	CADD-2018-01-065	1980-049
	Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex EH AEA	0.25 to 10 oz/cwt	CADD-2018-01-068	2003-184Q
	Air Entraining Admixture [AEA]	Darex II AEA	0.25 to 10 oz/cwt	CADD-2017-01-040	1993-207
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 140	5.0 to 20 oz/cwt		2002-119Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA Cast 530	3.0 to 10.0 oz/cwt	CADD-2019-01-037	2002-045Q
High Range Water Reducing (Type F) Admixture [HRWR]	Daracem 19	5.0 to 20.0 oz/cwt	CADD-2019-01-034	1979-028	
Retarding (Type B) Admixture [RE]	Daratard HC	2.0 to 6.0 oz/cwt	CADD-2015-01-110	----	
Water Reducing (Type A) Admixture [WR]	Daracel	8.0 to 80 oz/cwt	CADD-2017-01-054	1983-257	



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
GRAC0 15 Facility GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us 62 Whittemore Ave. Cambridge, MA 02140-1692 <i>Formerly: W. R. Grace and Company</i> <i>For non-reinforced concrete only.</i>	Water Reducing (Type A) Admixture [WR]	Daracem 55	3.0 to 6.0 oz/cwt	CADD-2018-01-022 1995-039Q	
	Water Reducing (Type A) Admixture [WR]	WRDA 20	2.5 oz/cwt	CADD-2017-01-049 1988-231	
	<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
	Water Reducing (Type A) Admixture [WR]	WRDA 35	2.0 to 6.0 oz/cwt	CADD-2014-01-048 1998-001	
	Water Reducing (Type A) Admixture [WR]	WRDA 82	2.0 to 6.0 oz/cwt	CADD-2017-01-050 1991-167	
	Water Reducing (Type A) Admixture [WR]	WRDA/Hycol	2.0 to 6.0 oz/cwt	CADD-2019-01-031 1982-121Q	
	Water Reducing/Retarding (Type D) Admixture [RR]	Daratard 17	2.0 to 8.0 oz/cwt	CADD-2019-01-029 1974-037	



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC2 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us North Bergen, NJ <i>Formerly: W. R. Grace and Company</i>			
Accelerating (Type C) Admixture [ACCL] <i>For non-reinforced concrete only.</i>	Daracel	6.0 to 40 oz/cwt	CADD-2017-01-054	1983-257
Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2014-01-050	1998-147Q
Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051	1995-040
Air Entraining Admixture [AEA]	Daravair 1000	0.25 to 10 oz/cwt	CADD-2018-01-063	1995-041
Air Entraining Admixture [AEA]	Daravair 1400	0.25 to 10 oz/cwt	CADD-2018-01-066	1995-220
Air Entraining Admixture [AEA]	DARAVAIR AT30	0.25 to 3 oz/cwt	CADD-2018-01-064	2015-200Q
Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Daravair AT60	0.25 to 10 oz/cwt	CADD-2018-01-062	1997-048
Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex EH AEA	0.25 to 10 oz/cwt	CADD-2018-01-068	2003-184Q
Air Entraining Admixture [AEA]	Darex II AEA	0.25 to 10 oz/cwt	CADD-2017-01-040	1993-207
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 140	5.0 to 20 oz/cwt		2002-119Q
High Range Water Reducing (Type F) Admixture [HRWR]	ADVA Flex	4.0 to 14 oz./cwt	CADD-2019-01-035	2015-070Q
High Range Water Reducing (Type F) Admixture [HRWR]	Daracem 19	5.0 to 20.0 oz/cwt	CADD-2019-01-034	1979-028
Retarding (Type B) Admixture [RE]	Daratard HC	2.0 to 6.0 oz/cwt	CADD-2015-01-110	----
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	ADVA 140M	2.0 to 6.0 oz/cwt	CADD-2017-01-034	2012-101Q
Water Reducing (Type A) Admixture [WR]	Daracel	8.0 to 80 oz/cwt	CADD-2017-01-054	1983-257



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC2 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us North Bergen, NJ <i>Formerly: W. R. Grace and Company</i>			
	<i>For non-reinforced concrete only.</i>			
	Water Reducing (Type A) Admixture [WR]	Daracem 55	3.0 to 6.0 oz/cwt	CADD-2018-01-022 1995-039
	Water Reducing (Type A) Admixture [WR]	WRDA 20	2.5 oz/cwt	CADD-2017-01-049 1988-231
	Water Reducing (Type A) Admixture [WR]	WRDA 35	2.0 to 6.0 oz/cwt	CADD-2014-01-048 1998-001
	Water Reducing (Type A) Admixture [WR]	WRDA 82	2.0 to 6.0 oz/cwt	CADD-2017-01-050 1991-167
	Water Reducing (Type A) Admixture [WR]	WRDA/Hycol	2.0 to 6.0 oz/cwt	CADD-2019-01-031 1982-121
	Water Reducing/Retarding (Type D) Admixture [RR]	Recover	2.0 to 8.0 oz/cwt	CADD-2014-01-045 2012-100Q
	<i>Provisionally Approved</i>			
	Water Reducing/Retarding (Type D) Admixture [RR]	WRDA 20	3 to 5 oz/cwt	CADD-2017-01-049 2009-186Q
	<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>			
	Water Reducing/Retarding (Type D) Admixture [RR]	Zyla R	2.0 to 12 oz/cwt	CADD-2017-01-031 2012-173QB
	<i>Provisionally Approved</i>			



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC3 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140 https://gcpat.com/en-us 6050 West 51st Street Chicago, IL 60638 <i>Formerly: W. R. Grace and Company</i>			
Accelerating (Type C) Admixture [ACCL] <i>For non-reinforced concrete only.</i>	Daraccel	6.0 to 40 oz/cwt	CADD-2017-01-054	1983-257
Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2014-01-050	1998-147
Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051	1995-040
Air Entraining Admixture [AEA]	Daravair 1400	0.25 to 10 oz/cwt	CADD-2018-01-066	1995-220
Air Entraining Admixture [AEA]	Daravair M	0.25 to 10 oz/cwt	CADD-2018-01-067	1981-040
Air Entraining Admixture [AEA]	Darex AEA	0.25 to 10 oz/cwt	CADD-2018-01-065	1980-049
Air Entraining Admixture [AEA]	Terapave AEA	0.25 to 1.0 oz/cwt	CADD-2015-01-104	2015-111Q
High Range Water Reducing (Type F) Admixture [HRWR]	ADVA 140M	5.0 to 20 oz/cwt	CADD-2014-01-044	2013-091QA
High Range Water Reducing (Type F) Admixture [HRWR]	Daracem 19	5.0 to 20 oz/cwt	CADD-2019-01-034	1979-028
Water Reducing (Type A) Admixture [WR]	ADVA 140M	2.0 to 6.0 oz/cwt	CADD-2017-01-034	2013-091QB
Water Reducing (Type A) Admixture [WR]	Daraccel	8.0 to 80 oz/cwt	CADD-2017-01-054	1983-257
Water Reducing (Type A) Admixture [WR]	WRDA 20	2.5 oz/cwt	CADD-2017-01-049	1988-231
<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	Daratard 17	2.0 to 8.0 oz/cwt	CADD-2019-01-029	1974-037Q
Water Reducing/Retarding (Type D) Admixture [RR] <i>Provisionally Approved</i>	Recover	2.0 to 8.0 oz/cwt	CADD-2014-01-045	2013-093Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC5 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140 https://gcpat.com/en-us Houston, TX <i>Formerly: W. R. Grace and Company</i>			
	Accelerating (Type C) Admixture [ACCL]	Daraset 400	8.0 to 100 oz/cwt	CADD-2017-01-053 2007-093Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 140M	5.0 to 20 oz/cwt	CADD-2014-01-044 2009-064Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 190 Type F	3.0 to 15 oz/cwt	CADD-2018-01-013 2008-202Q
	High Range Water Reducing (Type F) Admixture [HRWR]	ADVA Cast 530	3.0 to 10 oz/cwt	CADD-2019-01-037 2002-045Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA Cast 555	8.0 to 20 oz/cwt	CADD-2018-01-020 2007-032Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>	ADVA Cast 575	2.0 to 10 oz/cwt	CADD-2018-01-014 2007-065Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA Cast 600	2.0 to 10 oz/cwt	CADD-2017-01-037 2010-157Q
	High Range Water Reducing (Type F) Admixture [HRWR]	ADVA ITM750	3.0 to 10 oz/cwt	CADD-2017-01-047 2018-195Q
	High Range Water Reducing (Type F) Admixture [HRWR]	CONCERA SA8080	8.0 to 20 oz/cwt	CADD-2017-01-018 2019-134Q
	High Range Water Reducing (Type F) Admixture [HRWR] <i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>	EXP 950	2.0 to 10 oz/cwt	CADD-2018-01-015 2009-145Q



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC6 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140 https://gcpat.com/en-us				
	Augusta, GA <i>Formerly: W. R. Grace and Company</i>				
	Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2014-01-050	2010-102QB
	Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051	2010-102QA
GRAC8 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140 https://gcpat.com/en-us				
	Lithonia, GA <i>Formerly: W. R. Grace and Company</i>				
	Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex AEA	0.25 to 10 oz/cwt	CADD-2018-01-065	2010-103QA
	Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex II AEA	0.25 to 10 oz/cwt	CADD-2017-01-040	2010-103QE
	High Range Water Reducing (Type F) Admixture [HRWR]	ADVA 198	2.0 to 15 oz/cwt	CADD-2018-01-017	2016-297Q
	High Range Water Reducing (Type F) Admixture [HRWR]	ADVA Cast 585	2.0 to 12 oz/cwt	CADD-2018-01-019	2016-173Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MIRA 95	2 to 15 oz/cwt	CADD-2018-01-016	2016-172Q
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	Daraccel	8.0 to 100 oz/cwt	CADD-2017-01-054	2010-103QB
Water Reducing (Type A) Admixture [WR]	Zyla 640	2.0 to 6.0 oz/cwt	CADD-2017-01-023	2012-174Q	



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GREET 15	Great Eastern Technologies, LLC, 4407 Broad Street, Yardville, NJ 08620 http://www.greateasterntechnologies.com/				
	Air Entraining Admixture [AEA]	Setcon 6A	0.25 to 4 oz/cwt	CADD-2015-01-054	2012-091Q
	High Range Water Reducing (Type F) Admixture [HRWR]	PolyStrong	up to 18 oz/cwt	CADD-2011-02-010	2012-070QC
	High Range Water Reducing (Type F) Admixture [HRWR]	PolyStrong HP	up to 18 oz/cwt	CADD-2015-01-053	2012-070QD
	Water Reducing/Retarding (Type D) Admixture [RR]	ChemStrong R	2.0 to 4.0 oz/cwt	CADD-2015-01-050	2006-174Q
GRTL 15	MAPEI Corporation (Formerly General Resource Technology, Inc.), 2978 Center Court, Eagan, MN 55121-1257 http://www.mapei.com/US-EN/default.asp				
Plant	Logan Township, NJ <i>Effective 1/1/2020, GRT is now MAPEI Corporation</i> See Supplier Code MAPEIC15				
MAPEIC15	MAPEI Corporation, 2978 Center Court, Eagan, MN 55121-1257 http://www.mapei.com/US-EN/default.asp				
Plant	Logan Township (Swedesboro), NJ <i>Formerly GRTL 15</i>				
	Accelerating (Type C) Admixture [ACCL]	Polychem Super Set	8.0 to 32 oz/cwt		2018-172Q
	Air Entraining Admixture [AEA]	Polychem SA-50	0.50 to 3.0 oz/cwt	CADD-2016-01-081	2019-090Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon NRG 1092	3.0 to 15 oz/cwt	CADD-2018-01-089	2019-087Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon SX	3.0 to 15 oz/cwt	CADD-2016-01-080	2018-169Q
	Water Reducing (Type A) Admixture [WR]	Polychem 400 NC	3.0 to 5.0 oz/cwt	CADD-2016-01-077	2018-170Q
	Water Reducing/Retarding (Type D) Admixture [RR]	Polychem R	2.0 to 5.0 oz/cwt	CADD-2016-01-093	2018-171Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MAPEID15	MAPEI Corporation, 2978 Center Court, Eagan, MN 55121-1257 http://www.mapei.com/US-EN/default.asp				
Plant	Eagan, MN				
	Formerly GENRT 15				
	Accelerating (Type C) Admixture [ACCL]	Polychem Super Set	8.0 to 32 oz/cwt		1995-218
	Air Entraining Admixture [AEA]	Polychem SA-50	0.50 to 3.0 oz/cwt	CADD-2016-01-081	2016-156Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon SX	3.0 to 15 oz/cwt	CADD-2016-01-080	2016-205Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Polychem 3000	6.0 to 20 oz/cwt	CADD-2016-01-078	2016-157Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Polychem SPC	5.0 to 12 oz/cwt	CADD-2017-01-075	2017-119Q
	Retarding (Type B) Admixture [RE]	Polychem Renu	1.0 to 12 oz/cwt	CADD-2016-01-085	2018-074Q
	Water Reducing (Type A) Admixture [WR]	Polychem 3000	1.0 to 20 oz/cwt	CADD-2016-01-088	2016-238Q
	Water Reducing (Type A) Admixture [WR]	Polychem 400 NC	3 to 5 oz/cwt	CADD-2016-01-077	2016-155Q
	Water Reducing (Type A) Admixture [WR]	Polychem Super Set	8.0 to 32 oz/cwt		1995-218
	Water Reducing/Retarding (Type D) Admixture [RR]	Polychem-R	2.0 to 5.0 oz/cwt	CADD-2016-01-093	2016-206Q

MBS-0 15	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
Facility	23700 Chagrin Blvd. Cleveland, OH 44122				
	Formerly BASF Construction Chemicals (BAS-0 15)				

A. Note:

See MBS-1 (Allentown, PA), MBS-3 (Tipp City, OH), MBS-2 (Gurnee, IL), MBS-6 (Lancaster, TX), MBS-9 (Reynolds, GA), MBS-4 (Levittown/Bristol, PA), MBS-5 (Houston, TX), or MBS-8 (Quebec, Canada) for admixtures formerly listed under MBS-0



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-1 15 Plant Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA Formerly BASF Construction Chemicals (BAS-115)	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 122 (Pozzolith 122HE)	16 to 64 oz/cwt	CADD-2015-01-043	1978-030
	<i>For use in non-reinforced concrete only.</i>				
	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 (Pozzolith NC 534)	10 to 45 oz/cwt	CADD-2015-01-120	1997-153
	Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
	Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
	Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-031	1994-011
	Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	-----
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3400 (Glenium 3400 NV)	2.0 to 12 oz/cwt	CADD-2016-01-099	2004-094Q
	<i>Provisionally Approved</i>				
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7500 (Glenium 7500)	7.0 to 15 oz/cwt	CADD-2014-01-086	2007-118Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7620	3.6 oz./cwt and above	CADD-2014-01-053	2015-091QB
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7710 (Glenium 7710)	2.0 to 15 oz/cwt	CADD-2016-01-100	2009-083Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-1 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Allentown, PA			
	Formerly BASF Construction Chemicals (BAS-115)			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1025 (PolyHeed 1025)	3.0 to 12 oz/cwt	CADD-2016-01-141	2003-142Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterRheobuild 1000 (Rheobuild 1000)	1.0 to 25 oz/cwt	CADD-2105-01-070	1986-373
Retarding (Type B) Admixture [RE]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	2000-142Q
Retarding (Type B) Admixture [RE]	MasterSet R 100 (Pozzolith 100-XR)	2.0 to 4.0 oz/cwt	CADD-2016-01-098	1969-013
Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-103	2002-034Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 7500 (Glenium 7500)	2.0 to 7.0 oz/cwt	CADD-2014-01-085	2007-118Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 7620	2.0 to 3.6 oz/cwt	CADD-2014-01-052	2015-091QA
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1025 (PolyHeed 1025)	3.0 to 12 oz/cwt	CADD-2016-01-140	2003-142Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 900 (Polyheed 900)	3.0 to 15 oz/cwt	CADD-2014-01-084	2003-187Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 997 (Polyheed 997)	3.0 to 15 oz/cwt	CADD-2015-01-071	1990-336



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-1 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Allentown, PA			
	Formerly BASF Construction Chemicals (BAS-115)			
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	1975-066
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 322 (Pozzolith 322-N)	3.0 to 7.0 oz/cwt	CADD-2014-01-039	1991-049
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 700	3.0 to 5.0 oz/cwt	CADD-2015-01-044	2018-227Q
	<i>Provisionally Approved: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>			
Water Reducing (Type A) Admixture [WR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2016-01-028	2001-024Q
Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q
Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	2000-142Q
Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2017-01-028	2001-024Q
Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet Delvo (Delvo Stabilizer)	3.0 to 5.0 oz/cwt	CADD-2014-01-041	1995-071



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-2 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Gurnee, IL			
	Formerly BASF Construction Chemicals (BAS-2 15)			
Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-031	1994-011
Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	----
Air Entraining Admixture [AEA]	MasterAir VR 20 (MB-VR Concentrated)	As required		----
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 7511 (PS 1583)	3.0 to 15 oz/cwt	CADD-2014-01-030	2011-253QB
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 7700 (Glenium 7700)	2.0 to 15 oz/cwt	CADD-2016-01-097	2008-100Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-069	2004-043Q
Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)	3.0 to 5.0 oz/cwt	CADD-2014-01-020	1974-031
Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-103	2002-034Q



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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-2 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Gurnee, IL Formerly BASF Construction Chemicals (BAS-2 15)				
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterGlenium 7511 (PS 1583)	3.0 to 15 oz/cwt	CADD-2014-01-030	2011-253QA
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-068	2004-138Q
	Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Tipp City, OH			
	Formerly BASF Construction Chemicals (BAS-3 15)			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 122 (Pozzolith 122HE)	16 to 64 oz/cwt	CADD-2015-01-043	1978-030
	<i>For use in non-reinforced concrete only.</i>			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 (Pozzolith NC 534)	10 to 45 oz/cwt	CADD-2015-01-087	1997-153
Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
Air Entraining Admixture [AEA]	MasterAir AE 400 (EverAIR Plus)	As required	CADD-2016-01-029	2009-143Q
	<i>Provisionally Approved</i>			
Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-029	1994-011
Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	----
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3400 (Glenium 3400 NV)	2.0 to 12 oz/cwt	CADD-2016-01-099	2004-094Q
	<i>Provisionally Approved</i>			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7500 (Glenium 7500)	7.0 to 15 oz/cwt	CADD-2014-01-086	2007-118Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Tipp City, OH			
	Formerly BASF Construction Chemicals (BAS-3 15)			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7710 (Glenium 7710)	2.0 to 15 oz/cwt	CADD-2016-01-100	2009-083Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1725 (Polyheed 1725)	3.0 to 12 oz/cwt	CADD-2015-01-065	2010-212QB
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterRheobuild 1000 (Rheobuild 1000)	1.0 to 25 oz/cwt	CADD-2015-01-070	1986-373
Retarding (Type B) Admixture [RE]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-028	2000-142Q
Retarding (Type B) Admixture [RE]	MasterSet R 100 (Pozzolith 100-XR)	2.0 to 4.0 oz/cwt	CADD-2016-01-098	1969-013
Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 18 oz/cwt	CADD-2016-01-103	2002-034Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 7500 (Glenium 7500)	2 to 7.0 oz/cwt	CADD-2014-01-085	2007-118Q
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 100 (PolyHeed FC 100)	8 to 30 oz/cwt	CADD-2018-01-035	2006-068Q
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1725 (Polyheed 1725)	3.0 to 12 oz/cwt	CADD-2015-01-064	2010-212QA
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 900 (Polyheed 900)	3.0 to 15 oz/cwt	CADD-2014-01-084	2003-187Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-3 15 Plant Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Tipp City, OH Formerly BASF Construction Chemicals (BAS-3 15) <i>Provisionally Approved</i>	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 997 (Polyheed 997)	3.0 to 15 oz/cwt	CADD-2015-01-071	1990-336
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-032	1975-066
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 700	3 to 5 oz/cwt	CADD-2015-01-044	2018-226Q
	<i>Provisionally Approved: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2016-01-028	2001-024Q
	Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-028	2000-142Q
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2017-01-028	2001-024Q
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet Delvo (Delvo Stabilizer)	3.0 to 5.0 oz/cwt	CADD-2018-01-039	1995-071



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-6 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Lancaster, TX			
	Formerly BASF Construction Chemicals (BAS-1015)			
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 1466 (PS 1466)	2.0 to 10 oz/cwt	CADD-2016-01-143	2005-136Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterGlenium 7700 (Glenium 7700)	2.0 to 15 oz/cwt	CADD-2016-01-097	2007-119Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)		CADD-2015-01-069	2004-043Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	MasterPolyheed 1720 (Polyheed 1720)	3.0 to 12 oz/cwt	CADD-2015-01-067	2010-145QB
Retarding (Type B) Admixture [RE]	MasterSet R 122 (Pozzolith 122-R)	3.0 to 5.0 oz/cwt	CADD-2010-02-015	1975-014
Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)	3.0 to 5.0 oz/cwt	CADD-2014-01-020	1974-031
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterGlenium 1466 (PS 1466)	2.0 to 10 oz/cwt	CADD-2016-01-142	2005-098Q
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-068	2004-138Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-6 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Lancaster, TX Formerly BASF Construction Chemicals (BAS-1015) Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	MasterPolyheed 1720 (Polyheed 1720)	3.0 to 12 oz/cwt	CADD-2015-01-066	2010-145QA
MBS-8 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us St. Leonard, Quebec Formerly BASF Construction Chemicals (BAS-8 15) Water Reducing (Type A) Admixture [WR] <i>(Plasticizing Admixture for Precast Only) Provisionally Approved</i>	MasterCast 730S (Rheomix 730 2 to 15 oz/cwt FC-S)			2000-320Q



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-9 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
	Reynolds, GA <i>Formerly BASF Construction Chemicals (BAS-1215)</i>				
	Retarding (Type B) Admixture [RE]	MasterSet R 122 (Pozzolith 122-R)	3.0 to 5.0 oz/cwt	CADD-2010-02-015	1975-014
	Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)		CADD-2014-01-020	1974-031
	Retarding (Type B) Admixture [RE]	MasterSet R 961 (Pozzolith 961R)	3.0 to 5.0 oz/cwt	CADD-2014-01-038	2010-302Q
	<i>Provisionally Approved</i>				
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet R 961 (Pozzolith 961R)	3.0 to 5.0 oz/cwt	CADD-2014-01-038	2010-303Q
	<i>Provisionally Approved</i>				
MINRD 15	Mineral Research & Development, 5910 Pharr Mill Road, Harrisburg, NC 28075-8625 http://www.mrdc.com/				
	Accelerating (Type C) Admixture [ACCL]	Sika BNI		CADD-2015-01-111	2010-267Q
	<i>Provisionally Approved</i>				



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See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
PRECA 15	Premiere Concrete Admixtures, 508 Cedar Street, Pioneer, OH 43554 http://www.premiereadmix.com/			
Accelerating (Type C) Admixture [ACCL]	NitroCast K	6.0 to 90 oz/cwt		2011-170Q
Accelerating (Type C) Admixture [ACCL]	NitroCast NC	8.0 to 90 oz/cwt	CADD-2016-01-122	2011-178Q
Air Entraining Admixture [AEA]	ConAir	0.2 to 3.0 oz/cwt		2011-243Q
Air Entraining Admixture [AEA]	ConAir 260	0.2 to 3.0 oz/cwt	CADD-2106-01-119	2011-244Q
High Range Water Reducing (Type F) Admixture [HRWR]	EcoFlo Green	1.5 to 10 oz/cwt		2011-174QB
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo 2000	6.0 to 16 oz/cwt	CADD-2016-01-127	2010-167QA
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo 4600	7.0 to 24 oz/cwt		2010-174Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo DP	4.0 to 14 oz/cwt	CADD-2016-01-126	2011-175Q
Water Reducing (Type A) Admixture [WR]	EcoFlo Green	1.5 to 10 oz/cwt		2011-174QA
Water Reducing (Type A) Admixture [WR]	OptiFlo 50			2011-169Q
Water Reducing (Type A) Admixture [WR]	OptiFlo MR	3.0 to 5.0 oz/cwt	CADD-2016-01-120	2011-166Q
Water Reducing (Type A) Admixture [WR]	OptiFlo Plus	5.0 to 10 oz/cwt		2011-165Q
Water Reducing (Type A) Admixture [WR]	UltraFlo 2000	up to 3.0 oz/cwt		2010-167QB
Water Reducing/Retarding (Type D) Admixture [RR]	OptiFlo 100R	2.0 to 8.0 oz/cwt		2011-177Q
Water Reducing/Retarding (Type D) Admixture [RR]	OptiFlo Renu			2011-176Q



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
RTECH 15	RussTech, Inc., 11208 Decimal Drive, Louisville, KY 40299			
Air Entraining Admixture [AEA]	RAE-260	0.50 to 2.0 oz/cwt	CADD-2015-01-002	2019-054Q
Air Entraining Admixture [AEA]	RSA-10	0.5 to 2.0 oz/cwt	CADD-2015-01-001	2016-268Q
High Range Water Reducing (Type F) Admixture [HRWR]	Superflo 2000 SCC	4.0 to 26 oz/cwt	CADD-2015-01-008	2017-123Q
High Range Water Reducing (Type F) Admixture [HRWR]	Superflo 443	10.0 to 26.0 oz/cwt	CADD-2019-01-026	2019-052Q
Water Reducing (Type A) Admixture [WR]	FinishEase-NC	2.0 to 8.0 oz/cwt	CADD-2015-01-010	2019-050Q
Water Reducing (Type A) Admixture [WR]	LC-400P	3.0 to 5.0 oz/cwt	CADD-2015-01-003	2016-276Q
Water Reducing (Type A) Admixture [WR]	Superflo 2000 SCC	1.0 to 3.0 oz/cwt	CADD-2015-01-008	2016-275Q
Water Reducing and Accelerator (Type E) Admixture	LCNC-166	8.0 to 90 oz/cwt	CADD-2015-01-006	2016-269Q
Water Reducing/Retarding (Type D) Admixture [RR]	LC-400P	< 65° F (5 to 6 oz/cwt); 65 °F - 85 °F (6 to 7 oz/cwt); >85 °F (7 to 8 oz/cwt)	CADD-2015-01-003	2017-124Q
Water Reducing/Retarding (Type D) Admixture [RR]	RussTech Renu	1.0 to 12 oz/cwt	CADD-2015-01-005	2018-092Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Section 711.3(e) for Latex Emulsion Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071			
Accelerating (Type C) Admixture [ACCL]	SikaSet NC	8.0 to 64.0 oz/cwt	CADD-2014-01-033	2000-271Q
Air Entraining Admixture [AEA]	Sika Air	Up to 3.0 oz/cwt	CADD-2016-01-105	2000-061Q
Early Strength Accelerator Admixture	Sika Rapid 1	8.0 to 64.0 oz/cwt	CADD-2015-01-083	1996-138Q
Grout Fluidifier Admixture	IntraPlast-N	1% by weight of cementitious		1974-028Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 686	6.0 to 18.0 oz/cwt	CADD-2016-01-114	2005-031Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 2100	2.5 to 12.0 oz/cwt	CADD-2014-01-057	2004-142Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ViscoCrete 6100	3.0 to 12.0 oz/cwt	CADD-2016-01-109	2003-032Q
Water Reducing (Type A) Admixture [WR]	Sikament 686	3.0 to 6.0 oz/cwt	CADD-2016-01-110	2005-031Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302			
Air Entraining Admixture [AEA]	Sika AEA 14	Up to 3.0 oz/cwt	CADD-2016-01-001	2004-141Q
Grout Fluidifier Admixture	IntraPlast-N	1% by weight of cementitious		1974-028
High Range Water Reducing (Type F) Admixture [HRWR]	Sika ViscoCrete-1000	5.0 to 21.0 oz/cwt	CADD-2015-01-085	2012-028B
High Range Water Reducing (Type F) Admixture [HRWR]	Sika ViscoCrete-4100	3.0 to 12.0 oz/cwt	CADD-2017-01-001	2015-075Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 686	6.0 to 18.0 oz/cwt	CADD-2016-01-114	2005-031Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament AFM	8.0 to 18.0 oz/cwt	CADD-2016-01-008	2006-193Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 2100	2.5 to 12.0 oz/cwt	CADD-2014-01-057	2004-142Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 6100	3.0 to 12.0 oz/cwt	CADD-2016-01-109	2003-032Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	Sika ViscoCrete-1000	2.0 to 5.0 oz/cwt	CADD-2016-01-108	2016-287Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoFlow-2020	2.0 to 15.0 oz/cwt	CADD-2016-01-117	2018-030Q
<i>Dosage rates of Sika ViscoFlow-2020 will vary according to materials used, ambient conditions, and the requirements of a specific project. Typical dosage rates are 2 to 8 oz/cwt for general concrete applications. If maximum slump retention is required dosage up to 15 oz/cwt may be used.</i>				
Water Reducing (Type A) Admixture [WR]	Sikament 686	3.0 to 6.0 oz/cwt	CADD-2016-01-110	2005-031Q
Water Reducing (Type A) Admixture [WR]	Sikament AFM	3.0 to 8.0 oz/cwt	CADD-2016-01-007	2008-031Q
<i>Provisionally Approved</i>				



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Fairless Hills, PA			
Accelerating (Type C) Admixture [ACCL]	SikaSet NC	8.0 to 64.0 oz/cwt	CADD-2014-01-033	2003-164Q
Air Entraining Admixture [AEA]	Sika AEA 14	Up to 3.0 oz/cwt	CADD-2016-01-001	2004-141Q
Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Sika AER C	Up to 1.5 oz/cwt	CAD-2016-01-095	2012-138Q
Air Entraining Admixture [AEA]	Sika Air	Up to 3.0 oz/cwt	CADD-2016-01-105	2000-061Q
Air Entraining Admixture [AEA]	Sika Air 260	Up to 6.0 oz/cwt	CADD-2016-01-106	2012-139Q
Air Entraining Admixture [AEA]	Sika Air 360	Up to 6.0 oz/cwt	CADD-2016-01-107	2012-140Q
Air Entraining Admixture [AEA]	SikaControl AIR-160	0.1 to 6.0 oz/cwt	CADD-2018-01-012	2019-027Q
Early Strength Accelerator Admixture	Sika Rapid-1	8.0 to 64.0 oz/cwt	CADD-2015-01-083	1996-138Q
Grout Fluidifier Admixture	IntraPlast-N	1% by weight of cementitious		1974-028
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	Sikament 610	5.0 to 18.0 oz/cwt	CADD-2014-01-034	2010-274QA
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 686	6.0 to 18.0 oz/cwt	CADD-2016-01-114	2005-031Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament AFM	8.0 to 18.0 oz/cwt	CADD-2016-01-008	2006-193Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament SPMN	Up to 40.0 oz/cwt	CADD-2017-01-014	2012-136QB
High Range Water Reducing (Type F) Admixture [HRWR] <i>If maximum water reduction is required, a dosage of up to 20 oz/cwt or above may be used.</i>	Sikament-475	7.0 to 15.0 oz/cwt	CADD-2015-01-102	2017-076Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 1000	5.0 to 21.0 oz/cwt	CADD-2015-01-085	2012-028B
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 2100	2.5 to 12.0 oz./cwt	CADD-2014-01-057	2004-142Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ViscoCrete 6100	3.0 to 12.0 oz/cwt	CADD-2016-01-109	2003-032Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Fairless Hills, PA			
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete-4100	3.0 to 12.0 oz./cwt	CADD-2017-01-001	2015-075Q
Retarding (Type B) Admixture [RE]	Sika Plastiment	0.5 to 5.0 oz/cwt	CADD-2014-01-032	2009-032QA
Retarding (Type B) Admixture [RE]	Sikatard 440	1.0 to 10.0 oz/cwt	CADD-2016-01-113	2011-195Q
Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-10 N	1.5 to 3.0 oz/cwt	CADD-2017-01-015	2012-137QA
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	Sika Plastocrete-161	2.0 to 5.5 oz/cwt	CADD-2015-01-086	2012-221Q
Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-250	2.0 to 5.0 oz/cwt	CADD-2016-01-075	2018-202Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoCrete-1000	2.0 to 5.0 oz/cwt	CADD-2016-01-108	2016-288Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoFlow-2020	2.0 to 15 oz/cwt	CADD-2016-01-117	2018-031Q
<i>Dosage rates of Sika ViscoFlow-2020 will vary according to materials used, ambient conditions, and the requirements of a specific project. Typical dosage rates are 2 to 8 oz/cwt for general concrete applications. If maximum slump retention is required dosage up to 15 oz/cwt may be used.</i>				
Water Reducing (Type A) Admixture [WR]	Sikament 686	3.0 to 6.0 oz/cwt	CADD-2016-01-110	2005-031Q
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	Sikament AFM	3.0 to 8.0 oz/cwt	CADD-2016-01-007	2008-031Q
Water Reducing (Type A) Admixture [WR]	Sikament-475	3.0 to 8.0 oz/cwt	CADD-2015-01-101	2017-075Q
Water Reducing (Type A) Admixture [WR]	Sikaplast 200	Up to 12.0 oz/cwt	CADD-2019-01-022	2012-132Q
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	Sikaplast 300 GP	Up to 12.0 oz/cwt	CADD-2016-01-112	2012-134Q
Water Reducing (Type A) Admixture [WR]	ViscoCrete 2100	1.0 to 3.5 oz/cwt	CADD-2014-01-056	2008-032Q
Water Reducing and Accelerator (Type E) Admixture	SikaSet NC			2003-164Q
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastiment	2.0 to 5.0 oz/cwt	CADD-2014-01-032	2009-032QB
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-10 N	3.0 to 5.0 oz/cwt	CADD-2017-01-016	2012-137QC



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/				
Plant	Fairless Hills, PA				
	<i>Provisionally Approved</i>				
	Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-161	5.0 to 10.0 oz/cwt	CADD-2015-01-084	2016-183Q
	Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-250	5 to 9 oz/cwt	CADD-2017-01-002	2018-203Q
SIKA6 15	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/				
Plant	Ottawa, IL				
	Retarding (Type B) Admixture [RE]	Sika Plastiment XR	2.0 to 5.0 oz/cwt	CADD-2014-01-095	2016-093Q
	Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-161	2.0 to 5.5 oz/cwt	CADD-2015-01-086	2016-235Q
	Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastiment XR	2.0 to 5.0 oz/cwt	CADD-2014-01-095	2016-093Q
	Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-161	5.0 to 10.0 oz/cwt	CADD-2015-01-084	2016-182Q
SPCRT 15	Specrete-IP, Inc., 10703 Quebec Ave., Cleveland, OH 44106 http://specrete.com/				
	Grout Fluidifier Admixture	Intrusion-Aid C			1969-010
	Grout Fluidifier Admixture	Intrusion-Aid DSC			1969-010
	Grout Fluidifier Admixture	Intrusion-Aid LS			1969-010
	Grout Fluidifier Admixture	Intrusion-Aid R			1969-010

711.3(e) Latex Emulsion Admixture

Last Revised: 5/1/2017

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
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711.3(e) Latex Emulsion Admixture

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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BASFC 15 BASF Corporation, 370 Frankfort Road, Monaca, PA 15061 Latex Emulsion Admixture [LATEX]	https://www.basf.com/us/en.html Styrofan 1186			2009-129Q
DOWRE 15 Plant Dow Reichhold Specialty Latex, P. O. Box 13906, Research Triangle Park, NC 27709 P. O. Box 13906 Research Triangle Park, NC 27709 Latex Emulsion Admixture [LATEX]	http://www.reichhold.com/ Tylac 97314-00			1990-287
TRINO 15 Plant Trinseo, LLC, 1000 Chesterbrook Blvd, Suite 300, Berwyn, PA 19312 Midland, MI Latex Emulsion Admixture [LATEX]	http://www.trinseo.com/ Trinseo Modifier A/NA Latex			2013-022Q

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
ASH-0 15 Ashland Aqualon Functional Ingredients, 1313 North Market Street, Wilmington, DE 19801 Anti-Washout Admixture - Army Corps Std. CRD-C 661-06 <i>Manufactured by Aqualon Company for BASF.</i>	http://www.ashland.com/ MasterMatrix UW 450 (Rheomac UW 450)			2011-196
Viscosity Modifying Admixture [S-VM] <i>Manufactured by Aqualon Company for BASF.</i>	MasterMatrix VMA 450 (Rheomac VMA 450)			2011-251



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711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
BAS-1 15 Plant BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Allentown, PA Effective October 1, 2020, new supplier code is MBS-1 15	Shrinkage Reducing Admixture [S-SRA]	MasterLife SRA 035	See Note	CADD-2016-01-102	2018-148Q
	<i>Provisionally Approved: Concrete plants are required to submit a cylinder for hardened air testing to PennDOT's Material Testing Laboratory, 82 Dogwood Avenue, Harrisburg, PA 17110 during the JMF mix design approval process. For field projects, two cylinders must be submitted for hardened air testing to the Materials Testing Laboratory. These are in addition to any cylinders submitted for compressive strength testing. The provisional approval requirements will remain in place for a period of three years until February 1st, 2023 .</i>				
	<i>Dosage: Knowledge of the shrinkage characteristics of the concrete mixture proposed for use is required prior to the addition of MasterLife SRA 035 admixture. The dosage of MasterLife SRA 035 admixture will be dependent on the desired drying shrinkage and the reduction in drying shrinkage required. Therefore, it is strongly recommended that drying shrinkage testing be performed to determine the optimum dosage for each application and each set of materials. The typical dosage range of MasterLife SRA 035 admixture is 0.5 to 1.5 gal/yd³. However, dosages outside of this range may be required depending on the level of shrinkage reduction needed for a given application and because of variations in concrete materials, jobsite conditions and other factors.</i>				
	Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2010-184Q
<i>Provisionally Approved</i> Strength-Enhancing Admixture [S-SEA]	Master X-Seed 55	4.0 to 15 oz/cwt	CADD-2017-01-058	2018-228Q	
BAS-1115 Plant BASF Construction Chemicals, LLC, Admixtures Div., 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Newark, CA Effective October 1, 2020 new supplier is MBS-7 15.	Waterproofing Admixture [S-WP]	MasterLife 300D (Rheomac 300D)	2% of cement weight	CADD-2015-01-121	2010-053Q
	<i>Provisionally Approved</i>				



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-2 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
	Gurnee, IL <i>Effective October 1, 2020, new supplier code is MBS-2 15</i>				
	Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2009-116Q
	<i>Provisionally Approved</i>				
BAS-3 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
	Tipp City, OH <i>Effective October 1, 2020, new supplier code is MBS-3 15</i>				
	Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2009-116Q
	<i>Provisionally Approved</i>				
	Strength-Enhancing Admixture [S-SEA]	Master X-Seed 55	4.0 to 15 oz/cwt	CADD-2017-01-058	2018-053Q
BAS-4 15 Plant	BASF, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
	6450 Bristol Pike Levittown, PA 19057 <i>Effective October 1, 2020, new supplier code is MBS-4 15</i>				
	Waterproofing Admixture [S-WP]	MasterPel 240 (Rheomix Rheopel)	1.0 to 5.0 oz/cwt	CADD-2016-01-101	1999-050Q
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
	Anti-Washout Admixture - Army Corps Std. CRD-C 661-06	Eucon AWA	10 to 32 oz/cwt	CADD-2018-01-009	2015-183Q
	Viscosity Modifying Admixture [S-VM]	Visctrol		CADD-2017-01-091	2012-062Q
FMCLD 15	FMC Corporation, Lithium Division, 2801 Yorkmont Road, Suite 300, Charlotte, NC 28208 http://www.fmclithium.com/				
	Lithium Admixture for Alkali Silica Reactivity Remediation [S-Li]	Lifetime (TM) N			1999-058Q
	Lithium Admixture for Alkali Silica Reactivity Remediation [S-Li]	Lifetime (TM) SL			1999-059Q



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC0 15 Facility	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us				
	62 Whittemore Ave. Cambridge, MA 02140-1692				
	<i>Formerly: W. R. Grace and Company</i>				
	Viscosity Modifying Admixture [S-VM] <i>Cannot be used as an anti-washout admixture.</i>	V-MAR 3		CADD-2015-01-080	2003-061Q
	Waterproofing Admixture [S-WP]	Darapel		CADD-2016-01-015	1996-164
GRAC5 15 Plant	GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140 https://gcpat.com/en-us				
	Houston, TX <i>Formerly: W. R. Grace and Company</i>				
	Viscosity Modifying Admixture [S-VM]	V-MAR F100	3.0 to 12 oz/cwt	CADD-2015-01-081	2017-268Q
IPA-S 15	IPA Systems, Inc., 2745 North Amber St., Philadelphia, PA 19134 http://ipasystems.com/				
	Waterproofing Admixture [S-WP]	Ipanex			1991-112



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-1 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA Formerly BASF Construction Chemicals (BAS-115)				
	Shrinkage Reducing Admixture [S-SRA]	MasterLife SRA 035	See Note	CADD-2016-01-102	2018-148Q
	<i>Provisionally Approved: Concrete plants are required to submit a cylinder for hardened air testing to PennDOT's Material Testing Laboratory, 82 Dogwood Avenue, Harrisburg, PA 17110 during the JMF mix design approval process. For field projects, two cylinders must be submitted for hardened air testing to the Materials Testing Laboratory. These are in addition to any cylinders submitted for compressive strength testing. The provisional approval requirements will remain in place for a period of three years until February 1st, 2023 .</i> <i>Dosage: Knowledge of the shrinkage characteristics of the concrete mixture proposed for use is required prior to the addition of MasterLife SRA 035 admixture. The dosage of MasterLife SRA 035 admixture will be dependent on the desired drying shrinkage and the reduction in drying shrinkage required. Therefore, it is strongly recommended that drying shrinkage testing be performed to determine the optimum dosage for each application and each set of materials. The typical dosage range of MasterLife SRA 035 admixture is 0.5 to 1.5 gal/yd³. However, dosages outside of this range may be required depending on the level of shrinkage reduction needed for a given application and because of variations in concrete materials, jobsite conditions and other factors.</i>				
Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2010-184Q	
<i>Provisionally Approved</i>					
Strength-Enhancing Admixture [S-SEA]	Master X-Seed 55	4.0 to 15 oz/cwt	CADD-2017-01-058	2018-228Q	
MBS-2 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Gurnee, IL Formerly BASF Construction Chemicals (BAS-2 15)				
	Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2009-116Q
<i>Provisionally Approved</i>					



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Tipp City, OH <i>Formerly BASF Construction Chemicals (BAS-3 15)</i>			
	Specific Performance Workability Retention Admixture [S-WKR] <i>Provisionally Approved</i>	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029 2009-116Q
	Strength-Enhancing Admixture [S-SEA]	Master X-Seed 55	4.0 to 15 oz/cwt	CADD-2017-01-058 2018-053Q
MBS-4 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us 6450 Bristol Pike Levittown, PA 19057 <i>Formerly BASF Construction Chemicals (BAS-4 15)</i>			
	Waterproofing Admixture [S-WP]	MasterPel 240 (Rheomix Rheopel)	1.0 to 5.0 oz/cwt	CADD-2016-01-101 1999-050Q
MBS-7 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Newark, CA <i>Formerly BASF Construction Chemicals (BAS-1115)</i>			
	Waterproofing Admixture [S-WP] <i>Provisionally Approved</i>	MasterLife 300D (Rheomac 300D)	2% of cement weight	CADD-2015-01-121 2010-053Q
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302			
	Specific Performance Workability Retention Admixture [S-WKR]	Sika ViscoFlow-2020	2.0 to 8.0 oz/cwt	2016-092Q
	Viscosity Modifying Admixture [S-VM]	Sika Stabilizer 300 SCC	0.3 to 4.0 oz/cwt	CADD-2013-01-035 2016-254Q



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 10/22/2020

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Fairless Hills, PA				
	Anti-Washout Admixture - Army Corps Std. CRD-C 661-06 <i>Provisionally Approved</i>	Sikament 100SC			2010-274QB
	Specific Performance Workability Retention Admixture [S-WKR]	Sika ViscoFlow-2020	2.0 to 8.0 oz/cwt	CADD-2016-01-117	2016-095Q
	Viscosity Modifying Admixture [S-VM]	Sika Stabilizer-4 R		CADD-2019-01-025	2010-278Q
TROCH 15	Troy Chemical Industries, Inc., 17040 Rapids Road, P. O. Box 430, Burton, OH 44021 http://www.troychemical.com/				
	Specialty Workability/Rheology Controlling Admixture <i>For use in precast concrete only. Manufactured by Troy Chemical Industries, Inc. for BASF.</i>	BASF MasterMatrix 33 (Navitas 33)	2.0 to 12 oz/cwt	CADD-2015-01-089	2013-134Q
	Viscosity Modifying Admixture [S-VM] <i>Manufactured by Troy Chemical Industries, Inc. for BASF.</i>	BASF MasterMatrix VMA 358 (Rheomac VMA 358)	2.0 to 10 oz/cwt	CADD-2015-01-090	2004-087Q
	Viscosity Modifying Admixture [S-VM] <i>Manufactured by Troy Chemical Industries, Inc. for BASF.</i>	BASF MasterMatrix VMA 362 (Rheomac VMA 362)		CADD-2015-01-091	2004-088Q
XYPEX 15	Xypex Chemical Corporation, 13731 Mayfield Place, Richmond, British Columbia, Canada V6V 2G9 http://www.xypex.com/				
Waterproofing Admixture [S-WP]	C1000			2002-020Q	

711.3(g) Fibers for Plastic Shrinkage Cracking

Last Revised: 1/31/2020

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
FABRO 15	Great Lakes Polymer Technologies, LLC (dba Fabpro Polymers), 100 South Fabpro Way, Kingman, KS 67068 http://www.fabpropolymers.com/				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber F 70	1.5 lbs/cy			2013-045Q



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Section 711: Concrete Curing Material and Admixtures

711.3(g) Fibers for Plastic Shrinkage Cracking

Last Revised: 1/31/2020

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
FABRO 15	Great Lakes Polymer Technologies, LLC (dba Fabpro Polymers), 100 South Fabpro Way, Kingman, KS 67068 http://www.fabpropolymers.com/			
Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber M 100	0.5 lbs/cy		2013-047Q
Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber M 70	1.0 lbs/cy		2013-046Q
Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber MAC 100	3.0 lbs/cy		2013-048Q
Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber MAC 360 FF	3.0 lbs/cy		2019-101Q
Monofilament or Collated Fibrillated Synthetic Fiber Admixture <i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	BASF MasterFiber MAC Matrix	3.0 lbs/cy		2016-174Q



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Section 713: Masonry Units

713.1 Brick

Last Revised: 5/15/2015

	Product	Name	Ref. No.
GLNG1 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 Bigler Brick Manufacturing Plant 24 Pinetop Rd Bigler, PA 16825 Brick	https://www.glengery.com/	2010-159QA
GLNG2 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 York Brick Manufacturing Plant 1090 East Boundary Avenue York, PA 17403 Brick	https://www.glengery.com/	2010-159QB
GLNG3 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 Hanley Brick Manufacturing Plant 12637 Harrison Street Summerville, PA Brick	https://www.glengery.com/	2010-159QC
GLNG4 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 Mid-Atlantic Brick Manufacturing Plant 423 South Pottsville Pike Shoemakersville, PA 19555 Brick	https://www.glengery.com/	2010-159QD
GLNG5 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 Harmar Brick Manufacturing Plant 26 Rich Hill Road Cheswick, PA <i>Formerly Redland Brick, Inc. (REDLA 15)</i> Brick	https://www.glengery.com/	1983-172
WATBC 15	Watson town Brick Company, Route 404, P.O. Box 68, Watson town, PA 17777 Brick	http://watson townbrick.com/	2003-005Q

713.2 Precast Concrete Blocks

Last Revised: 3/13/2015

	Product	Name	Ref. No.
BEAVE 15	Beavertown Block Company, Inc., P.O. Box 337, Middleburg, PA 17842-0337 Precast Concrete Block	http://www.beavertownblock.com/	----



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Section 713: Masonry Units

713.2 Precast Concrete Blocks

Last Revised: 3/13/2015

Product	Name	Ref. No.
CASTL 15 Precast Concrete Block	Castle Builders Supply & Trucking LLC, 1409 Moravia Street, New Castle, PA 16101 http://castlebuilderssupply.com/	----
FIZZ0 15 Precast Concrete Block	Fizzano Brothers Concrete Products, Inc., 1776 Chester Pike, Crum Lynne, PA 19022 http://fizzano.com/	----
FIZZ1 15 Plant Precast Concrete Block	Fizzano Brothers Concrete Products, Inc., Trevose and Sterner Mill, Trevose, PA 19053 http://fizzano.com/ Trevose, PA	----
FIZZ2 15 Plant Precast Concrete Block	Fizzano Brothers Concrete Products, Inc., 201 South Phoenixville Pike, Malvern, PA 19355 http://fizzano.com/ 201 S. Phoenixville Pike Malvern, PA 19355	----
NEW-0 15 Precast Concrete Block	New Enterprise Stone & Lime Co., Inc., Newcrete Products Division, P.O. Box 34, Roaring Spring, PA 16673 http://www.nesl.com/	----
SIDLY 15 Precast Concrete Block	R. W. Sidley, 715 New Castle Road, Slippery Rock, PA 16057 http://www.rwsidley.com/	----
TERH0 15 Plant Precast Concrete Block	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/ PLANT #2: P.O. Box 10 Terre Hill, PA 17581	----
YORKB 15 Precast Concrete Block	York Building Products, Inc., 1020 North Hartley Street, York, PA 17404 http://www.yorkbuilding.com/	----



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 10/26/2020

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
ALTFJ 15	Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 http://www.altomareprecast.com/		
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/		
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
BINGH 15	Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 http://www.binghamtonprecast.com/		
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
	Sloped Subsurface Drain Outlet Endwall		----
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		2003-189Q
	Type D-W Endwall		----
Type E-S Endwall		2013-042Q	



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 10/26/2020

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
CONTN 15	Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/		
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
CPPLL 15	Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/ <i>Formerly Advanced Drainage Structures (ADSTR 15)</i>		
	Type D Endwall		2012-067QA
	Type D-E Endwall		2012-067QB
	Type D-W Endwall		2012-067QC
	Type E-S Endwall		2012-067QD
DIXPS 15	Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878		
	Sloped Subsurface Drain Outlet Endwall		2009-177QC
	Subsurface Drain Outlet Endwall		2009-177QB
	Type D Endwall		2009-177QA
	Type D-E Endwall		2010-315QA
	Type D-W Endwall		2010-315QB
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	Sloped Subsurface Drain Outlet Endwall		----
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		2009-089Q
	Type D-W Endwall		2006-148Q
	Type E-S Endwall		2018-139Q



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 10/26/2020

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
FIHFC 15	Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/ Type D Endwall		----
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/ Sloped Subsurface Drain Outlet Endwall Subsurface Drain Outlet Endwall Type D Endwall Type D-E Endwall Type D-W Endwall Type E-S Endwall		2009-147QB 2009-147QA 2015-265QA 2014-265QB 2016-083Q 2016-311Q
MCCAR 15	McCarroll Precast, Inc., 1129 Old 115, Dallas, PA 18612 Subsurface Drain Outlet Endwall <i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply remaining stock from inventory.</i> Type D Endwall <i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply remaining stock from inventory.</i>		---- ----
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/ Type D-W Endwall		2015-199Q
MONAP 15	Monarch Products Company, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/ Sloped Subsurface Drain Outlet Endwall Subsurface Drain Outlet Endwall Type D Endwall Type D-E Endwall Type D-W Endwall		2014-108Q 2014-107Q 9/23/1994 8/26/1992 4/12/2004 ----



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 10/26/2020

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
MONPC 15	Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/ <i>Eff. June 30, 2020, under ownership of Monarch Concrete LLC</i>		
	Subsurface Drain Outlet Endwall		2019-193Q
	Type D-W Endwall		2011-048Q
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 http://www.oldcastleprecast.com/Pages/default.aspx		
	Subsurface Drain Outlet Endwall		2016-303Q
	Type D Endwall		2016-303Q
	Type D-E Endwall		2016-303Q
	Type D-W Endwall		2016-303Q
	Type E-S Endwall		2016-303Q
POLCP 15	Poland Concrete Products, Inc., 210 Overlook Avenue, Hillsville, PA 16132		
	Subsurface Drain Outlet Endwall		2011-038QD
	Type D Endwall		2011-038QA
	Type D-E Endwall		2011-038QB
	Type D-W Endwall		2010-327QF
	Type E-S Endwall		2011-038QC
SCRCR 15	Scranton Craftsmen, Inc., 930 Dunmore Street, Troop, PA 18512 http://www.scrantonscraftsmen.com/		
	Type D Endwall		2010-106Q
	Type D-E Endwall		2015-036QC
TERH0 15 Plant	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/ PLANT #2: P.O. Box 10 Terre Hill, PA 17581		
	Subsurface Drain Outlet Endwall		2010-203Q
	Type D Endwall		2010-203Q
	Type D-E Endwall		2010-203Q
	Type D-W Endwall		2010-203Q
	Type E-S Endwall		2010-203Q



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 10/26/2020

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
TERH1 15 Plant	Terre Hill Concrete Products, PLANT #4:, 42 South Butler Road, Lebanon, PA 17042 PLANT #4: 42 South Butler Road Lebanon, PA 17042	http://www.terrehill.com/	
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
	Type E-S Endwall		----
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
	Sloped Subsurface Drain Outlet Endwall		----
	Subsurface Drain Outlet Endwall		2009-167QC
	Type D Endwall		----
	Type D-W Endwall		----

714.2 Glare Screen

Last Revised: 5/19/2015

See [Standard Drawing RC-59M \(Publication 72M\)](#)

Product	Name	Ref. No.
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 52"/50" Glare Screen (RC 59M)	http://concretesafety.com/ ----
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501 52"/50" Glare Screen (RC 59M)	----
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 52"/50" Glare Screen (RC 59M)	http://www.faddis.com/ 2000-275Q
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 52"/50" Glare Screen (RC 59M)	http://www.faddis.com/ ----



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Section 714: Precast Concrete Products

714.2 Glare Screen

Last Revised: 5/19/2015

See [Standard Drawing RC-59M \(Publication 72M\)](#)

Product	Name	Ref. No.
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/ 52"/50" Glare Screen (RC 59M)	----
GCLI- 15	GCL, Inc., 2559 Brandt School Road, Heritage Center, Suite 200, Wexford, PA 15090 http://cambergroup.com/gclinc.htm 52"/50" Glare Screen (RC 59M)	----
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411 52"/50" Glare Screen (RC 59M)	----
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/ 52"/50" Glare Screen (RC 59M)	2011-043Q

714.2 Inlet Assemblies

Last Revised: 10/30/2020

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
ALTFJ 15	Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 http://www.altomareprecast.com/	
	Inlet, Standard	2011-263QD
	Inlet, Type 10	2011-263QK
	Inlet, Type 4	2011-263QE
	Inlet, Type 5	2011-263QF
	Inlet, Type 6	2011-263QG
	Inlet, Type 7	2011-263QH
	Inlet, Type 8	2011-263QI
	Inlet, Type 9	2011-263QJ



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714.2 Inlet Assemblies

Last Revised: 10/30/2020

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
BINGH 15	Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 http://www.binghamtonprecast.com/	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
	Inlet, Type D-H	----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/	
	Inlet, Standard	----
	Inlet, Type 10	2016-061Q
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	2016-057Q
	Inlet, Type 7	2016-058Q
	Inlet, Type 8	2016-059Q
	Inlet, Type 9	2016-060Q
	Inlet, Type D-H	2013-043Q
CONTN 15	Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
	Inlet, Type D-H	----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
CPPLL 15	Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/ Formerly Advanced Drainage Structures (ADSTR 15)	
	Inlet, Standard	2012-069QA
	Inlet, Type 10	2012-069QH
	Inlet, Type 4	2012-069QB
	Inlet, Type 5	2012-069QC
	Inlet, Type 6	2012-069QD
	Inlet, Type 7	2012-069QE
	Inlet, Type 8	2012-069QF
	Inlet, Type 9	2012-069QG
DIXPS 15	Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878	
	Inlet, Standard	2009-176QA
	Inlet, Type 10	2014-152QC
	Inlet, Type 4	2009-176QB
	Inlet, Type 5	2009-176QC
	Inlet, Type 6	2014-152QA
	Inlet, Type 7	2009-176QD
	Inlet, Type 8	2009-176QE
	Inlet, Type 9	2014-152QB
	Inlet, Type D-H	2009-176QF



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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
	Inlet, Type D-H	----
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/	
	Inlet, Type 7	----
	Inlet, Type 8	----
FIHFC 15	Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	2010-178QA
	Inlet, Type 5	2010-178QB
	Inlet, Type 6	2010-178QC
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
	Inlet, Type D-H	2010-061QA
MACK1 15	Mack Industries of PA, Inc., P.O. Box 335, Valley City, OH 44280 http://www.mackconcrete.com/	
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
MCCAR 15	McCarroll Precast, Inc., 1129 Old 115, Dallas, PA 18612	
Inlet, Standard	<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products. For DGS PA State Contract No. 4600015773, the precast concrete products will be fabricated at Scranton Craftsmen (SCR CR 15) through August 2021.</i>	----
Inlet, Type 4	<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>	----
Inlet, Type 5	<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>	----
Inlet, Type 6	<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>	----
Inlet, Type D-H	<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>	----
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/	
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

	Product	Name	Ref. No.
MILL1 15	A. C. Miller Concrete Products, Inc., 31 E. Bridge Street, Spring City, PA 19475 http://www.acmiller.com/		
	Inlet, Type 10		2010-068Q
	Inlet, Type 4		2010-068Q
	Inlet, Type 5		2010-068Q
	Inlet, Type 6		2010-068Q
	Inlet, Type 7		2010-068Q
	Inlet, Type 8		2010-068Q
	Inlet, Type 9		2010-068Q
MONAP 15	Monarch Products Company, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/		
	Inlet, Standard		----
	Inlet, Type 10		----
	Inlet, Type 4		----
	Inlet, Type 5		----
	Inlet, Type 6		----
	Inlet, Type 7		----
	Inlet, Type 8		----
	Inlet, Type 9		----
	Inlet, Type D-H		----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
MONPC 15	Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/ <i>Eff. June 30, 2020, under ownership of Monarch Concrete LLC</i>	
	Inlet, Standard	2002-083Q
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
	Inlet, Type D-H	----
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 http://www.oldcastleprecast.com/Pages/default.aspx	
	Inlet, Standard	2014-231QA
	Inlet, Type 10	2014-231QH
	Inlet, Type 4	2014-231QB
	Inlet, Type 5	2014-231QC
	Inlet, Type 6	2014-231QD
	Inlet, Type 7	2014-231QE
	Inlet, Type 8	2014-231QF
	Inlet, Type 9	2014-231QG
	Inlet, Type D-H	2014-231QI



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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
POLCP 15	Poland Concrete Products, Inc., 210 Overlook Avenue, Hillsville, PA 16132	
	Inlet, Standard	2010-327QC
	Inlet, Type 4	2011-038QE
	Inlet, Type 5	2011-038QF
	Inlet, Type 6	2011-038QG
	Inlet, Type 8	2011-038QH
PREMC 15	Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 http://www.precastmfgco.com/	
	Inlet, Standard	2013-050QC
	Inlet, Type 10	----
	Inlet, Type 4	2013-050QD
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
RAHN- 15	Rahns Construction Materials Company, 430 Bridge Road, Rahns, PA 19426 https://www.hkgroup.com/companies/rahns-rahns	
	Inlet, Standard	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
SCRCR 15	Scranton Craftsmen, Inc., 930 Dunmore Street, Troop, PA 18512 http://www.scrantoncraftsmen.com/	
	Inlet, Standard	----
	Inlet, Type 4	----
	Inlet, Type 5	PA (RC-46M)
	Inlet, Type 6	----
STOCO 15	Stone and Company, 1718 Roseytown Road, Greensburg, PA 15601 http://stoneconcrete.com/	
	Inlet, Standard	2013-213QB
TERH0 15 Plant	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/ PLANT #2: P.O. Box 10 Terre Hill, PA 17581	
	Inlet, Standard	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
TERH1 15 Plant	Terre Hill Concrete Products, PLANT #4:, 42 South Butler Road, Lebanon, PA 17042 http://www.terrehill.com/ PLANT #4: 42 South Butler Road Lebanon, PA 17042	
	Inlet, Standard	----
	Inlet, Type 10	----
	Inlet, Type 4	----
	Inlet, Type 5	----
	Inlet, Type 6	----
	Inlet, Type 7	----
	Inlet, Type 8	----
	Inlet, Type 9	----
	Inlet, Type D-H	----



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

	Product	Name	Ref. No.
WATRF 15	Waterford Precast and Sales, Inc., 511 Bagdad Road, Waterford, PA 16441		
	Inlet, Standard		----
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
	Inlet, Standard		----
	Inlet, Type 4		----
	Inlet, Type 5		----
	Inlet, Type 6		2012-252Q
	Inlet, Type D-H		2020-198Q

714.2 Inlet Tops

Last Revised: 9/15/2020

See [Standard Drawing RC-45M \(Publication 72M\)](#)

	Product	Name	Ref. No.
ALTFJ 15	Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 http://www.altomareprecast.com/		
	Inlet Top, Type C		2011-263QA
	Inlet Top, Type M		2011-263QB
	Inlet Top, Type S		2011-263QC
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/		
	Inlet Top, Type C		----
	Inlet Top, Type C Alternate		----
	Inlet Top, Type M		----
	Inlet Top, Type S		----



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714.2 Inlet Tops

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See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
BINGH 15	Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 http://www.binghamtonprecast.com/	
Inlet Top, Type C		----
Inlet Top, Type M		----
Inlet Top, Type S		----
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/	
Inlet Top, Type C		----
Inlet Top, Type D-H Level		2013-041Q
Inlet Top, Type M		----
Inlet Top, Type S		----
CONTN 15	Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/	
Inlet Top, Type C		----
Inlet Top, Type C Alternate		----
Inlet Top, Type D-H		2012-012QA
Inlet Top, Type D-H Level		2012-012QB
Inlet Top, Type M		----
Inlet Top, Type S		----
CPPLL 15	Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/ <i>Formerly Advanced Drainage Structures (ADSTR 15)</i>	
Inlet Top, Type C		2012-068QC
Inlet Top, Type C Alternate		2012-068QD
Inlet Top, Type M		2012-068QA
Inlet Top, Type S		2012-068QB



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See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
DIXPS 15	Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878	
	Inlet Top, Type C	2009-174QC
	Inlet Top, Type D-H	2009-174QD
	Inlet Top, Type D-H Level	2009-174QE
	Inlet Top, Type M	2009-174QA
	Inlet Top, Type S	2009-174QB
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501	
	Inlet Top, Type C	----
	Inlet Top, Type D-H	----
	Inlet Top, Type M	----
	Inlet Top, Type S	----
FIHFC 15	Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/	
	Inlet Top, Type C	----
	Inlet Top, Type M	----
	Inlet Top, Type S	----
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/	
	Inlet Top, Type C	----
	Inlet Top, Type D-H	2010-061QB
	Inlet Top, Type D-H Level	2010-061QC
	Inlet Top, Type M	----
	Inlet Top, Type S	----



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714.2 Inlet Tops

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See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
MCCAR 15	McCarroll Precast, Inc., 1129 Old 115, Dallas, PA 18612	
Inlet Top, Type C		----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products. For DGS PA State Contract No. 4600015773, the precast concrete products will be fabricated at Scranton Craftsmen (SCR CR 15) through August 2021.</i>		
Inlet Top, Type C Alternate		----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>		
Inlet Top, Type M		----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products. For DGS PA State Contract No. 4600015773, the precast concrete products will be fabricated at Scranton Craftsmen (SCR CR 15) through August 2021.</i>		
Inlet Top, Type S		----
<i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products. For DGS PA State Contract No. 4600015773, the precast concrete products will be fabricated at Scranton Craftsmen (SCR CR 15) through August 2021.</i>		
MONAP 15	Monarch Products Company, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/	
Inlet Top, Type C		1992-193Q
Inlet Top, Type D-H		----
Inlet Top, Type D-H Level		----
Inlet Top, Type M		1992-193Q
Inlet Top, Type S		1992-193Q
MONPC 15	Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/ Eff. June 30, 2020, under ownership of Monarch Concrete LLC	
Inlet Top, Type C		2002-083Q
Inlet Top, Type M		2002-083Q



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See [Standard Drawing RC-45M \(Publication 72M\)](#)

	Product	Name	Ref. No.
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 http://www.oldcastleprecast.com/Pages/default.aspx		
	Inlet Top, Type C		2014-232QC
	Inlet Top, Type D-H		2014-232QD
	Inlet Top, Type D-H Level		2014-232QE
	Inlet Top, Type M		2014-232QA
	Inlet Top, Type S		2014-232QB
POLCP 15	Poland Concrete Products, Inc., 210 Overlook Avenue, Hillsville, PA 16132		
	Inlet Top, Type C		2010-327QD
	Inlet Top, Type M		2010-327QE
PREMC 15	Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 http://www.precastmfgco.com/		
	Inlet Top, Type C		2013-050QG
	Inlet Top, Type M		2013-050QE
RAHN- 15	Rahns Construction Materials Company, 430 Bridge Road, Rahns, PA 19426 https://www.hkgroup.com/companies/rahns-rahns		
	Inlet Top, Type C		----
	Inlet Top, Type M		----
SCRCR 15	Scranton Craftsmen, Inc., 930 Dunmore Street, Troop, PA 18512 http://www.scrantoncraftsmen.com/		
	Inlet Top, Type C		2015-036QB
	Inlet Top, Type M		2015-036QA



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See [Standard Drawing RC-45M \(Publication 72M\)](#)

	Product	Name	Ref. No.
TERH0 15 Plant	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 PLANT #2: P.O. Box 10 Terre Hill, PA 17581	http://www.terrehill.com/	
	Inlet Top, Type C		----
	Inlet Top, Type D-H		----
	Inlet Top, Type D-H Level		----
	Inlet Top, Type M		----
	Inlet Top, Type S		----
TERH1 15 Plant	Terre Hill Concrete Products, PLANT #4:, 42 South Butler Road, Lebanon, PA 17042 PLANT #4: 42 South Butler Road Lebanon, PA 17042	http://www.terrehill.com/	
	Inlet Top, Type D-H		----
	Inlet Top, Type D-H Level		----
WATRF 15	Waterford Precast and Sales, Inc., 511 Bagdad Road, Waterford, PA 16441		
	Inlet Top, Type C		----
	Inlet Top, Type M		----
	Inlet Top, Type S		----
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
	Inlet Top, Type C		----
	Inlet Top, Type C Alternate		2009-167QD
	Inlet Top, Type D-H		2009-167QA
	Inlet Top, Type D-H Level		----
	Inlet Top, Type M		----
	Inlet Top, Type S		----

714.2 Junction Boxes, Precast Concrete

Last Revised: 5/19/2015



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 714: Precast Concrete Products

714.2 Junction Boxes, Precast Concrete

Last Revised: 5/19/2015

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

	Product	Name	Ref. No.
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
	JB-1		----
	JB-11		----
	JB-12		----
	JB-2		----
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	JB-1		----
	JB-11		----
	JB-12		----
	JB-2		----
DIXPS 15	Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878		
	JB-1		2014-188QA
	JB-11		2014-189QA
	JB-12		2014-189QB
	JB-2		2014-188QB
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	JB-1		----
	JB-11		----
	JB-12		----
	JB-2		----



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Section 714: Precast Concrete Products

714.2 Junction Boxes, Precast Concrete

Last Revised: 5/19/2015

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/	
	JB-1	----
	JB-11	----
	JB-12	----
	JB-2	----
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/	
	JB-1	----
	JB-11	----
	JB-12	----
	JB-2	----
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/	
	JB-1	----
	JB-11	----
	JB-12	----
	JB-2	----
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143	
	JB-1	----
	JB-11	----
	JB-12	----
	JB-2	----

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 9/14/2020



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 714: Precast Concrete Products

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 9/14/2020

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

	Product	Name	Ref. No.
ALTFJ 15	Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 Manhole Section (RC)	http://www.altomareprecast.com/	----
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 Manhole Section (RC)	http://www.atlanticconcrete.com/	----
BINGH 15	Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 Manhole Section (RC)	http://www.binghamtonprecast.com/	----
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 Manhole Section (RC)	https://bryanmaterialsgroup.com/	----
CONTN 15	Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 Manhole Section (RC)	http://www.continentalconcrete.com/	----
CPPLL 15	Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 <i>Formerly Advanced Drainage Structures (ADSTR 15)</i> Manhole Section (RC)	http://www.concretepandp.com/	2012-065Q
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501 Manhole Section (RC)		----
FIHFC 15	Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 Manhole Section (RC)	http://fi-hoff.com/	----
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 Manhole Section (RC)	http://www.mackconcrete.com/	----



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Section 714: Precast Concrete Products

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 9/14/2020

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

	Product	Name	Ref. No.
MCCAR 15	McCarroll Precast, Inc., 1129 Old 115, Dallas, PA 18612 Manhole Section (RC) <i>Effective December 18, 2019, McCarroll Precast, Inc. is no longer producing precast items for PennDOT projects. McCarroll Precast, Inc. may continue to supply the remaining stock of precast concrete products.</i>		----
MONAP 15	Monarch Products Company, Inc., 385 Sipe Road, York Haven, PA 17370 Manhole Section (RC)	http://www.monarchproducts.net/	1992-193Q
MONPC 15	Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 <i>Eff. June 30, 2020, under ownership of Monarch Concrete LLC</i> Manhole Section (RC)	http://www.monarchprecast.com/	2002-084Q
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 Manhole Section (RC)	http://www.oldcastleprecast.com/Pages/default.aspx	2020-106Q
POLCP 15	Poland Concrete Products, Inc., 210 Overlook Avenue, Hillsville, PA 16132 Manhole Section (RC)		2010-327QA
PREMC 15	Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 Manhole Section (RC)	http://www.precastmfgco.com/	2013-050QA
RAHN- 15	Rahns Construction Materials Company, 430 Bridge Road, Rahns, PA 19426 Manhole Section (RC)	https://www.hkgroup.com/companies/rahns-rahns	----
SCRCR 15	Scranton Craftsmen, Inc., 930 Dunmore Street, Troop, PA 18512 Manhole Section (RC)	http://www.scrantoncraftsmen.com/	----
STOCO 15	Stone and Company, 1718 Roseytown Road, Greensburg, PA 15601 Manhole Section (RC)	http://stoneconcrete.com/	2013-213QA



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Section 714: Precast Concrete Products

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 9/14/2020

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

	Product	Name	Ref. No.
TERH0 15 Plant	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 PLANT #2: P.O. Box 10 Terre Hill, PA 17581 Manhole Section (RC)	http://www.terrehill.com/	----
TERH1 15 Plant	Terre Hill Concrete Products, PLANT #4:, 42 South Butler Road, Lebanon, PA 17042 PLANT #4: 42 South Butler Road Lebanon, PA 17042 Manhole Section (RC)	http://www.terrehill.com/	----
WINEC 15	Wine Concrete Products, Inc., 1000 Big Sewickley Creek Road, Sewickley, PA 15143 Manhole Section (RC)		----

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 8/25/2017

Concrete Median Barrier: [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Single Face Concrete Barrier: [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

	Product	Name	Ref. No.
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i> 41" Single Face (RC 58M)	http://www.braymanprecast.com/	2015-004QB
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 34"/32" Double Face (RC 57M)	https://bryanmaterialsgroup.com/	----



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 8/25/2017

Concrete Median Barrier: [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Single Face Concrete Barrier: [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

	Product	Name	Ref. No.
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	32" Double Face with J-J Hooks		----
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
	32" Double Face with J-J Hooks		----
	32" Double Face with J-J Hooks (MASH)		2013-194QC
	32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2017-095
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 8/25/2017

Concrete Median Barrier: [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Single Face Concrete Barrier: [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

	Product	Name	Ref. No.
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530	http://www.faddis.com/	
	32" Double Face with J-J Hooks		----
	32" Double Face with J-J Hooks (MASH)		2013-194QB
	32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2017-028
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----
GCLI- 15	GCL, Inc., 2559 Brandt School Road, Heritage Center, Suite 200, Wexford, PA 15090	http://cambergroup.com/gclinc.htm	
	34"/32" Double Face (RC 57M)		2010-069Q
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
	32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2014-266QB
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235	http://www.slawprecast.com/	
	<i>Note: Previously assigned J&RS2 15 for same facility</i>		
	34"/32" Double Face (RC 57M)		----
	41" Single Face (RC 58M)		----
JERPC 15	Jersey Precast Corporation, 853 Nottingham Way, Hamilton Township, NJ 08638	http://jerseyprecast.com/	
	34"/32" Double Face (RC 57M)		2006-230Q



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 8/25/2017

Concrete Median Barrier: [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Single Face Concrete Barrier: [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

	Product	Name	Ref. No.
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473	http://www.mackconcrete.com/	
	34"/32" Double Face (RC 57M)		2008-132Q
	41" Single Face (RC 58M)		2013-083Q
NITT1 15	Nitterhouse Concrete Products Inc., P. O. Box N, Chambersburg, PA 17201	http://nitterhouseconcrete.com/	
	34"/32" Double Face (RC 57M)		----
NORPR 15	Northeast Precast, 92 Reese Road, Millville, NJ 08332	http://www.northeastprecast.com/	
	32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2012-118A
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969	http://www.oldcastleprecast.com/Pages/default.aspx	
	34"/32" Double Face (RC 57M)		----
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895	http://www.lcwhitford.com/	
	32" Double Face with J-J Hooks		2011-187Q

714.2 Sound Barrier

Last Revised: 12/27/2018

Standard Drawing BC-776M/BD-676M - Standard Ground Mounted Sound Barriers Precast Concrete Panels

Standard Drawing BC-777M/BD-677M - Standard Ground Mounted Sound Barriers Precast Concrete Posts

Standard Drawing BC-779/BD-679 - Standard Structured Mounted Sound Barrier Walls

Standard Drawing BC-780M/BD-680M - Standard Offset Sound Barrier Walls; Precast Concrete Standard Panel Details

Product	Name	Ref. No.
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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 12/27/2018

Standard Drawing BC-776M/BD-676M - Standard Ground Mounted Sound Barriers Precast Concrete Panels

Standard Drawing BC-777M/BD-677M - Standard Ground Mounted Sound Barriers Precast Concrete Posts

Standard Drawing BC-779/BD-679 - Standard Structured Mounted Sound Barrier Walls

Standard Drawing BC-780M/BD-680M - Standard Offset Sound Barrier Walls; Precast Concrete Standard Panel Details

	Product	Name	Ref. No.
ARMTC 15	Armtec, 51 Arthur Sreet South, Mitchell N0K 1NO https://www.armtec.com/ <i>Effective 12/1/18, name change back to Durisol (DURIS 15)</i>		
	Sound Barrier Panel		2009-133Q
	Sound Barrier Post (Precast)		2009-133Q
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/ <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i>		
	Sound Barrier Panel		2012-170Q
	Sound Barrier Post (Precast)		2014-074Q
CONAW 15	Conewago Precast Building Systems, 576 Edgegrove Road, P.O. Box 461, Hanover, PA 17331 http://www.conewago.com/capabilities/precast-concrete/		
	Sound Barrier Panel		2010-241Q
	Sound Barrier Post (Precast)		----
CONPG 15	Eastern Concrete Products DBA U.S. Concrete Precast Group, 3369 Paxtonville Road, Middleburg, PA 17842 http://eastern-concrete.com/ <i>Formerly Architectural Precast US Concrete Div. (ARCPR 15)</i>		
	Sound Barrier Panel		2009-166Q
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----



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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 12/27/2018

Standard Drawing BC-776M/BD-676M - Standard Ground Mounted Sound Barriers Precast Concrete Panels

Standard Drawing BC-777M/BD-677M - Standard Ground Mounted Sound Barriers Precast Concrete Posts

Standard Drawing BC-779/BD-679 - Standard Structured Mounted Sound Barrier Walls

Standard Drawing BC-780M/BD-680M - Standard Offset Sound Barrier Walls; Precast Concrete Standard Panel Details

	Product	Name	Ref. No.
DURIS 15 Plant	Durisol, 8270 Greensboro Drive, Suite 810, McLean, VA 22102 http://www.durisol.com		
	51 Arthur Street South Mitchell, ON Canada NOK 1N0 (Formerly Armtec - ARMTC 15)		
	Sound Barrier Panel		2009-133Q
	Sound Barrier Post (Precast)		2009-133Q
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/		
	Sound Barrier Panel		2010-105Q
	Sound Barrier Post (Precast)		2010-105Q
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
	Sound Barrier Panel		2012-178Q



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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 12/27/2018

Standard Drawing BC-776M/BD-676M - Standard Ground Mounted Sound Barriers Precast Concrete Panels

Standard Drawing BC-777M/BD-677M - Standard Ground Mounted Sound Barriers Precast Concrete Posts

Standard Drawing BC-779/BD-679 - Standard Structured Mounted Sound Barrier Walls

Standard Drawing BC-780M/BD-680M - Standard Offset Sound Barrier Walls; Precast Concrete Standard Panel Details

	Product	Name	Ref. No.
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	<i>Note: Previously assigned J&RS2 15 for same facility</i>		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----
	Sound Barrier Post (Prestressed)		----
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
	Sound Barrier Panel		2008-180Q
	Sound Barrier Post (Precast)		2008-180Q
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----
NITT1 15	Nitterhouse Concrete Products Inc., P. O. Box N, Chambersburg, PA 17201 http://nitterhouseconcrete.com/		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----
NORPP 15	Northeast Prestressed Products LLC, 121 River Street, Cressona, PA 17929-1133 http://www.npp-llc.com/		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----



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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 12/27/2018

Standard Drawing BC-776M/BD-676M - Standard Ground Mounted Sound Barriers Precast Concrete Panels

Standard Drawing BC-777M/BD-677M - Standard Ground Mounted Sound Barriers Precast Concrete Posts

Standard Drawing BC-779/BD-679 - Standard Structured Mounted Sound Barrier Walls

Standard Drawing BC-780M/BD-680M - Standard Offset Sound Barrier Walls; Precast Concrete Standard Panel Details

	Product	Name	Ref. No.
WILLA 15 Plant	K. J. Williams Concrete Company, Inc., P.O. Box 5137, Cresaptown, MD 21505-5137 15213 McMullen Highway S.W. Cumberland, MD 21502		
	Sound Barrier Panel		----
	Sound Barrier Post (Precast)		----

714.2 Temporary Concrete Barrier, Structure Mounted (BC 719)

Last Revised: 10/27/2020

Note: [Approved Bridge and Structure Products](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

	Product	Name	Ref. No.
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	32" Double Face (BC 719)		----
	42" Single Face (BC 719)		----
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	32" Double Face (BC 719)		----
	42" Single Face (BC 719)		----
	50" Double Face (BC 719)		----



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Section 714: Precast Concrete Products

714.2 Temporary Concrete Barrier, Structure Mounted (BC 719)

Last Revised: 10/27/2020

Note: [Approved Bridge and Structure Products](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Ref. No.
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/	
32" Double Face (BC 719)		----
32" Double Face with J-J Hooks (MASH)		2013-194A
<i>Approved for use on bridge decks and bridge approach slabs. For PennDOT approved drawing no. 2019-165 along with use requirements & restrictions, see Product No. 85</i>		
<i>at Approved Bridge and Structure Products</i>		
42" Single Face (BC 719)		----
50" Double Face (BC 719)		----
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/	
32" Double Face (BC 719)		----
32" Double Face with J-J Hooks (MASH)		2013-194A
<i>Approved for use on bridge decks and bridge approach slabs. For PennDOT approved drawing no. 2019-165 along with use requirements & restrictions, see Product No. 85</i>		
<i>at Approved Bridge and Structure Products</i>		
42" Single Face (BC 719)		----
50" Double Face (BC 719)		----
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411	
32" Double Face (BC 719)		----
42" Single Face (BC 719)		----
50" Double Face (BC 719)		----
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/	
32" Double Face (BC 719)		2012-014Q

714.6 Fabrication

Last Revised: 12/14/2016



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Section 714: Precast Concrete Products

714.6 Fabrication

Last Revised: 12/14/2016

Standard Drawing of Vertical Adjustment Device on Steel Beam/Girder [BC-775M - Sheet 3 of 3 \(Publication 219M\)](#)

Product	Name	Ref. No.
THOMC 15 Thompson Machine Company, 1128 N. Fourth Ave., Altoona, PA 16601 Vertical Adjustment Device		2015-171Q



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Section 721: Calcium Chloride

721 Calcium Chloride, AASHTO M144

Last Revised: 7/8/2015

	Product	Name	Ref. No.
GENER 15	General Chemical Group, 90 East Halsey Road, Parsippany, NJ 07054 Calcium Chloride, Type S, Grade 1, Class A or B	http://www.genchem.com/ CaCl Flake 77-80%	2000-141Q
OCCCC 15 Plant	Occidental Chemical Corporation, P.O. Box 809050, Dallas, TX 75380 1600 South Madison Street Ludington, MI 49431	http://www.oxy.com/OurBusinesses/Chemicals/Pages/default.aspx DOWFLAKE 83-87% LIQUIDOW 30-42%	----- 1992-345
TETRA 15	TETRA Technologies, Inc., 25025 Interstate 45N, P. O. Box 73087, The Woodlands, TX 77380 Calcium Chloride, Type S, Grade 1, Class A or B	http://www.tetrtec.com/	1997-076



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Section 722: Sodium Chloride

722 Sodium Chloride, AASHTO M143 or ASTM D632

Last Revised: 9/14/2018

	Product	Name	Ref. No.
AMERS 15	American Rock Salt Company, LLC, P.O. Box 190, Mount Morris, NY 14510 Sodium Chloride, Type 1, Grade 1	https://www.americanrocksalt.com/ Hampton Corners, NY	2000-109Q
CARGO 15 Facility	Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 Salt Mines: Avery Island, LA; Cleveland, OH; Lansing, NY Sodium Chloride, Type 1, Grade 1 Sodium Chloride, Type 1, Grade 1 Sodium Chloride, Type 1, Grade 1	http://www.cargill.com/ Avery Island, LA Cleveland, OH Lansing, NY	1995-119 ---- ----
COMMC 15	Compania Minera Cordillera SCM, Providencia 2653, Office 702, 7510015 Santiago, Chile Sodium Chloride, Type 1, Grade 1	Salar Grande, Iquique, Chile	2009-157Q
DETSC 15	Detroit Salt Co., 12841 Sanders Street, Detroit, MI 48217 Sodium Chloride, Type 1, Grade 1	http://detroitsalt.com/ Detroit, MI	2013-079Q
DETST 15 Terminal	Detroit Salt Co., 12841 Sanders St, Detroit, MI 48217 Kinder Morgan Bulk Terminal 1000 South Port Road Fairless Hills, PA 19030 Sodium Chloride, Type 1, Grade 1	http://detroitsalt.com/ Siwa and Quattara, Egypt	2018-050Q
HAVN1 15 Terminal	Haven Salt Company LLC, 409 North State Street, Clarks Summit, PA 18411 Kinder Morgan Bulk Terminals 1 Sinter Road Fairless Hills, PA 19030 Sodium Chloride, Type 1, Grade 1	Rio de Janeiro, Brazil	2017-189Q
HOOPS 15	Hoopes Fertilizer Works, Inc., 9866 Freshley Ave., NE, Alliance, OH 44601 Sodium Chloride, Type 1, Grade 1 <i>Anti-foaming agent, AE-30-FGK, can be added per manufacturer recommendations, Univar USA Mfg. Conditionally approved as an alternate per the manufacturer's specifications.</i>	Ice Bite 55	2008-190



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Section 722: Sodium Chloride

722 Sodium Chloride, AASHTO M143 or ASTM D632

Last Revised: 9/14/2018

Product	Name	Ref. No.
MORTS 15 Morton Salt Company, 123 North Wacker Drive, Chicago, IL 60606 http://www.mortonsalt.com/		
Sodium Chloride, Type 1, Grade 1	Fairport, OH	----
Sodium Chloride, Type 1, Grade 1	Weeks Island, LA	----
Sodium Chloride, Type 1, Grade 1	Windsor, Ontario	2001-011Q
NAMSC 15 Compass Minerals America Inc., 9900 W 109th St, Suite 600, Overland Park, KS 66210 http://www.nasalt.com/ <i>Formerly North American Salt Company</i>		
Sodium Chloride, Type 1, Grade 1	Cote Blanche, LA	1995-122B
Sodium Chloride, Type 1, Grade 1	Goderich, Ontario	1995-122A
POTAH 15 Potash Corporation, 1101 Skokie Boulevard, Northbrook, IL 60062 http://www.potashcorp.com/		
Sodium Chloride, Type 1, Grade 1	Sussex, New Brunswick, Canada E4E 5L2	2013-116Q
RIVERT15 Terminal Riverside Construction Materials, 355 Newbold Road, Fairless Hills, PA 19030 7900 N. Radcliffe Street Bristol, PA 19007		
Sodium Chloride, Type 1, Grade 1 <i>Provisionally approved.</i>	Siwa, Egypt	2018-089Q
SOCPD 15 K + S Chile S. A., Av. Tajamar 183, Piso 6, Las Condes, Santiago, Chile <i>Formerly Sociedad Punta de Lobos S.A. (SOCPD 15)</i>		
Sodium Chloride, Type 1, Grade 1	Las Condes, Santiago, Chile	2005-060Q



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Section 723: Hydrated Lime

723 Hydrated Lime, ASTM C207

Last Revised: 7/8/2015

	Product	Name	Ref. No.
CARML 15 Plant	Carmeuse Lime Company, Inc., Route 422 & Clear Springs Road, Annville, PA 17003 Route 422 & Clear Springs Road Annville, PA 17003 Hydrated Lime, Type N	https://www.carmeuse.com/na-en	2002-036Q
GRAYM 15	Graymont (PA), Inc., 965 East College Ave., Pleasant Gap, PA 16823 Hydrated Lime, Type N	https://www.graymont.com/en/locations/lime-plants/eastern-us/lime-plant/pleasant-gap	1988-128



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 8/4/2020

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

	Product	Name	Plant City	Plant State	Ref. No.
ASHVE 15 Plant	Ash Venture, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.ashventurellc.com/ Belews Creek Power Station 3193 Pine Hall Road Belews Creek, NC 27009 Fly Ash, Class F	ProAsh, Belews Creek Power Station	Belews Creek	NC	2014-187Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
ASHVR 15 Plant	Ash Venture, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.ashventurellc.com/ Roxboro Plant 1514 Dunnaway Road Semora, NC 27343 Fly Ash, Class F	ProAsh, Roxboro Plant	Semora	NC	2016-026Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
BASFK 15 Plant	BASF, Kaolin, 11501 Steel Creek Rd., Charlotte, NC 28273 http://www.kaolin.basf.com/ McIntyre, GA Fly Ash, Class N	MetaMax	McIntyre	GA	2014-218M
CEMEXA15 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 200-B Neville Island Pittsburgh, PA 15225 Fly Ash, Class C	Labadie Power Plant (MINR1 2005-083)	Labadie	MO	2014-261Q
CEMEXB15 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 200-B Neville Island Pittsburgh, PA 15225 Fly Ash, Class C	Rush Island Power Plant (MINR1 2001-138)	Festus	MO	2011-098Q
CEMEXC15 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 200-B Neville Island Pittsburgh, PA 15225 Fly Ash, Class F	IPL Petersburg Generation Station (MINR1)	Petersburg	IN	2005-050Q



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 8/4/2020

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	Product	Name	Plant City	Plant State	Ref. No.
CHAR1 15 Plant	Charah, Inc., 12601 Plantside Drive, Louisville, KY 40299 http://charah.com North Bend, OH Fly Ash, Class F	Miami Fort Station (Dynergy, Inc.)	North Bend	OH	2002-175Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. Plant is operated by Dynergy, Inc. Quality control testing of the fly ash is performed by Charah, Inc. (Formerly operated by Cinergy Corporation - CINER 15)</i>				
CHAR2 15 Plant	Charah, Inc., 12601 Plantside Drive, Louisville, KY 40299 http://charah.com Moscow, OH Fly Ash, Class F	Zimmer Power Station (Dynergy, Inc.)	Moscow	OH	2003-052Q
	<i>Plant is operated by Dynergy, Inc. Quality control testing of the fly ash is performed by Charah, Inc.</i>				
CRH-3 15 Terminal	CRH Canada Group Inc. (To be renamed Ash Grove, effective 7/6/20), 2300 Steeles Avenue West, 4th Floor, Concord Ontario Canada L4K 5X6 https://www.ashgrove.com/ Ash Grove Cement Terminal Dundee, CRH US 15225 Day Road Dundee, MI 48131 Fly Ash, Class C	DTE Belle River Power Plant (Detroit Edison)	Dundee	MI	2015-003Q
ENELP 15 Plant	Enel Produzione SpA, Viale Regina Margherita, 125, Roma 00198 Via Aurelia Nord 32 Civitavecchia Fly Ash, Class F	Civitavecchia, Italy	Civitavecchia	Italy	2016-108Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
FAD-2 15 Plant	WM FlyAshDirect, 4228 Airport Road, Cincinnati, OH 45226 http://www.flyashdirect.com/ Letart, WV Fly Ash, Class F	Mountaineer Power Plant (American Electric Power)	Letart	WV	2018-002Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 8/4/2020

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

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	Product	Name	Plant City	Plant State	Ref. No.
FLYAD 15 Plant	WM FlyAshDirect, 4228 Airport Road, Cincinnati, OH 45226 Winfield, WV Fly Ash, Class F	http://www.flyashdirect.com/ John E. Amos Plant (Operated by Appalachian Power, subsidiary of American Electric Power)	Winfield	WV	----
		<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
HEADWA15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Quinton, AL Fly Ash, Class C	https://www.boral.com/ Miller Power Station (Alabama Power)	Quinton	AL	2008-143Q
HEADWB15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Baldwin, IL Fly Ash, Class C	https://www.boral.com/ Dynergy-Baldwin Power Station	Baldwin	IL	2005-072Q
HEADWG15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Maidsville, WV Fly Ash, Class F	https://www.boral.com/ Fort Martin Power Station (Allegheny Power)	Maidsville	WV	1986-312
		<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
HEADWH15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Stratton, OH Fly Ash, Class F	https://www.boral.com/ W. H. Sammis Power Plant	Stratton	OH	1997-146Q
		<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 8/4/2020

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Product	Name	Plant City	Plant State	Ref. No.
HEADWJ15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 https://www.boral.com/ Washingtonville, PA Fly Ash, Class F	Washingtonville, PA (Harvested Fly Ash)	Washingtonville PA	2018-165Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
HEADWL15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 https://www.boral.com/ Labadie, MO Fly Ash, Class C	Labadie Power Plant	Labadie MO	2005-083Q
HEADWM15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 https://www.boral.com/ Fetus, MO Fly Ash, Class C	Rush Island Power Plant	Festus MO	2001-138Q
HEADWP15 Plant	Boral Resources (formerly Headwaters Resources, Inc.), 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 https://www.boral.com/ Moundsville, WV Fly Ash, Class F	AEP Mitchell Power Plant	Moundsville WV	2019-058Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
HOLI0 15	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Fly Ash, Class C	Detroit Edison Belle River Power Plant	China Township MI	2014-046Q
	<i>Available Alkalis = 5.00%</i>			
LAFRA 15 Plant	Lafarge North America, 20408 West Renwick Road, Lockport, IL 60441-0089 https://www.lafargeholcim.us/ Rockport, IN Fly Ash, Class C	American Electric Power	Rockport IN	1992-052
LAFRB 15 Plant	Lafarge North America, 20408 West Renwick Road, Lockport, IL 60441-0089 https://www.lafargeholcim.us/ Northampton, PA Fly Ash, Class C	Federal White's Skyline, Lafarge Terminal	Northampton PA	----



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 8/4/2020

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

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	Product	Name	Plant City	Plant State	Ref. No.
LAFRC 15 Terminal	Lafarge North America, 20408 West Renwick Road, Lockport, IL 60441-0089 Harrisburg, PA Fly Ash, Class C	https://www.lafargeholcim.us/ Pensy Supply, Paxton Street Lafarge Terminal	Harrisburg	PA	----
RIVERT15 Terminal	Riverside Construction Materials, 355 Newbold Road, Fairless Hills, PA 19030 7900 N. Radcliffe Street Bristol, PA 19007 Fly Ash, Class F	Enel Produzione SpA <i>Terminal for ENELP 2016-108Q. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	Civitavecchia	Italy	2016-087Q
SEFA1 15	The Sefa Group, 217 Cedar Road, Lexington, SC 29073 Fly Ash, Class F <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	http://sefagroup.com/ Keystone Generating Station	Shelocata	PA	2016-028Q
SEFA2 15	The Sefa Group, 217 Cedar Road, Lexington, SC 29073 Fly Ash, Class F <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	http://sefagroup.com/ Star GenOn Morgantown Generating Station	Newburg	MD	2011-268Q
STECHA15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 Fly Ash, Class F <i>Flowable Fill</i>	http://www.proash.com/ Brunner Island Steam Electric Station (PP&L)	York Haven	PA	----
STECHB15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 Fly Ash, Class F <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	http://www.proash.com/ ProAsh (Brandon Shores Wagner Station)	Baltimore	MD	2006-028Q



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 8/4/2020

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Product	Name	Plant City	Plant State	Ref. No.
STECHC15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 Fly Ash, Class F <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	http://www.proash.com/ Maidsville	WV	2016-144Q
STECHD15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 Fly Ash, Class F <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	http://www.proash.com/ York Haven	PA	2006-031Q
STECHT15 Terminal	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 Bruner Island 1400 Wago Road York Haven, PA 17370 Fly Ash, Class F <i>Terminal for STECH 2016-144Q. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	http://www.proash.com/ Maidsville	WV	2016-146Q

724.3 Ground Granulated Blast Furnace Slag (GGBFS) for Cement Partial Replacement

Last Revised: 3/9/2020

AASHTO M302 (ASTM C989), Grade 100 or 120

Ground Granulated Blast Furnace Slag (GGBFS) manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for GGBFS material should be recorded on this spreadsheet: [GGBFS Statistical Data Spreadsheet](#)

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Product	Name	Plant City	Plant State	Ref. No.
ARGO3 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 Bessemer, PA <i>Formerly Essroc Materials, Inc. (ESS-6 15)</i>	https://www.argos.co/usa/		



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Ground Granulated Blast Furnace Slag (GGBFS) for Cement Partial Replacement

Last Revised: 3/9/2020

AASHTO M302 (ASTM C989), Grade 100 or 120

Ground Granulated Blast Furnace Slag (GGBFS) manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for GGBFS material should be recorded on this spreadsheet: [GGBFS Statistical Data Spreadsheet](#)

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	Product	Name	Plant City	Plant State	Ref. No.
ARGO3 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ Bessemer, PA <i>Formerly Essroc Materials, Inc. (ESS-6 15)</i> Blast Furnace Slag, Grade 100	Lehigh Slag Cement, GGBFS (ALLCEM) (Plant Ref. No. 2006-008)	Middlebranch	OH	2010-022QC
	<i>Former product names: i.tech Slag & Essroc Slag. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
ARGO4 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ 500 West Park Road Leetsdale, PA 15056 <i>Formerly Essroc Materials, Inc. (ESS10 15)</i> Blast Furnace Slag, Grade 100	SuperCem Adana, Grade 100 (Source: Iskenderun, Turkey)	Chesapeake	VA	2018-028Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
ARGO5 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/ Curtis Bay Terminal 5700 Chemical Road Baltimore, MD 21226-5700 <i>Formerly Essroc Materials, Inc. (ESS16 15)</i> Blast Furnace Slag, Grade 100	Lehigh Slag Cement (Plant Ref. No. 2000-300Q)	Camden	NJ	2016-034Q
	<i>Former product name: i.tech Slag. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
	Blast Furnace Slag, Grade 120	Lehigh Slag Cement (Plant Ref. No. 2008-007Q)	Camden	NJ	2016-034Q
	<i>Former product name: i.tech Slag. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

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Product	Name	Plant City	Plant State	Ref. No.
CRH-4 15 Plant	CRH Canada Group Inc. (To be renamed Ash Grove, effective 7/6/20), 2300 Steeles Avenue West, Concord, Ontario L4K 5X6 https://www.ashgrove.com/			
	2391 Lakeshore Road West Mississauga, Ontario L5J 1K1 Blast Furnace Slag, Grade 100 <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. (Formerly CRH Slag Cement)</i>	Ash Grove Slag Cement Mississauga	Ontario	2000-087Q
HOLI1 15 Terminal	Holcim (US) Inc. d/b/a LafargeHolcim US, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/			
	Tarentum Terminal 445 Grantham Street Tarentum, PA 15084 Blast Furnace Slag, Grade 100 <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. Purchased by Skyway Cement Company with effective date of July 11th, 2015 and supplier code of SKYC1 15.</i>	Skyway Cement (Plant Ref. No. 2009-094) Chicago	IL	2009-194Q
LAFR1115 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/			
	Sparrows Point Cement Plant 2001 Wharf Road Baltimore, MD 21219 Blast Furnace Slag, Grade 100 <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	NewCem 100 Baltimore	MD	1993-213
	Blast Furnace Slag, Grade 120 <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	NewCem 120 Baltimore	MD	1993-230
LAFR1515 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/			
	South Chicago Cement Terminal/Slag 2150 East 130th Street Chicago, IL 60633 Blast Furnace Slag, Grade 120 <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	NewCem 120 Chicago	IL	2003-002Q
LAFR1715 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/			
	Pittsburg Terminal 1529 Chartiers Avenue Pittsburgh, PA 15204 Blast Furnace Slag, Grade 120 <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	NewCem 120, (Plant Ref. No. 1993-230) Baltimore (Sparrows Point)	MD	1993-230



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	Product	Name	Plant City	Plant State	Ref. No.
LAFR1815 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 Woodstock, Ontario	NewCem 100	Woodstock	Ontario	2018-100Q
	Blast Furnace Slag, Grade 100				
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LAFR2 15 Terminal	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 Cleveland Cement Terminal/Slag 2500 Elm Street Cleveland, OH 44113	NewCem 120	Chicago	IL	2006-234Q
	Blast Furnace Slag, Grade 120				
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LEH-3 15 Plant	Lehigh Cement Company, LLC, 537 Evansville Road, Fleetwood, PA 19522 Evansville Plant, Fleetwood, PA	Lehigh Slag Cement GGBFS (ALLCEM)	Evansville	PA	2001-058Q
	Blast Furnace Slag, Grade 120				
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LEH-4 15 Terminal	Lehigh Cement Company, LLC, 100 Woodlawn Road, Aliquippa, PA 15001-5404 Aliquippa, PA	Lehigh Slag Cement, GGBFS (ALLCEM)	Evansville	PA	2011-035Q
	Blast Furnace Slag, Grade 120				
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. [Terminal for LEH-3 15, Ref. No. 2001-058Q]</i>				
LEH15 15 Plant	Lehigh Cement Company, LLC, 595 Morgan Blvd, Camden, NJ 08104 595 Morgan Blvd Camden, NJ 08104 (Formerly Essroc ESS15 15)	Lehigh Slag Cement, GGBFS (ALLCEM)	Camden	NJ	2008-007Q
	Blast Furnace Slag, Grade 120				
	<i>Former product names: i.tech Slag & GranCem Cement. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				



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Product	Name	Plant City	Plant State	Ref. No.
LEH16 15 Terminal	Lehigh Cement Company, LLC, 8282 Middlebranch Road, Middlebranch, OH 44652 [Slag Plant, Cement Terminal] Middlebranch, OH 44652 <i>(Formerly Essroc ESS-4 15)</i> Blast Furnace Slag, Grade 100	Lehigh Slag Cement GGBFS (ALLCEM) Middlebranch	OH	2006-008Q
<i>Former product names: i.tech Slag & Essroc Slag. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. NOTE: The Middlebranch, OH plant (LEH16 15) supplies Grade 100 Blast Furnace Slag to the ARGO3 15 (Bessemer, PA) and ARGO4 15 (Leetsdale, PA) terminals.</i>				
SKYC1 15 Plant	Skyway Cement Company, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 3020 East 103rd Street Chicago, IL 60617 <i>Formerly Holcim (HOLI0 15, HOLI1 15, and HOLI9 15)</i> Blast Furnace Slag, Grade 100	Skyway Cement Chicago	IL	2009-094Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
SKYC2 15 Terminal	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 445 Grantham Street Tarentum, PA 15084 <i>Leased cement terminal from Holcim (HOLI1 15)</i> Blast Furnace Slag, Grade 100	Skyway Cement Chicago	IL	2009-194Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
SKYC3 15 Terminal	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 Crafton Yard Terminal Pittsburgh, PA Blast Furnace Slag, Grade 100	Skyway Slag Cement (Plant Ref. No. 2009-094) Chicago	IL	2017-136Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. Material is stored in a leased silo from LafargeHolcim (LAFR1715). Note: Skyway Cement Company's Bill of Ladings for SKYC3 15 are signed by LafargeHolcim terminal employees.</i>				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Ground Granulated Blast Furnace Slag (GGBFS) for Cement Partial Replacement

Last Revised: 3/9/2020

AASHTO M302 (ASTM C989), Grade 100 or 120

Ground Granulated Blast Furnace Slag (GGBFS) manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for GGBFS material should be recorded on this spreadsheet: [GGBFS Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
SKYC4 15 Terminal	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 http://skywaycement.com/			
	Columbus Terminal 220 Walnut Street Blacklick, OH 43004 Blast Furnace Slag, Grade 100 Skyway Cement (Plant Ref. No. 2009-094) <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	Chicago	IL	2017-227Q
SKYC5 15 Terminal	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 http://skywaycement.com/			
	315 Poplar Street Etna, PA 15223 Blast Furnace Slag, Grade 100 Skyway Cement (Plant Ref. No. 2009-094) <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	Chicago	IL	2018-145Q
STMC4 15 Plant	St. Marys Cement, 9333 Dearbourn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/			
	Detroit, MI Blast Furnace Slag, Grade 100 Cemplus <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	Detroit	MI	2006-007Q
STMC6 15 Terminal	St. Marys Cement, 250 Jefferson Street, Cleveland, OH 44113 http://www.stmaryscement.com/saintmaryscementinc/			
	Cleveland, OH Blast Furnace Slag, Grade 100 Cemplus <i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>	Detroit	MI	2008-117QB

724.4 Silica Fume (AASHTO M307)

Last Revised: 10/20/2020

Silica fume manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7014 form for silica fume material should be recorded on this spreadsheet. [Silica Fume Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov



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Posted:
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Section 724: Pozzolans - Supplementary Cementitious Materials

724.4 Silica Fume (AASHTO M307)

Last Revised: 10/20/2020

Silica fume manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7014 form for silica fume material should be recorded on this spreadsheet. [Silica Fume Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
GCPRED15 Plant	GCP Applied Technologies, 62 Whittemore Avenue, Cambridge, MA 02140 80 County Road 210 Burnsville, MS 38833			
Silica Fume	Force 10,000 D (densified)	Burnsville	MS	2017-143Q
NORC1 15 Plant	Norchem, Inc., 985 Seaway Drive, Suite A, Fort Pierce, FL 34949-2744 https://www.norchem.com/ West Virginia Manufacturing Route 60 East Alloy, WV 25002			
Silica Fume	Chryso DSF	Alloy	WV	2019-204Q
Silica Fume	Eucon MSA	Alloy	WV	2019-204Q
Silica Fume	Force 10,000 D	Alloy	WV	2019-204Q
Silica Fume	MasterLife SF 100	Alloy	WV	2019-204Q
Silica Fume	Sikacrete 950 DP	Alloy	WV	2019-204Q
Silica Fume	Silica Fume	Alloy	WV	2019-204Q
<i>Silica fume from the Alloy, West Virginia source is also shipped from Norchem's packaging facility in Marietta, OH. Distributors of Norchem's silica fume include BASF Corporation, Euclid Chemical Company, GCP Applied Technologies, Sika Corporation, Acme, Advanced Cement Technology, Chryso, Fritz Pak, General Resource Technology - Mapei, Hydration Kontrol, Peregrine Chemical, Premiere Concrete Admixture, and RussTech.</i>				
REDMS 15 Plant	RED Industrial Products & Mississippi Silicon Partnership, 4 Village Park Drive, #110, Grove City, PA 16127 http://www.redindustrialproducts.com/ 80 County Road 210 Burnsville, MS 38833			
Silica Fume	MasterLife SF 100 (densified)	Burnsville	MS	2016-192Q
Silica Fume	R-E-D Fume Concrete - 102 DM (densified)	Burnsville	MS	2016-192Q
Silica Fume	SikaCrete 950 DP (densified)	Burnsville	MS	2016-192Q



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Section 725: Lime Pozzolan

725 Lime Pozzolan

Last Revised: 5/27/2015

	Product	Name	Ref. No.
CARML 15 Plant	Carmeuse Lime Company, Inc., Route 422 & Clear Springs Road, Annville, PA 17003 Route 422 & Clear Springs Road Annville, PA 17003	https://www.carmeuse.com/na-en	
	Lime Pozzolan	Envirolime	2006-037QA
MINTR 15 Facility	Mintek Resources, Inc., 3045 Rodenbeck Drive, Beaver creek, OH 45432 Pleasant Gap, PA	https://www.mintekresources.com/	
	Lime Pozzolan	Calciment	2005-114Q



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Section 735: Geotextiles

735.1(b) Class 1 Geotextile - Subsurface Drainage

Last Revised: 1/27/2020

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
HANG0 15	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/ Class 1 Geotextile (Woven Monofilament)	TerraTex EP-12 GTX-2017-01-128	2016-274PL1
PROP1 15 Plant	Propex Operating Company, LLC, 4019 Industrial Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 4019 Industry Drive Chattanooga, TN 37416 Class 1 Geotextile (Woven Monofilament)	GEOTEX 111F GTX-2017-01-096	2017-063PL1
SKA-3 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Mundra - 370421 Gujarat, India Class 1 Geotextile (Woven Monofilament)	M404 GTX-2017-01-206	2017-311Q
TCGEO 15 Plant	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 http://www.tencate.com/ Pendergrass, GA & Cornelia, GA Class 1 Geotextile (Woven Monofilament)	Mirafi FW402 GTX-2018-01-140	2016-264Q
THRL3 15 Facility	Thrace Group, Marinou Antypa 20, Alimos, Greece https://www.thracegroup.com/us/en/companies/lumite/ Lumite 1515 North County Line Road Alto, Georgia 30510 Class 1 Geotextile (Woven Monofilament)	GTF-400EO GTX-2019-01-123	2016-199PL2
WINFB 15	Willacoochee Ind. Fabrics, Inc, 769 West Main Street, P.O. Box 599, Willacoochee, GA 31650 http://winfabusa.com/ Class 1 Geotextile (Woven Monofilament)	WINFAB 2197 GTX-2017-01-139	2017-186Q

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

Last Revised: 8/11/2020

Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
BELTN 15	Belton Industries, P.O. Box 127, Belton, SC 29627 http://www.beltonindustries.com/ Class 3, Type B Geotextile (Woven Slit Film)	Beltech 940 GTX-2013-01-059	2003-199Q
LANDM 15	L & M Supply Company, 1800 Springhead Church Road, P.O. Box 640, Willacoochee, GA 31650-0640 https://www.landmsupplyco.com/ Class 3, Type A Geotextile (Woven Slit Film)	LM 200 NT GTX-2019-01-161	2016-036Q



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Section 735: Geotextiles

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

Last Revised: 8/11/2020

Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
PROP3 15 Plant	Propex Operating Company, LLC, 4019 Industry Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 95 East Jefferson Street Hazlehurst, GA 31539		
	Class 3, Type A Geotextile (Woven Slit Film)	GTX-2016-01-244	2017-055Q
	Class 3, Type B Geotextile (Woven Slit Film)	GTX-2015-01-071	2017-056Q
SKA-1 15 Plant	SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ 316 South Holland Drive Pendergrass, GA 30567		
	Class 3, Type A Geotextile (Woven Slit Film)	GTX-2016-01-266	2006-194Q
SKA-2 15 Plant	SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ 335 Athena Drive Athens, GA 30601		
	Class 3, Type A Geotextile (Woven Slit Film)	GTX-2013-01-185	2009-085Q
SKA-3 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Mundra - 370421 Gujarat, India		
	Class 3, Type B Geotextile (Woven Slit Film)	GTX-2016-01-264	2017-043Q
TENC1 15 Facility	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 http://www.tencate.com/ Ahmedabad, India		
	Class 3, Type A Geotextile (Woven Slit Film)	GTX-2016-01-175	2017-077Q
THRL1 15	Thrace-LINQ, Inc., 2550 West 5th North Street, Summerville, SC 29483-9699 http://thracelinq.com/		
	Class 3, Type B Geotextile (Woven Slit Film)	GTX-2018-01-232	2016-203Q
	<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of GTF-200S.</i>		
THRL2 15 Plant	Thrace Group, Marinou Antypa 20, Alimos, Greece https://www.thracegroup.com/us/en/ 20 Marinou Antypa str, 17455 Alimos, Athens, Greece		
	Class 3, Type A Geotextile (Woven Slit Film)	GTX-2017-01-162	2017-149Q
	Class 3, Type B Geotextile (Woven Slit Film)	GTX-2017-01-162	2017-149Q



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Section 735: Geotextiles

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

Last Revised: 8/11/2020

Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
WINFB 15 Willacoochee Ind. Fabrics, Inc, 769 West Main Street, P.O. Box 599, Willacoochee, GA 31650 http://winfabusa.com/			
Class 3, Type A Geotextile (Woven Slit Film)	WINFAB 200W	GTX-2017-01-217	2011-102QA,B
Class 3, Type B Geotextile (Woven Slit Film)	WINFAB 105SF	GTX-2018-01-127	2016-188Q

735.1(b) Class 4, Type A Geotextile - Separation & Erosion Control

Last Revised: 8/11/2020

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
HANG0 15 Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/			
Class 4, Type A Geotextile (Non-woven Needle Punched)	TerraTex N12E	GTX-2017-01-127	2016-272PL3
LANDM 15 L & M Supply Company, 1800 Springhead Church Road, P.O. Box 640, Willacoochee, GA 31650-0640 https://www.landmsupplyco.com/			
Class 4, Type A Geotextile (Non-woven Needle Punched) <i>Provisionally Approved</i>	LM 1200E NT	GTX-2019-01-171	2017-283PL6
PROP1 15 Propex Operating Company, LLC, 4019 Industrial Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ Plant 4019 Industry Drive Chattanooga, TN 37416			
Class 4, Type A Geotextile (Non-woven Needle Punched)	GEOTEX 1291	GTX-2018-01-043	1987-107Q
PROP2 15 Propex Operating Company, LLC, 4019 Industry Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ Plant 428 Rollins Industrial Blvd. Ringgold, GA 30736			
Class 4, Type A Geotextile (Non-woven Needle Punched)	GEOTEX 1291	GTX-2018-01-043	2017-053Q
SKA-2 15 SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Plant 335 Athena Drive Athens, GA 30601			
Class 4, Type A Geotextile (Non-woven Needle Punched)	GE-112	GTX-2019-01-094	2016-265Q



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12/10/2020 9:27:26AM

Section 735: Geotextiles

735.1(b) Class 4, Type A Geotextile - Separation & Erosion Control

Last Revised: 8/11/2020

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
TCGEO 15 Plant	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 http://www.tencate.com/ Pendergrass, GA & Cornelia, GA		
	Class 4, Type A Geotextile (Non-woven Needle Punched) <i>Formerly known as Mirafi S1200.</i>	Mirafi E1200 GTX-2019-01-104	2017-047Q
TEXEL 15 Plant	Texel Technical Materials, Inc., 485 des Erables, Saint-Elzear (Quebec), G0S 2J0 Canada http://texel.ca/en/market-segments/geosynthetics/products/geotextiles/ 1300, 2e Rue, Parc Industriel Sainte-Marie (Quebec), G6E 1G8 Canada		
	Class 4, Type A Geotextile (Non-woven Needle Punched)	TEXEL120E GTX-2017-01-221	2017-073Q
THRL1 15	Thrace-LINQ, Inc., 2550 West 5th North Street, Summerville, SC 29483-9699 http://thracelinq.com/		
	Class 4, Type A Geotextile (Non-woven Needle Punched) <i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of 1200EX.</i>	1200EX GTX-2018-01-170	2017-105Q
	Class 4, Type A Geotextile (Non-woven Needle Punched) <i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of 275EXPA.</i>	275EXPA GTX-2017-01-164	2016-200Q
WINFB 15	Willacoochee Ind. Fabrics, Inc, 769 West Main Street, P.O. Box 599, Willacoochee, GA 31650 http://winfabusa.com/		
	Class 4, Type A Geotextile (Non-woven Needle Punched)	WINFAB 1200NE	2017-226PL
	Class 4, Type A Geotextile (Non-woven Needle Punched)	WINFAB 1200NE-PA GTX-2020-01-098	2020-081PL

735.1(b) Class 4, Type C Geotextile - Stabilization & GRS Abutment Reinforcement

Last Revised: 7/9/2020

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
LANDM 15	L & M Supply Company, 1800 Springhead Church Road, P.O. Box 640, Willacoochee, GA 31650-0640 https://www.landmsupplyco.com/		



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Section 735: Geotextiles

735.1(b) Class 4, Type C Geotextile - Stabilization & GRS Abutment Reinforcement

Last Revised: 7/9/2020

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

	Product	Name	NTPEP Test Number	Ref. No.
LANDM 15	L & M Supply Company, 1800 Springhead Church Road, P.O. Box 640, Willacoochee, GA 31650-0640 https://www.landmsupplyco.com/ Class 4, Type C Geotextile (Woven Polypropylene)	LM 570 HP	GTX-2019-01-174	2016-046Q
PROP1 15 Plant	Propex Operating Company, LLC, 4019 Industrial Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 4019 Industry Drive Chattanooga, TN 37416 Class 4, Type C Geotextile (Woven Polypropylene)	GEOTEX 4x4HF	GTX-2019-01-150	2017-057PL1
SKA-3 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Mundra - 370421 Gujarat, India Class 4, Type C Geotextile (Woven Polypropylene)	M440	GTX-2019-01-033	2020-076Q
TCGEO 15 Plant	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 http://www.tencate.com/ Pendergrass, GA & Cornelia, GA Class 4, Type C Geotextile (Woven Polypropylene)	Mirafi HP570	GTX-2018-01-074	2001-111Q
THRL2 15 Plant	Thrace Group, Marinou Antypa 20, Alimos, Greece https://www.thracegroup.com/us/en/ 20 Marinou Antypa str, 17455 Alimos, Athens, Greece Class 4, Type C Geotextile (Woven Polypropylene) <i>This product is only approved for projects let per Publication 408, 2016 Change No. 7 and earlier. It is not approved for contracts let per Standard Special Provision a00089 Changes to Specifications: Section 735 or Pub 408, 2020 Initial Edition.</i>	GTF-550	GTX-2016-02-005	2016-267Q
THRL3 15 Facility	Thrace Group, Marinou Antypa 20, Alimos, Greece https://www.thracegroup.com/us/en/companies/lumite/ Lumite 1515 North County Line Road Alto, Georgia 30510 Class 4, Type C Geotextile (Woven Polypropylene)	GTF-570	GTX-2018-01-238	2016-202PL2
WINFB 15	Willacoochee Ind. Fabrics, Inc, 769 West Main Street, P.O. Box 599, Willacoochee, GA 31650 http://winfabusa.com/ Class 4, Type C Geotextile (Woven Polypropylene) <i>This product is only approved for projects let per Publication 408, 2016 Change No. 7 and earlier. It is not approved for contracts let per Standard Special Provision a00089 Changes to Specifications: Section 735 or Pub 408, 2020 Initial Edition.</i>	WINFAB 4x4	GTX-2017-01-137	2017-262Q
	Class 4, Type C Geotextile (Woven Polypropylene)	WINFAB 570HP	GTX-2017-01-131	2016-096Q



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Section 736: Geomembrane

736 Geomembrane, High Density Polyethylene (HDPE)

Last Revised: 11/23/2020

Product	Name	Ref. No.
AGRUA 15 Agru America, Inc., 700 Rockmead, Suite 150, Kingwood, TX 77339 http://agruamerica.com/		
Geomembrane (HDPE)	AA Microspike	1999-196
Geomembrane (HDPE)	AA Smooth	1999-196
GSELT 15 GSE Environmental, 19103 Gundle Road, Houston, TX 77073 http://www.gseworld.com/		
Geomembrane (HDPE)	GSE HD Smooth	1999-189
Geomembrane (HDPE)	GSE HD Textured	1999-189
LAYF1 15 Layfield USA Corporation, 10038 Marathon Parkway, Lakeside, CA 92040 https://www.layfieldgroup.com/		
Plant Layfield Geosynthetics - Vancouver 11120 Silversmith Place Richmond, British Columbia V7A 5E4		
Geomembrane (HDPE)	HDPE Smooth (High Density Polyethylene Geomembrane Liner)	2019-202Q
RAVEN 15 Raven Industries, Inc., 1813 "E" Avenue, Sioux Falls, SD 57104 http://ravenind.com/		
Geomembrane (HDPE)	Rufco 3300B	2001-125Q
SKA-4 15 SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/		
Plant 571 Industrial Parkway Commerce, GA 30529		
Geomembrane (HDPE)	SKAPS HDPE Smooth Geomembranes	2020-020Q
Geomembrane (HDPE)	SKAPS HDPE Textured Geomembrane	2020-035Q
SOLMX 15 Solmax International, Inc., 2801 Marie-Victorin Boulevard, Varennes, Quebec J3X 1P7 http://www.solmax.com/		
Geomembrane (HDPE)	400 Series	2000-148



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Section 737: Geocell

737 Geocell

Last Revised: 5/5/2017

	Product	Name	Ref. No.
GEOPR 15	Geo Products, 8615 Golden Spike Lane, Houston, TX 77086 http://www.geoproducts.org/		
	GeoCell, Perforated or Non-Perforated (<i>EnviroGrid EGA20</i>)	TerraCell 140 (Type A - 4", 6", or 8" cell depth)	2001-122Q
	GeoCell, Perforated or Non-Perforated (<i>EnviroGrid EGA30</i>)	TerraCell 175 (Type B - 4", 6", or 8" cell depth)	2001-122Q
	GeoCell, Perforated or Non-Perforated (<i>EnviroGrid EGA40</i>)	TerraCell 280 (Type C - 4", 6", or 8" cell depth)	2001-122Q
PREST 15	Presto Products Company, P.O. Box 2399, Appleton, WI 54912-2399 http://prestoproducts.com/		
	Geocell, Perforated	GeoWeb GW20V (Type A - 4", 6", or 8" cell depth)	2001-063Q



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Section 738: Geogrids

738.2 Class 1 Uniaxial Geogrid Reinforcement

Last Revised: 6/13/2019

Product	Name	Ultimate Tensile Strength	Ref. No.
ACEGE 15	Ace Geosynthetics Enterprise Company, Ltd., No. 33 Jing 3 Road, C.E.P.Z. Wuchi District, Taichung City 43541 http://www.geoace.com/		
	Geogrid: Type A, (PET) PVC Coated Polyester	Maccaferri MacGrid WG8	2190 (lbs/ft)
			2012-027ME
STF-1 15	Synteen Technical Fabrics, 1950 W. Meeting Street, Lancaster, SC 29720 http://www.synteen.com/		
Plant	1950 W. Meeting Street Lancaster, SC 29720		
	Geogrid: Type A, (PET) PVC Coated Polyester	SF110	10,100 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	SF20	2025 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	SF35	3600 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	SF55	5000 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	SF65	6200 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	SF90	9000 (lbs/ft)
STRATA15	Strata Systems, Inc., subsidiary of Glen Raven Technical Fabrics, LLC, 1831 North Park Avenue, Burlington, NC 27217 https://www.geogrid.com/		
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG150	1875 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG200	3600 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG350	5000 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG500	6400 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG550	8150 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG650	10500 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG700	11800 (lbs/ft)
TCGEO 15	TenCate Geosynthetics, 365 South Holland Drive, Pendergrass, GA 30567 http://www.tencate.com/		
Plant	Pendergrass, GA & Cornelia, GA		
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 10XT	9500 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 20XT	13705 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 22XT	20559 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 2XT	2000 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 3XT	3500 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 5XT	4700 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 7XT	5900 (lbs/ft)
	Geogrid: Type A, (PET) PVC Coated Polyester	Miragrid 8XT	7400 (lbs/ft)

738.3 Class 2 and 3 Biaxial Geogrids



BULLETIN 15 (Publication 35)

Qualified Products List for Construction

Posted:
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Section 802: Topsoil Furnished and Placed

802 Topsoil

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 802 for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 805: Mulching

805.2(a)1 Mulches: Seeded Areas

Last Revised: 4/24/2017

Product	Name	Ref. No.
AMEE1 15 Plant American Excelsior Company, 850 Avenue H East, P.O. Box 5067, Arlington, TX 76011 http://americanexcelsior.com/ 831 Pioneer Avenue Rice Lake, WI Wood Fiber	Excel Wood Fiber Mulch II	1992-313
ENCAP 15 Encap, LLC, 3921 Algoma Road, Green Bay, WI 54311-9707 http://encap.net/ Wood Fiber <i>Conditionally Approved as an alternate.</i>	Pam-12 Recycled Paper Mulch	2007-128
HSTRAW15 HydroStraw, LLC, 22110 South State Route 27, Rockford, WA 99030 https://www.hydrostraw.com/ Straw <i>Conditionally Approved as an alternate.</i>	HydroStraw® Original	2012-153
MATTT 15 Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/ Wood Fiber Wood Fiber	Bindex Wood WT Mat Fiber Plus	2011-074QA 1992-150D
PROFP 15 Plant Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ 219 Simpson Street SW Conover, NC 28613 Wood Fiber Wood Fiber Wood Fiber Wood Fiber Wood Fiber Wood Fiber	Conwed Fibers 2000 Conwed Fibers Hydro Mulch 1000 EcoSolutions EcoFibre™ Lesco HydroCover Wood SoilCover Wood Terra-Mulch Terra-Wood™	1990-279 2014-162MB 2016-113 2016-113 2016-113 2016-113



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 805: Mulching

805.2(a)1 Mulches: Seeded Areas

Last Revised: 4/24/2017

Product	Name	Ref. No.
TENSR 15 Tensar International Corporation, 7265 AL Highway 9S, Centre, AL 35960 http://www.tensarcorp.com/ <i>Formerly Mulch and Seed Innov. (MULSI)</i>		
Wood Fiber <i>Conditionally Approved as an alternate.</i>	GeoSkin Hydraulic (Wood Fiber Alternate)	2010-125
Wood Fiber <i>Conditionally Approved as an alternate.</i>	GeoSkin XT Hydraulic (Wood Fiber Alternate)	2010-135

805.2(a)1.e Mulches: Seeded Areas, Bonded Fiber Matrix

Last Revised: 5/16/2019

Product	Name	Ref. No.
CARPF 15 Carolina Precision Fibers, Inc., 145 Factory Street, Rhonda, NC 28670 http://www.carolinafibers.com/ Polymer or Hydrocolloid Binder Matrix	Mulch and Grow BFM	2014-008Q
CENTF 15 Plant Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ 1525 Waynesburg Drive SE Canton, OH 44707 <i>(Formerly Central Fiber LLC)</i>		
Polymer or Hydrocolloid Binder Matrix	EnviroMatt	2013-156Q
Polymer or Hydrocolloid Binder Matrix	SprayMatt	2013-157Q
EMSAL 15 E M Sales, LLC, 212 East High Street, Suite 102, Pottstown, PA 19464 http://emsalesllc.com/ Polymer or Hydrocolloid Binder Matrix	Fibre Mat	1997-133
HSTRAW15 HydroStraw, LLC, 22110 South State Route 27, Rockford, WA 99030 https://www.hydrostraw.com/		
Polymer or Hydrocolloid Binder Matrix <i>Conditionally Approved as an alternate.</i>	HydroStraw® Bonded Fiber Matrix (BFM)	2012-155
Polymer or Hydrocolloid Binder Matrix <i>Conditionally Approved as an alternate.</i>	HydroStraw® Guar Plus	2012-154



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Section 805: Mulching

805.2(a)1.e Mulches: Seeded Areas, Bonded Fiber Matrix

Last Revised: 5/16/2019

	Product	Name	Ref. No.
MATNU 15 Facility	Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/		
	Mat-NuWood, LLC 811 Price Place Lenoir, NC 28645		
	Polymer or Hydrocolloid Binder Matrix	Spray Guard	2018-269Q
MATTT 15	Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/		
	Polymer or Hydrocolloid Binder Matrix	Bindex BFM	2011-074QB
	Polymer or Hydrocolloid Binder Matrix	Flex Guard	2010-004Q
	<i>Provisionally Approved</i>		
	Polymer or Hydrocolloid Binder Matrix	Soil Guard	1996-046
PROFP 15 Plant	Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/		
	219 Simpson Street SW Conover, NC 28613		
	Polymer or Hydrocolloid Binder Matrix	EcoSolutions EcoAegis® BFM	2016-100Q
	<i>Provisionally Approved</i>		
	Polymer or Hydrocolloid Binder Matrix	EcoSolutions EcoFlex™ HP-FGM™	2016-111Q
	Polymer or Hydrocolloid Binder Matrix	EcoSolutions EcoMatrix™ (EFM)	2016-110
	<i>Conditionally approved as an alternate.</i>		
Polymer or Hydrocolloid Binder Matrix	Flexterra HP-FGM	1998-153	
Polymer or Hydrocolloid Binder Matrix	Hydro-Blanket	2006-003Q	
<i>Provisionally Approved</i>			
	Polymer or Hydrocolloid Binder Matrix	ProMatrix EFM	2014-262M
<i>Conditionally Approved as an alternate.</i>			
TENSr 15	Tensar International Corporation, 7265 AL Highway 9S, Centre, AL 35960 http://www.tensarcorp.com/		
	<i>Formerly Mulch and Seed Innov. (MULSI)</i>		
	Polymer or Hydrocolloid Binder Matrix	HydraCX2 Extreme Slope Matrix	2009-066
<i>Conditionally Approved as an alternate.</i>			
	Polymer or Hydrocolloid Binder Matrix	Hydro CM Hydraulically-Applied Mulch	2011-133
<i>Also: Ground Control HY-C3 High Performance</i>			
<i>Conditionally Approved as an alternate.</i>			



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Section 805: Mulching

805.2(a)1.e Mulches: Seeded Areas, Bonded Fiber Matrix

Last Revised: 5/16/2019

Product	Name	Ref. No.
TERRN 15 LSC Environmental Products, LLC, 2930 Patton Way, Bakersfield, CA 93308 http://www.lscenv.com/ (Formerly Terra Novo, Inc.)		
Polymer or Hydrocolloid Binder Matrix	EarthGuard Fiber Matrix	2013-053Q
USGY1 15 U. S. Gypsum Company, Industrial Products, 125 South Franklin Street, Chicago, IL 60606-4678		
Gypsum Binder Matrix	Airtrol	1994-114
Gypsum Binder Matrix	Enviro-Shield	2006-189Q

805.2(a)2 Mulches: Planting and Other Areas

Last Revised: 8/14/2015

Product	Name	Ref. No.
L&W-D 15 L & W Demolition Company, 2224 Paxton Street, Rear, Harrisburg, PA 17111 http://lwdemolition.com/		
Shredded Bark		1991-029
LAUVS 15 Laurel Valley Soils, P.O. Box 640, Avondale, PA 19311 http://laurelvalleysoils.com/		
Spent Mushroom Compost	LVS Horticultural Compost	2003-013Q
Spent Mushroom Compost	LVS Premium Compost	2003-013Q

805.2(b) Mulch Binders

Last Revised: 6/3/2016

Wood Fiber [See 805.2(a)1.c]

Product	Name	Ref. No.
AMEE0 15 American Excelsior Company, 850 Avenue H East, Arlington, TX 76011 http://americanexcelsior.com/		
Nonasphaltic Emulsion	AM-TAC	1990-278
CARPF 15 Carolina Precision Fibers, Inc., 145 Factory Street, Rhonda, NC 28670 http://www.carolinafibers.com/		
Recycled Cellulose Fiber	Mulch and Grow Hybrid 70/30 Blend	2010-007Q
Recycled Cellulose Fiber	Mulch and Grow Premium Cellulose	2010-006Q
Recycled Cellulose Fiber/Wood Fiber Mixture	PF Wood Blend 70/30 Mulch	2004-077Q



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Section 805: Mulching

805.2(b) Mulch Binders

Last Revised: 6/3/2016

Wood Fiber [See 805.2(a)1.c]

	Product	Name	Ref. No.
CENTF 15 Plant	Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ 1525 Waynesburg Drive SE Canton, OH 44707 (Formerly Central Fiber LLC)		
	Recycled Cellulose Fiber	Second Nature Wood Fiber	1991-182
EMSAL 15	E M Sales, LLC, 212 East High Street, Suite 102, Pottstown, PA 19464 http://emsalesllc.com/		
	Nonasphaltic Emulsion	Mulchmate Hydro Tac	1987-187
	Recycled Cellulose Fiber	Quickseed	1987-187
MATTT 15	Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/		
	Recycled Cellulose Fiber	Mat Blend	1992-150A
	Recycled Cellulose Fiber	Mat Blend Plus	1992-150B
	Recycled Cellulose Fiber/Wood Fiber Mixture	Bindex Blend WT	2011-074QC
PINNA 15	Pinnacle Industries, 160 Wilber Placw, Bohemia, NY 11716 http://pinnacleindustriesltd.com/en/home		
	Recycled Cellulose Fiber	Evergreen Fiber Mulch	1994-013
PLWBC 15	Plant Wise Biostimulant Company, 1402 West Main Street, Louisville, KY 40203-1328 http://www.plant-wise.com/		
	Nonasphaltic Emulsion	TAC-L	2001-082Q
PROFP 15 Plant	Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ 219 Simpson Street SW Conover, NC 28613		
	Nonasphaltic Emulsion	Contack	1990-280
PROFT 15 Plant	Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Limestone, TN		
	Recycled Cellulose Fiber	SoilCover Cellulose	2014-163Q
	Recycled Cellulose Fiber	Terra-Mulch Cellulose	2014-064Q
	Recycled Cellulose Fiber	Tornado Tack ST-1000	2015-032Q



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Section 805: Mulching

805.2(b) Mulch Binders

Last Revised: 6/3/2016

Wood Fiber [See 805.2(a)1.c]

	Product	Name	Ref. No.
RANTC 15	Rantec Corporation, 17 Kukuchka Lane, P.O. Box 729, Ranchester, WY 82839 Nonasphaltic Emulsion	http://www.ranteccorp.com/ HF5000 Tack	2012-211
TURGD 15 Plant	Turf Guard Manufacturing, Inc., 489 Sweet Valley Road, Hunlock Creek, PA 18621 West Nanticoke, PA 18634 Nonasphaltic Emulsion	Earth Bond	2002-017Q

805.2(c) Mulch Control Netting

Last Revised: 5/27/2015

	Product	Name	Ref. No.
BELTN 15	Belton Industries, P.O. Box 127, Belton, SC 29627 Coconut Coir Netting	http://www.beltonindustries.com/ Dekowe Geonet	----
TENX0 15	Tenax Corporation, 4800 East Monument Street, Baltimore, MD 21205 Plastic Netting	http://www.tenaxus.com/ Ornex LM	1999-036Q

805.2(d) Weed Barrier and Weed Control Mats

Last Revised: 8/11/2020

	Product	Name	Ref. No.
HANG0 15	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 Weed Barrier Mat	http://hanesgeo.com/ Terra Tex NO3	1996-125
	Weed Barrier Mat	Terra Tex NO4	1986-295
	Weed Barrier Mat	Terra Top WC	----
REEMA 15	Berry Global, Inc., 70 Old Hickory Boulevard, Old Hickory, TN 37138-3651 (Formerly known as Fiberweb, Inc. and Reemay, Inc.) Weed Control Mat	http://www.typargeosynthetics.com Biobarrier II	1994-304



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Section 805: Mulching

805.2(d) Weed Barrier and Weed Control Mats

Last Revised: 8/11/2020

Product	Name	Ref. No.
THRL1 15	Thrace-LINQ, Inc., 2550 West 5th North Street, Summerville, SC 29483-9699 http://thracelinq.com/	
Weed Barrier Mat	125EX	1999-120Q
<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of 125EX.</i>		
Weed Barrier Mat	GTF 200 WBM	1991-329
<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of GTF 200 WBM.</i>		
Weed Barrier Mat	GTF 200S	1994-197
<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of GTF 200S.</i>		



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**Posted:
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Section 806: Rolled Erosion Control Products (RECPs)

For contracts let on or after April 7th, 2017 (Pub 408, 2016 Change No. 2), temporary and permanent Rolled Erosion Control Products (RECPs) are project-specific, locally approved materials.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 806 for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.

Use of any product listed in this Section is ultimately subject to County Conservation District (DEP's representatives) oversight and acceptance for project field conditions.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 808: Plants, Planting and Transplanting

808.2(a)6 Bare Root (BR) Plants

Last Revised: 3/18/2015

Product	Name	Ref. No.
HORTA 15 Horticultural Alliance, Inc., P.O. Box 5744, Sarasota, FL 34239 http://www.horticulturalalliance.com/ Superconcentrated Water Absorbent Gel	Horta-Sorb SM	1998-161

808.2(c) Fertilizer

Last Revised: 3/18/2015

Product	Name	Ref. No.
UNIQF 15 U.F.I., 205 Caulfield Avenue, Deptford, NJ 08096 http://www.ufi.org/ Fertilizer	The Unique Feeder, 16-8-16 Packet 4 oz.	----

808.2(f) Soil Amendments

Last Revised: 5/10/2017

Product	Name	Ref. No.
HORTA 15 Horticultural Alliance, Inc., P.O. Box 5744, Sarasota, FL 34239 http://www.horticulturalalliance.com/ Mycorrhizal Inoculation (Trees)	Diehard Transplant	1998-179
Water Absorbent Polymer	Horta-Sorb LG	1998-160
LAUVS 15 Laurel Valley Soils, P.O. Box 640, Avondale, PA 19311 http://laurelvalleysoils.com/ Spent Mushroom Soil Compost	LVS Horticultural Compost	2003-014Q
Spent Mushroom Soil Compost	LVS Premium Compost	2003-014Q
PLTHC 15 Plant Health Care, Inc., 440 William Pitt Way, Pittsburgh, PA 15238 http://www.planthealthcare.com/ Mycorrhizal Inoculation (Bare Root Seedlings and Transplants)	Mycor Tree Root Dip	1998-167
Mycorrhizal Inoculation (Trees)	Mycor Tree Saver	1998-166
PROFP 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Plant 219 Simpson Street SW Conover, NC 28613 Paper Mill Compost	ProGanics™ Biotic Soil Media™ (BSM™)	2016-128

Conditionally approved as an alternate. The required soil testing and interpretation will be performed by Profile Products. Contractor must adhere to the manufacturer's usage and application guidelines.



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Section 808: Plants, Planting and Transplanting

808.2(f) Soil Amendments

Last Revised: 5/10/2017

Product	Name	Ref. No.
UAJA- 15 University Area Joint Authority, 1576 Spring Valley Road, State College, PA 16801 http://uaja.com/ Sewage Sludge Compost	UAJA Compost	1993-141

808.2(g)3 Collar Strap Attachments

Last Revised: 3/18/2015

Product	Name	Ref. No.
KESLK 15 Keslick and Son, 214 North Penn Street, West Chester, PA 19380 Collar Strap Attachment	CambGuards	1996-033
NEPTC 15 Neptco, Inc., 30 Hamlet Street, Pawtucket, RI 02861 http://www.neptco.com/ Collar Strap Attachment	ArborTie	1995-277

808.2(i) Time-Release Water

Last Revised: 3/18/2015

Product	Name	Ref. No.
DRIWA 15 Driwater, Inc., 50 Old Court House Square, Suite 606, Santa Rosa, CA 95404 http://driwater.com/ Time-Release Water	Driwater	1995-186



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Section 855: Pumped Water Filter Bag

855.2(a) Pumped Water Filter Bag

Last Revised: 6/7/2018

Pumped Water Filter Bag: [Standard Drawing of Dewatering Devices RC-75M \(Pub 72M\)](#)

	Product	Name	Ref. No.
ENVGE 15	Environmental Geosynthetics, 1314 State Road, Coopersburg, PA 18036 Filter Bag	http://www.environmentalgeosynthetics.com/ The Protector 1515 10 oz Sediment Filter Bag	2005-036Q
HANG1 15 Plant	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 Gastonia, NC Filter Bag	http://hanesgeo.com/ FilterBag 1515P	2016-191
INDVA 15	Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 Filter Bag	http://www.iviindustries.com/index.html IVI 1515 Sediment Filter Bag	2001-020Q
JOHNS 15	Johnston-Morehouse Dickey Company, 5401 Progress Boulevard, P.O. Box 173, Bethel Park, PA 15102 Filter Bag	http://www.jmdcompany.com/ Enviro-Protection Filter Bag (15' x 15')	1997-122
ROBER 15	Frank Roberts and Sons, Inc., 1130 Robertsville Road, Punxsutawney, PA 15767 Filter Bag	http://www.frankrobertsandsons.com/ FB-3 Filter Bag	1995-019Q
WINFB 15	Willacoochee Ind. Fabrics, Inc, 769 West Main Street, P.O. Box 599, Willacoochee, GA 31650 Filter Bag	http://winfabusa.com/ DWB10	2016-187Q



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Posted:
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Section 857: Concrete Block Retention Systems

857.2 Concrete Block Retention Systems

Last Revised: 10/19/2017

	Product	Name	Ref. No.
BETPR 15	Bethlehem Precast, Inc., 835 East North Street, Bethlehem, PA 18017 Precaster, Concrete Block Retention System <i>Licensors: International Erosion Control Systems</i>	http://www.bethlehemprecast.com/ Cable Concrete	1999-142Q
YORKB 15	York Building Products, Inc., 1020 North Hartley Street, York, PA 17404 Precaster, Concrete Block Retention System <i>Licensors: ARMORTEC Erosion Control Solutions (Contech Engineered Solutions)</i>	http://www.yorkbuilding.com/ A-Jacks	2000-190Q
	Precaster, Concrete Block Retention System <i>Licensors: ARMORTEC Erosion Control Solutions (Contech Engineered Solutions)</i>	ArmorFlex	2000-188Q
	Precaster, Concrete Block Retention System <i>Licensors: ARMORTEC Erosion Control Solutions (Contech Engineered Solutions)</i>	ArmorLoc	2000-189Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 860: Storm Inlet Protection

860.2(a) Inlet Filter Bag

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 860 for specification and documentation requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.

860.2(b) Concrete Block/Gravel Inlet Protection for Type M, S, or C Inlets

Last Revised: 11/7/2018

Product	Name	Ref. No.
MKB-1 15	MKB Company, 3450 East College Ave, State College, PA 16801 https://www.mkbcompany.com/	
Frame & Filter Assembly	Black Hawk Inlet Filter Mat 2'X4' Type-C	2018-131
<i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines.</i> <i>* Shall only be used for inlets at grade level.</i> <i>* Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed. Blackhawk Inlet Filter Mat Product Specifications and Installation/Maintenance Procedure</i>		
Frame & Filter Assembly	Black Hawk Inlet Filter Mat 2'X4' Type-M	2018-131
<i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines.</i> <i>* Shall only be used for inlets at grade level.</i> <i>* Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed. Blackhawk Inlet Filter Mat Product Specifications and Installation/Maintenance Procedure</i>		



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Section 860: Storm Inlet Protection

860.2(b) Concrete Block/Gravel Inlet Protection for Type M, S, or C Inlets

Last Revised: 11/7/2018

Product	Name	Ref. No.
SILTS 15	SILT-SAVER, INC, 1094 CULPEPPER DRIVE, CONYERS, GA 30094-0000	
Frame & Filter Assembly	R-100A-DOT (Round)	2013-057
<p><i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines.</i></p> <p><i>* Shall only be used for inlets at grade level which are not adjacent to a curb or gutter.</i></p> <p><i>* Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed.</i></p>		
Frame & Filter Assembly	S-200A-DOT (Square)	2013-057
<p><i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines.</i></p> <p><i>* Shall only be used for inlets at grade level which are not adjacent to a curb or gutter.</i></p> <p><i>* Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed.</i></p>		



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Posted:
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Section 865: Silt Barrier Fence

865.2 Geotextile Silt Fence Fabricators

Last Revised: 1/31/2020

Fabricate according to [Standard Drawing RC-70M \(Publication 72M\)](#)

30" Fence Requires Mesh Support. Maximum Post Spacing is 8 feet for Fence using Class 3, Type A Geotextile. Maximum Post Spacing is 4 feet for Fence using Class 3, Type B Geotextile.

Product	Name	Geotextile Type	Max Post Spacing (ft)	Ref. No.	
ACF-1 15	ACF Environmental, Inc., 2831 Cardwell Road, Richmond, VA 23234 http://www.acfenvironmental.com/view.aspx?page=home				
	Silt Barrier Fence, 18" Height	PD3A18100	Class 3, Type A	8	2004-099Q
	Silt Barrier Fence, 18" Height	PD3B18052	Class 3, Type B	4	2004-100Q
	Silt Barrier Fence, 30" Height	PD3A30100	Class 3, Type A	8	2004-101Q
	<i>With Approved Mesh</i>				
	Silt Barrier Fence, 30" Height	PD3B30052	Class 3, Type B	4	2004-102Q
	<i>With Approved Mesh</i>				
AMEE0 15	American Excelsior Company, 850 Avenue H East, Arlington, TX 76011 http://americanexcelsior.com/				
	Silt Barrier Fence, 18" Height	Silt Fence	Class 3, Type B	4	1989-155A
HANG0 15	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/				
	Silt Barrier Fence, 18" Height	IKEX 244B36 3B	Class 3, Type B	4	2004-172QA
	Silt Barrier Fence, 18" Height	IKEX 248B36 3A	Class 3, Type A	8	2004-172QB
	Silt Barrier Fence, 18" Height	P-Fence 303A	Class 3, Type A	8	1991-390
	Silt Barrier Fence, 18" Height	P-Fence 303B	Class 3, Type B	4	1991-391
	Silt Barrier Fence, 30" Height	IKEX 368B48 3A	Class 3, Type A	8	2004-171QA
	<i>With Approved Mesh</i>				
	Silt Barrier Fence, 30" Height	IKEX 368B48 3B	Class 3, Type B	4	2004-171QB
	<i>With Approved Mesh</i>				
	Silt Barrier Fence, 30" Height	P-Fence 423AM	Class 3, Type A	8	1991-392
	<i>With Approved Mesh</i>				
	Silt Barrier Fence, 30" Height	P-Fence 423BM	Class 3, Type B	4	1991-393
	<i>With Approved Mesh</i>				
INDVA 15	Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 http://www.iviindustries.com/index.html				
	Silt Barrier Fence, 18" Height	1813-PA	Class 3, Type B	4	2001-019QA
	Silt Barrier Fence, 30" Height	3013-PA	Class 3, Type B	8	2001-019QB
	<i>With Approved Mesh</i>				



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Posted:
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Section 865: Silt Barrier Fence

865.2 Geotextile Silt Fence Fabricators

Last Revised: 1/31/2020

Fabricate according to [Standard Drawing RC-70M \(Publication 72M\)](#)

30" Fence Requires Mesh Support. Maximum Post Spacing is 8 feet for Fence using Class 3, Type A Geotextile. Maximum Post Spacing is 4 feet for Fence using Class 3, Type B Geotextile.

Product	Name	Geotextile Type	Max Post Spacing (ft)	Ref. No.	
JOHNS 15	Johnston-Morehouse Dickey Company, 5401 Progress Boulevard, P.O. Box 173, Bethel Park, PA 15102 http://www.jmdcompany.com/				
	Silt Barrier Fence, 18" Height	JMD 3A	Class 3, Type A	8	1990-135
	Silt Barrier Fence, 18" Height	JMD 3B	Class 3, Type B	4	1988-159
	Silt Barrier Fence, 18" Height <i>With Approved Mesh</i>	JMD 3B	Class 3, Type B	8	1990-082
	Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	JMD 3A	Class 3, Type A	8	2001-089Q
	Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	JMD 3B	Class 3, Type B	4	1988-282
MKB-1 15	MKB Company, 3450 East College Ave, State College, PA 16801 https://www.mkbcompany.com/				
	Multi-layer Geotextile Filter Fence <i>Conditionally approved per manufacturer's specifications as an alternate to Class 3, Type A.</i>	SILTRON			2018-229Q
MUTAL 15	Mutual Industries, 707 West Grange Street, Philadelphia, PA 19120 http://www.mutualindustries.com/				
	Silt Barrier Fence, 18" Height	PA DOT 3B18	Class 3, Type B	4	1994-156A
	Silt Barrier Fence, 18" Height <i>With Approved Mesh</i>	PA DOT 3B18	Class 3, Type B	4	1994-156B
	Silt Barrier Fence, 30" Height	PA DOT 3B30	Class 3, Type B	4	1994-156C
	Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	PA DOT 3B30	Class 3, Type B	4	1994-156D



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Section 865: Silt Barrier Fence

865.2 Geotextile Silt Fence Fabricators

Last Revised: 1/31/2020

Fabricate according to [Standard Drawing RC-70M \(Publication 72M\)](#)

30" Fence Requires Mesh Support. Maximum Post Spacing is 8 feet for Fence using Class 3, Type A Geotextile. Maximum Post Spacing is 4 feet for Fence using Class 3, Type B Geotextile.

Product	Name	Geotextile Type	Max Post Spacing (ft)	Ref. No.
ROBER 15	Frank Roberts and Sons, Inc., 1130 Robertsville Road, Punxsutawney, PA 15767	http://www.frankrobertsandsons.com/		
Silt Barrier Fence, 18" Height <i>With Approved Mesh</i>	FR 110-278M	Class 3, Type B	8	1988-125
Silt Barrier Fence, 18" Height	FR 180-304 Blue	Class 3, Type B	4	1991-372
Silt Barrier Fence, 18" Height	FR 400-308 White	Class 3, Type A	8	1991-370
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	FR 180-424M Black	Class 3, Type B	4	1991-373
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	FR 400-428M Red	Class 3, Type A	8	1991-371



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Section 867: Compost Filter Sock

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 867 for specification and documentation requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Section 868: Compost Blanket and Compost Filter Berm

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application) for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 868 for specification and documentation requirements.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Section 874: Temporary Riser Pipe Assembly

874.2(d) Trash Rack and Anti-Vortex Device

Last Revised: 9/19/2017

See [Standard Drawing RC-71M \(Publication 72M\)](#)

	Product	Name	Ref. No.
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 Trash Rack and Anti-Vortex Device	http://www.lane-enterprises.com/	2002-050Q
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 Trash Rack and Anti-Vortex Device	http://www.lane-enterprises.com/	2002-049Q
LANE4 15	Lane Enterprises, Inc, 377 Crooked Lane, King of Prussia, PA 19406 Trash Rack and Anti-Vortex Device	http://www.lane-enterprises.com/	2002-068Q
MANWF_15	Mann Welding & Fabrication LLC, 2755 Schukraft Road, Quakertown, PA 18951 Trash Rack and Anti-Vortex Device		2014-061Q
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 Trash Rack and Anti-Vortex Device	http://www.nfco.com/	2017-058Q



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Section 875: Concrete Outlet Structure

875.2(c) Trash Rack

Last Revised: 9/20/2017

See [Standard Drawing RC-71M \(Publication 72M\)](#)

	Product	Name	Ref. No.
LANE2 15	Lane Enterprises, Inc., 682 Quaker Valley Road, Bedford, PA 15522 Trash Rack	http://www.lane-enterprises.com/	2002-050Q
LANE3 15	Lane Enterprises, Inc., 8271 Mercer St., P.O. Box 345, Pulaski, PA 16143 Trash Rack	http://www.lane-enterprises.com/	2002-049Q
LANE4 15	Lane Enterprises, Inc, 377 Crooked Lane, King of Prussia, PA 19406 Trash Rack	http://www.lane-enterprises.com/	2002-068Q
MANWF_15	Mann Welding & Fabrication LLC, 2755 Schukraft Road, Quakertown, PA 18951 Trash Rack		2014-061Q
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 Trash Rack	http://www.nfco.com/	2017-058Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Arrow Panel

Last Revised: 5/3/2019

Category 4 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
AMIDA 15	Amida Industries, Inc., P. O. Box 3147, Rock Hill, SC 29731					
Arrow Panel	DL25-FACH-DLO/4		Trailer	Diesel	48x96	1983-134
Arrow Panel	DLB-15-FACH-E900		Trailer	Battery	48x96	1989-079
Arrow Panel	DLB-25-FACH-E900		Trailer	Battery	48x96	1989-091
Arrow Panel	DLSB-15-ODLX4650		Trailer	Battery	48x96	1993-164
BEMIS 15	Bemis Division, Allmand Brothers, Inc., P.O. Box 888, Holdrege, NE 68949 https://www.bemis.com/					
Arrow Panel	2200/SE	AB-7	Trailer	Solar Battery	48x96	1992-094
	<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>					
Arrow Panel	96-SER-3-F-S "Ellipse"	AB-7				1996-178
	<i>Retrofit kit for 2200/SE.</i>					
Arrow Panel	KO25CTA	AB-7	Trailer	Gas	48x96	----
Arrow Panel	LI25CTA	AB-7	Trailer	Diesel	48x96	----
Arrow Panel	LO25CTA	AB-7	Trailer	Diesel	48x96	----
Arrow Panel	PE25CTA	AB-7	Trailer	Diesel	48x96	----
COLEM 15	Coleman Engineering, 1020 South Bellevue, Memphis, TN 38106 http://www.coleman-engineering.com/					
Arrow Panel	AB-15		Trailer	Diesel	48x96	1989-092
CROCE 15	Crown Construction Equipment, 330 Saulteaux Cres., Winnipeg, Manitoba Canada http://www.crownequip.com/					
Arrow Panel	AB15	AB-27	Trailer	Solar Battery	48x96	----
Arrow Panel	AB25	AB-27	Trailer	Solar Battery	48x96	----
DISPL 15	Display Solutions, Inc., 6301 Best Friend Road, Norcross, GA 30071 https://www.displaysolutionsgroup.com/					
Arrow Panel	Sunray Solar 15 Lamp		Trailer	Solar Battery	48x96	2001-203Q
Arrow Panel	Sunray Solar 25 Lamp		Trailer	Solar Battery	48x96	2001-204Q
FEDER 15	Federal Construction Products, 2645 Federal Sign Dr., University Park, IL 60466					
Arrow Panel	RW-1FA		Trailer	Diesel	48x96	1988-169



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Arrow Panel

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Category 4 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
HI-TE 15	Hi-Tech Enterprises, Inc., Pinellas Park, FL 33782 http://hitechenterprises.com/					
	Arrow Panel	Arrow Plus	Trailer	Solar Battery	48x96	1992-068
	<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>					
	Arrow Panel	S-15/184	Trailer	Solar Battery	48x96	1992-068
HI-VU 15	Hi-Vu, Inc., 1000 E. 9th Street, Indianapolis, IN 46202					
	Arrow Panel	AO2413	Vehicle	Vehicle (12V)	24x48	1985-100
	Arrow Panel	AO3060-15	Vehicle	Vehicle (12V)	30x60	1985-101
	Arrow Panel	AO3615	Vehicle	Vehicle (12V)	36x72	1985-103
	Arrow Panel	AO4815	Vehicle	Vehicle (12V)	48x96	1985-104
	Arrow Panel	AO4815DTM-E	Vehicle	Battery	48x96	1985-105
	Arrow Panel	TM4815CD	Trailer	Diesel	48x96	1985-108
	Arrow Panel	TM4815CE	Trailer	Battery	48x96	1985-109
	Arrow Panel	TM4815CG	Trailer	Gas	48x96	1985-110
	Arrow Panel	TM4815SD	Trailer	Diesel	48x96	1985-111
	Arrow Panel	TM4815SE	Trailer	Battery	48x96	1985-112
	Arrow Panel	TM4815SG	Trailer	Gas	48x96	1985-113
	Arrow Panel	TM4825SD	Trailer	Diesel	48x96	----
	Arrow Panel	TM4825SE	Trailer	Battery	48x96	----
Arrow Panel	TM4825SG	Trailer	Gas	48x96	----	
INTTC 15	International Traffic Control Products, Inc., FM 2169, P.O. Box 24, Junction, TX 76849					
	Arrow Panel	ITCP 15L	Trailer	Solar Battery	48x96	1999-001Q
KKSYS 15	K & K Systems, 687 Palmetto Road, Tupelo, MS 38801 http://k-k-systems.com/					
	Arrow Panel	KKAB5025	AB-28	Trailer	Solar Battery	48x96



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Arrow Panel

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Category 4 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
NATSG 15	National Signal, Inc., 2440 Artesia Avenue, Fullerton, CA 92833 http://www.nationalsignalinc.net/					
Arrow Panel	Aro-Lite 15L100W TM	AB-26	Trailer	Solar Battery	48x96	----
Arrow Panel	DDP 244813L	AB-26	Vehicle	Vehicle (12V)	24x48	----
Arrow Panel	DDP 306013L VM	AB-26	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	DDP 306015L VM	AB-26	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	DDP 367215L VM	AB-26	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	DDP 489615L VM	AB-26	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	Sun-Up 15L100W TM	AB-26	Trailer	Solar Battery	48x96	----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
Arrow Panel	M-90 Series	AB-2	Trailer	Solar Battery	48x96	----
Arrow Panel	PEVM-6030-15		Vehicle	Vehicle (12V)	30x60	1992-349
Arrow Panel	PFAW-M-72	AB-2	Trailer	Diesel	48x96	----
Arrow Panel	PFAW-M-78	AB-2	Trailer	Diesel	48x96	----
Arrow Panel	PFAW-M-78-25	AB-2	Trailer	Diesel	48x96	----
Arrow Panel	PFAW-M-85-25	AB-2	Trailer	Diesel	48x96	----
Arrow Panel	PFAW-M-85-FA	AB-2	Trailer	Diesel	48x96	----
Arrow Panel	PFAW-M-FA-SA	AB-2	Trailer	Diesel	48x96	----
Arrow Panel	PFAW-M90-SKMT	AB-2	Vehicle with Skid	Battery	48x96	----
Arrow Panel	PFAW-M93-SA		Trailer with Skid	Solar Battery	48x96	1995-101
Arrow Panel	PFAW-M93-SA (M90-D)		Trailer	Solar Battery	48x96	1995-170
Arrow Panel	PFEL-M-78	AB-2	Trailer	Battery	48x96	----
Arrow Panel	PFEL-VM-87		Vehicle	Vehicle (12V)	36x72	1987-110
Arrow Panel	PFVM-80-13		Vehicle	Vehicle (12V)	24x48	1981-063
Arrow Panel	PFVM-80-15		Vehicle	Vehicle (12V)	24x48	1982-069
Arrow Panel	PFVM-SB-15	AB-2	Vehicle	Vehicle (12V)	24x48	----



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Category 4 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
SERVM 15	Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041					
Arrow Panel	1950-A	AB-18	Trailer	Gas	48x96	----
Arrow Panel	1950-A-D	AB-18	Trailer	Diesel	48x96	----
Arrow Panel	1950-ACHAS	AB-18	Trailer	Gas	48x96	----
Arrow Panel	1950-ACHAS-D	AB-18	Trailer	Diesel	48x96	----
Arrow Panel	1953-A-D	AB-18	Trailer	Diesel	48x96	----
Arrow Panel	1955-Trailer Train	AB-18	Trailer	Diesel	48x96	----
Arrow Panel	3000-AH	AB-18	Vehicle	Vehicle (12V)	24x48	----
Arrow Panel	3001-A	AB-18	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	3001-ACHAS	AB-18	Vehicle	Vehicle (12V)	36x72	----
SOLAT 15	Solar Technology, Inc., 7620 Cetronia Road, Allentown, PA 18106 http://solartechnology.com/					
Arrow Panel	AB-0515-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-0525		Trailer	Solar Battery	48x96	2015-095Q
Arrow Panel	AB-0715-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-1015-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-1515-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-2015		Trailer	Solar Battery	48x96	1992-041
	<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>					
Arrow Panel	AB-2015 (WB)		Trailer	Solar Battery	48x96	1992-269
Arrow Panel	AB-2025		Trailer	Solar Battery	48x96	1992-041
	<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>					
Arrow Panel	AB-2025 (WB)		Trailer	Solar Battery	48x96	1992-268
Arrow Panel	AT-0515	AB-20	Vehicle	Solar Battery	48x96	----
Arrow Panel	AT-0715	AB-20	Vehicle	Solar Battery	48x96	----



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Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
SUNEL 15 Plant	Sunshine Electronic Display Company, 501 Sylvania Street, St. Joseph, MO 64501 http://sunshine.us.com/ St. Joseph, MO 64501					
Arrow Panel	AWD		Trailer	Diesel	48x96	1984-166
	<i>Includes a 66"x112" message sign on the back of the arrow panel. Approved as a combination portable changeable message sign and 48"x96" arrow panel.</i>					
SUPSG 15	Superior Signals Inc., 16355 South Lone Elm Road, Olathe, KS 66062 http://www.superiorsignals.com/					
Arrow Panel	SY382 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	SY382 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	SY382 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	SY3900 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	SY3900 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	SY3900 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	30x60	----



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Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
TRFCN 15	Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/					
Arrow Panel	MB1-13		Vehicle	Vehicle (12V)	24x48	1984-214
Arrow Panel	MB1-15		Vehicle	Vehicle (12V)	24x48	1984-214
Arrow Panel	MB3-15		Vehicle	Vehicle (12V)	30x60	1988-142
Arrow Panel	MB3-15 Pulsar	AB-1	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	MB4-15		Vehicle	Vehicle (12V)	36x72	1991-272
Arrow Panel	MB4-15 Pulsar	AB-1	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	MB4-25		Vehicle	Vehicle (12V)	36x72	1991-251
Arrow Panel	MB4-25 Pulsar	AB-1	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	MB5-15		Vehicle	Diesel	48x96	1995-163
Arrow Panel	MB5-15 Pulsar	AB-1	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	MB5-25		Vehicle	Diesel	48x96	1995-164
Arrow Panel	MB5-25 Pulsar	AB-1	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	TC1-15B		Trailer	Battery	48x96	----
Arrow Panel	TC1-15D		Trailer with Skid	Diesel	48x96	1984-040
Arrow Panel	TC1-15S		Trailer with Skid	Solar Battery	48x96	1995-047
Arrow Panel	TC1-25D		Trailer with Skid	Diesel	48x96	1985-186A
Arrow Panel	TC2-15D		Trailer	Diesel	48x96	1984-041
Arrow Panel	TC2-15S		Trailer	Solar Battery	48x96	1998-215
Arrow Panel	TC2-25D		Trailer	Diesel	48x96	----
Arrow Panel	TC3-15D		Trailer with Skid	Diesel	48x96	1987-354
Arrow Panel	TCI-15D Pulsar	AB-1	Trailer	Diesel	48x96	----
Arrow Panel	TCI-15S Pulsar	AB-1	Trailer	Solar Battery	48x96	----
Arrow Panel	TCI-25S Pulsar	AB-1	Trailer	Solar Battery	48x96	----
Arrow Panel	TM1-15B		Vehicle with Skid	Vehicle (12V)	48x96	----
Arrow Panel	TM1-15RS		Trailer	Solar Battery	48x96	1998-214
Arrow Panel	TM1-15S		Vehicle with Skid	Solar Battery	48x96	1995-074B



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Last Revised: 5/3/2019

Category 4 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
TRLCM 15	Trailer Component Manufacturing, Inc., 7795 Division Drive, Mentor, OH 44060					
Arrow Panel	3060		Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	7636EC/PD		Trailer	Diesel	48x96	----
Arrow Panel	7636EF/PD		Trailer	Diesel	48x96	----
Arrow Panel	D2000		Trailer	Diesel	48x96	1995-171
Arrow Panel	S6000		Trailer	Solar Battery	48x96	1995-187
USSEA 15	U. S. Seal, Inc., 281 West Sixth Street, West Wyoming, PA 18644					
Arrow Panel	2500		Trailer	Solar Battery	48x96	1990-156
	<i>May be used only on stationary operations.</i>					
	<i>Must be aimed every time it is set up or moved.</i>					
VERMI 15	Signalisation VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G3N 1X3 http://www.ver-mac.com/					
Arrow Panel	ST-4825	AB-23	Trailer	Solar Battery	48x96	2011-223Q
Arrow Panel	VM-95S	AB-23	Trailer	Solar Battery	48x96	1997-155



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Last Revised: 5/3/2019

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Product	Name	COA	Arrow Panel Mount	Allow Panel Power	Size (in)	Ref. No.
WANCN 15	Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/					
Arrow Panel	WRB4-A		Vehicle	Vehicle (12V)	24x48	1989-093E
Arrow Panel	WRB5-A		Vehicle	Vehicle (12V)	30x60	1989-093F
Arrow Panel	WRB5-SA		Vehicle	Vehicle (12V)	30x60	1989-093G
Arrow Panel	WRB5-SAC		Vehicle	Vehicle (12V)	30x60	1989-093H
Arrow Panel	WRB6-SA		Vehicle	Vehicle (12V)	36x72	1989-093J
Arrow Panel	WTB8-SA		Vehicle	Vehicle (12V)	48x96	1989-093K
Arrow Panel	WTB8-SAC		Trailer	Diesel	48x96	1989-093C
Arrow Panel	WTB8-SAC		Vehicle	Vehicle (12V)	48x96	1989-093L
Arrow Panel	WTDB8-SA		Trailer with Skid	Diesel	48x96	1989-093A
Arrow Panel	WTDB8-SAC		Trailer	Diesel	48x96	1989-093D
Arrow Panel	WTGB8-SA		Trailer	Diesel	48x96	1989-093B
Arrow Panel	WTSP110-LSA		Trailer	Solar Battery	48x96	2001-091Q
Arrow Panel	WTSP55-LSA		Trailer	Solar Battery	48x96	2001-091Q
Arrow Panel	WTSP75-LSA		Trailer	Solar Battery	48x96	2001-091Q
Arrow Panel	WTSV-LSA (W ECO 15 Light Display Panel, Vertical Mast)		Trailer	Solar Battery	48x96	2018-268Q
Arrow Panel	WTSV-LSAC (W ECO 25 Light Display Panel, Vertical Mast)		Trailer	Solar Battery	48x96	2018-277Q
WORKA 15	Work Area Protection Corporation, 2500 Production Drive, PO Box 4087, St. Charles, IL 60174 http://workareaprotection.com/					
Arrow Panel	VMAW 2415	AB-17	Vehicle	Vehicle (12V)	24x48	1992-022
Arrow Panel	VMAW-24-15LV	AB-17	Vehicle	Vehicle (12V)	24x48	1992-330
Arrow Panel	VMAW-30-15LV	AB-17	Vehicle	Vehicle (12V)	30x60	1992-350
Arrow Panel	WAAW-100-15D	AB-17	Trailer	Diesel	48x96	1991-283
Arrow Panel	WAP-WAAW-15SB	AB-17	Trailer	Solar Battery	48x96	1990-165
	<i>May be used only on stationary operations.</i>					
	<i>Must be aimed every time it is set up or moved.</i>					
Arrow Panel	WAP-WAAW-15SB-III	AB-17	Trailer	Solar Battery	48x96	1993-049



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Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Automated Flagger Assistance Device

Last Revised: 11/23/2020

Category 4 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	COA	Flagger Mount	Flagger Power	Ref. No.
INTES 15	IntelliStrobe Safety Systems, LLC, 4136 S. McCann Ct., Springfield, MO 65804					
	Automated Flagger Assistance Device	W1-AG	AFAD-3	Stand Alone	Battery	2010-324Q
	Automated Flagger Assistance Device	W1-AG/TM	AFAD-3	Trailer	Solar Battery	----
	Automated Flagger Assistance Device	WS1-AG/TM	AFAD-3	Trailer	Solar Battery	----
RCFLG 15	North America Traffic Inc. (R. C. Flagman), 7 Petersburg Circle, Port Colborne, Ontario, Canada L3K 5V5 https://northamericatraffic.com/					
	Automated Flagger Assistance Device	RCF 2.4	AFAD-1	Trailer	Solar Battery	----
SAFTI 15	Safety Technologies, Inc., 28932 Highway 58 Blvd., Red Wing, MN 55066					
	Automated Flagger Assistance Device	AF 76	AFAD-2	Trailer	Solar Battery	----
	Automated Flagger Assistance Device	AutoFlagger AF-54		Trailer	Solar Battery	2015-168Q
SITE2 15	Site 2020, 1505 Barrington Street, Suite 711, Halifax, Canada B2T1A4 https://site2020.com/					
	Automated Flagger Assistance Device	Guardian SmartFlagger		Stand Alone	Battery	2018-133Q
SYN-1 15 Facility	Synergy Technology, LLC, PO Box 1939, Albemarle, NC 28002 http://www.noflagger.com/					
	Automated Flagger Assistance Device	Automated Flagger AF-100		Trailer	Solar Battery	2019-208Q
THOJO 15	John Thomas, Inc. (JTI), 1560 Lovett Drive, Dixon, IL 61021 http://www.jtitraffic.com/					
	Automated Flagger Assistance Device	JTI Sentinel AFAD		Trailer	Battery	2018-196Q
	<i>Provisional Approval: The Bureau of Maintenance and Operations, Work Zones and Regulations Department will monitor the Sentinel AFAD's performance for a period of one year after its first project use.</i>					

901.2 Drums, Nonmetallic

Last Revised: 9/11/2018

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Nonmetallic drums manufactured after December 31, 2019 must be certified as MASH 2016 compliant. [Clarifications on Implementing the AASHTO MASH 2016 Edition \(May 9, 2018\)](#)

Category 1 Temporary Traffic Control Device

	Product	Name	COA	Ref. No.
CORTI 15	Cortina Safety Products, 10706 West Grand Ave., Franklin Park, IL 60131 http://www.cortinaco.com/safety-products/cortina-safety-products/			
	Drums, Nonmetallic	360 Channelizer, Model 03-755-6HI	360C-1	2009-141Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Drums, Nonmetallic

Last Revised: 9/11/2018

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Nonmetallic drums manufactured after December 31, 2019 must be certified as MASH 2016 compliant. [Clarifications on Implementing the AASHTO MASH 2016 Edition \(May 9, 2018\)](#)

Category 1 Temporary Traffic Control Device

	Product	Name	COA	Ref. No.
EASMI 15	Eastern Molding International, 1 Elizabeth Street, Batavia, NY 14020			
	Drums, Nonmetallic	HTHD with High Density 25lb/40lb Rubber Base		2003-148Q
	Drums, Nonmetallic	HTLD with Low Density 25lb/40lb Rubber Base		2003-149Q
LAKSD 15	Lakeside Plastics, Inc., 450 West 33rd Avenue, P.O. Box 2384, Oshkosh, WI 54903 http://www.lakesideplastics.net/index.html			
	Drums, Nonmetallic <i>Provisionally Approved</i>	The Director, Model FTS 5		2002-032Q
PLAPC 15	Plasticade Products Corporation, 7700 North Austin Ave., Skokie, IL 60077 http://www.plasticade.com/			
	Drums, Nonmetallic	Commander Traffic Drum, Series 456 - HD (High Density)		2018-118Q
	<i>Manufacturer certified as MASH compliant with no attachments to device. Lightweight plastic drums crash tested to NCHRP 350, Test Level 3 criteria with warning lights attached per FHWA Eligibility Letters WZ-54 & WZ-54A. NTPEP tested: TTCD-2016-01-004</i>			
	Drums, Nonmetallic	Commander Traffic Drum, Series 456 - LD (Low Density)		2018-181Q
	<i>Manufacturer certified as MASH compliant with no attachments to device. Lightweight plastic drums crash tested to NCHRP 350, Test Level 3 criteria with warning lights attached per FHWA Eligibility Letters WZ-54 & WZ-54A. NTPEP tested: TTCD-2016-01-005</i>			
	Drums, Nonmetallic	Econocade II Drum, Series 452 High Density		2013-162QB
	Drums, Nonmetallic	Econocade II Drum, Series 452 Low Density		2013-162QA
	Drums, Nonmetallic	Rhino Channelizer Barrel 454 High Density	ND-13	2012-043Q
	Drums, Nonmetallic	Rhino Channelizer Barrel 454 Low Density	ND-13	2012-043Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Drums, Nonmetallic

Last Revised: 9/11/2018

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Category 1 Temporary Traffic Control Device

	Product	Name	COA	Ref. No.
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/			
	Drums, Nonmetallic	LifeGard HDPE with Rubber Collar		1992-100A
	Drums, Nonmetallic	LifeGard LDPE with Rubber Collar and Light		1992-100B
SERVM 15	Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041			
	Drums, Nonmetallic	1500 HD Channelizer Standard with Rubber Base and Light		1991-098
	Drums, Nonmetallic	1500 LD Channelizer Standard with Rubber Base and Light		1991-098
	Drums, Nonmetallic	Bouncer PB-90		1991-098
	Drums, Nonmetallic	PB-85 Commander, 2-piece, O		1991-098
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/			
	Drums, Nonmetallic	Model 1800HDPE LW Standard with Sand Base and Light		1991-103
	Drums, Nonmetallic	Model 1800HDPE Standard with Sand Base and Light		1991-102
	Drums, Nonmetallic	Model 1800HDPE with Rubber Ring Ballast and Light		1995-008
	Drums, Nonmetallic	Model 1800LDPE Standard with Sand Base and Light		1991-101
Drums, Nonmetallic	Model 1800LDPE with Rubber Ring Ballast and Light		1995-008	



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Drums, Nonmetallic

Last Revised: 9/11/2018

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Nonmetallic drums manufactured after December 31, 2019 must be certified as MASH 2016 compliant. [Clarifications on Implementing the AASHTO MASH 2016 Edition \(May 9, 2018\)](#)

Category 1 Temporary Traffic Control Device

Product	Name	COA	Ref. No.
WORKA 15 Work Area Protection Corporation, 2500 Production Drive, PO Box 4087, St. Charles, IL 60174 http://workareaprotection.com/			
Drums, Nonmetallic	B- 500LC with Rubber Tire Base, Plastic Base w/wo Light	ND-04	----
Drums, Nonmetallic	B-200HDPE with Sand Base		1993-143
Drums, Nonmetallic	B-300HDPE with Rubber Tire Base		1993-144
Drums, Nonmetallic	B-400HDPE with Rubber Base and Light		1996-236B
Drums, Nonmetallic	B-400HDPE with Sand Base and Light		1996-236A

901.2 Intrusion Alarm

Last Revised: 8/10/2017

Category 2 Temporary Traffic Control Device

Product	Name	COA	Ref. No.
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/			
Intrusion Alarm <i>Provisionally Approved</i>	Model HWZIA-300	PCIA-2	1997-015A
Intrusion Alarm <i>Provisionally Approved</i>	Model HWZIA-500	PCIA-2	1997-015B
SAFLS 15 Safe-Lite Systems, 1050 Eagle Road, Newton, PA 18940			
Intrusion Alarm <i>Must use 70 durometer pneumatic tube.</i>	Model 10A-M		1997-032

901.2 Lane Separator Curb

Last Revised: 2/7/2019

Product	Name	COA	Ref. No.
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Lane Separator Curb

Last Revised: 2/7/2019

	Product	Name	COA	Ref. No.
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/			
	Lane Separator Curb	IRS Tuff Curb XLP	LSC-02	2011-112Q
	Lane Separator Curb	Tuff Curb	LSC-02	----
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic 3110 70th Avenue East Tacoma, WA 98424			
	Lane Separator Curb	FG 300 Curb		2007-078Q
QWICK 15	Qwick Kurb, Inc., 1916 US 41 South, Ruskin, FL 33570 http://qwickkurb.com/			
	Lane Separator Curb	Qwick Kurb		2002-117Q

901.2 Longitudinal Channelizing Devices

Last Revised: 1/25/2019

Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	COA	Ref. No.
REMCON15 Plant	REMCON Plastics Inc., 208 Chestnut Street, Reading, PA 16902 https://www.remcon.com/ 208 Chestnut Street Reading, PA 16902			
	Longitudinal Channelizing Device, Plastic Barrier ~ Guardsafe 36 Technical Drawing	Guardsafe 36		2019-001Q
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/			
	Longitudinal Channelizing Device, Plastic Barrier	Sentry (Water Filled Temporary)	LCD-03	2010-039Q
TRISD 15	Trident Security Devices, Inc., 1017 Prospect Avenue, Elkins Park, PA 19027			
	Longitudinal Channelizing Device, Plastic Barrier	Roadguard 2		2011-067Q
YODOK 15	Yodock Wall Company, Inc., 900 Patterson Drive, Bloomsburg, PA 17815 https://trinityhighway.com/			
	Longitudinal Channelizing Device, Plastic Barrier	Model 2001	LCD-02	----
	Longitudinal Channelizing Device, Plastic Barrier	Model 2001M	LCD-02	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs

Last Revised: 11/16/2020

Category 4 Temporary Traffic Control Device

Product	Name	COA	PCMS Type	PCMS Power	Size (in)	PCMS Mount	PCMS Message	Ref. No.
ADDC- 15	ADDCO Manufacturing, 240 Arlington Ave. E., St. Paul, MN 55117 http://www.addco.com/en/							
Portable Changeable Message Sign	9050100		Flip Disk	Diesel	91x115	Trailer	3-Line	1986-152
Portable Changeable Message Sign	9050100-7		Flip Disk	Diesel	91x102	Trailer	3-Line	1986-152
Portable Changeable Message Sign	BRICK		LED	Battery/Vehicle/ Generator	42x84	Vehicle	Full Matrix	1999-024
Portable Changeable Message Sign	BRICK		LED	Solar Battery	69x145	Trailer	Full Matrix	1999-024
Portable Changeable Message Sign	DE3000		LED	Battery	50x90	Skid	2-Line	1990-080
Portable Changeable Message Sign	DH1000		Flip Disk	Diesel	76x113	Trailer	3-Line	1990-067
Portable Changeable Message Sign	DH1000 ALS		LED	Solar Battery	76x134	Trailer	3-Line	1995-135
Portable Changeable Message Sign	DH1000 SLD		LED	Solar Battery	76x113	Trailer	3-Line	1993-195
Portable Changeable Message Sign	DM2000		Flip Disk	Diesel	50x90	Trailer	2-Line	1990-079
ADVSP 15	Advanced Safety Products, P.O. Box 2663, Fallbrook, CA 92088							
Portable Changeable Message Sign	VMS Message Master	S-12	LED	Battery	35x71	Trailer/Vehicl e	2-Line	----
AMELS 15	American Electronic Sign Company, Spokane Ind. Park, Bldg. 10, North 3808 Sullivan Road, Spokane, WA 99216-1670							
Portable Changeable Message Sign	AESCO		Flip Disk	Battery/Diesel	76x115	Trailer	3-Line	1993-254
Portable Changeable Message Sign	AESCOVCMS		Flip Disk	Generator	46x81	Vehicle	2-Line	1993-255
AMESC 15	American Signal Company, 2755 Bankers Industrial Drive, Atlanta, GA 30360 http://www.amsig.com/frame_home.htm							
Portable Changeable Message Sign	CMS-GP-232		LED	Battery/Vehicle	32x72	Vehicle	Full Matrix	1999-166
Portable Changeable Message Sign	CMS-GP-432		LED	Battery	48x96	Vehicle	Full Matrix	1996-161
Portable Changeable Message Sign	CMS-GP-432T	PS-6	LED	Solar Battery	48x96	Trailer	Full Matrix	----
Portable Changeable Message Sign	CMS-T300		Flip Disk	Diesel	78x113	Trailer	3-Line	1990-182
Portable Changeable Message Sign	CMS-T320	PS-6	LED	Solar Battery	78x126	Trailer	3-Line	----
Portable Changeable Message Sign	CMS-T331	PS-6	LED	Solar Battery	78x126	Trailer	3-Line	----
Portable Changeable Message Sign	CMS-T333		LED	Solar Battery	78x126	Trailer	Full Matrix	1995-283
Portable Changeable Message Sign	CMS-T333.1B		LED	Solar Battery	79x136	Trailer	Full Matrix	2001-148Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs

Last Revised: 11/16/2020

Category 4 Temporary Traffic Control Device

	Product	Name	COA	PCMS Type	PCMS Power	Size (in)	PCMS Mount	PCMS Message	Ref. No.
DAKI- 15	Daktronics, Inc., 331 32nd Ave. P O Box 5128, Brookings, SD 57006-5128 http://www.daktronics.com/en-us								
	Portable Changeable Message Sign	VP-4000	PS-20	LED	Solar Battery	77x133	Trailer	3-Line	----
	Portable Changeable Message Sign	VP-4000 FM	PS-20	LED	Solar Battery	77x133	Trailer	Full Matrix	----
DISPL 15	Display Solutions, Inc., 6301 Best Friend Road, Norcross, GA 30071 https://www.displaysolutionsgroup.com/								
	Portable Changeable Message Sign	Gen III	PS-2	Lamp	Diesel	75x94	Trailer	3-Line	1981-132
	Portable Changeable Message Sign	Gen V	PS-2	Lamp	Diesel	30x89	Trailer	1-Line	1981-005
	Portable Changeable Message Sign	Gen VI	PS-2	Flip Disk	Diesel	78x124	Trailer	3-Line	----
	Portable Changeable Message Sign	Gen VI-C	PS-2	Flip Disk	Diesel	78x125	Trailer	3-Line	1990-301
	Portable Changeable Message Sign	NightHawk 340	PS-2	Flip Disk	Diesel	78x111	Trailer	3-Line	1993-166
	Portable Changeable Message Sign	PCMS-2	PS-2	Lamp	Diesel	66x112	Trailer	3-Line	----
	Portable Changeable Message Sign	Sunray 340	PS-2	LED	Solar Battery	78x111	Trailer	3-Line	1995-096
	Portable Changeable Message Sign	Sunray 380	PS-2	LED	Solar Battery	78x128	Trailer	3-Line	2001-097Q
	Portable Changeable Message Sign	Sunray FM	PS-2	LED	Solar Battery	85x129	Trailer	Full Matrix	2000-228Q
	Portable Changeable Message Sign	Sunray Mini FM	PS-2	LED	Solar Battery	48x96	Trailer	Full Matrix	2001-098Q
INTTC 15	International Traffic Control Products, Inc., FM 2169, P.O. Box 24, Junction, TX 76849								
	Portable Changeable Message Sign	CMS-100		LED	Solar Battery	76x113	Trailer	3-Line	1996-113
	Portable Changeable Message Sign	CMS-100 FM		LED	Solar Battery	84x113	Trailer	Full Matrix	1998-005
KKSYS 15	K & K Systems, 687 Palmetto Road, Tupelo, MS 38801 http://k-ksystems.com/								
	Portable Changeable Message Sign	DDMB3I-240	PS-18	LED	Solar Battery	72x120	Trailer	3-Line	----
LAKET 15	Lake Technologies, Inc., 28248 Country Road 561, Tavares, FL 32778								
	Portable Changeable Message Sign	PDM-S18502131		Flip Disk	Diesel	79x142	Trailer	3-Line	1987-216
LITSI 15	LiteSys Inc., 150 Pollywog Lane, Belgrade, MT 59714 http://www.litesys.com/								
	Portable Changeable Message Sign	1020A-4W	PS-19	LED	Battery/Vehicle	31x75	Vehicle	2-Line	----
	Portable Changeable Message Sign	1030F-4W	PS-19	LED	Battery/Vehicle	41x75	Vehicle	Full Matrix	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs

Last Revised: 11/16/2020

Category 4 Temporary Traffic Control Device

Product	Name	COA	PCMS Type	PCMS Power	Size (in)	PCMS Mount	PCMS Message	Ref. No.
NATSG 15	National Signal, Inc., 2440 Artesia Avenue, Fullerton, CA 92833 http://www.nationalsignalinc.net/							
Portable Changeable Message Sign	ER200	PS-17	LED	Solar Battery	48x96	Trailer	3-Line	----
Portable Changeable Message Sign	ER200 CAB	PS-17	LED	Solar Battery	48x96	Vehicle	3-Line	----
Portable Changeable Message Sign	ER200 Jr	PS-17	LED	Solar Battery	48x96	Trailer	3-Line	----
Portable Changeable Message Sign	Vu-Pointe	PS-17	LED	Solar Battery	76x116	Trailer	3-Line	----
PRSLR 15	Precision Solar Controls, Inc., 2985 Market Street, Garland, TX 75041 http://www.precisionsolarcontrols.com/							
Portable Changeable Message Sign	SMC-1000	PS-8	LED	Solar Battery	77x127	Trailer	3-Line	1992-035
Portable Changeable Message Sign	SMC-1000 ST	PS-8	LED	Solar Battery	77x127	Trailer	3-Line	2009-132Q
Portable Changeable Message Sign	SMC-1000-HE	PS-8	LED	Solar Battery	76x127	Trailer	3-Line	1995-237
Portable Changeable Message Sign	SMC-2000	PS-8	LED	Solar Battery	77x127	Trailer	Full Matrix	1995-183
Portable Changeable Message Sign	SMC-2000 FM ST	PS-8	LED	Solar Battery	77x127	Trailer	Full Matrix	2011-056Q
Portable Changeable Message Sign	SMC-3000	PS-8	LED	Solar Battery	48x96	Trailer	Full Matrix	2009-038Q
Portable Changeable Message Sign	SMC-4000	PS-8	LED	Solar Battery	48x96	Trailer	Full Matrix	----
REVAP 15	Reva Plastics Corporation, P. O. Box 440, Route 31, Weedsport, NY 13166 http://www.revaplastics.com/							
Portable Changeable Message Sign	2002	PS-9	Lamp	Diesel	30x96	Trailer	1-Line	----
SOLAT 15	Solar Technology, Inc., 7620 Cetronia Road, Allentown, PA 18106 http://solartechnology.com/							
Portable Changeable Message Sign	MB-1548	PS-11	LED	Solar Battery	76x126	Trailer	Full Matrix	----
Portable Changeable Message Sign	MB-3048	PS-11	LED	Solar Battery	76x126	Trailer	Full Matrix	----
Portable Changeable Message Sign	MB-3748	PS-11	LED	Solar Battery	76x126	Trailer	Full Matrix	----
Portable Changeable Message Sign	MB-4024	PS-11	LED	Solar Battery	72x120	Trailer	3-Line	----
	<i>Must be equipped with LED lamps, model HLMT-CL00.</i>							
Portable Changeable Message Sign	MB-4048		LED	Solar Battery	76x126	Trailer	Full Matrix	1999-038Q
SUNEL 15	Sunshine Electronic Display Company, 501 Sylvania Street, St. Joseph, MO 64501 http://sunshine.us.com/							
Plant	St. Joseph, MO 64501							
Portable Changeable Message Sign	AWD		LED	Diesel	66x112	Trailer	3-Line	1984-166
	<i>Includes a 48"x96" arrow board on the back of the message panel. Approved as a combination portable changeable message sign and 48"x96" arrow board.</i>							



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs

Last Revised: 11/16/2020

Category 4 Temporary Traffic Control Device

	Product	Name	COA	PCMS Type	PCMS Power	Size (in)	PCMS Mount	PCMS Message	Ref. No.
TELE- 15	Tele-Spot Systems, 76 Progress Drive, Stamford, CT 06902-3600								
	Portable Changeable Message Sign	317913-001 (trailer)			Generator				1987-351
	Portable Changeable Message Sign	317943-001 (sign)			Diesel	80x120	Trailer	3-Line	1987-351
TRFCN 15	Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/								
	Portable Changeable Message Sign	MB-ADS	PS-15	LED	Solar/Vehicle		Vehicle	Full Matrix	2001-202Q
	Portable Changeable Message Sign	TC1-ADS	PS-15	LED	Solar/Vehicle		Trailer	Full Matrix	2001-202Q
VERMI 15	Signalisation VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G3N 1X3 http://www.ver-mac.com/								
	Portable Changeable Message Sign	Northern Lights	PS-14	LED	Solar Battery	78x84	Trailer	3-Line	----
	Portable Changeable Message Sign	PCMS-1500	PS-14	LED	Solar Battery	82x132	Trailer	Full Matrix	2000-164Q
	Portable Changeable Message Sign	PCMS-320	PS-14	LED	Solar Battery	66x96	Trailer	Full Matrix	2009-185Q
	Portable Changeable Message Sign	PCMS-320RT		LED	Solar Battery	66x104	Trailer	Full Color	2018-011Q
	Portable Changeable Message Sign	PCMS-548	PS-14	LED	Solar Battery	45x80	Trailer	Full Matrix	2009-184Q
	Portable Changeable Message Sign	TH-548	PS-14	LED	Vehicle (12V)	45x80	Vehicle	Full Matrix	2009-184Q
WANCN 15	Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/								
	Portable Changeable Message Sign	WTLMB(A)		LED	Solar Battery	72x130	Trailer	3-Line	1997-167
	Portable Changeable Message Sign	WTLMB-S-LL(A)		LED	Solar Battery	72x130	Trailer	3-Line	1997-167
	Portable Changeable Message Sign	WTMMB (A)		LED	Solar Battery	72x130	Trailer	Full Matrix	2000-264Q
	Portable Changeable Message Sign	WTMMB-S-LL(A)		LED	Solar Battery	72x130	Trailer	Full Matrix	2000-264Q
	Portable Changeable Message Sign	WVTM		LED	Solar Battery	55x96	Trailer	Full Matrix	2020-052Q
	<i>The Wanco WVTM Mini Matrix Message Sign is only permitted on conventional highways having regulatory speed limits of less than 45 mph.</i>								
	Portable Changeable Message Sign	WVTMM-L		LED	Solar Battery	48x96	Trailer	Full Matrix	2019-108Q
	Portable Changeable Message Sign	WVTMM-M		LED	Solar Battery	48x71	Trailer	Full Matrix	2019-153Q
WORKA 15	Work Area Protection Corporation, 2500 Production Drive, PO Box 4087, St. Charles, IL 60174 http://workareaprotection.com/								
	Portable Changeable Message Sign	VMBS-1000			Solar Battery	77x127	Trailer	3-Line	1992-028

901.2 Portable Sign Support

Last Revised: 2/19/2020



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Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Sign Support

Last Revised: 2/19/2020

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

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	Product	Name	COA	Approved Crash Test Level	Ref. No.
BONE- 15	Bone Safety Signs, Inc., 2151 Northwest Parkway, S.E., Suite 100, Marietta, GA 30067 http://www.bonesafety.com/				
	X-Base Support	Big Dog SZ-412-2S	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-412	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-412FX	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-412S	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-460	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-460-2S	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-484	PSS-13	TL-3 (62 mph)	----
	X-Base Support	SZ-484-2S	PSS-13	TL-3 (62 mph)	----
DICKE 15	Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/				
	Rubber Base Support	DSB100	PSS-4	TL-3 (62 mph)	----
	Rubber Base Support	DSB100HD	PSS-4	TL-3 (62 mph)	----
	Tripod Support	T155	PSS-4	TL-3 (62 mph)	2011-186Q
	Tripod Support	T50	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF-3003	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF-4000	PSS-4	TL-3 (62 mph)	2001-085Q
	X-Base Support	DF3000S	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF3000W	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF3000WQ	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF3003S	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF3003W	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF3330	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF4000	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF4503	PSS-4	TL-3 (62 mph)	----
	X-Base Support	DF4700	PSS-4	TL-3 (62 mph)	----



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Product	Name	COA	Approved Crash Test Level	Ref. No.
DICKE 15	Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/			
X-Base Support	DF4700TX	PSS-4	TL-3 (62 mph)	----
X-Base Support	DL1003	PSS-4	TL-3 (62 mph)	----
X-Base Support	DL1003 Latch	PSS-4	TL-3 (62 mph)	----
X-Base Support	DL1008	PSS-4	TL-3 (62 mph)	----
X-Base Support	MS-Flex-30	PSS-4	TL-3 (62 mph)	2001-085Q
X-Base Support	MS-Rigid-30	PSS-4	TL-3 (62 mph)	2001-085Q
X-Base Support	QFV-60	PSS-4	TL-3 (62 mph)	----
X-Base Support	QFV-84	PSS-4	TL-3 (62 mph)	----
X-Base Support	QFV48	PSS-4	TL-3 (62 mph)	----
X-Base Support	QFVW	PSS-4	TL-3 (62 mph)	----
X-Base Support	QLVW	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDF4000	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDL1000	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDL1000 Latch	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDL1008	PSS-4	TL-3 (62 mph)	----
X-Base Support	SMS-Flex-30	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF-12C	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF-12W	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF-18	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF1214	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF1230	PSS-4	TL-3 (62 mph)	----
X-Base Support	SUF2000	PSS-4	TL-3 (62 mph)	----
X-Base Support	SUF2000S	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-12	PSS-4	TL-3 (62 mph)	----



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	Product	Name	COA	Approved Crash Test Level	Ref. No.
DICKE 15	Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/				
	X-Base Support	TF-12C	PSS-4	TL-3 (62 mph)	----
	X-Base Support	TF-12W	PSS-4	TL-3 (62 mph)	----
	X-Base Support	TF-18	PSS-4	TL-3 (62 mph)	----
	X-Base Support	TF-60	PSS-4	TL-3 (62 mph)	----
	X-Base Support	TF-84	PSS-4	TL-3 (62 mph)	----
	X-Base Support	TF1214	PSS-4	TL-3 (62 mph)	----
	X-Base Support	TF1230	PSS-4	TL-3 (62 mph)	----
	X-Base Support	UF-2000	PSS-4	TL-3 (62 mph)	2001-085Q
	X-Base Support	UF2000S	PSS-4	TL-3 (62 mph)	----
	X-Base Support	UF2000T	PSS-4	TL-3 (62 mph)	2010-317Q
DICSP 15	Dicke Safety Products, 1201 Warren Ave., Downers Grove, IL 60515 http://dicketool.com/				
	X-Base Support	QFV48	PSS-7	TL-3 (62 mph)	----
	X-Base Support	QFVW	PSS-7	TL-3 (62 mph)	----
	X-Base Support	QLVW	PSS-7	TL-3 (62 mph)	----



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Product	Name	COA	Approved Crash Test Level	Ref. No.
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/			
	Tripod Support	E-350	TL-3 (62 mph)	2001-156Q
	X-Base Support	C-102	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-132	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-142	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-200	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-202	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-232	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-242	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-802	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-832	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-842	TL-3 (62 mph)	2001-105Q
	X-Base Support	C-902	TL-3 (62 mph)	2001-106Q
	X-Base Support	C-932	TL-3 (62 mph)	2001-106Q
	X-Base Support	C-942	TL-3 (62 mph)	2001-106Q
	X-Base Support	X-501	TL-3 (62 mph)	2001-106Q
	X-Base Support	X-550	TL-3 (62 mph)	2001-156Q
	X-Base Support	X-551	TL-3 (62 mph)	2001-106Q
	X-Base Support	X-552	PSS-5	----
	X-Base Support	X-553	PSS-5	----
	X-Base Support	X-600	TL-3 (62 mph)	2001-157Q
	X-Base Support	X-601	TL-3 (62 mph)	2001-106Q
	X-Base Support	X-840	TL-3 (62 mph)	2001-158Q



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	Product	Name	COA	Approved Crash Test Level	Ref. No.
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/				
	Rubber Base Support	350	PSS-6	TL-3 (62 mph)	----
	Rubber Base Support	351	PSS-6	TL-3 (62 mph)	----



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Product	Name	COA	Approved Crash Test Level	Ref. No.
KORMN 15 Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/				
Tripod Support	SS1	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548A	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548AE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548AEE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548AETL	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548C	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548CA	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548CAE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548CE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548E	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548EE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548ETL	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UC	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UCA	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UCR	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UCRA	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560A	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560AE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560AEE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560E	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560EE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560UCA	PSS-12	TL-3 (62 mph)	----



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Product	Name	COA	Approved Crash Test Level	Ref. No.
MDITC 15	Marketing Displays, Inc. (MDI WorldWide), 38271 W. Twelve Mile Road, Farmington Hills, MI 48331 http://www.mditraficcontrol.com/			
X-Base Support	30CAM		TL-3 (62 mph)	2000-341Q
X-Base Support	3612DLK		TL-3 (62 mph)	2000-341Q
X-Base Support	40CAM		TL-3 (62 mph)	2000-341Q
X-Base Support	4812		TL-3 (62 mph)	2000-341Q
X-Base Support	4814CS		TL-3 (62 mph)	2000-341Q
X-Base Support	4814DLK		TL-3 (62 mph)	2000-341Q
X-Base Support	4814HDK		TL-3 (62 mph)	2000-341Q
X-Base Support	4814K		TL-3 (62 mph)	2000-341Q
X-Base Support	4814NSCK		TL-3 (62 mph)	2000-341Q
X-Base Support	4814SL		TL-3 (62 mph)	2015-160QA
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-333</i>			
X-Base Support	4814SSCK		TL-3 (62 mph)	2000-341Q
X-Base Support	4815		TL-3 (62 mph)	2000-341Q
X-Base Support	4818		TL-3 (62 mph)	2000-341Q
X-Base Support	4850		TL-3 (62 mph)	2000-341Q
X-Base Support	4860		TL-3 (62 mph)	2000-341Q
X-Base Support	4884CS		TL-3 (62 mph)	2000-341Q
X-Base Support	4884KET		TL-3 (62 mph)	2018-077Q
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-138</i>			
X-Base Support	5012NS		TL-3 (62 mph)	2015-160QC
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>			
X-Base Support	5012NSAL		TL-3 (62 mph)	2015-160QE
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>			
X-Base Support	5012SS		TL-3 (62 mph)	2015-160QD



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	Product	Name	COA	Approved Crash Test Level	Ref. No.
MDITC 15	Marketing Displays, Inc. (MDI WorldWide), 38271 W. Twelve Mile Road, Farmington Hills, MI 48331 http://www.mditraficcontrol.com/				
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>				
	X-Base Support	5012SSAL		TL-3 (62 mph)	2015-160QF
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>				
	X-Base Support	5018K		TL-3 (62 mph)	2015-160QB
	<i>Testing Criteria: NCHRP 350, FHWA Approval Letters: WZ-69, WZ-164</i>				
	X-Base Support	50SM		TL-3 (62 mph)	2000-341Q
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/				
	Tripod Support	Tri-Buster 93012	PSS-3	TL-3 (62 mph)	----
	X-Base Support	Big Buster		TL-3 (62 mph)	2002-044Q
	X-Base Support	Econo-Buster 80018	PSS-3	TL-3 (62 mph)	----
	X-Base Support	Lil-Buster 24018		TL-3 (62 mph)	2001-030Q
	X-Base Support	Traffic Stand 22000		TL-3 (62 mph)	2001-031Q
	X-Base Support	Zephyr 26000		TL-3 (62 mph)	2001-032Q
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i>				
	X-Base Support	9905-0075-010		TL-3 (62 mph)	2001-033Q
	<i>FHWA Eligibility Letter: WZ-18, NCHRP-350. Stand supports a roll up sign 12" above the ground and three warning flags on top. Assembled by MCAR, Inc. in Hermitage, PA. The portable sign part no. 9905-0075-010 is referenced as Model 30SM-PAKD in WZ-18. Model 30SM-PAKD Schematic Drawing from WZ-18</i>				
	X-Base Support	9905-0075-015		TL-3 (62 mph)	2001-034Q

901.2 Safety Markers

Last Revised: 3/27/2015

	Product	Name	COA	Ref. No.
VAG&S 15	Vara, A. G. & Sons, 4881 Newton Road, Hamburg, NY 14075			



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901.2 Safety Markers

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Product	Name	COA	Ref. No.
VAG&S 15 Vara, A. G. & Sons, 4881 Newton Road, Hamburg, NY 14075 Safety Marker	OC-5-30-64 Octopus		----

901.2 Sign Trailer with Solar Powered Flashing Beacons

Last Revised: 4/13/2015

May be used with regulatory or warning series signs within a construction zone.

The sign trailer shall not be used in place of a Type B warning light as required by Department Regulations.

The red beacons shall be used only in conjunction with a stop sign.

Category 4 Temporary Traffic Control Device

Product	Name	COA	Beacon Colors	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032 Sign Trailer with Solar Powered Flashing Beacons	PFAW-M91-SST		Yellow and Red	----
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/ Sign Trailer with Solar Powered Flashing Beacons	SST-1		Yellow and Red	----

901.2 Speed Display Signs

Last Revised: 5/7/2020

Category 4 Temporary Traffic Control Device

Product	Name	COA	Speed Display Mount	Speed Display Power	Ref. No.
ALLTS 15 All Traffic Solutions, 3100 Research Drive, State College, PA 16801 http://www.alltrafficsolutions.com/ Speed Display Sign	SpeedSentry 18	SDS-3	Trailer	Solar Battery	----
AMESC 15 American Signal Company, 2755 Bankers Industrial Drive, Atlanta, GA 30360 http://www.amsig.com/frame_home.htm Speed Display Sign	Digibrite Advantage	SDS-5	Trailer	Solar Battery	----



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901.2 Speed Display Signs

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Category 4 Temporary Traffic Control Device

	Product	Name	COA	Speed Display Mount	Speed Display Power	Ref. No.
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
	Speed Display Sign	ConSAM	SDS-1	Trailer	Solar Battery	----
SOLAT 15	Solar Technology, Inc., 7620 Cetronia Road, Allentown, PA 18106 http://solartechnology.com/					
	Speed Display Sign	RST-2000	SDS-6	Trailer	Solar Battery	----
TRFCN 15	Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/					
	Speed Display Sign	SST-2	SDS-2	Trailer	Solar Battery	----
VERMI 15	Signalisation VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G3N 1X3 http://www.ver-mac.com/					
	Speed Display Sign	SP-3248V	SVM-001P	Trailer	Solar Battery	2018-137Q
	Speed Display Sign	SP-710	SDS-7	Trailer	Solar Battery	----
WANCN 15	Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/					
	Speed Display Sign	WSDT-S	SDS-4	Trailer	Solar Battery	----
	Speed Display Sign	WSDT3	SDS-9	Trailer	Solar Battery	2013-173

901.2 Stop/Slow Paddle, Flashing

Last Revised: 5/19/2015

	Product	Name	COA	Paddle Size (in)	Ref. No.
DETRL 15	Detronics Limited, 4003 Bloomington Rd, RR #4, Stouffville, Ontario, Canada				
	Stop/Slow Paddle, Flashing	Model TES-336T		18x18	1996-251
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/				
	Stop/Slow Paddle, Flashing	VA-WZ-1872-HI/DGF	FSSP-2	18x18	----
	Stop/Slow Paddle, Flashing	VA-WZ-2472-HI/DGF	FSSP-2	24x24	----
TRFPC 15	TAPCO - Traffic & Parking Control Company, Inc., 5100 W. Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/				
	Stop/Slow Paddle, Flashing	Blinkerpaddle 2180	FSSP-3	18x18	----
	Stop/Slow Paddle, Flashing	Blinkerpaddle 2180	FSSP-3	24x24	----

901.2 Temporary Barricades

Last Revised: 5/23/2019



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901.2 Temporary Barricades

Last Revised: 5/23/2019

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	Product	Name	COA	Barricade Light	Approved Crash Test Level	Ref. No.
ALLPI 15	Allied Plastics, Inc., 150 Holy Hill Road, Twin Lakes, WI 53181 Three Sided Barricade	Multicade	BAR-11	Lighted	TL-3 (62 mph)	----
CAMSC 15	Camsco Services, Inc., 255 Pennbriar Drive, Erie, PA 16509 https://camsco.com/public/home.html Barricade, Type 2	T2HSA		Lighted	TL-3 (62 mph)	2002-076Q
CORTI 15	Cortina Safety Products, 10706 West Grand Ave., Franklin Park, IL 60131 http://www.cortinaco.com/safety-products/cortina-safety-products/ Barricade, Type 1 Barricade, Type 1 Barricade, Type 2 Barricade, Type 2 Barricade, Type 2 Barricade, Type 2	Plastx 97-01-001 Steelcade 97-03-001 97-11-003-45 SF Series 97-11-45 F Series Plastx 97-01-002 Steelcade 97-03-002	BAR-8 BAR-8 BAR-8 BAR-8 BAR-8 BAR-8		TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph)	---- ---- ---- ---- ---- ----
HTGCP 15	HTG Custom Plastech, 15002 Cross Creek Parkway, Newbury, OH 44065 Barricade, Type 3	Sentinel B-30			TL-3 (62 mph)	2002-081Q
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/ Barricade, Type 3	Barricade Series 600	BAR-9		TL-3 (62 mph)	----
KORMN 15	Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/ Barricade, Type 1, 2 Barricade, Type 1, 2 Barricade, Type 3 Barricade, Type 3 Barricade, Type 3	WBT2 Jammer Plastic WBT2 Jammer Steel WBT3BR Splice Plate Bracket WBT3HP EZ-Kade WBT3SW Welded Stub	BAR-12 BAR-12 BAR-12 BAR-12 BAR-12 BAR-12	Lighted Lighted Lighted Lighted Lighted Lighted	TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph) TL-3 (62 mph)	---- ---- ---- ---- ---- ----



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901.2 Temporary Barricades

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Product	Name	COA	Barricade Light	Approved Crash Test Level	Ref. No.
PLAPC 15	Plasticade Products Corporation, 7700 North Austin Ave., Skokie, IL 60077 http://www.plasticade.com/				
Barricade, Type 1	100-WT12EG	BAR-10	Lighted	TL-3 (62 mph)	----
Barricade, Type 1	Fibercade 101	BAR-10	Lighted	TL-3 (62 mph)	----
Barricade, Type 1, 2, Direction Indicator (DI)	SafetyCade		Lighted	TL-3 (62 mph)	2000-303Q
Barricade, Type 2	100-T12B8	BAR-10	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	Fibercade 111	BAR-10	Lighted	TL-3 (62 mph)	----
Barricade, Type 3	300 Series	BAR-10		TL-3 (62 mph)	----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032				
Barricade, Type 3	Type Metallic Barricade	BAR-14		TL-3 (62 mph)	2012-040Q
THDTW 15	Three D Traffic Works, Inc., 430 North Varney Street, Burbank, CA 91502 http://www.trafficwks.com/				
Barricade, Type 1	TD 2000 Works		Lighted	TL-3 (62 mph)	2000-272Q
Barricade, Type 1	TD 2150 Works	BAR-1	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 2000 Works		Lighted	TL-3 (62 mph)	2000-272Q
Barricade, Type 2	TD 2150 Works	BAR-1	Lighted	TL-3 (62 mph)	----
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/				
Barricade, Type 1	TD 36000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 1	TD 37000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 1	TD 39000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 36000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 37000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 39000 Series	BAR-4	Lighted	TL-3 (62 mph)	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barricades

Last Revised: 5/23/2019

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 2 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Barricade Light	Approved Crash Test Level	Ref. No.
YODOK 15 Yodock Wall Company, Inc., 900 Patterson Drive, Bloomsburg, PA 17815 https://trinityhighway.com/					
Barricade, Type 3 <i>Maximum water per cell unit: 1060 pounds (482 kg).</i>	Model 2001	BAR-7		TL-3 (62 mph)	----
Barricade, Type 3 <i>May not contain water.</i>	Model 2001M	BAR-7		TL-3 (62 mph)	----

901.2 Temporary Barrier, Concrete (DM-2, Chapter 12)

Last Revised: 10/27/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

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Product	Name	Tested Criteria	Barrier Shape	Connection Type	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	FHWA Acc. Letter	Ref. No.
BARCO 15 Barrier Connection, LLC, 976 Narcissus Avenue, Clearwater, FL 33767-0564									
Temporary Concrete Barrier	10' or 20' Modified VDOT Barrier	NCHRP 350	F	Pin and Loop	32	6.0 ft.	TL-3 (62 mph)	B-54	----
<i>Approved FHWA Barrier System Design only, not manufacturers! Requires approval by District and Central Office BOPD, Highway Delivery Division before use.</i>									



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete (DM-2, Chapter 12)

Last Revised: 10/27/2020

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

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Product	Name	Tested Criteria	Barrier Shape	Connection Type	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	FHWA Acc. Letter	Ref. No.	
EASSI 15	Easi-Set Industries, 5119 Catlett Road, P.O. Box 400, Midland, VA 22728 http://www.easiset.com/									
	Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier	NCHRP 350	F and NJ	J-J Hooks	32	4.2 ft.	TL-3 (62 mph)	B-52, SWC02	----
	<i>See Section 714 for Precasters.</i>									
	<i>Drawings for J-J Hooks with NJ or F-Shape Concrete Barrier: B-52 FHWA Approval Letter (3/26/1999)</i>									
	Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier, Bolt Down - Structure Mounted (concrete pavement)	MASH 2016	F	J-J Hooks (MASH)	32	5.9" (0.49 ft.)	TL-3 (62 mph)	B-52B	2019-165Q
	<i>Approved for use on bridge decks and bridge approach slabs. For PennDOT approved drawing no. 2019-165 along with use requirements & restrictions, see Product No. 85 at Approved Bridge and Structure Products</i>									
	Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier, Bolt Down -Roadway Use (concrete pavement)	MASH 2016	F	J-J Hooks (MASH)	32	5.9" (0.49 ft.)	TL-3 (62 mph)	B-52B, SWC02b	2013-194A
	<i>Roadway Use - Bolted to concrete surface. Test Article Deflections (MASH Test 3-11) - Dynamic: 5.9 inches; Permanent: 4.0 inches; Working width: 27.5 inches. 2 anchors bolts required per 12' segment and 3 anchor bolts per 20' segment. See Section 714 for Precasters. J-J Hooks F-Shape 12' and 20' Barrier Bolted & Pinned Drawings Signed by PennDOT 3/30/15</i>									



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete (DM-2, Chapter 12)

Last Revised: 10/27/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

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Product	Name	Tested Criteria	Barrier Shape	Connection Type	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	FHWA Acc. Letter	Ref. No.
EASSI 15	Easi-Set Industries, 5119 Catlett Road, P.O. Box 400, Midland, VA 22728 http://www.easiset.com/								
Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier, Pin Down (asphalt pavement)	MASH 2016	F	J-J Hooks (MASH)	32	8.8" (0.73 ft.)	TL-3 (62 mph)	B-52C, SWC02c	2013-194A
<i>Roadway Use only - Pinned down to asphalt surface. Test Article Deflections (MASH Test 3-11) - Dynamic: 8.76 inches; Permanent: 5.50 inches; Working width: 32.03 inches. 3 pins required per 12' segment. See Section 714 for Precasters. J-J Hooks F-Shape 12' and 20' Barrier Bolted & Pinned Drawings Signed by PennDOT 3/30/15</i>									
Temporary Concrete Barrier	12' J-J Hooks Barrier, Free Standing	MASH 2016	F	J-J Hooks (MASH)	32	64.2" (5.4 ft.)	TL-3	B-300	2019-100Q
<i>PennDOT approved Drawing: J-J Hooks F-Shape MASH Free Standing Drawing Signed by PennDOT 02/10/20</i>									
KENPR 15	Kentucky Precast, Easi-Set Industries, 5119 Catlett Road, P.O. Box 400, Midland, VA 22728								
Temporary Concrete Barrier	20' J-J Hooks Kentucky Barrier	NCHRP 350	NJ	J-J Hooks	32	5.5 ft.	TL-3 (62 mph)	B-169	----
<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use.</i>									



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete (DM-2, Chapter 12)

Last Revised: 10/27/2020

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

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Product	Name	Tested Criteria	Barrier Shape	Connection Type	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	FHWA Acc. Letter	Ref. No.
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 505 Crown Point Ave Omaha, NE 67110	http://www.lindsay.com/transportation-solutions							
	Temporary Concrete Barrier	NCHRP 350	Tee-Head	Pin and Hinge	32	4.4 ft.	TL-3 (62 mph)	B-63, SWC01	2013-052
	Moveable Concrete Barrier (MCB)								
	PennDOT Approved Drawings: QuickChange Series 200 Moveable Concrete Barrier (MCB) Drawings Signed by PennDOT 1/27/14								
NYSDO 15	NYS DOT, State Office Campus-Building 5, Room 410, 1220 Washington Avenue, Albany, NY 12232-0751	https://www.dot.ny.gov/index?nd=nysdot							
	Temporary Concrete Barrier	NCHRP 350	F and NJ	I-Beam	32	3.4 ft. unanchored	TL-3 (62 mph)	B-94	----
	See Section 714.2 for approved precasters. MwRSF Report TRP-03-202-08, 03/14/2008 - Evaluation of Box Beam Stiffening of Unanchored Temporary Concrete Barriers MwRSF Report TRP-03-224-10, 01/27/2010 - Dynamic Evaluation of a Pinned Anchoring System for New York State's Temporary Concrete Barriers - Phase II Midwest Roadside Safety Facility (MwRSF) Test Reports								



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete (DM-2, Chapter 12)

Last Revised: 10/27/2020

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

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Product	Name	Tested Criteria	Barrier Shape	Connection Type	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	FHWA Acc. Letter	Ref. No.	
OHIDO 15	Ohio DOT, Ohio Department of Transportation, P. O. Box 899, Columbus, OH 43216-0899 http://www.dot.state.oh.us/pages/home.aspx									
	Temporary Concrete Barrier	10' Ohio DOT Barrier	NCHRP 350	NJ	Pin and Loop	32	5.5 ft.	TL-3 (62 mph)	B-93	----
	<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use. Drawings of Ohio DOT Pin and Loop NJ Shape Concrete Barrier: B-93 FHWA Approval Letter May 8th, 2002 with Drawings</i>									
ROCPR 15	Rockingham Precast, P.O. Box 1347, Harrisonburg, VA 22801 http://rockinghamprecast.com/									
	Temporary Concrete Barrier	12' T-LOK Barrier	NCHRP 350	F	T-Shape Plate	32	3.8 ft.	TL-3 (62 mph)	B-42, SWC22	----
	<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use. Drawings for T-LOK F Shape Barrier: B-42 FHWA Approval Letter with Drawings</i>									
VIRDO 15	Virginia DOT, The Dale Building, Suite 205, 1504 Santa Rosa Road, Richmond, VA 23229 http://www.virginiadot.org/									
	Temporary Concrete Barrier	10' or 20' VDOT Barrier, Modified MB-7D	NCHRP 350	F	Pin and Loop	32	6.0 ft.	TL-3 (62 mph)	B-54	----
	<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use.</i>									

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

Last Revised: 10/27/2020



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

Last Revised: 10/27/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, Section 6.1.3.13, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

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Product	Name	Tested Criteria	Comp. Barrier Shape	Comp. Barrier Conn. Type	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/						
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2017-095
	<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10 - Dynamic Evaluation of a Pinned Anchoring System for New York State's Temporary Concrete Barriers - Phase II, 01/27/2010. Per Faddis Concrete Products Drawings Dated and Signed by PennDOT 3/15/17</i>						
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/						
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2017-028
	<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10 - Dynamic Evaluation of a Pinned Anchoring System for New York State's Temporary Concrete Barriers - Phase II, 01/27/2010. Per Faddis Concrete Products Drawings Dated and Signed by PennDOT 3/15/17</i>						



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

Last Revised: 10/27/2020

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Product	Name	Tested Criteria	Comp. Barrier Shape	Comp. Barrier Conn. Type	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411						
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam Modified, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2019-133Q
<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10, 01/27/2010. Per Interstate Safety Service Drawing Signed by PennDOT 4/8/2020</i>							
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2014-266QA
<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10, 01/27/2010. Per Interstate Safety Service Drawing 1218 - Signed by PennDOT 07/08/2015</i>							
NORPR 15	Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/						
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2012-118A
<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10, 01/27/2010. Per Northeast Precast Drawings Dated 07/30/2012</i>							



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

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Product	Name	Tested Criteria	Comp. Barrier Shape	Comp. Barrier Conn. Type	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957						
Barrier Retrofit System (Limit Deflection)	12' Double Slot F-Shape J-J Hooks Deflection Reducing Retrofit (asphalt pavement)	MASH 2016	F Shape only	J-J Hooks	0.94 ft (11.3") at TOP, < 5" at BASE		2018-091Q
<p><i>This version installed on asphalt pavement utilizes (2) bent anchor plates per barrier. Each bent anchor plate is secured to asphalt with (2) 1" dia. x 12 3/4" long threaded anchors. Test Article Deflections (MASH Test 3-11 690900-SBK7) - Dynamic at top: 11.3 inches; Dynamic at base: < 5 inches; Permanent: 3.25 inches; Working width: 29.7 inches. Provisionally approved based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK7 (April 2018)</i></p> <p>Per Strongstown's B&K Enterprise's Double Slot Asphalt Pavement Drawings Signed by PennDOT 7/24/18</p>							
Barrier Retrofit System (Limit Deflection)	12' Double Slot F-Shape J-J Hooks Deflection Reducing Retrofit (concrete pavement)	MASH 2016	F Shape only	J-J Hooks	1.04 ft (12.5") at TOP, < 5" at BASE		2018-094Q
<p><i>This version installed on concrete pavement utilizes 2 bent anchor plates per barrier. Each bent anchor plate is secured to concrete with (2) 1" dia. x 7 3/4" long threaded anchors. Test Article Deflections (MASH Test 3-11 690900-SBK6) - Dynamic at top: 12.5 inches; Dynamic at base: < 5 inches; Permanent: 3.0 inches; Working width: 29.0 inches. Provisionally approved based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK6 (April 2018)</i></p> <p>Per Strongstown's B&K Enterprise's Double Slot Concrete Pavement Drawings Signed by PennDOT 7/24/18</p>							



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901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

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Product	Name	Tested Criteria	Comp. Barrier Shape	Comp. Barrier Conn. Type	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15 Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957							
Barrier Retrofit System (Limit Deflection)	12' F-Shape J-J Hooks Deflection Reducing Retrofit (asphalt pavement)	MASH 2016	F Shape only	J-J Hooks	1.02 ft (12.2")		2017-252
<i>This version installed on asphalt pavement utilizes (3) bent anchor plates per barrier with (2) 1" dia. x 16" long threaded anchor rods per plate. Test Article Deflections (MASH Test 3-11, 690900-SBK5) - Dynamic: 12.2 inches; Permanent: 2.5 inches; Working width: 31.2 inches. Provisionally approved based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK4 (April 2017, revised 6/19/17)</i>							
<i>Per Strongstown's B&K Enterprises' Asphalt Pavement Retrofit Drawings Signed by PennDOT 9/12/17</i>							
Barrier Retrofit System (Limit Deflection)	12' F-Shape J-J Hooks Retro Fit v3 (concrete pavement)	MASH 2016	F Shape only	J-J Hooks	At Toe: < 1" toward field, 4.0" toward traffic; At Top: 11.9" toward field		2019-078Q
<i>This version installed on concrete pavement utilizes 1 bent anchor plate per barrier with (1) 1" x 7 3/4" zinc coated threaded rod with a zinc coated hex nut per each plate. Nut welded to rod for removal. Test Article Deflections (MASH Test 3-11, 690900-SBK-9) - Dynamic at top: 11.9 inches; Dynamic at toe: < 1 inch toward field, 4 inches toward traffic; Permanent: 4.0 inches toward traffic; Working width: 29.3 inches. Strongstown's B&K Enterprise's Retro Fit v3 Concrete Pavement Drawings Signed by PennDOT 12/05/19</i>							
Barrier Retrofit System (Limit Deflection)	12' F-Shape J-J Hooks Retro Fit v4 (asphalt pavement)	MASH 2016	F Shape only	J-J Hooks	At Toe: 2.2" toward field; At Top: 8.5" toward field	B-344	2019-086Q



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Posted:
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

Last Revised: 10/27/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, Section 6.1.3.13, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Comp. Barrier Shape	Comp. Barrier Conn. Type	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957						
	<i>This version installed on asphalt pavement utilizes 1 bent anchor plate per barrier with (1) 1" x 7 3/4" zinc coated threaded rod with a zinc coated hex nut per each plate. Nut welded to rod for removal. Test Article Deflections (MASH Test 3-11, 690900-SBK10) - Dynamic at top: 8.5 inches toward field; Dynamic at toe: 2.2 inches toward field; Permanent at toe: 2.5 inches toward traffic; Working width: 29.4 inches. Retro Fit v4 Asphalt Pavement Drawings Signed by PennDOT 12/05/19 & FHWA Eligibility Letter B-344</i>						
Barrier Retrofit System (Limit Deflection)	12' F-Shape, J-J Hooks Deflection Reducing Retrofit (concrete pavement)	MASH 2016	F Shape only	J-J Hooks	0.99 ft (11.9")		2017-141
	<i>This version installed on concrete utilizes (3) bent anchor plates per barrier with (2) 1" dia. x 7 3/4" threaded anchor rods per plate. Test Article Deflections (MASH Test 3-11) - Dynamic: 11.9 inches; Permanent: 4.0 inches; Working width: 28.4 inches. Provisionally approval based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK4 (April 2017, revised 6/19/17) Per Strongstown's B&K Enterprises' Concrete Pavement Retrofit Drawings Signed by PennDOT 9/12/17</i>						

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.	
BARRS 15	Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571 http://www.barriersystemsinc.com/								
	Temporary Steel Barrier	28' ArmorGuard Barrier (AGB)	NCHRP 350 33.3	2.4 to 8.75 ft.	TL-3 (62 mph)	No (Ground Only)	B-173 (SWM07)	2004-057Q	
	<p><i>Tested deflection varies by configuration from 2.4 to 8.75 ft.</i></p> <p><i>A. 2.4 ft.: Based on three 28' AGB sections between six portable concrete barriers on each end (See Figure 1)</i></p> <p><i>B. 4.0 ft.: Based on four 28' AGB sections used between permanent barriers (See Figure 6)</i></p> <p><i>C. 8.75 ft.: Based on one 28' AGB section between permanent barriers (See Figure 11)</i></p> <p><i>See B-173 FHWA Eligibility Letter for details.</i></p> <p><i>Drawings of Armorguard Barrier: B-173 FHWA Approval Letter With Drawings</i></p>								
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/								
	Temporary Steel Barrier	12M Vulcan Barrier and Anchor System	NCHRP 350 32	1 ft.	TL-3 (62 mph)	No (Ground Only)	B-134C, SWM04b	2009-099Q	
	Temporary Steel Barrier	4M and 12M Vulcan Barrier System	NCHRP 350 32	7.9 ft.	TL-4 (small truck)	No (Ground Only)	B-134D, SWM04a	2009-099Q	
	Temporary Steel Barrier	Vulcan Barrier System, anchored ends	NCHRP 350 32	6.9 ft. Anchored Ends	TL-3 (62 mph)	No (Ground Only)	B-134, SWM04b	2009-099Q	



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/							
	Temporary Steel Barrier	Vulcan Barrier System, unanchored ends	NCHRP 350 32	13.2 ft. Unanchored Ends	TL-3 (62 mph)	No (Ground Only)	B-134, SWM04b	2009-099Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.
HIGCA 15	Highway Care International, The Highlands, Detling Hill,, Dertling, Maidstone, Kent, United Kingdom http://www.highwaycareint.com/							
Temporary Steel Barrier	BarrierGuard 800	NCHRP 350	31.5	4.92 ft.	TL-4 (small truck)	Structure, Ground	B-131, SWM06	----
	<i>PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>							
Temporary Steel Barrier	BarrierGuard 800 MASH TL-3 Standard (Asphalt Pavement)	MASH 2016	31.5	5.54 ft. (66.5")	TL-3 (62 mph)	Structure, Ground	B-303	----
	<i>Test Article Deflections (MASH Test 3-11) - Dynamic: 66.5 inches; Permanent: 63 inches; Dynamic working width: 87.4 inches; Permanent Working Width: 84.3 inches. Installed on asphalt with 8 anchor pins used in first and last barrier. Anchor pins used in crash test 1.18 in. dia. x 17.7 in. long. BarrierGuard 800 Standard originally tested per NCHRP 350 criteria (FHWA Eligibility Letter B-131). PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>							
Temporary Steel Barrier, Minimum Deflection System	BarrierGuard 800 MDS, 20 ft. Anchoring	MASH 2016	31.5	1.54 ft. (18.5") at TOP, 5.2" at BASE	TL-3 (62 mph)	Structure, Ground	B-286 REVISED	----
	<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 18.5 inches; Dynamic at base: 5.2 inches; Permanent: 8.64 inches; Working width: 39.7 inches. Installed on concrete slab and asphalt with impact area on 8 inch thick concrete. Anchored on 20 feet (6 m) intervals. BarrierGuard 800 MDS originally crash tested to NCHRP 350 (FHWA Eligibility Letter B-158). The dynamic deflection of 12 in. at TOP and 3" at BASE only applies to the original NCHRP 350 crash testing criteria. PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>							
Temporary Steel Barrier, Minimum Deflection System	BarrierGuard 800 MDS, 40 ft. Anchoring	NCHRP 350	31.5	2.92 ft for 40 ft anchor spacing	TL-3 (62 mph)	Structure Mounted	B-158, SWM06	----
	<i>PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>							



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.	
HILSM 15	Hill & Smith, 1000 Buckeye Park Road, Columbus, OH 43207 http://www.hillandsmith.com/								
	Temporary Steel Barrier	Zoneguard - Asphalt (Asphalt Pavement)	MASH 2016	32	1.95 ft. (23.4") beyond toe	TL-3	No (Ground Only)	B-320	2010-154Q
	<i>Test Article Deflections (MASH Test 3-11) - Dynamic beyond toe: 23.4 inches; Permanent at toe: 10.0 inches; Working width: 50.9 inches. Barrier pinned every 33 ft - 4" on center with exception at each end of installation. Pins used during crash test: 1 1/4" x 20" long.</i>								
	Temporary Steel Barrier	Zoneguard - Concrete (Concrete Pavement)	MASH 2016	32	6.8 ft. (81")	TL-3	No (Ground Only)	B-176C	2010-154Q
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 81.4 inches; Permanent at base: 80.0 inches; Working width: 108.5 inches. Barrier installed on concrete without rubber pads. 50 ft. galvanized steel barrier segments tested with drop-in pin anchors at ends only.</i>									
Temporary Steel Barrier	Zoneguard - Standard	NCHRP 350	32	4.75 ft.	TL-4 (small truck)	Structure, Ground	B-176, SWM10a	2010-154Q	
<i>PennDOT Drawings: ZoneGuard Portable Steel Barrier System Drawings (12-602-BDTD)</i>									
Temporary Steel Barrier	Zoneguard -Standard (Concrete Pavement)	MASH 2016	32	6.3 ft. (76") at TOP, 6.2 ft. (74") at BASE	TL-3 (62 mph)	Structure, Ground	B-176A, SWM10b	2010-154Q	
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 76 inches; Dynamic at base: 74 inches; Permanent at base: 67 inches. Installed on concrete with anchoring at end of the barrier. PennDOT Drawings: ZoneGuard Portable Steel Barrier System Drawings (12-602-BDTD)</i>									



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.
HILSM 15	Hill & Smith, 1000 Buckeye Park Road, Columbus, OH 43207 http://www.hillandsmith.com/							
Temporary Steel Barrier, Minimum Deflection System	Zoneguard Barrier - Min. Deflection (Concrete Pavement)	MASH 2016	32	1.35 ft. (16") at TOP, 5" at BASE	TL-3 (62 mph)	Structure, Ground	B-176A, SWM10b	2010-154Q
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 16 inches; Dynamic at base: 5 inches; Permanent at top: 5 inches; Permanent at base: 0 inches. Installed on concrete and pinned every 33.3 ft. along barrier. PennDOT Drawings: ZoneGuard Portable Steel Barrier System Drawings (12-602-BDTD)</i>								
MOBBA 15	Mobile Barriers, LLC, 24918 Genesee Trail Road, Golden, CO 80401 http://mobilebarriers.com/							
Temporary Steel Barrier	Mobile Barrier Trailer (MBT-1)	MASH 2016	48	2.0 ft.	TL-3 (62 mph)	No	B-178	----
<i>Test Article Deflections (MASH Test 3-11) - Dynamic: 24 inches; Static: 3.8 inches. The 100 foot long mobile barrier trailer was crash tested on concrete.</i>								



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel (DM-2, Chapter 12)

Last Revised: 3/17/2020

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Approved Bridge and Structure Products](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection (ft)	Barrier Approved Crash Test Level	Structure Mounted	FHWA Acc. Letter	Ref. No.
SBNA1 15 Plant	Safe Barriers North America LLC, 755 Grand Boulevard, Suite B105-227, Miramar Beach, FL 32550 https://www.safebarriers.com/ Unit 2205, No. 170 East Tapu Road, Siming District Xiamen, China							
Temporary Steel Barrier	Defender Barrier 100 HC (Asphalt Pavement)	MASH 2016	31.5	8.1 ft. (97")	TL-4	No (Ground Only)	B-297	2018-210Q
<i>HC = High Containment. Test Article Deflections (MASH Test 4-11, 2270P vehicle) - Dynamic: 7.5 feet; Permanent: 6.4 feet; Working width: 7.5 feet. Test Article Deflections (MASH Test 4-12, 10000S vehicle) - Dynamic 8.1 feet; Permanent: 6.0 feet, Working width: 8.6 feet. Installed on asphalt with a 1.18" dia. x 19.68" long ground anchor pin on each side of barrier every 157 feet. Safe Barriers Defender Barrier - PennDOT Signed Drawing 071819</i>								
Temporary Steel Barrier, Minimum Deflection System	Defender Barrier 100 LDS (Asphalt Pavement)	MASH 2016	31.5	2.9 ft.	TL-3	No (Ground Only)	B-298	2018-209Q
<i>Test Article Deflection (MASH Test 3-11) - Dynamic: 2.9 feet; Permanent 1.9 feet; Working width: 2.9 feet. Installed on asphalt with a 1.18" dia. x 19.68" long anchor pin on each side of barrier every 30 feet. Safe Barriers Defender Barrier - PennDOT Signed Drawing 071819</i>								

901.2 Temporary Barrier, Water-Filled (DM-2, Chapter 12)

Last Revised: 11/1/2017



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Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Water-Filled (DM-2, Chapter 12)

Last Revised: 11/1/2017

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Barrier Material	Tested Height (in)	Dynamic Deflection (ft)	Approved Crash Test Level	FHWA Acc. Letter	Ref. No.	
ARMOR 15	Armorcast Products Company, 13230 Saticoy Street, North Hollywood, CA 91605 http://www.armorcastprod.com/products/								
Temporary Water-Filled Barrier	Guardian Safety Barrier	NCHRP 350	Plastic with Steel Tubing	42	6.5 ft.	TL-3 (62 mph)	B-34E	----	
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/								
Temporary Water-Filled Barrier	Triton	NCHRP 350	Plastic with Steel Straps	32	12.8 ft.	TL-2 (44 mph)	B-21, SWM03b	----	
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>									
Temporary Water-Filled Barrier	Triton	NCHRP 350	Plastic with Steel Straps	32	19 to 22.64 ft.	TL-3 (62 mph)	B-48, SWM03a	----	
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>									
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/								
Temporary Water-Filled Barrier	Sentry	NCHRP 350	Plastic with Steel Cable	46	5.9 ft.	TL-2 (44 mph)	B-196	2010-039Q	
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>									
Temporary Water-Filled Barrier	Sentry	NCHRP 350	Plastic with Steel Cable	46	9 ft.	TL-3 (62 mph)	B-196	2010-039Q	
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>									



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Water-Filled (DM-2, Chapter 12)

Last Revised: 11/1/2017

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 3 Temporary Traffic Control Device [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Barrier Material	Tested Height (in)	Dynamic Deflection (ft)	Approved Crash Test Level	FHWA Acc. Letter	Ref. No.	
YODOK 15	Yodock Wall Company, Inc., 900 Patterson Drive, Bloomsburg, PA 17815 https://trinityhighway.com/								
	Temporary Water-Filled Barrier	Model 2001	NCHRP 350	Plastic with Steel Tubing	46	14 ft.	TL-3 (62 mph)	B-97	----
	<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>								
	Temporary Water-Filled Barrier	Model 2001M	NCHRP 350	Plastic with Steel Tubing	32	12.1 ft.	TL-2 (44 mph)	B-97	----
	<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>								

901.2 Temporary Pavement Marking Tape, Nonremovable

Last Revised: 6/17/2015

Product	Name	COA	Tape Color	Tape Surface	Ref. No.	
FOLT- 15	FOL Tape, LLC, 2025 Hitzert Court, Fenton, MO 63026 http://www.foltape.com/					
	Temporary Pavement Marking Tape, Nonremovable	FOL200	TPT-01	White	Asphalt and Concrete	1991-235
	Temporary Pavement Marking Tape, Nonremovable	FOL200	TPT-01	Yellow	Asphalt and Concrete	1991-236
	Temporary Pavement Marking Tape, Nonremovable	FOL300	TPT-01	White	Asphalt and Concrete	1991-237
	Temporary Pavement Marking Tape, Nonremovable	FOL300	TPT-01	Yellow	Asphalt and Concrete	1991-238



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Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Pavement Marking Tape, Nonremovable

Last Revised: 6/17/2015

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
SWAR0 15	Swarco Reflex LLC, 900 N. Denton, Mexia, TX 76667 https://www.swarco.com/northamerica				
	Temporary Pavement Marking Tape, Nonremovable	Visa-Line C.G	TPT-02	White	Asphalt and Concrete 1991-229
	Temporary Pavement Marking Tape, Nonremovable	Visa-Line C.G	TPT-02	Yellow	Asphalt and Concrete 1991-230
	Temporary Pavement Marking Tape, Nonremovable	Visa-Line E.G	TPT-02	White	Asphalt and Concrete 1991-231
	Temporary Pavement Marking Tape, Nonremovable	Visa-Line E.G	TPT-02	Yellow	Asphalt and Concrete 1991-232

901.2 Temporary Pavement Marking Tape, Removable

Last Revised: 1/26/2018

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/				
	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000				
	Temporary Pavement Marking Tape, Removable	Stamark 145	TT-01	Black Line Mask	Asphalt and Concrete 1992-190
	Temporary Pavement Marking Tape, Removable	Stamark 715	TT-01	Black Line Mask	Asphalt and Concrete 2011-215QC
	Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 710	TT-01	White	Asphalt and Concrete 2011-215QA
	Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 711	TT-01	Yellow	Asphalt and Concrete 2011-215QB
	Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 780	TT-01	White	Asphalt and Concrete 2010-126QA
	Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 781	TT-01	Yellow	Asphalt and Concrete 2010-126QB
ADTMK 15	Advance Traffic Markings, P.O. Box H, Roanoke Rapids, NC 27870-8082 http://www.trafficmarkings.com/				
	Temporary Pavement Marking Tape, Removable	280B 19-286 Black	TT-02	Black Line Mask	Asphalt and Concrete ----
	Temporary Pavement Marking Tape, Removable	ATM200W 19-200/216	TT-02	White	Asphalt and Concrete ----
	Temporary Pavement Marking Tape, Removable	ATM200Y 19-201/217	TT-02	Yellow	Asphalt and Concrete ----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Pavement Marking Tape, Removable

Last Revised: 1/26/2018

Product	Name	COA	Tape Color	Tape Surface	Ref. No.	
BRITE 15	Brite-Line Technologies LLC, 10660 E. 51st Ave., Denver, CO 80239 http://brite-line.com/					
	Temporary Pavement Marking Tape, Removable	Series 100	TT-03	White	Asphalt and Concrete	1992-188
	Temporary Pavement Marking Tape, Removable	Series 100	TT-03	Yellow	Asphalt and Concrete	1993-159A
	Temporary Pavement Marking Tape, Removable	TWR	TT-03	White	Asphalt and Concrete	----
	Temporary Pavement Marking Tape, Removable	TWR	TT-03	Yellow	Asphalt and Concrete	----
SWAR0 15	Swarco Reflex LLC, 900 N. Denton, Mexia, TX 76667 https://www.swarco.com/northamerica					
	Temporary Pavement Marking Tape, Removable	Director 2	TT-05	White	Asphalt and Concrete	1991-227
	Temporary Pavement Marking Tape, Removable	Director 2	TT-05	Yellow	Asphalt and Concrete	1991-228
	Temporary Pavement Marking Tape, Removable	Director 2 WR	TT-07	White	Asphalt and Concrete	2010-008QA
	Temporary Pavement Marking Tape, Removable	Director 2 WR	TT-07	Yellow	Asphalt and Concrete	2010-008QB
TAPE4 15	Tape 4, LLC, 2940 Mary Avenue, St. Louis, MO 63144 http://tape4.com/Tape4/Tape_4.html Formerly Laminations PB (LAMPB 15)					
	Temporary Pavement Marking Tape, Removable	Aztec 102 Engr. Gr.		White	Asphalt and Concrete	1993-168A
	Temporary Pavement Marking Tape, Removable	Aztec 390		Yellow	Asphalt and Concrete	1994-140

901.2 Temporary Portable Rumble Strips

Last Revised: 5/14/2020

Product	Name	COA	Pipe Certification	Ref. No.	
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/ Middlefield, OH				
	Temporary Portable Rumble Strips	RoadQuake 2 (RQ2)	TPRS-01	Black	----
	Temporary Portable Rumble Strips	RoadQuake 2 (RQ2)	TPRS-01	White	----
	Temporary Portable Rumble Strips	RoadQuake 2 (RQ2)	TPRS-01	Orange	----
	Temporary Portable Rumble Strips	RoadQuake 2F (RQ2F)			2015-120Q
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/				
	Temporary Portable Rumble Strips	TraFFix Alert High Speed Rumble Strip			2019-222Q

901.2 Temporary Traffic Control Signals

Last Revised: 4/3/2019



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Traffic Control Signals

Last Revised: 4/3/2019

Publication 408, Section 1124 - Temporary Traffic Control Signals

Publication 213 - Temporary Traffic Control Guidelines

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. Category 4 Temporary Traffic Control Device

	Product	Name	COA	COA Date	Signal Mount	Ref. No.
HORST 15	Horizon Signal Technologies, 5 Corporate Blvd., Reading, PA 19608 http://horizonsignal.com/					
	Temporary Traffic Control Signal	SQ2	HOR-01	12/16/2008	Pedestal Mount	----
	Temporary Traffic Control Signal	SQ3TS	HOR-00	12/16/2008	Trailer Mount	----
NORAT 15	North America Traffic, 7 Petersburg Circle, Port Colborne, Ontario, Canada L3K 5V5 http://www.northamericatrafic.com/					
	Temporary Traffic Control Signal	PTL 2.4x	NAT-00	12/16/2008	Trailer Mount	----
OMJC1 15	OMJC Signal, INC, 403 Chestnut St, Waterloo, IA 50703 http://omjcsignal.com/					
	Temporary Traffic Control Signal	Pop-Up LD	OSI-001P	8/21/2017	Trailer Mount	2016-143
THOJO 15	John Thomas, Inc. (JTI), 1560 Lovett Drive, Dixon, IL 61021 http://www.jtitraffic.com/					
	Temporary Traffic Control Signal	ADDCO PTS-2000	JTI-001P	3/12/2012	Trailer Mount	----
	Temporary Traffic Control Signal	Sentinel Pedestal-mounted Portable Traffic Signal (PTS)	JTS-002P	3/26/2019	Pedestal Mount	2017-310Q

901.2 Traffic Alert Radio

Last Revised: 4/13/2015

	Product	Name	COA	Power	Ref. No.
TRFCN 15	Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/				
	CB Radio	Wizard		Battery/Vehicle, AC with adapter	1998-007



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Posted:
12/10/2020 9:27:26AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

Last Revised: 12/10/2020

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Category 1 Temporary Traffic Control Device

	Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
HIGSP 15	Highway Safety Products, 1060 Kaiser Road, P. O. Box 4169, Napa, CA 94558 http://hsptrafficcones.com/						
	Traffic Cone	BHSP 4328	TC-2	One piece	28	Fluorescent Orange	----
	Traffic Cone	HSP 4328			28	Red Orange	1994-056
	Traffic Cone	HSP 4328E-10		Slimline	28	Red Orange	1994-055
	Traffic Cone	HSP 4336			36	Red Orange	1994-058
JBCSP 15	JBC Safety Plastic Inc., 16750 Chestnut Street, City of Industry, CA 91748 http://www.jbcasafetyplastic.com/						
	Traffic Cone	RC70045S		10 lb Slimline	28	Fluorescent Orange	2004-035Q
	Traffic Cone	RS70045CT		10 lb Wide Body	28	Fluorescent Orange	2005-104Q
	Traffic Cone	RS90045CT		10 lb Wide Body	36	Fluorescent Orange	2018-204Q
LAKSD 15	Lakeside Plastics, Inc., 450 West 33rd Avenue, P.O. Box 2384, Oshkosh, WI 54903 http://www.lakesideplastics.net/index.html						
	Traffic Cone	2850-10	TC-4	Trimline	28	Red Orange	1994-075
	Traffic Cone	2850-10	TC-4		28	Red Orange	1994-078
PLAPC 15	Plasticade Products Corporation, 7700 North Austin Ave., Skokie, IL 60077 http://www.plasticade.com/						
	Traffic Cone	Navigator Traffic Channelizer 650	TC-15		48	Orange	2012-157Q
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/						
	Traffic Cone	Navigator Channelizer	PTC-14		42	Fluorescent Orange	2010-275Q

Provisionally approved per COA PTC-14.



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

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	Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032						
	Traffic Cone	Channelizer			42	Fluorescent Orange	2006-048Q
SERVM 15	Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041						
	Traffic Cone	2058647			28	Red Orange / Black Base	1994-038
	Traffic Cone	TC-28FH-PA		Slimline	28	Red Orange	2001-184Q
	Traffic Cone	TC-28WH-PA		Wide Body	28	Red Orange	2001-183Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

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Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/					
Traffic Cone	Enviro-Cone	TDI-TC-14	7 lb	28	Orange / Fluorescent Orange	2014-236QA
Traffic Cone	Enviro-Cone	TDI-TC-14	10 lb	28	Orange / Fluorescent Orange	2014-236QB
Traffic Cone	Enviro-Cone	TDI-TC-14	12 lb	28	Orange / Fluorescent Orange	2014-236QC
Traffic Cone	Enviro-Cone	TDI-TC-14	10 lb	36	Orange / Fluorescent Orange	2014-237QA
Traffic Cone	Enviro-Cone	TDI-TC-14	12 lb	36	Orange / Fluorescent Orange	2014-237QB
Traffic Cone	Grabber 42000 Series	TC-13		42	Orange / Fluorescent Orange	----
Traffic Cone	Looper 46000 Series	TC-13		42	Orange / Fluorescent Orange	----
Traffic Cone	Spring Cone	TC-13			Orange	----
UATLLC15	UAT LLC, 4010 Earls Court, Alpharetta, GA 30004 https://uatsupply.com/					
Traffic Cone	CW3M28-10		10 lb Wide Body	28	Orange	2017-224Q
Traffic Cone	NG3M28-10		10 lb	28	Orange	2019-079Q
Traffic Cone	NGSL3M28-10		10 lb Slimline	28	Orange	2019-205Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

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Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
WORKA 15	Work Area Protection Corporation, 2500 Production Drive, PO Box 4087, St. Charles, IL 60174 http://workareaprotection.com/					
Traffic Cone	18 PVCS	TC-6	3 lb	18	Orange	1993-107
Traffic Cone	18 PVCS	TC-6	3 lb	18	Orange	1994-071
Traffic Cone	28 PVCH	TC-6	10 lb Wide Body	28	Orange	1993-109
Traffic Cone	28 PVCH	TC-6	10 lb Wide Body	28	Orange	1994-073
Traffic Cone	28 PVCTLH	TC-6	10 lb	28	Orange	1993-108
Traffic Cone	28 PVCTLH	TC-6	10 lb Trimline	28	Orange	1994-074
Traffic Cone	36 PVCS	TC-6	10 lb	36	Orange	1993-238
Traffic Cone	36 PVCS	TC-6	10 lb	36	Orange	1994-072
Traffic Cone	Channelizer			42	Fluorescent Orange	2006-048Q

901.2 Traffic Warning Signal Spinning Delineator

Last Revised: 2/26/2020

Product	Name	COA	Ref. No.
SHEWN 15	Sherwin Industries, Inc., 2410 Copper Hill Place, Midlothian, VA 23112 http://sherwinindustriesinc.com/sherwin/		
Spinning Delineator	Safe T Spin		1995-107
<i>This device shall not be used in place of a warning light required by Publication 213.</i>			

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 8/20/2019

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 8/20/2019

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

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	Product	Name	COA	Approved Crash Test Level	Ref. No.	
ENERG 15 Plant	Energy Absorption Systems, Inc. (Trinity Industries, Inc. Company), 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://energyabsorption.com/					
		Pell City, AL				
		Trailer Impact Attenuator (TA)	Safe-Stop Trailer TMA, Model 9000	TMA-2	TL-3 (62 mph), NCHRP 350	----
		Trailer Impact Attenuator (TA)	Vorteq Trailer TMA	TMA-2	TL-3 (62 mph), NCHRP 350	----
		Truck-Mounted Impact Attenuator (TMA)	ALPHA 70K TMA		TL-2 (44 mph), NCHRP 350	1997-055
		Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 8290	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----
		Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 8291	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----
		Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 8291CLC		TL-3 (62 mph), NCHRP 350	1999-177
		Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9180	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----
		Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9181	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----
	Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9182	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----	
	Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9182LC	TMA-2	TL-3 (62 mph), NCHRP 350	----	
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm					
	Trailer Impact Attenuator (TA)	Model TTMA-100 Trailer Attenuator	TA-01	TL-3 (62 mph), NCHRP 350	2013-147	



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 8/20/2019

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	COA	Approved Crash Test Level	Ref. No.
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 http://www.lindsay.com/transportation-solutions				
	505 Crown Point Ave Omaha, NE 67110				
	Trailer Impact Attenuator (TA)	U-MAD 100K Trailer Attenuator	TA-02	TL-3 (62 mph), NCHRP 350	2014-030Q
	Truck-Mounted Impact Attenuator (TMA)	U-MAD 100K	TMA-6	TL-3 (62 mph), NCHRP 350	2000-229Q
	Truck-Mounted Impact Attenuator (TMA)	U-MAD 70K	TMA-6	TL-2 (44 mph), NCHRP 350	2000-229Q
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032				
	Truck-Mounted Impact Attenuator (TMA)	React-350 TMA		TL-3 (62 mph), NCHRP 350	1998-158
RENCO 15	Renco Supply Inc., P.O. Box 730, Pflugerville, TX 78691 http://rencosupply.com/				
	Truck-Mounted Impact Attenuator (TMA)	RAM 100k	TMA-3	TL-3 (62 mph), NCHRP 350	----
	Truck-Mounted Impact Attenuator (TMA)	Ren-Gard 815	TMA-3	TL-2 (44 mph), NCHRP 350	----
SYRS2 15	Syro, Inc., 2525 Stemmons Freeway, Dallas, TX 75207 http://www.syrologistics.com/				
	Truck-Mounted Impact Attenuator (TMA)	MPS-350III		TL-3 (62 mph), NCHRP 350	1997-035
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/				
	Trailer Impact Attenuator (TA)	Scorpion Model 10002 TL3-12TA Trailer	TMA-7	TL-3 (62 mph), NCHRP 350	----
	Truck-Mounted Impact Attenuator (TMA)	Scorpion II Series 10000 TMA		TL-3 (62 mph), MASH 2016	2019-008Q
	FHWA Eligibility Letter: CC-132 Scorpion II TMA - PennDOT Approved Drawing 081919				
	Truck-Mounted Impact Attenuator (TMA)	Scorpion Model A 10,000		TL-2 (44 mph), NCHRP 350	2000-301Q
	Truck-Mounted Impact Attenuator (TMA)	Scorpion Model C 10,000		TL-3 (62 mph), NCHRP 350	2000-301Q
TRIN5 15	Trinity Highway Products, LLC, 2525 Stemmons Freeway, Dallas, TX 75207 http://www.highwayguardrail.com/				
	Truck-Mounted Impact Attenuator (TMA)	MPS-350	TMA-1(03)	TL-3 (62 mph), NCHRP 350	-



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 8/20/2019

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives. [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
VERDE 15 Facility	Verdegro USA LLC, Biscayne Blvd., Suite 505, Miami, FL 33132 https://www.blade-tma.com/ Munnikenheiweg 59 4879 NE Etten Leur, The Netherlands Truck-Mounted Impact Attenuator (TMA) FHWA Eligibility Letter: CC-136	BLADE TMA	TL-3 (62 mph), MASH 2016	2017-242Q

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 6/17/2015

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Category 1 Temporary Traffic Control Device

Product	Name	COA	Height (in)	Tubular Marker Color	Tubular Marker Bond	Ref. No.	
CARST 15	Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/						
	Tubular Marker	SDC-2036	TM-09	36	White	Butyl Pad	----
	Tubular Marker	SDC-2036	TM-09	36	Yellow	Butyl Pad	----
	Tubular Marker	SDC-2036	TM-09	36	White	Epoxy	----
	Tubular Marker	SDC-2036	TM-09	36	Yellow	Epoxy	----
	Tubular Marker	SDC-2048	TM-09	48	White	Butyl Pad	----
	Tubular Marker	SDC-2048	TM-09	48	Yellow	Butyl Pad	----
	Tubular Marker	SDC-2048	TM-09	48	White	Epoxy	----
	Tubular Marker	SDC-2048	TM-09	48	Yellow	Epoxy	----
	Tubular Marker	SDR-3028	TM-09	28	White	Butyl Pad	----
	Tubular Marker	SDR-3028	TM-09	28	Yellow	Butyl Pad	----
	Tubular Marker	SDR-3028	TM-09	28	Orange	Butyl Pad	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 6/17/2015

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Category 1 Temporary Traffic Control Device

Product	Name	COA	Height (in)	Tubular Marker Color	Tubular Marker Bond	Ref. No.	
CARST 15	Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/						
	Tubular Marker	SDR-3036	TM-09	36	White	Butyl Pad	----
	Tubular Marker	SDR-3036	TM-09	36	Yellow	Butyl Pad	----
	Tubular Marker	SDR-3036	TM-09	36	Orange	Butyl Pad	----
FLEXS 15	FlexStake, Inc., 2150 Andrea Lane, Fort Myers, FL 33912 http://www.flexstake.com/						
	Tubular Marker	TM 753	TM-10	36	White	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Yellow	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Orange	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Red	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Blue	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Green	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Gray	Butyl Pad	----
	Tubular Marker	TM 753	TM-10	36	Brown	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Yellow	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Orange	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Red	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Blue	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Green	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Gray	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	Brown	Butyl Pad	----
	Tubular Marker	TM 754	TM-10	48	White	Butyl Pad	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 6/17/2015

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Category 1 Temporary Traffic Control Device

Product	Name	COA	Height (in)	Tubular Marker Color	Tubular Marker Bond	Ref. No.	
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic 3110 70th Avenue East Tacoma, WA 98424						
	Tubular Marker	FG 300-UR/18"	TM-13	18	White	Epoxy	----
	Tubular Marker	FG 300-UR/18"	TM-13	18	Yellow	Epoxy	----
	Tubular Marker	FG 300-UR/18"	TM-13	18	Orange	Epoxy	----
	Tubular Marker	FG 300-UR/24"	TM-13	24	White	Epoxy	----
	Tubular Marker	FG 300-UR/24"	TM-13	24	Yellow	Epoxy	----
	Tubular Marker	FG 300-UR/24"	TM-13	24	Orange	Epoxy	----
	Tubular Marker	FG 300-UR/36"	TM-13	36	White	Epoxy	----
	Tubular Marker	FG 300-UR/36"	TM-13	36	Yellow	Epoxy	----
	Tubular Marker	FG 300-UR/36"	TM-13	36	Orange	Epoxy	----
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html						
	Tubular Marker	SH518SMTEAOS	TM-07	18	Orange	Epoxy	----
	<i>Use Master Builders Concompressive 1011 Epoxy 1 to 1 Mix</i>						
	Tubular Marker	SH518SMTEAWS	TM-07	18	White	Epoxy	----
	<i>Use Master Builders Concompressive 1011 Epoxy 1 to 1 Mix</i>						
	Tubular Marker	SH518SMTEAYS	TM-07	18	Yellow	Epoxy	----
	<i>Use Master Builders Concompressive 1011 Epoxy 1 to 1 Mix</i>						
	Tubular Marker	SH524SMAEAOOS	TM-07	24	Orange	Butyl Pad	----
	Tubular Marker	SH524SMAEAWS	TM-07	24	White	Butyl Pad	----
	Tubular Marker	SH524SMAEAYS	TM-07	24	Yellow	Butyl Pad	----
	Tubular Marker	SH536SMTEOOS	TM-07	36	Orange	Butyl Pad	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 6/17/2015

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350. The devices may be sold for use in Pennsylvania. Category 1 Temporary Traffic Control Device

Product	Name	COA	Height (in)	Tubular Marker Color	Tubular Marker Bond	Ref. No.	
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ Formerly PIBH- 15						
	Tubular Marker	PIBH-18TM	TM-11	18	White	Epoxy	----
	Tubular Marker	PIBH-18TM	TM-11	18	Yellow	Epoxy	----
	Tubular Marker	PIBH-18TM	TM-11	18	Orange	Epoxy	----
	Tubular Marker	PIBH-24TM	TM-11	24	White	Epoxy	----
	Tubular Marker	PIBH-24TM	TM-11	24	Yellow	Epoxy	----
	Tubular Marker	PIBH-24TM	TM-11	24	Orange	Epoxy	----
	Tubular Marker	PIBH-28TM	TM-11	28	White	Epoxy	----
	Tubular Marker	PIBH-28TM	TM-11	28	Yellow	Epoxy	----
	Tubular Marker	PIBH-28TM	TM-11	28	Orange	Epoxy	----
	Tubular Marker	PIBH-36TM	TM-11	36	White	Epoxy	----
	Tubular Marker	PIBH-36TM	TM-11	36	Yellow	Epoxy	----
	Tubular Marker	PIBH-36TM	TM-11	36	Blue	Epoxy	----
	Tubular Marker	PIBH-36TM	TM-11	36	Orange	Epoxy	----
	Tubular Marker	PIBH-48TM	TM-11	48	White	Epoxy	----
	Tubular Marker	PIBH-48TM	TM-11	48	Yellow	Epoxy	----
	Tubular Marker	PIBH-48TM	TM-11	48	Blue	Epoxy	----
	Tubular Marker	PIBH-48TM	TM-11	48	Orange	Epoxy	----
	Tubular Marker	PIBH-TMB	TM-11				----
	<i>Surface Mount Base, Pin Lock, Epoxy</i>						

901.2 Variable Speed Limit Signs

Last Revised: 3/20/2015

Product	Name	COA	Speed Display Mount	Speed Display Power	Ref. No.	
ASTIT 15	ASTI Transportation Systems, 18 Blevins Drive, New Castle, DE 19720 http://www.asti-trans.com/					
	Variable Speed Limit Sign	CST-1	VSL-1	Trailer	Solar Battery	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Variable Speed Limit Signs

Last Revised: 3/20/2015

Product	Name	COA	Speed Display Mount	Speed Display Power	Ref. No.	
TRFCN 15	Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/					
	Variable Speed Limit Sign	SST-2W	VSL-2	Trailer	Solar Battery	----

901.2 Vertical Panels

Last Revised: 3/26/2015

Product	Name	COA	Panel Type	Approved Crash Test Level	Ref. No.	
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/					
	Vertical Panel	320 F Fixed Base	VP-4	Single Panel	TL-2 (44 mph)	----
	Vertical Panel	320 F Portable Base	VP-4	Single Panel	TL-3 (62 mph)	----
PLAPC 15	Plasticade Products Corporation, 7700 North Austin Ave., Skokie, IL 60077 http://www.plasticade.com/					
	Vertical Panel <i>May be used with light.</i>	Extended SafetyCade	VP-1	Single Panel	TL-3 (62 mph)	----
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/ Middlefield, OH					
	Vertical Panel <i>May be used with light</i>	MVP	VP-5	Single Panel	TL-3 (62 mph)	----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
	Vertical Panel <i>May be used with light</i>	Big Foot	VP-2	Single Panel	TL-3 (62 mph)	----
	Vertical Panel <i>May be used with light</i>	Big Foot II	VP-2	Single Panel	TL-3 (62 mph)	----
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html					
	Vertical Panel <i>May be used with light</i>	RT 360 VP	VP-7	Single Panel	TL-3 (62 mph)	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Vertical Panels

Last Revised: 3/26/2015

Product	Name	COA	Panel Type	Approved Crash Test Level	Ref. No.
THDTW 15	Three D Traffic Works, Inc., 430 North Varney Street, Burbank, CA 91502 http://www.trafficwks.com/				
Vertical Panel <i>May be used with light</i>	TD6000	VP-6	Single Panel	TL-3 (62 mph)	----
Vertical Panel	TD6500	VP-6	Single Panel		----
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/				
Vertical Panel <i>May be used with light</i>	33000 Series	VP-3	Single Panel	TL-3 (62 mph)	----
Vertical Panel <i>May be used with light</i>	40000 Series	VP-3	Double Panel	TL-3 (62 mph)	----
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ Formerly PIBH- 15				
Vertical Panel	320 Series	VP-8	Single Panel	TL-2 (44 mph)	----
Vertical Panel	320 Series	VP-8	Single Panel	TL-3 (62 mph)	----

901.2 Warning Lights

Last Revised: 8/10/2017

Product	Name	COA	Ref. No.
C&CSG 15	C&C Signal, LLC, 216 South Alma School Road, Mesa, AZ 85210		
Warning Light: Type A, Yellow	BL1V.3W00	WL-13	----
Warning Light: Type A, Yellow	BL3V.3WXX	WL-13	----
Warning Light: Type A, Yellow	BLU36.3W	WL-13	----
Warning Light: Type A, Yellow	BLU36.3W00	WL-13	----
Warning Light: Type A, Yellow	SB.ACX	WL-13	----
Warning Light: Type B, White <i>Provisionally Approved</i>	BL3V.BL100	PWL-5	----
Warning Light: Type B, White <i>Provisionally Approved</i>	BLU6.BL100	PWL-5	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights

Last Revised: 8/10/2017

Product	Name	COA	Ref. No.
C&CSG 15 C&C Signal, LLC, 216 South Alma School Road, Mesa, AZ 85210			
Warning Light: Type B, Yellow	BL3V.BL100	WL-13	----
Warning Light: Type B, Yellow	BLU6.BL1-DH	WL-13	----
Warning Light: Type B, Yellow	BLU6.BL100	WL-13	----
Warning Light: Type C, Yellow	BL1V.3W00	WL-13	----
Warning Light: Type C, Yellow	BL3V.3WXX	WL-13	----
Warning Light: Type C, Yellow	BLU36.3W	WL-13	----
Warning Light: Type C, Yellow	BLU36.3W00	WL-13	----
Warning Light: Type C, Yellow	SB.ACX	WL-13	----
COLLT 15 Collt Manufacturing, Inc., 249 Hollis St., Holliston, MA 01746 http://www.collt.com/			
Warning Light: Type A, Yellow	PS-120		----
Warning Light: Type A, Yellow	PS-600		----
Warning Light: Type A, Yellow	RS-120		1984-126
Warning Light: Type B, Yellow	12-B		1984-125
Warning Light: Type C, Yellow	PSB-600		1984-127
DORMA 15 Dorman Smith Traffic Products, Rufford Road, Southport, England			
Warning Light: Type A, Yellow	TW1S-12V		1986-219
Warning Light: Type C, Yellow	TW2S		1985-206



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights

Last Revised: 8/10/2017

Product	Name	COA	Ref. No.
EMPCCL 15 Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/			
Warning Light: Type A, Yellow	100	WL-2	----
Warning Light: Type A, Yellow	100 LED	WL-2	1995-195
Warning Light: Type A, Yellow	2006	WL-2	----
Warning Light: Type A, Yellow	400	WL-2	----
Warning Light: Type A, Yellow	400 LED	WL-2	1995-196
Warning Light: Type A, Yellow	444 LED	WL-2	1999-040Q
Warning Light: Type A, Yellow	499L3	WL-2	----
Warning Light: Type A, Yellow	Y2K	WL-2	2000-162Q
Warning Light: Type B, White	212-6LW	WL-2	----
Warning Light: Type B, Yellow	1002	WL-2	----
Warning Light: Type B, Yellow	1002S	WL-2	----
Warning Light: Type B, Yellow	1102	WL-2	----
Warning Light: Type B, Yellow	1102L	WL-2	1996-085
Warning Light: Type B, Yellow	212 LED	WL-2	1997-179
Warning Light: Type B, Yellow	212-3	WL-2	----
Warning Light: Type B, Yellow	212-3DSL LED	WL-2	----
<i>Provisionally Approved</i>			
Warning Light: Type B, Yellow	212-3LW	WL-2	----
Warning Light: Type B, Yellow	212-3S	WL-2	----
<i>Provisionally Approved</i>			
Warning Light: Type B, Yellow	212-6	WL-2	----
Warning Light: Type B, Yellow	212-6DH	WL-2	----
Warning Light: Type B, Yellow	213-3DH	WL-2	----
Warning Light: Type C, Yellow	100	WL-2	----
Warning Light: Type C, Yellow	100 LED	WL-2	1995-133
Warning Light: Type C, Yellow	2006	WL-2	----
Warning Light: Type C, Yellow	400	WL-2	----
Warning Light: Type C, Yellow	400 LED	WL-2	1994-270



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights

Last Revised: 8/10/2017

	Product	Name	COA	Ref. No.
EMPCL 15	Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/			
	Warning Light: Type C, Yellow	400 LED-DH	WL-2	1994-134
	Warning Light: Type C, Yellow	499L3	WL-2	----
	Warning Light: Type C, Yellow	Y2K	WL-2	2000-162Q
	Warning Light: Type D, Yellow	499L3D	WL-2	----
PENTC 15	Pennsylvania Turnpike Commission, P.O. Box 67676, Harrisburg, PA 17106 https://www.paturnpike.com/			
	Warning Light: Type B, Yellow <i>May be used only with W21-19 sign. Provisionally Approved</i>	T-1	PWL-3	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights

Last Revised: 8/10/2017

Product	Name	COA	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032			
Warning Light: Type A, Yellow	PF-4	WL-1	----
Warning Light: Type A, Yellow	PF3-P-12V-A	WL-1	----
Warning Light: Type A, Yellow	PF3P-12V-PC-S	WL-1	----
Warning Light: Type A, Yellow	PF4P-12V-PC-S		1983-069
Warning Light: Type A, Yellow	PF4P-LED-6V-FL		1996-103A
Warning Light: Type B, Yellow	200 LED		1995-075
Warning Light: Type B, Yellow	Active WZ Light (Act 229)	PWL-4	----
<i>May be used only with W21-19 sign.</i>			
<i>Provisionally Approved</i>			
Warning Light: Type B, Yellow	HI-3		1987-313
Warning Light: Type B, Yellow	HI-3-120	WL-1	----
Warning Light: Type B, Yellow	HI-3-12V	WL-1	----
Warning Light: Type B, Yellow	HI-4		1983-143
Warning Light: Type C, Yellow	200-1-LED		1995-004
Warning Light: Type C, Yellow	PF-3-PC-SB2	WL-1	----
Warning Light: Type C, Yellow	PF-3P-6V-SBP-CS		1983-071
Warning Light: Type C, Yellow	PF-3P-6VC	WL-1	----
Warning Light: Type C, Yellow	PF-4-PC-SB	WL-1	----
Warning Light: Type C, Yellow	PF4P-LED-6V-FL		1996-103B



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights

Last Revised: 8/10/2017

Product	Name	COA	Ref. No.
SERV 15 Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041			
Warning Light: Type A, Yellow	301		1981-103
Warning Light: Type A, Yellow	501		1981-103
Warning Light: Type A, Yellow	NF5003		1983-139
Warning Light: Type A, Yellow	PAR7003		1983-140
Warning Light: Type B, Yellow	NF1714	WL-9	----
Warning Light: Type B, Yellow	NF1724	WL-9	----
Warning Light: Type B, Yellow	PAR1764	WL-9	----
Warning Light: Type B, Yellow	PAR1774	WL-9	----
Warning Light: Type C, Yellow	301		1981-103
Warning Light: Type C, Yellow	501		1981-103
Warning Light: Type C, Yellow	NF5001	WL-9	----
Warning Light: Type C, Yellow	PAR7001	WL-9	----
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/			
Warning Light: Type B, Yellow	M90		1990-021
WLITL 15 WLI Industries, Inc., 880 North Addison Road, Villa Park, IL 60181			
Warning Light: Type A, Yellow	Toughlite 2000	WL-11	----
Warning Light: Type C, Yellow	Toughlite 2000	WL-11	----
Warning Light: Type C, Yellow	Toughlite II	WL-11	----
WORKA 15 Work Area Protection Corporation, 2500 Production Drive, PO Box 4087, St. Charles, IL 60174 http://workareaprotection.com/			
Warning Light: Type B, Yellow	2524	WL-12	----
Warning Light: Type B, Yellow	2540	WL-12	----

901.2 Warning Lights, Sequential

Last Revised: 3/11/2020

Product	Name	COA	Ref. No.
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights, Sequential

Last Revised: 3/11/2020

Product	Name	COA	Ref. No.
EMPCCL 15	Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/ Sequential Warning Lights	Empco-Lite Model 2006	2014-217Q
PIVAR 15	Pi Variables, Inc., 14831 Myford Road, Tustin, CA 92780 http://pivvariables.com/ Sequential Warning Lights	Pi-Lit Barricade Style	2014-011
	Sequential Warning Lights <i>Provisional Approval for Sunflower Cone-Top Lamps - Contact Ryan Palman (rpalman@pa.gov) before using on a Department highway.</i> <i>FHWA Crashworthiness Eligibility: Self-Certification</i>	Pi-Lit Sunflower Sequential Cone-Top Warning Lamp	2016-293Q
UNID2 15	Unipart Dorman, Wennington Road, Southport, England PR97TN Sequential Warning Lights <i>This light cannot be used on 28" cones due to the MUTCD requirement of a 30" minimum mounting height (Section 6F.83 paragraph 11). FHWA MASH Crashworthiness Eligibility Letter: WZ-339</i>	ConeLITE Synchro	2016-137
UNIDO 15	Unipart Dorman, 173 Main Street, Bath, Ontario, Canada K0H 1G0 http://www.unipartdorman.com/ Sequential Warning Lights	SynchroGUIDE model BAB6N/AW/P/H	2012-164Q

901.3(b) Dust Control Palliatives

Last Revised: 6/23/2016

Publication 447, Section MS-0440-0020 Dust Palliatives [Publication 447, Approved Products for Lower Volume Local Roads](#)

Dust palliatives referenced in Pub 447, MS-0440-0020 are approved through the PennState Center for Dirt and Gravel Road Studies. To view the approved list and application rates: [The Dirt & Gravel Maintenance Program, Approved Products List](#)

Product	Name	Ref. No.
D&DEM 15	D & D Emulsions Inc., 270 Park Avenue East, P.O. Box 1706, Mansfield, OH 44901 http://ddemulsionsinc.com/ Emulsified Petroleum Resins	Coherex 2000-133Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.3(b) Dust Control Palliatives

Last Revised: 6/23/2016

Publication 447, Section MS-0440-0020 Dust Palliatives [Publication 447, Approved Products for Lower Volume Local Roads](#)

Dust palliatives referenced in Pub 447, MS-0440-0020 are approved through the PennState Center for Dirt and Gravel Road Studies. To view the approved list and application rates: [The Dirt & Gravel Maintenance Program, Approved Products List](#)

	Product	Name	Ref. No.
ENVES 15	Environmental Energy Solutions, LLC, 10027 Route 403 Highway South, Seward, PA 15954 http://www.eesolutionsllc.com/ Emulsified Petroleum Resins	Ultra Bond 2000	2000-235Q
GAPAC 15	Georgia-Pacific Corporation, 777 N. Eldridge Parkway, Houston, TX 77079 http://www.gp.com/ Calcium Lignosulfonate	Lignosite	1992-110
PENSU 15 Plant	PennzSuppress Corporation, P.O. Box 4993, Lago, TX 78701 http://pennzsuppress.com/ 77 North Kendall Avenue Bradford, PA 16701 Emulsified Petroleum Resins	PennzSuppress-D	1991-177
SUIT0 15	Suit-Kote Corporation, 1911 Lorings Crossing Rd, Cortland, NY 13045-5160 http://www.suit-kote.com/ Calcium Lignosulfonate	CLS	1996-168
SUIT3 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ Cortland, NY Emulsified Petroleum Resins		1997-188



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Section 910: Highway Lighting

910.3(d) Pole Foundations (Alternates): Drilled Concrete Caissons

Last Revised: 7/13/2017

Approved product alternative for Section 910.3(d).

Strike Off Letters (SOL) and Drawings for [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.	
SHAIN 15	Shaner Industries, LLC, 260 Pullman Square #169, Butler, PA 16001 http://www.shanerindustries.com/			
	Pole Foundation (Alternate): Drilled Concrete Caisson	Metal Finned Pipe Foundations for Conventional Lighting Pole	483-16-06	2016-162
	<i>Drawing Number: 99-034 PE , Approval Date on Drawing: 10/6/2016. The alternate foundation design for conventional lighting has been approved under ECMS Special Provision c09101 ITEM 9910-0150. Approved Bridge and Structure Products</i>			
	Pole Foundation (Alternate): Drilled Concrete Caisson	Metal Foundations for High Mast Lighting Pole	483-16-01	1995-291
	<i>Drawing Number: 95-291, PE, Rev. 2, Approval Date on Drawing: 3/7/2016. The alternate foundation design for high mast lighting has been approved under ECMS Special Provision c09102 ITEM 9910-0170. Approved Bridge and Structure Products</i>			



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Posted:
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Section 930: Post Mounted Signs, Type A

930.2(c)2 Post Mounted Signs, Type A: Foundations (Alternatives)

Last Revised: 3/27/2015

Approved product alternatives for Section 930.2(c)1, Cast in Place.

	Product	Name	COA	Ref. No.
SHAIN 15	Shaner Industries, LLC, 260 Pullman Square #169, Butler, PA 16001 http://www.shanerindustries.com/			
	Steel Finned Pipe Foundation	Safe (Sign Foundation)		1995-290



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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [TC-8600 and TC-8700](#)

Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.	
3M-06 15 Plant	3M Company, 4501 Highway 377 South, Brownwood, TX 76804 http://www.3m.com/3M/en_US/company-us/ 4501 Highway 377 South Brownwood, TX 76804						
	Linear Delineation System Series 340	LDS-341.5 (1.5 inch)	LDS-01			2013-150	
	<i>Installation with manual fasteners only.</i>						
	Linear Delineation System Series 340	LDS-344 (4 inch)	LDS-01			2013-150	
	<i>Installation with manual fasteners only.</i>						
	Linear Delineation System Series 340	LDS-346 (6 inch)	LDS-01			2013-150	
	<i>Installation with manual fasteners only.</i>						
AMEMP 15	American Molded Plastic, Inc., P.O. Box 434, Newton Falls, OH 44444 http://americanmoldedplastic.com/						
	Barrier Mounted Delineator	Flex-D	BMD-12	White and Yellow	Single/Bidirectional	Type R	----
ARTUK 15	Artuk Corporation, 1200 Abbott Dr., Elgin, IL 60123 http://artukinc.com/						
	Barrier Mounted Delineator	FB-38	BMD-06	White and Yellow	Impact Resistant, Single Direction, Single/Double Sided	Type P	----
	Barrier Mounted Delineator	FB33-1	BMD-08	White and Yellow	Impact Resistant, Single Direction	Type O	----
	<i>(Formerly listed under Supplier Code ASTR-15)</i>						
	Barrier Mounted Delineator	FB33-2	BMD-08	White and Yellow	Impact Resistant, Bidirectional	Type O	----
	<i>(Formerly listed under Supplier Code ASTR-15)</i>						
	Barrier Mounted Delineator	FB34-1	BMD-08	White and Yellow	Impact Resistant, Single Direction	Type O	----
	<i>(Formerly listed under Supplier Code ASTR-15)</i>						
	Barrier Mounted Delineator	FB34-2	BMD-08	White and Yellow	Impact Resistant, Bidirectional	Type O	----
	<i>(Formerly listed under Supplier Code ASTR-15)</i>						



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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [TC-8600 and TC-8700](#)

	Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.
ARTUK 15	Artuk Corporation, 1200 Abbott Dr., Elgin, IL 60123 http://artukinc.com/						
	Barrier Mounted Delineator	FT-1	BMD-06	White and Yellow	Impact Resistant, Single Direction, Single Sided	Type R	----
	Barrier Mounted Delineator	FT-2	BMD-06	White and Yellow	Impact Resistant, Bidirectional, Double Sided	Type R	----
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/						
	Barrier Mounted Delineator	660-IR-BMD	BMD-01			Type O	----
	Barrier Mounted Delineator	661-IR-BMD	BMD-01	White and Yellow	Impact Resistant, Single Direction	Type O	----
	Barrier Mounted Delineator	662-IR-BMD	BMD-01	White and Yellow	Impact Resistant, Bidirectional	Type O	----
EXTRU 15	Extrudex, LLP, 310 Figgie Road, Painesville, OH 44077 https://extrudex.net/ <i>Formerly Hall Manufacturing & Intek Plastics (HALMC 15)</i>						
	Barrier Mounted Delineator	Flexx 2020	BMD-09	White and Yellow	Impact Resistant, Single/Bidirectional	Type R	----
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic 3110 70th Avenue East Tacoma, WA 98424						
	Barrier Mounted Delineator	PCBM T12	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type R	----
	Barrier Mounted Delineator	PCBM-12	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type O	----
	Barrier Mounted Delineator	PCBM-15	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type P	----



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Posted:
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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [TC-8600 and TC-8700](#)

Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html					
	Barrier Mounted Delineator	SH216RBM-AS, 16" Post	BMD-05	Gray	Impact Resistant, Single Direction	Type S ----
	Barrier Mounted Delineator	SH216RBM-RS, 16" Post	BMD-05	Red	Impact Resistant, Single Direction	Type S ----
	Barrier Mounted Delineator	SH216RBM-YA, 16" Post	BMD-05	Yellow	Impact Resistant, Single Direction	Type S ----
	Barrier Mounted Delineator	SH216RBM-AA, 16" Post	BMD-05	Gray	Impact Resistant, Bidirectional	Type S ----
	Barrier Mounted Delineator	SH216RBM-RA, 16" Post	BMD-05	Red	Impact Resistant, Bidirectional	Type S ----
	Barrier Mounted Delineator	SH216RBM-WS, 16" Post	BMD-05	White	Impact Resistant, Bidirectional	Type S ----
	Barrier Mounted Delineator	SH216RBM-YA, 16" Post	BMD-05	Yellow	Impact Resistant, Bidirectional	Type S ----
	Barrier Mounted Delineator	SH216RMB-WS, 16" Post	BMD-05	White	Impact Resistant, Single Direction	Type S ----
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ Formerly PIBH- 15					
	Barrier Mounted Delineator	PIBH-16BMW, 16" Post	BMD-07	White	Impact Resistant, Single/Bidirectional	Type S ----
	Barrier Mounted Delineator	PIBH-16BMY, 16" Post	BMD-07	Yellow	Impact Resistant, Single/Bidirectional	Type S ----
	Barrier Mounted Delineator	PIBH-BMB BM Base	BMD-07		Pin Lock, Epoxy	----

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 8/12/2020

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [TC-8600 and TC-8700](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 8/12/2020

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [TC-8600](#) and [TC-8700](#)

Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.
3M-06 15 Plant	3M Company, 4501 Highway 377 South, Brownwood, TX 76804 http://www.3m.com/3M/en_US/company-us/ 4501 Highway 377 South Brownwood, TX 76804					
	Linear Delineation System Series 340	LDS-341.5 (1.5 inch)	LDS-01			2013-150
	<i>Installation with manual fasteners only.</i>					
	Linear Delineation System Series 340	LDS-344 (4 inch)	LDS-01			2013-150
<i>Installation with manual fasteners only.</i>						
	Linear Delineation System Series 340	LDS-346 (6 inch)	LDS-01			2013-150
<i>Installation with manual fasteners only.</i>						
AMEMP 15	American Molded Plastic, Inc., P.O. Box 434, Newton Falls, OH 44444 http://americanmoldedplastic.com/					
	Strong Post Guiderail Mounted Delineator	Flex-DS	BMD-12	White and Yellow	Single/Bidirectional	Type CS ----
	Weak Post Guiderail Mounted Delineator	Flex-DS	BMD-12	White and Yellow	Single/Bidirectional	Type CW ----
ARTUK 15	Artuk Corporation, 1200 Abbott Dr., Elgin, IL 60123 http://artukinc.com/					
	Guiderail Mounted Delineator	313 Straight	BMD-06	White and Yellow	Impact Resistant, Single Direction, Single/Double Sided	Type A 2012-192Q
	Guiderail Mounted Delineator	717	BMD-06	White and Yellow	Impact Resistant, Single/Bidirectional	Type D ----
	Strong Post Guiderail Mounted Delineator	FR-1	BMD-06	White and Yellow	Impact Resistant, Single Direction	Type CS ----
	Strong Post Guiderail Mounted Delineator	FR-2	BMD-06	White and Yellow	Impact Resistant, Single Direction	Type CS ----
ASDC1 15	Arrow Safety Device Company, 123 Dixon Street, Selbyville, DE 19975 http://www.arrowsafetydevice.com					
	Guiderail Mounted Delineator	ARRDeIB		White and Yellow	Impact Resistant, Single/Bidirectional	Type D 2016-109
<i>Provisionally Approved</i>						



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 8/12/2020

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [TC-8600](#) and [TC-8700](#)

Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.
CARST 15	Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/					
Guiderail Mounted Delineator	CFGBK300 Bracket for Guiderail	BMD-10				----
Guiderail Mounted Delineator	CFGR-02701BP (27" Flexguard Guiderail or Sentry Marker)	DPOST-02	White	Impact Resistant, Single/Bidirectional	Type B	2010-226Q
Guiderail Mounted Delineator	CFGR-02702BP (27" Flexguard Guiderail or Sentry Marker)	DPOST-02	Yellow	Impact Resistant, Single/Bidirectional	Type B	2010-226Q
Guiderail Mounted Delineator	CGR-302701	BMD-10	White	Impact Resistant, Single/Bidirectional	Type A	----
Guiderail Mounted Delineator	CGR-302702	BMD-10	Yellow	Impact Resistant, Single/Bidirectional	Type A	----
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/					
Guiderail Mounted Delineator	650-IR-GMD	BMD-01			Type D	----
Guiderail Mounted Delineator	651-IR-GMD	BMD-01	White and Yellow	Impact Resistant, Single Direction	Type D	----
Guiderail Mounted Delineator	652-IR-GMD	BMD-01	White and Yellow	Impact Resistant, Bidirectional	Type D	----
EMPCL 15	Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/					
Guiderail Mounted Delineator	GRD-S	BMD-13		Impact Resistant, Single/Bidirectional	Type D	2014-247Q
Guiderail Mounted Delineator	GRD-ST	BMD-13		Impact Resistant, Single/Bidirectional	Type A	2014-246Q



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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 8/12/2020

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [TC-8600](#) and [TC-8700](#)

Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.	
EXTRU 15	Extrudex, LLP, 310 Figgie Road, Painesville, OH 44077 https://extrudex.net/ Formerly Hall Manufacturing & Intek Plastics (HALMC 15)						
	Strong Post Guiderail Mounted Delineator	Railrider	BMD-09	White and Yellow	Impact Resistant, Single/Bidirectional	Type CS	----
	Weak Post Guiderail Mounted Delineator	Weak Post Railrider	BMD-09	White and Yellow	Impact Resistant, Single/Bidirectional	Type CW	----
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic 3110 70th Avenue East Tacoma, WA 98424						
	Guiderail Mounted Delineator	Butterfly Guiderail	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type D	----
	Guiderail Mounted Delineator	Straight Post Ref. -GMD	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type A	----
	Strong Post Guiderail Mounted Delineator	I-Flex 12	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type CS	----
	Weak Post Guiderail Mounted Delineator	I-Flex 12 WP	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type CW	----
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html						
	Guiderail Mounted Delineator	SH2276GRSD-YS1 2, 27" Post	BMD-05	Yellow	Impact Resistant, Bidirectional	Type B	----
	Guiderail Mounted Delineator	SH227GRS-WS12, 27" Post	BMD-05	White	Impact Resistant, Single Direction	Type B	----
	Guiderail Mounted Delineator	SH227GRS-YS12, 27" Post	BMD-05	Yellow	Impact Resistant, Single Direction	Type B	----
	Guiderail Mounted Delineator	SH227GRSD-WS12, 27" Post	BMD-05	White	Impact Resistant, Bidirectional	Type B	----
	Guiderail Mounted Delineator	SH227GRSE-UL-LA, 27" Post	BMD-05	Blue	Impact Resistant, Single Direction	Type B	----



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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 8/12/2020

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [TC-8600 and TC-8700](#)

Product	Name	COA	Device Color	Mount Description	Mount Type	Ref. No.	
SHUR1 15 Plant	SHUR-TITE Products, 105 Tradesmens Park Drive, Hutto, TX 78634 https://shur-tite.com/traffic_products						
	Guiderail Mounted Delineator	Shur-Tite Guiderail Post "Flat Mount" Delineator		White	Impact Resistant, Single/Bidirectional	Type B	2020-121Q
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ Formerly PIBH- 15						
	Guiderail Mounted Delineator	PIBH-27GRW, 27" Post	BMD-07	White	Impact Resistant, Single/Bidirectional	Type B	----
	Guiderail Mounted Delineator	PIBH-27GRY, 27" Post	BMD-07	Yellow	Impact Resistant, Single/Bidirectional	Type B	----
	Guiderail Mounted Delineator	SHUR-FLEX Guiderail Post "Flat Mount" Delineator (#SF2752)		White	Impact Resistant, Single/Bidirectional	Type B	2015-148

937.2(c) Delineation Devices, Posts

Last Revised: 5/13/2020

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

Product	Name	COA	Post Type	Ref. No.	
CARST 15	Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/				
	Delineator Post	27" Sentry Marker	DPOST-02	Guide Rail Post	2010-226Q
	Delineator Post	CDS-30	DPOST-02	Ground Mounted	1993-188
	Delineator Post	CFR-406601	DPOST-02	Ground Mounted	----
	Delineator Post	CFR-406602	DPOST-02	Ground Mounted	----
	Delineator Post	FlexGuard Post	DPOST-02	Ground Mounted	2010-051Q
	Delineator Post	SDC-2036 / 36"	DPOST-02	Surface Mounted	----
	Delineator Post	SDC-2048 / 48"	DPOST-02	Surface Mounted	----



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Section 937: Delineation Devices

937.2(c) Delineation Devices, Posts

Last Revised: 5/13/2020

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

Product	Name	COA	Post Type	Ref. No.	
FLEXS 15	FlexStake, Inc., 2150 Andrea Lane, Fort Myers, FL 33912 http://www.flexstake.com/				
	Delineator Post	HD-600 Series	DPOST-03	Ground Mounted	1992-072A-F
	Delineator Post	SM-700 Series	DPOST-03	Surface Mounted	1992-072A-F
FRANK 15	Franklin Industries, 645 Atlantic Ave., Franklin, PA 16323 http://store.franklinindustriesco.com/				
	Delineator Post	PC-220	DPOST-06	Ground Mounted	2000-046Q
<i>Approved to manufacture ground mounted delineator posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>					
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic				
	Delineator Post	City Post EAC (Embedded Anchor Cup)		Spin-in (Embedded Anchor Cup)	2018-150Q
	Delineator Post	FG 300-UR	DPOST-05	Surface Mounted (Epoxy)	----
	Delineator Post	FG-500 Series FG-95	DPOST-05	Ground Mounted	----
	Delineator Post	FG-500 Series FG-96	DPOST-05	Ground Mounted	----
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html				
	Delineator Post	SH-SMA-1-BL	DPOST-01	Surface Mounted Base (Pin Lock, Epoxy)	----
	Delineator Post	SH236SMA-SP12	DPOST-01	Surface Mounted	----
	Delineator Post	SH248GP3-SP-12	DPOST-01	Ground Mounted	----
	Delineator Post	SH336SMA-SP12	DPOST-01	Surface Mounted	----
	Delineator Post	SH348GP3-SP-12	DPOST-01	Ground Mounted	----
	Delineator Post	SHA1-08OE-GL (8" Steel Anchor)	DPOST-01	Ground Mounted	----
	Delineator Post	SHA3-18C-GL (18" Steel Anchor)	DPOST-01	Ground Mounted	----



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Section 937: Delineation Devices

937.2(c) Delineation Devices, Posts

Last Revised: 5/13/2020

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

Product	Name	COA	Post Type	Ref. No.	
SHUR1 15 Plant	SHUR-TITE Products, 105 Tradesmens Park Drive, Hutto, TX 78634 https://shur-tite.com/traffic_products				
	Delineator Post	Shur-Flex Driveable Delineator		Ground Mounted	2020-119Q
	Delineator Post	Shur-Flex Surface Mount Delineator		Surface Mounted	2020-120Q
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/				
	<i>Formerly PIBH- 15</i>				
	Delineator Post	PIBH-36G	DPOST-04	Surface Mounted	----
	Delineator Post	PIBH-48G	DPOST-04	Ground Mounted	----
	Delineator Post	PIBH-52G	DPOST-04	Ground Mounted	----
	Delineator Post	PIBH-A18 (18" Steel Anchor)	DPOST-04	Ground Mounted	----
	Delineator Post	PIBH-A8 (8" Steel Anchor)	DPOST-04	Surface Mounted	----
	Delineator Post	PIBH-TMB	DPOST-04	Surface Mounted (Epoxy)	----
	Delineator Post	SHUR-FLEX Driveable Delineator Item #SD0031		Ground Mounted	2015-147Q
Delineator Post	SHUR-FLEX Surface Mount Delineator (#SF0140)		Surface Mounted	2015-149	



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 11/26/2019

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Steel Sign Structure Fabricator	Baltimore	MD	2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Boyertown	PA	----
BRFAB 15	Brookfield Fabricating Corporation, P. O. Box 406, Brookfield, MO 64628 http://www.brookfieldfabricating.com/ Steel Sign Structure Fabricator	Brookfield	MO	----
DURAB 15	Dura-Bond Steel Corporation, 2658 Puckety Drive, Export, PA 15632 http://www.dura-bond.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Export	PA	----
GRENR 15	Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/ Steel Sign Structure Fabricator <i>Also approved for induction bending of monopipe.</i>	Mount Joy	PA	----
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Ellwood City	PA	----
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Ellwood City	PA	2017-029Q
HASSC 15	Harris Structural Steel Company, Inc., 1640 New Market Ave., South Plainfield, NJ 07080 http://www.harrissteelco.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	South Plainfield	NJ	----
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ Formerly Brownsville Marine Products Steel Sign Structure Fabricator	Brownsville	PA	2018-220Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 11/26/2019

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
HURFC 15	Hurt Fabricating Corporation, 26707 E. Scott Road, Mareline, MO 64658 http://www.hurtfab.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Mareline	MO	----
L&MFM 15 Facility	L&M Fabrication & Machine, Inc., 6814 Chrisphalt Drive, P. O. Box 124, Bath, PA 18014 http://www.lmfab.com/ 6814 Chrisphalt Dr. Bath, PA 18014 Steel Sign Structure Fabricator	Bath	PA	----
LEHUA 15	Lehigh Utility Associates, Inc., 1300 New Market Ave., South Plainfield, NJ 07080 Steel Sign Structure Fabricator	South Plainfield	NJ	----
MAICO 15	Maico Industries, Inc, 936 Highway 14, Ellsworth, KS 67439 http://www.maicoind.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Ellsworth	KS	----
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Steel Sign Structure Fabricator	Alum Bank	PA	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Steel Sign Structure Fabricator	Coatesville	PA	2014-068Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ 2nd Facility: 20 Steel Rd., Morrisville, PA 19067 Steel Sign Structure Fabricator	Bensalem	PA	2014-212Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ Steel Sign Structure Fabricator	Carbondale	PA	2018-218Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Steel Sign Structure Fabricator	Bristol	PA	2016-281
RCCFI 15	RCC Fabricators, Inc., 2035 Route 206 South, Southampton, NJ 18434 Steel Sign Structure Fabricator	Southampton	NJ	2015-079Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 11/26/2019

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 220 Lincoln Avenue Pittsburgh, PA 15209 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Millvale	PA	----
SOVGN 15	Sovereign Steel Manufacturing LLC, 225 Kiwanis Blvd, West Hazleton, PA 18202 <i>Formerly at 2027 South 12th Street, Bldg. 507, Allentown, PA</i> Steel Sign Structure Fabricator <i>Formerly located at 2027 South 12th Street, Bldg. 507, Allentown, PA 18103</i>	West Hazleton	PA	2018-184Q
SPECF 15	Specialty Fab, Inc., 11950 South Avenue, North Lima, OH 44452 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	North Lima	OH	----
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Elizabethtown	KY	----
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Steel Sign Structure Fabricator	Canton	OH	2018-177Q
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 Steel Sign Structure Fabricator <i>Also approved for induction bending of monopipe.</i>	Lindon	UT	----
VAL-2 15	Valmont Specialty Structures/Plymouth, 1545 Pidco Drive, Plymouth, IN 46563 Steel Sign Structure Fabricator	Plymouth	IN	----
WALPR 15	Walpar, Inc., 4200 Jefferson Ave., S.W., Birmingham, AL 35228 Steel Sign Structure Fabricator	Birmingham	AL	----

948.3(b) Steel Sign Structures, Foundations

Last Revised: 3/29/2015

Approved product alternatives for Section 948.3(b)



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Posted:
12/10/2020 9:27:26AM

Section 948: Steel Sign Structure

948.3(b) Steel Sign Structures, Foundations

Last Revised: 3/29/2015

Approved product alternatives for Section 948.3(b)

Product	Name	Ref. No.
SHAIN 15	Shaner Industries, LLC, 260 Pullman Square #169, Butler, PA 16001 http://www.shanerindustries.com/	
	Steel Sign Structure Foundation	1995-290
	<i>The alternate foundation design for cantilever and center mount sign structure poles has been approved under CMS Special Provision S00(ID09103B) and ECMS Special Provision I-C09103-B.</i>	



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 960: Hot Thermoplastic Pavement Markings

960.2 Hot Thermoplastic Pavement Markings

Last Revised: 7/6/2020

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120									
	Hot Thermoplastic Pavement Marking	885625	HTPM-06	White	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	2010-286
	<i>(Tested on 2005 Pennsylvania NTPEP Test Desk: PMM-2005-PA-023). Lot numbers start with T or G.</i>									
	Hot Thermoplastic Pavement Marking	885626	HTPM-06	Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	2010-021
	<i>(Tested on 2005 Pennsylvania NTPEP Test Desk: PMM-2005-PA-024). Lot numbers start with T or G.</i>									
Hot Thermoplastic Pavement Marking	885636	HTPM-06	White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2012-131 QB	
<i>(Tested on 2008 Pennsylvania NTPEP Test Desk: PMM-2008-PA-068). Lot numbers start with T or G.</i>										
Hot Thermoplastic Pavement Marking	885637	HTPM-06	White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2012-131 QC	
<i>(Tested on 2008 Pennsylvania NTPEP Test Desk: PMM-2008-PA-069). Lot numbers start with T or G.</i>										



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Section 960: Hot Thermoplastic Pavement Markings

960.2 Hot Thermoplastic Pavement Markings

Last Revised: 7/6/2020

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
ENN-2 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 505 County Line Road Thomasville, NC 27630									
	Hot Thermoplastic Pavement Marking	885625		White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2017-312 Q
	<i>Lot numbers start with N. (Tested on 2005 Pennsylvania NTPEP Test Desk: PMM-2005-PA-023)</i>									
	Hot Thermoplastic Pavement Marking	885626		Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2017-313 Q
<i>Lot numbers start with N. (Tested on 2005 Pennsylvania NTPEP Test Desk: PMM-2005-PA-024)</i>										
Hot Thermoplastic Pavement Marking	885637		White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2017-314 Q	
<i>Lot numbers start with N. (Tested on 2008 Pennsylvania NTPEP Test Desk: PMM-2008-PA-069)</i>										



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Section 960: Hot Thermoplastic Pavement Markings

960.2 Hot Thermoplastic Pavement Markings

Last Revised: 7/6/2020

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
ENN-4 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1001 Nebula Road Manchester, GA 31816 <i>Formerly Dobco, Business Unit of Sherwin-Williams</i>								
	Hot Thermoplastic Pavement Marking	W1X0156	HTPM-05	White	Lighted and Unlighted Roadways	Concrete	Yes	Lines and Other Uses	2007-204 Q
	Hot Thermoplastic Pavement Marking	W1X0156	HTPM-05	White	Lighted and Unlighted Roadways	Asphalt	No	Lines and Other Uses	2007-204 Q
	Hot Thermoplastic Pavement Marking	Y1X0106	HTPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Lines and Other Uses	2007-205 Q
	Hot Thermoplastic Pavement Marking	Y1X0126	HTPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Lines and Other Uses	2007-203 Q



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Section 960: Hot Thermoplastic Pavement Markings

960.2 Hot Thermoplastic Pavement Markings

Last Revised: 7/6/2020

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
SWAR1 15	Swarco Industries LLC, 270 Rutherford Lane, P.O. Box 89, Columbia, TN 38402 https://www.swarco.com/northamerica								
Hot Thermoplastic Pavement Marking	WHAASHTO	HTPM-03	White	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Hot Thermoplastic Pavement Marking	WHAASHTO	HTPM-03	White	Lighted and Unlighted Roadways	Concrete	No	M247	Lines Only	----
Hot Thermoplastic Pavement Marking	YHAASHTO	HTPM-03	Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Hot Thermoplastic Pavement Marking	YHAASHTO	HTPM-03	Yellow	Lighted and Unlighted Roadways	Concrete	No	M247	Lines Only	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 961: Cold Plastic Pavement Markings or Legends

961.2 Cold Plastic Pavement Markings or Legends

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
3M-01 15	3M Company, 3M Traffic Control Materials Lab, 3M Center Building 235-3B-55, St. Paul, MN 55144 http://www.3m.com/3M/en_US/company-us/									
	Cold Plastic Pavement Marking or Legend	380-1	CPPM-11	White	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes	Ceramic	Lines and Other Uses	----
	Cold Plastic Pavement Marking or Legend	381-1	CPPM-11	Yellow	Lighted and Unlighted Roadways	Asphalt	Yes	Ceramic	Lines and Other Uses	----
	Cold Plastic Pavement Marking or Legend	381-1	CPPM-11	Yellow	Lighted and Unlighted Roadways	Concrete	Yes	Ceramic	Lines Only	----
	Cold Plastic Pavement Marking or Legend	A380	CPPM-11	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines and Other Uses	----
Cold Plastic Pavement Marking or Legend	A381	CPPM-11	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines and Other Uses	----	
BRITE 15	Brite-Line Technologies LLC, 10660 E. 51st Ave., Denver, CO 80239 http://brite-line.com/									
Cold Plastic Pavement Marking or Legend	Series 1000	CPPM-10	White	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes	Yes	Lines and Other Uses	2009-077 Q	



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Section 961: Cold Plastic Pavement Markings or Legends

961.2 Cold Plastic Pavement Markings or Legends

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
SWAR1 15	Swarco Industries LLC, 270 Rutherford Lane, P.O. Box 89, Columbia, TN 38402 https://www.swarco.com/northamerica								
Cold Plastic Pavement Marking or Legend	Director 60	CPPM-06	White	Lighted Roadways Only	Asphalt	Yes	SP	Lines and Other Uses	----
<i>Restricted Use: surface applied on existing pavements only.</i>									
Cold Plastic Pavement Marking or Legend	Director 60	CPPM-06	White	Lighted and Unlighted Roadways	Concrete	Yes	SP	Lines and Other Uses	----
<i>Restricted Use: surface applied on existing pavements only.</i>									
Cold Plastic Pavement Marking or Legend	Director 60	CPPM-06	White	Lighted Roadways Only	Asphalt and Concrete	Yes	SP	Lines and Other Uses	----
<i>Restricted Use: surface applied on existing pavements only.</i>									



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 962: Waterborne Pavement Markings

962.2 Waterborne Pavement Markings

Last Revised: 10/7/2020

Product	Name	COA	Marking Color	NTPEP Test Number	Ref. No.
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120				
	Waterborne Pavement Marking	991022	WP-01	White	2007-074Q
	Waterborne Pavement Marking	991028	WP-01	Yellow	2007-070Q
	Waterborne Pavement Marking	991152	WP-01	White	2011-237Q
	Waterborne Pavement Marking	991158	WP-01	Yellow	2011-231Q
ENN-3 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 4400 Vawter Avenue Richmond, VA 23222				
	Waterborne Pavement Marking	983801 (EF Series WB18NTPWBW6)		White	PMM-2018-01-110 2020-090Q
	Waterborne Pavement Marking	983802 (EF Series WB18NTPWBY6)		Yellow	PMM-2018-01-111 2020-091Q
	Waterborne Pavement Marking	991022	WP-01	White	2007-074Q
	Waterborne Pavement Marking	991028	WP-01	Yellow	2007-070Q
	Waterborne Pavement Marking	991152	WP-01	White	2011-237Q
	Waterborne Pavement Marking	991158	WP-01	Yellow	2011-231Q
ENN-5 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 129 Cleveland Drive Paris, KY 40361				
	Waterborne Pavement Marking	991022		White	2018-119Q
	Waterborne Pavement Marking	991028		Yellow	2018-120Q
FRAPC 15	Franklin Paint Company, 259 Cottage Street, Franklin, MA 02038				
	Waterborne Pavement Marking <i>Use on concrete pavement only.</i>	2014	WP-03	White	2012-197QA
	Waterborne Pavement Marking <i>Use on concrete pavement only.</i>	2015	WP-03	Yellow	2012-197QB



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Section 962: Waterborne Pavement Markings

962.2 Waterborne Pavement Markings

Last Revised: 10/7/2020

Product	Name	COA	Marking Color	NTPEP Test Number	Ref. No.
OZARK 15	Ozark Materials, LLC, 591 Glendale Avenue, Greenville, AL 36037 http://ozarkmaterials.net				
	Waterborne Pavement Marking	Yellow PA Type I	Yellow		2020-089Q
	<i>Provisionally Approved. Upon successful completion of chemistry verification testing, the provisional status will be removed.</i>				
SHER2 15	The Sherwin-Williams Company, Protective & Marine Coatings, 101 West Prospect Avenue, Cleveland, OH 44115 https://protective.sherwin-williams.com/				
Plant	2325 Hollins Ferry Road Baltimore, MD 21230				
	Waterborne Pavement Marking	058-004 (TM2382)	WP-02	White	2007-014Q
	Waterborne Pavement Marking	058-006 (TM2383)	WP-02	Yellow	2007-016Q
	Waterborne Pavement Marking	2008138105	WP-02	White	2011-245Q



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Posted:
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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
ACCST 15	Accent Stripe, 3275 Benzing Road, Orchard Park, NY 14127 http://www.accentstripe.com/								
Epoxy Pavement Marking	ACNT-W-A	EPM-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines Only	----
Epoxy Pavement Marking	ACNT-W-S	EPM-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines Only	----
Epoxy Pavement Marking	ACNT-W-T	EPM-01	White	Lighted and Unlighted Roadways	Asphalt			Lines Only	----
Epoxy Pavement Marking	ACNT-Y-S	EPM-01	Yellow	Lighted and Unlighted Roadways	Concrete			Lines Only	----
BALTP 15	Baltimore Paint & Chemical, Division of Sherwin Williams, 2325 Hollins Ferry Road, Baltimore, MD 21230								
Epoxy Pavement Marking	TM8206 (TM8212)	PM-5-5	White	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Epoxy Pavement Marking	TM8209 (TM8215)	PM-5-5	Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Epoxy Pavement Marking	TM8209 (TM8215)	PM-5-5	Yellow	Lighted and Unlighted Roadways	Concrete	No	M247	Lines Only	----



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120									
	Epoxy Pavement Marking	HPS-3	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2008-154Q A
	<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
	Epoxy Pavement Marking	HPS-3	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2008-154Q B
	<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	HPS-4	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2010-019Q A	
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>										
Epoxy Pavement Marking	HPS-4	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2010-019Q B	
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>										



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
ENN-3 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 4400 Vawter Avenue Richmond, VA 23222									
	Epoxy Pavement Marking	HPS-3	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	----
	<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
	Epoxy Pavement Marking	HPS-3	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	----
	<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	HPS-4	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	----	
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>										
Epoxy Pavement Marking	HPS-4	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	----	
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>										



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
EPOPX 15	Epoplex, 1000 East Park Avenue, Maple Shade, NJ 08052 http://www.epoplex.com/									
	Epoxy Pavement Marking	LS50	EPM-03	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2007-003Q A
	<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
	Epoxy Pavement Marking	LS50	EPM-03	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2007-003Q B
	<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
	Epoxy Pavement Marking	LS50	EPM-03	Black Line Mask	Lighted and Unlighted Roadways	Concrete	No	No	Lines Only	2011-017Q
<i>Provisionally Approved</i>										
Epoxy Pavement Marking	LS65	EPM-03	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2010-330Q	
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>										
<i>Provisionally Approved</i>										
Epoxy Pavement Marking	LS65	EPM-03	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2010-331Q	
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>										
<i>Provisionally Approved</i>										



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
POLYC 15 Plant	Olin Epoxy-POLY-CARB, 8440 Tower Dr., Twinsburg, OH 44087 http://www.poly-carb.com 125 Industrial Park Rd. Roberta, GA 31078 <i>Formerly POLY-CARB, Inc.</i>								
Epoxy Pavement Marking	Mark-55.3	EPM-04	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 1	Lines and Other Uses	----
Epoxy Pavement Marking	Mark-55.3	EPM-04	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 4	Lines and Other Uses	----
Epoxy Pavement Marking	Mark-55.3	EPM-04	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 1	Lines Only	----
Epoxy Pavement Marking	Mark-55.3	EPM-04	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 4	Lines Only	----
SWAR3 15	Colorado Paint Company, the SWARCO Group, 4747 Holly Street, Denver, CO 80216 https://www.swarco.com/cpc								
Epoxy Pavement Marking	1180		White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Type E (Megalux Utah Blend) at 24lbs/gal.	Lines and Other Uses	2017-035Q
Epoxy Pavement Marking	1186		Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Type E (Megalux Utah Blend) at 24 lbs/gal.	Lines and Other Uses	2017-036Q



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Section 965: Preformed Thermoplastic Pavement Markings

965.2 Preformed Thermoplastic Pavement Markings

Last Revised: 7/9/2020

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color (Thermoplastic)	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
FLINT 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 115 Todd Court Thomasville, NC 27360								
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-02	White	Lighted Roadways Only	Asphalt	No	PT260	Lines and Other Uses	----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-02	White	Lighted and Unlighted Roadways	Concrete	No	PT260	Lines and Other Uses	----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-02	Yellow	Lighted Roadways Only	Asphalt	No	PT260	Lines and Other Uses	----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-02	Yellow	Lighted and Unlighted Roadways	Concrete	No	PT260	Lines Only	----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	PreMark (PM)	PTPM-02	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines and Other Uses	----



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Section 965: Preformed Thermoplastic Pavement Markings

965.2 Preformed Thermoplastic Pavement Markings

Last Revised: 7/9/2020

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color (Thermoplastic)	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
OZARK 15	Ozark Materials, LLC, 591 Glendale Avenue, Greenville, AL 36037 http://ozarkmaterials.net								
Preformed Thermoplastic Pavement Marking	Preformed Thermoplastic		White	Lighted and Unlighted Roadways	Asphalt and *Concrete	No		*Lines and **Other Uses	2018-075Q
<p><i>* For use as a Line on concrete surfaces, the preformed thermoplastic must be preheated before placing on concrete surface.</i></p> <p><i>** The preformed thermoplastic is NOT approved for Other Uses on concrete surfaces. The product is approved for both Lines and Other Uses on asphalt surfaces.</i></p>									

965.2 Preformed Thermoplastic Decorative Crosswalks (Conditionally Approved)

Last Revised: 9/18/2019

Per MUTCD, no glass beads are allowed for decorative crosswalks.

Product	Name	COA	Marking Color (Thermoplastic)	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
FLINT 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 115 Todd Court Thomasville, NC 27360								
Imprinted Aggregate Reinforced Decorative Crosswalk	TrafficPatternsXD		Non-Reflective White, Black, Brown, Silver-Gray, Maroon, or Tan	N/A	Asphalt	Yes, two-part epoxy sealer	N/A	Crosswalk Only, Offset Brick & Diagonal Herringbone Patterns	2016-248Q
<p><i>Conditionally approved per manufacturer's specifications (150 mil thickness, brick-looking stamped material). The stamping templates and StreetPrint/StreetHeat reciprocating infrared heating equipment is supplied by Ennis-Flint. TrafficPatterns XD Manufacturer's Specification</i></p>									
Interconnected Surface Applied Decorative Crosswalk	TrafficPatterns	PTPM-02	Non-Reflective White, Black, Brown, Silver-Gray, Maroon, or Tan	N/A	Asphalt and Concrete		N/A	Decorative Crosswalk	----



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Section 965: Preformed Thermoplastic Pavement Markings

965.2 Preformed Thermoplastic Decorative Crosswalks (Conditionally Approved)

Last Revised: 9/18/2019

Per MUTCD, no glass beads are allowed for decorative crosswalks.

Product	Name	COA	Marking Color (Thermoplastic)	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
FLINT 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 115 Todd Court Thomasville, NC 27360								
<i>Conditionally approved per manufacturer's specifications (125 mil thickness).</i>									



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Castings

Last Revised: 3/6/2017

Product	Name	COA	Direction	Ref. No.
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120			
	RPM Casting	101 LP	One Way / Two Way	----
	RPM Casting	101 LPS, Bridge Deck Only	One Way / Two Way	----
ENN-2 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 505 County Line Road Thomasville, NC 27630			
	RPM Casting	101 LP	One Way / Two Way	----
	RPM Casting	101 LPS, Bridge Deck Only	One Way / Two Way	----
RAYOL 15 Plant	Rayolite, 4500 N. Sam Houston Parkway West, Suite 120, Houston, TX 77086 http://www.rayolite.com/ 4500 N. Sam Houston Parkway West Suite 120 Houston, TX 77086			
	RPM Casting	H-1010 Low Profile (Narrow)	RPM-C2	One Way / Two Way
	RPM Casting	H-960 Low Profile	RPM-C2	One Way / Two Way

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recessed?	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
	RPM Reflector Unit	190	RPM-04	White / Blank	One Way	No
	RPM Reflector Unit	190	RPM-04	Yellow / Blank	One Way	No
	RPM Reflector Unit	190	RPM-04	White / Blank	Two Way	No
	RPM Reflector Unit	190	RPM-04	Yellow / Blank	Two Way	No
	RPM Reflector Unit	190	RPM-04	Red / White	Two Way	No
	RPM Reflector Unit	190	RPM-04	Red / Yellow	Two Way	No
	RPM Reflector Unit	190	RPM-04	Yellow / Yellow	Two Way	No
	RPM Reflector Unit	194	RPM-04	White / Blank	One Way	No



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recessed?	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/					
	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
	RPM Reflector Unit	194	RPM-04	Yellow / Blank	One Way	No ----
	RPM Reflector Unit	198	RPM-04	White / Blank	One Way	No ----
	RPM Reflector Unit	198	RPM-04	Yellow / Blank	One Way	No ----
	RPM Reflector Unit	198	RPM-04	White / Blank	Two Way	No ----
	RPM Reflector Unit	198	RPM-04	Yellow / Blank	Two Way	No ----
	RPM Reflector Unit	198	RPM-04	Red / White	Two Way	No ----
	RPM Reflector Unit	198	RPM-04	Red / Yellow	Two Way	No ----
	RPM Reflector Unit	198	RPM-04	Yellow / Yellow	Two Way	No ----
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/					
	1509 South Kaufman Street Ennis, TX 75120					
	RPM Reflector Unit	C40	RPM-01	Yellow / Yellow	Two Way	No 2006-049Q
	RPM Reflector Unit	C40	RPM-01	Yellow / Blank	One Way	No 2006-050Q
	RPM Reflector Unit	C40	RPM-01	White / Blank	One Way	No 2006-051Q
	RPM Reflector Unit	C40	RPM-01	Red / White	Two Way	No 2010-164QA
	RPM Reflector Unit	C40	RPM-01	Red / Yellow	Two Way	No 2010-164QB
	RPM Reflector Unit	C80 Nonsnowplowable	RPM-01	White / Blank	One Way	No 2013-019A
	RPM Reflector Unit	C80 Nonsnowplowable	RPM-01	Yellow / Yellow	Two Way	No 2013-019B
	RPM Reflector Unit	C80 Nonsnowplowable	RPM-01	Yellow / Blank	One Way	No 2013-019C



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recessed?	Ref. No.
ENN-2 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 505 County Line Road Thomasville, NC 27630					
	RPM Reflector Unit	C40	Yellow / Blank	One Way	No	----
	RPM Reflector Unit	C40	White / Blank	One Way	No	----
	RPM Reflector Unit	C40	Yellow / Yellow	Two Way	No	----
	RPM Reflector Unit	C40	Red / Yellow	Two Way	No	----
	RPM Reflector Unit	C40	Red / White	Two Way	No	----
	RPM Reflector Unit	C80 Nonsnowplowable	White / Blank	One Way	No	2013-019A
	RPM Reflector Unit	C80 Nonsnowplowable	Yellow / Yellow	Two Way	No	2013-019B
	RPM Reflector Unit	C80 Nonsnowplowable	Yellow / Blank	One Way	No	2013-019C
	RPM Reflector Unit	C80 Nonsnowplowable	Red / White	Two Way	No	2014-249QA
	RPM Reflector Unit	C80 Nonsnowplowable	Red / Yellow	Two Way	No	2014-249QB



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recessed?	Ref. No.	
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic 3110 70th Avenue East Tacoma, WA 98424						
	RPM Reflector Unit	Halftrack Nonsnowplowable	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Halftrack Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Halftrack Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	RPM Nonsnowplowable	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	RPM Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	RPM Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	TOM Nonsnowplowable	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	TOM Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	TOM Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	TRPM Nonsnowplowable	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	TRPM Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	TRPM Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recessed?	Ref. No.
RAYOL 15 Plant	Rayolite, 4500 N. Sam Houston Parkway West, Suite 120, Houston, TX 77086 http://www.rayolite.com/ 4500 N. Sam Houston Parkway West Suite 120 Houston, TX 77086					
RPM Reflector Unit	2002 B	RPM-05	White / White	One Way	Yes	----
RPM Reflector Unit	2002 C	RPM-05	Red / White	Two Way	Yes	----
RPM Reflector Unit	2002 D	RPM-05	Yellow / Yellow	One Way	Yes	----
RPM Reflector Unit	2002 G	RPM-05	White / Blank	One Way	Yes	----
RPM Reflector Unit	2002 H	RPM-05	Yellow / Blank	One Way	Yes	----
RPM Reflector Unit	2004	RPM-05	White / Blank	One Way	Yes	2011-078QA
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Red / White	Two Way	Yes	2011-078QB
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Yellow / Blank	One Way	Yes	2011-078QC
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Red / Yellow	Two Way	Yes	2011-078QD
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Yellow / Yellow	Two Way	Yes	2011-078QE
<i>Provisionally Approved</i>						
VEGA- 15	Vega Molded Products, Inc., 122 Industrial Drive, Gilberts, IL 60136 http://vegamoldedproducts.com/					
RPM Reflector Unit	CM Nonsnowplowable	RPM-03	White / Blank	One Way / Two Way	No	----
RPM Reflector Unit	CM Nonsnowplowable	RPM-03	Yellow / Blank	One Way / Two Way	No	----
RPM Reflector Unit	CM Nonsnowplowable	RPM-03	Yellow / Yellow	One Way / Two Way	No	----
RPM Reflector Unit	TPM Nonsnowplowable	RPM-03	White / Blank	One Way / Two Way	No	----
RPM Reflector Unit	TPM Nonsnowplowable	RPM-03	Yellow / Blank	One Way / Two Way	No	----
RPM Reflector Unit	TPM Nonsnowplowable	RPM-03	Yellow / Yellow	One Way / Two Way	No	----



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Posted:
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Section 1001: Cement Concrete Structures

1001.2(h)2 Metal Bridge Deck Forms

Last Revised: 7/9/2015

Steel Products Procurement Act applies.

ASTM A924/A924M and ASTM A653/A653M. [Standard Drawing BC-732M \(Publication 219M\)](#)

Product	Name	Grade	Ref. No.
BRIDS 15	Bridge Deck Solutions, LLC, 298 Cherry Hill Drive, Latrobe, PA 15650 http://bridgedecksolutions.com/ Metal Bridge Deck Form	Structural Steel (SS) 50, Class 2	2010-207Q
D-MAC 15	D-Mac Industries Inc., 1880 D-mac Drive, Alpharetta, GA 30004 http://www.d-macindustries.com/index.html Metal Bridge Deck Form	Structural Steel (SS) 40	1989-265
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	2013-035QAB
	Metal Bridge Deck Form	Structural Steel (SS) 80	2013-035QAB
EPIC- 15	Epic Metals Corporation, 11 Talbot Ave., Rankin, PA 15104 http://www.epicmetals.com/ Metal Bridge Deck Form	Structural Steel (SS) 40	1992-243
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	1992-243
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Metal Bridge Deck Form	Structural Steel (SS) 40	----
	Metal Bridge Deck Form	Classes 1 and 3 only	2014-204QB
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Metal Bridge Deck Form	Structural Steel (SS) 40	2014-204QA
	Metal Bridge Deck Form	Classes 1 and 3 only	2014-204QB
HALFE 15	Halferty Metals Company, 294 Bergman Road, Derry, PA 15627 Metal Bridge Deck Form	Structural Steel (SS) 40	2012-212QAB
	Metal Bridge Deck Form	Structural Steel (SS) 80	2012-212QAB



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Section 1001: Cement Concrete Structures

1001.2(h)2 Metal Bridge Deck Forms

Last Revised: 7/9/2015

Steel Products Procurement Act applies.

ASTM A924/A924M and ASTM A653/A653M. [Standard Drawing BC-732M \(Publication 219M\)](#)

Product	Name	Grade	Ref. No.
NMBS1 15	New Millennium Building Systems, 4900 Hungerford Rd., Memphis, TN 38118 https://www.newmill.com/ (Formerly Consolidated Systems, Inc. - CONS2 15)		
	Metal Bridge Deck Form	Structural Steel (SS) 33	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 37	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 40	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 80	1989-125
SIPDE 15	SIP Inc. of Delaware, 2204 Chestnut Street, P.O. Box 4347, Gadsden, AL 35904 http://wmsi.com/subsidiaries/sip/		
	Metal Bridge Deck Form	Structural Steel (SS) 33	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 37	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 40	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 80	2012-152Q
UNSDK 15	United Steel Deck, 14 Harmish Road, South Plainfield, NJ 07080 http://www.unitedsteel.com/		
	Metal Bridge Deck Form	Structural Steel (SS) 40	1985-024
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	1995-076



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Posted:
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Section 1002: Reinforcement Bars

1002.2(c) Mechanical Splice System

Last Revised: 8/27/2020

NOTE: Assemble mechanical splices per manufacturer's recommended procedure.

Assemble three splices for each size reinforcing bar plus an unassembled set of each size used. Submit to the LTS for testing to verify the procedure.

Product	Name	Bar Sizes	Ref. No.
BARSP 15	Barsplice Products, Inc., 4900 Webster Street, Dayton, OH 45430 http://www.barsplice.com/		
Mechanical Splice System	BPI Barsplicer System	# 4, 5, 6, 7, 8, 9, 10, 11	2000-204Q
Mechanical Splice System	BPI-Grip "BarGrip" System	4 - 18	1996-198
Mechanical Splice System	Taper Threaded Grip-Twist	# 4, 5, 6, 7, 8, 9, 10, 11, 14, 18	2006-042Q
Mechanical Splice System	ZAP Screwlok Type 2 Series	# 4, 5, 6, 7, 8, 9, 10, 11	1996-255
Mechanical Splice System	ZAP Screwlok Type 2 Series	# 18	2014-269Q
Mechanical Splice System	ZAP Screwlok Type 2 Series	# 14	2016-116Q
DAYT0 15	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/		
Mechanical Splice System	D250L Bar Lock L-Series Coupler	#3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 18	1992-351
	<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>		
Mechanical Splice System	DB/DI Splice Connector (D101A, D101)	4 - 18	1989-288
	<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>		
Mechanical Splice System	US/MC-SAE Rebar Splice (D110, D111, D112)	4 - 18	1994-219
DAYT2 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342 http://www.daytonsuperior.com/ Bellingham, WA		
Mechanical Splice System	D250L Bar Lock L-Series Coupler	# 3, 4, 5, 6, 7, 8, 9, 10, 11, 14	1992-351
	<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>		
Mechanical Splice System	DB/DI Splice Connector (D101A, D101)	4 - 18	1989-288
	<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>		
Mechanical Splice System	US/MC-SAE Rebar Splice (D110, D111, D112)	4 - 18	1994-219



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Section 1002: Reinforcement Bars

1002.2(c) Mechanical Splice System

Last Revised: 8/27/2020

NOTE: Assemble mechanical splices per manufacturer's recommended procedure.

Assemble three splices for each size reinforcing bar plus an unassembled set of each size used. Submit to the LTS for testing to verify the procedure.

Product	Name	Bar Sizes	Ref. No.
DAYT3 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342 http://www.daytonsuperior.com/ Tremont, PA 17981		
Mechanical Splice System	D250L Bar Lock L-Series Coupler	# 3, 4, 5, 6, 7, 8, 9, 10, 11, 14	1992-351
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>			
Mechanical Splice System	DB/DI Splice Connector (D101A, D101)	4 - 18	1989-288
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>			
Mechanical Splice System	US/MC-SAE Rebar Splice (D110, D111, D112)	4 - 18	1994-219
DAYT6 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/ Allentown, PA		
Mechanical Splice System	D310 Taper-Lock Standard Coupler	# 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 18	2018-018Q
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319 (Valid through 04/30/2021)</i>			
ERIC- 15	nVent, 34600 Solon Road, Solon, OH 44139 https://www.eric.com/lenton.asp Formerly Erico, Inc		
Mechanical Splice System	nVent Lenton Form Saver (SA) Coupler	4 - 11	2013-078Q
<i>IAPMO-UES Evaluation Report: nVent Lenton IAPMO-UES Evaluation Report Number: 0129 (Valid through 02/28/2021)</i>			
Mechanical Splice System	nVent Lenton Standard (A2) Coupler	# 4, 5, 6, 7, 8, 9, 10, 11, 14, 18	1996-118
<i>IAPMO-UES Evaluation Report: nVent Lenton IAPMO-UES Evaluation Report Number: 0129 (Valid through 02/28/2021)</i>			
MDSP2 15	Meadow Burke Products, 6467 S. Falkenburg Road, Riverview, FL 33578 http://meadowburke.com/		
Mechanical Splice System	Standard-Lok Coupler Mech. Splice System	4 - 18	2006-009Q
<i>RC-53 Smooth and RC-54 Smooth Flanged Per letter dated September 19, 2014: Meadow Burke has elected to suspend shipments to PennDOT temporarily.</i>			



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Section 1002: Reinforcement Bars

1002.2(c) Mechanical Splice System

Last Revised: 8/27/2020

NOTE: Assemble mechanical splices per manufacturer's recommended procedure.

Assemble three splices for each size reinforcing bar plus an unassembled set of each size used. Submit to the LTS for testing to verify the procedure.

Product	Name	Bar Sizes	Ref. No.
SSNA- 15 Plant	Splice Sleeve North America, 38777 West Six Mile Rd, Suite 205, Livonia, MI 48152 Easton, PA Mechanical Splice System	http://www.splicesleeve.com/ NMB Splice Sleeve with SS Mortar (Grout)	1995-102

1002.2(c) Epoxy Coaters of Mechanical Splice Couplers

Last Revised: 7/5/2016

Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

Product	Name	Ref. No.
MCOAT 15	Miamisburg Coating, 925 N. Main St., Miamisburg, OH 45342 Approved Epoxy Coater of Mechanical Splice Couplers	2013-242Q
SIMCT 15	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 Approved Epoxy Coater of Mechanical Splice Couplers	1985-022
UCOAT 15	Universal Coatings, 8511 Tower Drive, Twinsburg, OH 44087 Approved Epoxy Coater of Mechanical Splice Couplers <i>Electrostatic and Fluid Dip</i>	2014-240Q

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 7/12/2019

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
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Section 1002: Reinforcement Bars

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 7/12/2019

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.	
AZTEC 15 Aztec Concrete Accessories, Inc., 14760 Santa Ana Ave., Fontana, CA 92337	Rebar Support Bolster	Aztec E Z Lok Slab Bolster	2" and 2-1/2", Molded Plastic	1997-063
	Rebar Support Chair	Aztec E Z Chair	2", 2-1/2", 3", 4" and 5" Molded Plastic	1997-064
BIPCO 15 Bip Company, LLC, 901 Ne Gilsan Street, Portland, OR 97232 http://bipclipcompany.com/	Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#4 and #5 Rebar with 2" Cover	2013-007QA
	Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#6 Rebar with 2.5" Cover	2013-007QA
	Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#4 and #5 Rebar with 1.5", 2.5" and 3" Cover	2013-160Q
	Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#6 Rebar with 1.5", 3" and 4" Cover	2013-160Q
DAYT0 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/	Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters	Epoxy Coated	1985-013
	Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters, including SBU	Galvanized	1987-374B
	Rebar Support Chair	Galvanized HCM with Plastic Tips		1987-374A



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Section 1002: Reinforcement Bars

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 7/12/2019

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
GENTC 15	General Technologies, Inc., 13022 Trinity Drive, P.O. Box 1503, Stafford, TX 77477 http://www.gti-usa.net/		
Rebar Support Bolster	GTI Composite Slab and Beam Bolster - Black, Series 209	1", 2", 3", 4"	2009-039QB
Rebar Support Bolster	GTI Composite Slab and Beam Bolster - Grey, Series 215	1", 2", 3", 4"	2009-039QB
Rebar Support Bolster	GTI Composite Slab Bolster Upper, Series 260		2009-140
	<i>Top layer double mat support.</i>		
Rebar Support Chair	GTI Composite Bar Chair, Series 210	1", 2", 3", 4", 5", 6"	2009-039QE
Rebar Support Chair	GTI Composite High Chair, Series 208	7", 8", 9", 10"	2009-039QD
Rebar Support Chair	GTI Composite PC Chair, Series 216	1", 2", 3", 4", 5", 6", 7"	2009-039QF
Rebar Support Chair	GTI Extended High Chair, Series 211	11", 12", 13", 14", 15", 16", 17"	2009-039QC
HHHUL 15	H & H Hulls, Inc., 35 Industrial Tract, Hudson, NY 12534		
Rebar Support Chair	Q3 Void Chair	1"	2003-186Q
	<i>For use in box beam tops only.</i>		



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Section 1002: Reinforcement Bars

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 7/12/2019

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
MDSP1 15 Plant	Meadow Burke Products, 6467 S. Falkenburg Road, Riverview, FL 33578 http://meadowburke.com/ Humboldt Industrial Park 565 Oak Ridge Road Hazle Township, PA 18202		
	Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters	Epoxy Coated 2000-056Q
	Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters, including BB <i>Galvanized (BB) Beam Bolster originally approved per 1992-355.</i>	Galvanized 2000-058Q
VIMC- 15	Vimco, Inc., 300 Hansen Access Road, King of Prussia, PA 19406 http://vimcoinc.com/		
	Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters; including BB, BBU, CHC, CHCU, HC, SB, SBU	Epoxy Coated 2008-135Q
	Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters	Galvanized 1984-006
	Metal Reinforcing Bar Supports	Stainless Steel Chairs, Bolsters with Plastic Tips	Stainless 1984-006



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1005: Piles

1005.2(b) Cast-In-Place Concrete Piles (Steel Shells)

Manufacturers of cast-in-place piles (steel shells) must conform to Department Specifications, Publication 408, Section 1005.2(b).

1005.2(c) Steel H-Piles

Last Revised: 7/9/2015

The Companies listed in this Section are the owners of the designs/patterns only.

	Product	Name	Ref. No.
ASSPF 15	Associated Pile & Fitting Corporation, 8 WoodHollow Rd., Suite 102, Parsippany, NJ 07054-2829 http://www.associatedpile.com/		
	Steel H-Pile Tip	Hard Bite H-Pile Tip HP-77600-B	1994-286
	Steel H-Pile Tip	Hard Bite H-Pile Tip HP-77750-B	1994-286
	Steel H-Pile Tip	PAR-T Series H-Pile Points	1994-042
CONSC 15	Construction Supply Company, P. O. Box 1682, Tualatin, OR 97062		
	Steel H-Pile Tip	HT 3300 Series H-Pile Points	2004-053Q
VERST 15	Versa-Steel, Inc., 1618 NE 1st Avenue, Portland, OR 97219 http://www.versasteel.com/		
	Steel H-Pile Tip	VS-300 N Series H-Pile Points	2002-063Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1012: Pedestrian Railing

1012.2 Aluminum Pedestrian Railing

Last Revised: 3/8/2018

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Aluminum Pedestrian Railing Fabricator	2014-195QB
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Aluminum Pedestrian Railing Fabricator	1991-009B
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Aluminum Pedestrian Railing Fabricator	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Aluminum Pedestrian Railing Fabricator	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Aluminum Pedestrian Railing Fabricator	2017-046Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Pedestrian Railing Fabricator	2002-178Q
HALL2 15	Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Pedestrian Railing Fabricator	Assembly Only 2002-178Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Pedestrian Railing Fabricator	2017-029Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Aluminum Pedestrian Railing Fabricator	2011-101QA
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Pedestrian Railing Fabricator	2015-154QA



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Section 1013: Aluminum Bridge Railing

1013.2 Aluminum Bridge Railing

Last Revised: 3/9/2018

Product	Name	Ref. No.
ALUMS 15	Aluminum Shapes, Inc., 9000 River Rd., Delair, NJ 46218 http://www.shapesllc.com/ Aluminum Bridge Railing Fabricator	----
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Aluminum Bridge Railing Fabricator	2014-195QB
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Aluminum Bridge Railing Fabricator	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Aluminum Bridge Railing Fabricator	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Aluminum Bridge Railing Fabricator	2017-096Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Bridge Railing Fabricator	2002-178Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Bridge Railing Fabricator	2017-029Q
MAGND 15	Magnode Products, Inc., 400 East State St., Trenton, OH 45067 http://magnode.com/ Aluminum Bridge Railing Fabricator	----
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Aluminum Bridge Railing Fabricator	2011-101QB
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Bridge Railing Fabricator	2015-154QB



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Section 1013: Aluminum Bridge Railing

1013.2 Aluminum Bridge Railing

Last Revised: 3/9/2018

Product	Name	Ref. No.
RELCC 15	Reliable Casting Corporation, 3530 Spring Grove Avenue, Cincinnati, OH 45223 http://reliablecastings.com/ Aluminum Bridge Railing Fabricator	----
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Aluminum Bridge Railing Fabricator	2004-096Q



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Section 1014: Steel Bridge Railing

1014.2 Steel Bridge Railing

Last Revised: 11/26/2019

Steel Products Procurement Act applies.

Product	Name	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Steel Bridge Railing Fabricator	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ Steel Bridge Railing Fabricator	2015-023Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Steel Bridge Railing Fabricator	2014-195QC
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Steel Bridge Railing Fabricator	2011-160Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ Steel Bridge Railing Fabricator	2013-102Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> Steel Bridge Railing Fabricator	2010-249Q
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Steel Bridge Railing Fabricator	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Steel Bridge Railing Fabricator	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Steel Bridge Railing Fabricator	2017-097Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Steel Bridge Railing Fabricator	2002-178Q



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Section 1014: Steel Bridge Railing

1014.2 Steel Bridge Railing

Last Revised: 11/26/2019

Steel Products Procurement Act applies.

	Product	Name	Ref. No.
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 Steel Bridge Railing Fabricator	http://hallindustries.com/	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 <i>Formerly Brownsville Marine Products</i> Steel Bridge Railing Fabricator	https://www.hl-fabrication.com/	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 271 Industrial Lane Alum Bank, PA 15221 Steel Bridge Railing Fabricator	https://www.missioncriticalsolutions.com/	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Steel Bridge Railing Fabricator	http://peletwelding.com/	2010-015Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Steel Bridge Railing Fabricator	http://www.pennfab.com/	2015-154QC
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 Steel Bridge Railing Fabricator	https://www.pmwi.net/	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 Steel Bridge Railing Fabricator	http://precisioninc.net/	2016-204
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Steel Bridge Railing Fabricator		2016-281
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 Steel Bridge Railing Fabricator	http://www.rpsmachinery.com/	2004-016Q



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Section 1014: Steel Bridge Railing

1014.2 Steel Bridge Railing

Last Revised: 11/26/2019

Steel Products Procurement Act applies.

	Product	Name	Ref. No.
SSW-1 15	Shawnee Steel & Welding, 6124 Merriam Drive, Merriam, KS 66203 Steel Bridge Railing Fabricator		2017-187Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Steel Bridge Railing Fabricator		2015-142QA



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Section 1015: Protective Barrier

1015.2 Aluminum Protective Barrier

Last Revised: 9/29/2017

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Aluminum Protective Barrier Fabricator	2014-195QD
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Aluminum Protective Barrier Fabricator	1996-055
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Aluminum Protective Barrier Fabricator	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Aluminum Protective Barrier Fabricator	----
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Protective Barrier Fabricator	2011-267Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Protective Barrier Fabricator	2017-029Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Protective Barrier Fabricator	2015-154QD
WATSB 15	Watson Bowman Acme Corporation, 95 Pineview Drive, Amherst, NY 14228 https://wbacorp.com/ Aluminum Protective Barrier Fabricator	2006-073Q



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Section 1016: Protective Fence

1016.2(a)3 Protective Fence (Steel) Posts, Rails and Fittings (BC-701M)

Last Revised: 5/17/2017

	Product	Name	Ref. No.
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 Protective Fence Fabricator	http://rgsteel.com/	2010-017Q
SHAFC 15	Sharon Fence Company, 1 Miller Court, Sharon, PA 16146 Protective Fence Fabricator	http://www.sharonfence.com/	2011-044Q
SPSKY 15 Facility	Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 5975 South Highway 76 Russell Springs, KY 42642 Protective Fence Fabricator	http://www.spsfence.com/	2016-212Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(a) Boiled Linseed Oil (AASHTO M233)

Last Revised: 10/23/2019

See Section 503.2 for approved product listing.

Product	Name	Ref. No.
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1019.2(b) Epoxy Resins (For Abutments, Pier Caps and Endwalls)

Last Revised: 6/18/2020

Product	Name	Ref. No.
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GRVSC 15	Groco Specialty Coatings, 10818 Hawn Freeway, Dallas, TX 75217 http://www.grocosc.com/	
	Epoxy Resins (For Abutments, Pier Caps and Endwalls) <i>Required Primers: Si-Prime</i> <i>Conditionally approved as an alternate per manufacturer's specifications and usage guidelines. Effective 6/15/2020, Groco Specialty Coatings is no longer manufacturing Si-Rex03 Silicone or the required primer. This product has a shelf life of 1 year. A new manufacturer for the Si-Rex03 Silicone coating and primer is under evaluation.</i>	Si-Rex03 Silicone 2009-074

UNICO 15	United Coatings, 2810 S. 18th Place, Phoenix, AZ 85034	
	Epoxy Resins (For Abutments, Pier Caps and Endwalls) <i>Approved as an aesthetic coating, not a protective coating.</i> <i>Conditionally approved as an alternate per manufacturer's specifications and usage guidelines.</i>	Canyon Tone Stain 2011-156

1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces)

Last Revised: 11/2/2020

AASHTO T259 and T260, FHWA RD 78-35, Section 4.B.77

The use of some penetrating sealers may affect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or pedestrian traffic.

Product	Name	Ref. No.
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ADVCT 15	Advanced Chemical Technologies, Inc., 9608 N Robinson Avenue, Oklahoma City, OK 73114 http://www.advchemtech.com/	
	Penetrating Sealer, Organo-Silicon Compounds in Solvents	SIL-ACT ATS-100LV 2012-114Q
AQURN 15	Aquron Corporation, P.O. Box 758, Rockwall, TX 75087 http://www.aquron.com/	
	Penetrating Sealer, Silicates in Water	Aquron CPT-2000 2000-298Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces)

Last Revised: 11/2/2020

AASHTO T259 and T260, FHWA RD 78-35, Section 4.B.77

The use of some penetrating sealers may affect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or pedestrian traffic.

	Product	Name	Ref. No.
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 Penetrating Sealer, Organo-Silicon Compounds in Water <i>Effective 10/30/2020, the new supplier code for MasterProtect H 400 is MBS-4 15.</i>	https://www.basf.com/us/en.html MasterProtect H 400 (previously Enviroseal 40)	1987-129
BASBS115	BASF Corporation Building Systems, 23930 Concord Ave., Mattawan, MI 49071 <i>Effective October 30, 2020, new supplier code is MBS10 15</i>	https://www.basf.com/us/en.html MasterProtect H 1000 (previously Hydrozo 100)	2011-227Q
CONSE 15	Concrete Sealants, Inc., 9325 State Route 201, Tipp City, OH 45371	http://www.conseal.com/ ConBlock SH	2012-129Q
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799	http://www.euclidchemical.com/ Baracade WB 244	1999-185Q
EVONK 15 Plant	Evonik Corporation, 299 Jefferson Road, Parsippany, NJ 07054 4201 Degussa Road Theodore, AL 36590	http://corporate.evonik.com/en/Pages/default.aspx Protectosil BHN	2014-005Q
MBS-4 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 6450 Bristol Pike Levittown, PA 19057 <i>Formerly BASF Construction Chemicals (BAS-4 15)</i>	https://www.master-builders-solutions.com/en-us MasterProtect H 400 (previously Enviroseal 40)	1987-129
MBS10 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 23930 Concord Avenue Mattawan, MI 49071 <i>Formerly BASF Building Systems (BASBS115)</i>	https://www.master-builders-solutions.com/en-us MasterProtect H 1000 (previously Hydrozo 100)	2011-227Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces)

Last Revised: 11/2/2020

AASHTO T259 and T260, FHWA RD 78-35, Section 4.B.77

The use of some penetrating sealers may affect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or pedestrian traffic.

	Product	Name	Ref. No.
PROS1 15	Prosoco, Inc., 3741 Greenway Circle, Lawrence, KS 66046 http://www.prosoco.com/ Penetrating Sealer, Silicates in Water	Consolideck Saltguard WB	1999-140Q
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Acquired by ChemMasters, Inc.</i> Penetrating Sealer, Organo-Silicon Compounds in Solvents Penetrating Sealer, Organo-Silicon Compounds in Solvents	Vexcon Certi-Penseal 244 100% Vexcon Powerseal 40	2012-202Q 2010-146QB
WKTEK 15	Wicktek, Inc., 103 General Braddock Drive, Braddock, PA 15104 http://wicktek.com/ Penetrating Sealer, Silicates in Water	DensiCrete	1995-049
XYPEX 15	Xypex Chemical Corporation, 13731 Mayfield Place, Richmond, British Columbia, Canada V6V 2G9 http://www.xypex.com/ Penetrating Sealer, Silicates in Water <i>Alternate (solid concentrate mixed on job, not liquid form)</i>	Xypex Concentrate (C500)	2002-019Q

1019.2(d) Penetrating Sealers (For Bridge Superstructure)

Last Revised: 11/2/2020

NCHRP 244 Test as described in Publication 408.

	Product	Name	Ref. No.
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html Penetrating Sealer (For Bridge Superstructure), Organo-Silicon in Water <i>Effective 10/30/2020, the new supplier code for MasterProtect H 400 is MBS-4 15.</i>	MasterProtect H 400 (previously Enviroseal 40)	1987-129
BASBS115	BASF Corporation Building Systems, 23930 Concord Ave., Mattawan, MI 49071 https://www.basf.com/us/en.html <i>Effective October 30, 2020, new supplier code is MBS10 15</i> Penetrating Sealer (For Bridge Superstructure), Organo-Silicon Compounds in Solvents	MasterProtect H 1000 (previously Hydrozo 100)	2011-227Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(d) Penetrating Sealers (For Bridge Superstructure)

Last Revised: 11/2/2020

NCHRP 244 Test as described in Publication 408.

	Product	Name	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 Penetrating Sealer (For Bridge Superstructure), Silicates in Water	http://www.euclidchemical.com/ Barcade WB 244	1999-185Q
MBS-4 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 6450 Bristol Pike Levittown, PA 19057 <i>Formerly BASF Construction Chemicals (BAS-4 15)</i> Penetrating Sealer (For Bridge Superstructure), Organo-Silicon in Water	https://www.master-builders-solutions.com/en-us MasterProtect H 400 (previously Enviroseal 40)	1987-129
MBS10 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 23930 Concord Avenue Mattawan, MI 49071 <i>Formerly BASF Building Systems (BASBS115)</i> Penetrating Sealer (For Bridge Superstructure), Organo-Silicon Compounds in Solvents	https://www.master-builders-solutions.com/en-us MasterProtect H 1000 (previously Hydrozo 100)	2011-227Q



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Section 1020: Tooth Expansion Dam with Drain Trough

1020.2 Tooth Expansion Dam Fabricators

Last Revised: 11/26/2019

Product	Name	Ref. No.
ACKBAY15 Tooth Expansion Dam Fabricator	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/	2018-282Q
BROWD 15 Tooth Expansion Dam Fabricator	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/	2010-080Q
FOST2 15 Tooth Expansion Dam Fabricator	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/	----
KARDW 15 Tooth Expansion Dam Fabricator	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865	2007-001Q
MCS-1 15 Facility Tooth Expansion Dam Fabricator	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221	2019-131Q
OHSTR 15 Plant Tooth Expansion Dam Fabricator	Ohio Structures, Inc., 4030 Boardman Canfield Road, Suite 200 D, Canfield, OH 44406 https://www.ohiostructures.com/ 6120 Pricetown Road Berlin Center, OH 44401	2013-230Q
PELET 15 Tooth Expansion Dam Fabricator	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/	2009-042Q
RP-MA 15 Tooth Expansion Dam Fabricator	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/	----
SAFGD 15 Plant Tooth Expansion Dam Fabricator	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209	----



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Section 1020: Tooth Expansion Dam with Drain Trough

1020.2 Tooth Expansion Dam Fabricators

Last Revised: 11/26/2019

Product	Name	Ref. No.
WATSB 15	Watson Bowman Acme Corporation, 95 Pineview Drive, Amherst, NY 14228 https://wbacorp.com/ Tooth Expansion Dam Fabricator	-----

1020.2(h) Drain Trough Material for Tooth Expansion Dams

Last Revised: 10/8/2015

Product	Name	Ref. No.
BRPMF 15	BRP Manufacturing Company, 637 North Jackson St., P.O. Box 389, Lima, OH 45802-0389 http://www.brpmfg.com/ Fabric Reinforced Rubberized Trough Material	Nitrile Draintrough Material 2006-227Q
FABRK 15	Fabreeka International, Inc., 1023 Turnpike Street, P. O. Box 210, Stroughton, MA 02072 http://www.fabreeka.com/ Fabric Reinforced Rubberized Trough Material	Fabric-Elastomer Trough Material 1985-015
HBD-1 15	HBD/Thermoid, Inc., 240 Industrial Lane, P.O. Box 4310, Oneida, TN 37841 http://www.hbdthermoid.com/ Fabric Reinforced Rubberized Trough Material	2 Ply PNT 45 Black Nitrile 3/64 - Draintrough 2010-134Q



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Section 1022: Steel Bridge Hand Railing

1022.2 Steel Bridge Hand Railing (BC-720M or Alternate BC-718M)

Last Revised: 11/26/2019

Product	Name	Reference Letter	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Steel Bridge Hand Railing Fabricator		2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ Steel Bridge Hand Railing Fabricator		2015-022Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Steel Bridge Hand Railing Fabricator		2014-195QE
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Steel Bridge Hand Railing Fabricator Steel Bridge Hand Railing Fabricator		2011-158Q 2011-159Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ Steel Bridge Hand Railing Fabricator		2006-196Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ Steel Bridge Hand Railing Fabricator		2011-193Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> Steel Bridge Hand Railing Fabricator		2010-250Q
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ Steel Bridge Hand Railing Fabricator		2009-021Q
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Steel Bridge Hand Railing Fabricator	07/19/1996	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Steel Bridge Hand Railing Fabricator	07/19/1996	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Steel Bridge Hand Railing Fabricator		2017-100Q



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Section 1022: Steel Bridge Hand Railing

1022.2 Steel Bridge Hand Railing (BC-720M or Alternate BC-718M)

Last Revised: 11/26/2019

Product	Name	Reference Letter	Ref. No.
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Steel Bridge Hand Railing Fabricator		2002-178Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Steel Bridge Hand Railing Fabricator		2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> Steel Bridge Hand Railing Fabricator		2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Steel Bridge Hand Railing Fabricator Steel Bridge Hand Railing Fabricator		2019-131Q 2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Steel Bridge Hand Railing Fabricator		2010-015Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Steel Bridge Hand Railing Fabricator		2015-154QE
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ Steel Bridge Hand Railing Fabricator		2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ Steel Bridge Hand Railing Fabricator		2016-204
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Steel Bridge Hand Railing Fabricator		2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ Steel Bridge Hand Railing Fabricator		2012-248



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Section 1022: Steel Bridge Hand Railing

1022.2 Steel Bridge Hand Railing (BC-720M or Alternate BC-718M)

Last Revised: 11/26/2019

Product	Name	Reference Letter	Ref. No.
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740	http://www.rpsmachinery.com/	
	Steel Bridge Hand Railing Fabricator		2004-016Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701		
	Steel Bridge Hand Railing Fabricator		2015-142QB
VAL-2 15	Valmont Specialty Structures/Plymouth, 1545 Pidco Drive, Plymouth, IN 46563	http://www.valmont.com/	
	Steel Bridge Hand Railing Fabricator		2007-181Q



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Section 1023: Aluminum Bridge Hand Railing

1023.2 Aluminum Bridge Hand Railing (BC-720M)

Last Revised: 5/9/2019

Product	Name	Reference Letter	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Aluminum Bridge Hand Railing Fabricator		2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Aluminum Bridge Hand Railing Fabricator		2014-195QF
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Aluminum Bridge Hand Railing Fabricator		1991-009C
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Aluminum Bridge Hand Railing Fabricator	07/19/1996	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Aluminum Bridge Hand Railing Fabricator	07/19/1996	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Aluminum Bridge Hand Railing Fabricator		2017-101Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Bridge Hand Railing Fabricator		2002-178Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Bridge Hand Railing Fabricator		2017-029Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Aluminum Bridge Hand Railing Fabricator		2011-101QC
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Bridge Hand Railing Fabricator		2015-154QF
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Aluminum Bridge Hand Railing Fabricator		2004-096Q



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Section 1023: Aluminum Bridge Hand Railing

1023.2 Aluminum Bridge Hand Railing (BC-720M)

Last Revised: 5/9/2019

Product	Name	Reference Letter	Ref. No.
VAL-2 15	Valmont Specialty Structures/Plymouth, 1545 Pidco Drive, Plymouth, IN 46563 http://www.valmont.com/ Aluminum Bridge Hand Railing Fabricator		2007-180Q



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Section 1026: Neoprene Strip Seal Dam

Strip Seal Expansion Joint Retainer Drawings: [Approved Bridge and Structure Products](#)

1026.2 Neoprene Strip Seal Dam (Strip Seal Retainers)

Last Revised: 7/17/2017

BC-767 Sheet 2 of 5

Product	Name	Retainer ID/Shop Drawing #	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	Neoprene Strip Seal Dam (Strip Seal Retainer)	SSPA02SC	----
	Neoprene Strip Seal Dam (Strip Seal Retainer) 1.5" depth per SOL 431-97-23	SSE2M	1996-196
	Neoprene Strip Seal Dam (Strip Seal Retainer) 2" depth per SOL 431-97-23	SSA2	1996-195
WATRJ 15	R. J. Watson, Inc., 11035 Walden Avenue, Alden, NY 14007 http://www.rjwatson.com/		
	Neoprene Strip Seal Dam (Strip Seal Retainer)	SV-400	1992-039
	Neoprene Strip Seal Dam (Strip Seal Retainer)	PADOT 92-280-PEQ	1992-280
WATSB 15	Watson Bowman Acme Corporation, 95 Pineview Drive, Amherst, NY 14228 https://wbacorp.com/		
	Neoprene Strip Seal Dam (Strip Seal Retainer)	C-11382	----
	Neoprene Strip Seal Dam (Strip Seal Retainer)	C-12164	1992-027
	Neoprene Strip Seal Dam (Strip Seal Retainer)	C-14398	1992-327

1026.2(a) Neoprene Strip Seal Dam (Fabricators)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate Neoprene Strip Seal Dam as defined by BC 767M

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/			
	Neoprene Strip Seal Dam Fabricator	Baltimore	MD	2018-282Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/			
	Neoprene Strip Seal Dam Fabricator	North Baltimore	OH	2006-198Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/			
	Neoprene Strip Seal Dam Fabricator	Bedford	PA	----
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/			
	Neoprene Strip Seal Dam Fabricator	Elwood	PA	2012-175Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/			
	Neoprene Strip Seal Dam Fabricator	Ellwood City	PA	2017-029Q



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Section 1026: Neoprene Strip Seal Dam

1026.2(a) Neoprene Strip Seal Dam (Fabricators)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate Neoprene Strip Seal Dam as defined by BC 767M

	Product	Name	Plant City	Plant State	Ref. No.
MAGE1 15 Facility	mageba USA LLC, 575 Lexington Ave, 4th Floor, New York 10022 Pottstown, PA Neoprene Strip Seal Dam Fabricator	http://www.magebausa.com/	Pottstown	PA	2018-021Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 271 Industrial Lane Alum Bank, PA 15221 Neoprene Strip Seal Dam Fabricator	https://www.missioncriticalsolutions.com/	Alum Bank	PA	2019-131Q
NIABR 15	Niagara Bridge & Rail, 2212 Cory Drive, Sanborn, NY 14132 Neoprene Strip Seal Dam Fabricator	http://nbfab.com/	Sanborn	NY	2018-048Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Neoprene Strip Seal Dam Fabricator	http://peletwelding.com/	Coatesville	PA	2017-315Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 Neoprene Strip Seal Dam Fabricator	http://www.rpsmachinery.com/	Jersey Shore	PA	----
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 220 Lincoln Avenue Pittsburgh, PA 15209 Neoprene Strip Seal Dam Fabricator	http://www.safetyguardsteel.com/	Millvale	PA	----
WATSB 15	Watson Bowman Acme Corporation, 95 Pineview Drive, Amherst, NY 14228 Neoprene Strip Seal Dam Fabricator	https://wbacorp.com/	Amherst	NY	----



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Section 1031: Timber Structures

1031.2(a) Structural Timber

Last Revised: 9/29/2015

Product	Name	Ref. No.
ALAWP 15	Alamco Wood Products, Inc., 1410 West Ninth Street, Albert Lea, MN 56007 http://www.alamcowood.com/ Softwood (Glue Laminated)	2000-236Q
AMETS 15	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/ Softwood (Non-Laminated) Timber Treater Facility	1995-268 -----
BELLP 15	Bell Lumber & Pole Company, P.O. Box 120786, New Brighton, MN 55112-0024 http://www.blpole.com/ Timber Treater Facility	1999-110Q
KOPRS 15	Koppers Industries, Inc., 50 Koppers Lane, Montgomery, PA 17752 http://www.koppers.com/locations/susquehanna-plant Timber Treater Facility	1999-194Q
NORSO 15	North-South Wood Preserving Company, 160 Preserver Road, North, SC 29112 Timber Treater Facility	2012-116Q
RIGID 15	Rigidply Rafters, Inc., 701 East Linden Street, Richland, PA 17087 http://www.rigidply.com/ Softwood (Glue Laminated) Softwood (Mechanically Laminated)	1999-176Q ----- 1999-176Q
STEJ2 15	Stella-Jones Corporation, R.R. 3, P. O. Box 275, Dubois, PA 15801 http://stella-jones.com/ <i>Formerly Burke-Parsons-Bowby Corp. (BURPB 15)</i> Timber Treater Facility	2002-079Q



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Section 1043: Shotcrete

1043.2(a) Shotcrete

Last Revised: 11/2/2020

Product	Name	Ref. No.
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html	
Shotcrete (Pre-Packaged)	MasterEmaco S211 SP	2012-018Q
<i>Conditionally Approved. Effective 10/30/2020, the new primary supplier code for MasterEmaco S211 SP is MBS11 15. It is also manufactured at MBS12 15.</i>		
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/	
Shotcrete (Pre-Packaged)	Eucoshot	2007-079Q
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/	
Shotcrete (Pre-Packaged)	SureShot	2010-065
MBS11 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 9658 State Route 43 Streetsboro, OH 44241 <i>Formerly BASF Building Systems (BASBS 15)</i>	
Shotcrete (Pre-Packaged)	MasterEmaco S211 SP	2012-018Q
<i>Conditionally Approved</i>		
MBS12 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 7100 Wright Road Houston, TX 77041 <i>Formerly BASF Building Systems (BASBS 15)</i>	
Shotcrete (Pre-Packaged)	MasterEmaco S211 SP	2012-018Q
<i>Conditionally Approved. Product is also manufactured in Streetsboro, OH (MBS 11 15).</i>		
QUIKR 15 Plant	The Quikrete Companies, One Securities Centre, 3490 Piedmont Road, N.E. Suite 1300, Atlanta, GA 30305 http://www.quikrete.com/ Latrobe, PA	
Shotcrete (Pre-Packaged)	Commercial Grade QUIKRETE Shotcrete MS	2002-014Q
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302	
Shotcrete (Pre-Packaged)	Sikacem 103	2018-097Q



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Section 1043: Shotcrete

1043.2(a) Shotcrete

Last Revised: 11/2/2020

	Product	Name	Ref. No.
US CPR 15 Plant	US Concrete Products, 16 Green Meadow Drive, Suite 202, Timonium, MD 21093 Baltimore, MD	http://www.uscproducts.com/	
	Shotcrete (Pre-Packaged)	GUNITE 7001d (dry-mix)	2010-296



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Section 1046: Epoxy Overlay

1046.2(a) Polymeric Resin Binder

Last Revised: 10/29/2020

For contracts let prior to April 10, 2020 (Pub 408, 2020 Initial Edition), see ECMS Provisional Specification: c10431 ITEM 9043-2101 (ITEM 9043-0101) Epoxy-based Surface Treatment for Bridge Decks. Products formerly listed in MISC Epoxy Based Surface Treatment for Bridge Decks.

	Product	Name	Ref. No.
CARG1 15	Cargill, Inc., 15407 McGinty Road West, Wayzata, MN 55391 Epoxy Based Surface Treatment System for Bridge Decks <i>Cargill's limestone aggregate must be used and is classified as a Skid Resistance Level (SRL M). System can only be used on roads meeting the Average Daily Traffic (ADT) of 3,000 vehicles or less. Conditionally Approved as an alternate per manufacturer's specifications.</i>	https://www.cargill.com/industrial/winter-road-maintenance/safelane-surface-overlay Safelane Surface Overlay System	2007-034
CCMAT 15 Facility	Cornerstone Construction Material, LLC, 1618 East Elm Street, Harrisonville, MO 64701 101 East Walnut Street Archie, MO 64725 Epoxy Resin Binder <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	http://ccmaterial.com CE330 Epoxy Binder	2014-086A
EBOND 15	E-Bond Epoxies, Inc, 501 N.E. 33rd Street, Ft. Lauderdale, FL 33334 Epoxy Resin Binder <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	http://ebondepoxies.com/ E-Bond 526	2013-011
ECHEM 15	E-Chem, LLC, 4102 El Rey Road SE, Albuquerque, NM 87105 Epoxy Resin Binder <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	http://www.e-chem.net EPX50-Overlay	2014-127MA
	Epoxy Resin Binder <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	EPX50-Overlay Fast	2018-199
EUCL2 15 Plant	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 3835 State Route 72 Kirkland, IL 60146 Epoxy Resin Binder <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	http://www.euclidchemical.com/ Flexolith UR	2013-005
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 Epoxy Resin Binder <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	http://www.euclidchemical.com/ Flexolith	1994-231



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Section 1046: Epoxy Overlay

1046.2(a) Polymeric Resin Binder

Last Revised: 10/29/2020

For contracts let prior to April 10, 2020 (Pub 408, 2020 Initial Edition), see ECMS Provisional Specification: c10431 ITEM 9043-2101 (ITEM 9043-0101) Epoxy-based Surface Treatment for Bridge Decks. Products formerly listed in MISC Epoxy Based Surface Treatment for Bridge Decks.

Product	Name	Ref. No.
KWIK1 15	Kwik Bond Polymers, 923 Teal Drive, Benicia, CA 94510 http://www.kwikbondpolymers.com	
Epoxy Resin Binder	PPC-HFST	2013-197B
<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>		
MAPEIB15 Plant	MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/ Garland, TX	
Epoxy Resin Binder	Planiseal Traffic Coat	2017-276
<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>		
P3INF 15	P3 Infrastructure, Inc., 2146 Enterprise Parkway, Suite C, Twinsburg, OH 44087 http://www.p3-i.com/	
Epoxy Resin Binder	Impervious ME	2015-090M
<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>		
POLYC 15 Plant	Olin Epoxy-POLY-CARB, 8440 Tower Dr., Twinsburg, OH 44087 http://www.poly-carb.com/ 125 Industrial Park Rd. Roberta, GA 31078 <i>Formerly POLY-CARB, Inc.</i>	
Epoxy Resin Binder	Flexogrid (Mark-163)	2000-168Q
<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>		
Epoxy Resin Binder	Mark-154 PA	2008-140Q
<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>		
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302	
Epoxy Resin Binder	Sikadur 22, Lo-Mod FS	2015-007MB
<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>		



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Section 1046: Epoxy Overlay

1046.2(a) Polymeric Resin Binder

Last Revised: 10/29/2020

For contracts let prior to April 10, 2020 (Pub 408, 2020 Initial Edition), see ECMS Provisional Specification: c10431 ITEM 9043-2101 (ITEM 9043-0101) Epoxy-based Surface Treatment for Bridge Decks. Products formerly listed in MISC Epoxy Based Surface Treatment for Bridge Decks.

	Product	Name	Ref. No.
TRASA 15	Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/		
	Epoxy Based Surface Treatment System for Bridge Decks <i>Conditionally Approved as an alternate per manufacturer's specifications. T-48 Polysulfide Epoxy Overlay Technical Data Sheet</i>	T-48 Polysulfide Epoxy Overlay System	2006-046Q
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
	Epoxy Based Surface Treatment System for Bridge Decks <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	Pro-Poxy Type III DOT	2007-002Q
	Epoxy Based Surface Treatment System for Bridge Decks <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 10/29/2022.</i>	Pro-Poxy Type III DOT LT	2017-157



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Section 1047: Polyester Polymer Concrete (PPC) Overlay

1047.2(d) Polyester Polymer Concrete (PPC)

Last Revised: 9/27/2019

For projects let on or after October 2, 2020, see Pub 408/2020 Change No. 1.

For projects let before October 2, 2020, see Standard Special Provision a00091 Changes to Specifications: Section 1047 [Concrete Deck Overlays - Usage Guidelines](#)

Product	Name	Ref. No.
KWIK1 15 Kwik Bond Polymers, 923 Teal Drive, Benicia, CA 94510 http://www.kwikbondpolymers.com	PPC 1121 EC	2015-900
Polyester Polymer Concrete <i>Provisionally approved per Standard Special Provision b10451 SECTION 1045 - POLYESTER POLYMER CONCRETE (PPC) OVERLAY and usage guidelines per Pub 15M - Design Manual, Part 4 (DM-4), Chapter 5, Section 5.6.4. Concrete Deck Overlays - Usage Guidelines</i>		



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Section 1051: Downspouting

1051.2 Downspouting

Last Revised: 7/9/2015

	Product	Name	Ref. No.
BELCO 15	Belco Manufacturing, Inc., P.O. Box 210, Belton, TX 76513 http://www.belco-mfg.com/ Downspouting	Bridgeline Fiberglass Downspouting	2013-033Q
GRACO 15	Grace Composites, 351 Ruth Road, Lonoke, AR 72086 Downspouting	Fiberglass Downspouting	2005-117Q
HARVL 15	Georg Fischer Harvel LLC, 300 Kuebler Road, Forks Twp., Easton, PA 18040 http://www.harvel.com/ <i>Formerly Harvel Plastics Inc.</i> Downspouting	PVC Downspouting	2001-107Q
UNIFG 15	United Fiberglass of America, 2145 Airpark Drive, Springfield, OH 45502 http://www.unitedfiberglass.com/ Downspouting	Fiberglass Downspouting	2012-127Q



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Section 1060: Shop Painting Structural Steel

1060.2 Coating System for Structural Steel

Last Revised: 6/28/2018

NEPCOAT Approved and Maintained paint systems. ([NEPCOAT - Northeast Protective Coating Committee](#))

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

Product	Name	Primer Coat	VOC (g/L)	Intermediate Coat	VOC (g/L)	Finish Coat	VOC (g/L)	NEPCOAT Number	Ref. No.
CARBL 15	Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/								
	Three Coat Paint System (using Inorganic, Zinc-Rich Primer) <i>Plants in Lake Charles, LA and Green Bay, WI</i>	Carbozinc 11 HS	267	Carboguard 893	207	Carbothane 133 LV	255	SCC(12) -03	2014-208QA BC



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Posted:
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Section 1070: Painting Existing Structural Steel

1070.2 Coating System for Existing Structural Steel

Last Revised: 7/17/2019

NEPCOAT Approved and Maintained paint systems. ([NEPCOAT - Northeast Protective Coating Committee](#))

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

Product	Name	Primer Coat	VOC (g/L)	Intermediate Coat	VOC (g/L)	Finish Coat	VOC (g/L)	NEPCOAT Number	Ref. No.
CARBL 15	Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/								
	Three Coat Paint System (using Organic, Zinc-Rich Primer)	Carbonzinc 859	322	Carboguard 893	207	Carbothane 133 VOC	316	SSC(12)-04	2015-037QA BC
	<i>Plants in Lake Charles, LA, Green Bay, WI, and Dayton, NV</i>								
SHERO 15	The Sherwin-Williams Company, Protective & Marine Coatings, 101 West Prospect Avenue, Cleveland, OH 44115 https://protective.sherwin-williams.com/								
	Three Coat Paint System (using Organic, Zinc-Rich Primer)	Zinc Clad 4100	319	Macropoxy 646 FC	265	Hi-Solids Polyurethane 250	289	SSC(15)-07	2018-054Q
	<i>Primer Plants: Andover, KS, Greensboro, NC - Stagecoach</i>								
	<i>Intermediate Plants: Andover, KA, Victorville, CA, and Greensboro, NC - Howard</i>								
	<i>Finish Plants: Andover, KS, Cincinnati, OH, and Richmond, KY</i>								



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Section 1071: Spot/Zone Maintenance Painting of Existing Structural Steel

1071.2 Field Maintenance Structural Paint Systems (Aluminum-Filled Mastic)

Last Revised: 8/6/2018

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

Product	Name	Primer Coat	Primer VOC (g/L)	Intermediate Coat (g/L)	Intermediate VOC (g/L)	Finish Coat	Finish VOC	Ref. No.
CARBL 15	Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146		http://www.carboline.com/					
	Three Coat Paint System (Aluminum-Filled Mastic)	Carbomastic 15	242	Carbomastic 15	242	Carbothane 134HS	336	----
	Three Coat Paint System (Aluminum-Filled Mastic)	Carbomastic 90	245	Carbomastic 90	245	Carbothane 134HS	336	----
PPG-1 15	PPG - Protective & Marine Coatings, 11605 Vimy Ridge Road, Little Rock, AR 72219		http://www.ppgpmc.com/Home.aspx					
	Three Coat Paint System (Aluminum-Filled Mastic)	Amerlock 400 AL	240	Amerlock 400 AL	240	Amercoat 450 HS	340	----

1071.2 Field Maintenance Structural Paint Systems (Non-Zinc Primer)

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

1071.2 Field Maintenance Structural Paint Systems (Organic Zinc Primer)

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout (Cement-Based)

Last Revised: 11/2/2020

Product	Name	Ref. No.
5STAR 15 Five Star Products, Inc., 750 Commerce Drive, Fairfield, CT 06825 http://www.fivestarprouducts.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	5 Star Grout	1970-012
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	5 Star Instant Grout	1976-060
ADMXT 15 Admixtures, Inc., 200 Furnace Road, P. O. Box 225, Wernersville, PA 19565-0225		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	BC Grout	1976-053
BASBS 15 BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>Effective 10/30/2020, the primary new supplier code for MasterFlow 100 is MBS11 15. It is also manufactured at MBS-7 15 & MBS12 15.</i>	MasterFlow 100 (previously Construction Grout)	2007-097Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>Effective 10/30/2020, the new supplier code for MasterFlow 713 is MBS11 15.</i>	MasterFlow 713	1976-006
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>Effective 10/30/2020, the new supplier code for MasterFlow 816 is MBS11 15.</i>	MasterFlow 816	1975-005
CGM-N 15 CGM Inc., 1463 Ford Road, Bensalem, PA 19020 http://cgmbuildingproducts.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Pro-Grout 90	1987-083
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Conset Grout	1992-241
CONSM 15 Concrete Service Materials Company, Elm & Walnut St., P. O. Box 447, Conshohocken, PA 19428-0447 http://www.concreteservicematerials.com/		
Premixed, Nonshrink Grout (Metallic Grout Admixture)	CSMC Shrink Proof Grout	----
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Diamondcrete	1972-067



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout (Cement-Based)

Last Revised: 11/2/2020

Product	Name	Ref. No.
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	1107 Advantage Grout	2019-212Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Sure-Grip High Performance Grout	1982-094
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Sure-Grip Precision Grout (formerly Multi-Purpose Grout)	1986-040
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Suregrip Util.	1991-055
EUCLD 15 Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Euco Cable Grout PTX	2004-008Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Euco NS Grout	1976-019
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Hi-Flow Grout	2002-152Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	NC Grout	2000-281Q
GILLI 15 Gill Industries, Inc., 3462 Kershaw-Camden Highway, Lancaster, SC 29720 http://www.gill-industries.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Gill 33B&P	1972-050
HBFUL 15 H. B. Fuller Construction Products Inc., 1200 Willow Lake Boulevard, St. Paul, MN 55110-5101 http://www.hbfuller.com/ Plant 59 Brunswick Avenue Edison, NJ 08817		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	ProSpec High Strength Precision Grout	1972-054
IPA-S 15 IPA Systems, Inc., 2745 North Amber St., Philadelphia, PA 19134 http://ipasystems.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Penn Grout	1975-079
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Premixed, Nonshrink Grout (Metallic, Non-Staining)	Sure Grout-Met	1981-052
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Sure Grout	1976-048



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout (Cement-Based)

Last Revised: 11/2/2020

Product	Name	Ref. No.
KELKN 15	Kelken Construction Systems, 550 Hartle Street Suite C, Sayreville, NJ 08872 http://www.kelken.com/	
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Keligrout	1986-125
L&MCC 15	L&M Construction Chemicals, Inc., 14851 Calhoun Road, Omaha, NE 68152 http://www.lmcc.com/	
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Crystex	1976-032
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Duragrout	1990-175
MAPEIA15 Plant	MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/ Fredericksburg, VA	
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Planigrout 712	2016-292Q
MBS-7 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html Newark, CA <i>Formerly BASF Construction Chemicals (BAS-1115)</i>	
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>	MasterFlow 100 (previously Construction Grout)	2007-097Q
MBS11 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 9658 State Route 43 Streetsboro, OH 44241 <i>Formerly BASF Building Systems (BASBS 15)</i>	
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	MasterFlow 100 (previously Construction Grout)	2007-097Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	MasterFlow 713	1976-006
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	MasterFlow 816	1975-005



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout (Cement-Based)

Last Revised: 11/2/2020

Product	Name	Ref. No.
MBS12 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 7100 Wright Road Houston, TX 77041 Formerly BASF Building Systems (BASBS 15)	
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>	MasterFlow 100 (previously Construction Grout) 2007-097Q
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/	
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	CG-86 Construction-Grade Grout 1993-292
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Sealtight 588 1984-165
MEDW1 15 Plant	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550	
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	CG-86 Construction-Grade Grout 1993-292
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	CG-86 N.E. Construction-Grade Grout 2017-219Q
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Sealtight 588 1984-165
NATPC 15	National Permacrete Company, 590 N. Valley Forge Rd., P. O. Box 886, Devon, PA 19333	
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Permagrout 1976-088
QUIKR 15 Plant	The Quikrete Companies, One Securities Centre, 3490 Piedmont Road, N.E. Suite 1300, Atlanta, GA 30305 http://www.quikrete.com/ Latrobe, PA	
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Commercial Grade QUIKRETE Non-Shrink General Purpose Grout (No. 1585-01) 2000-290Q
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Commercial Grade QUIKRETE Non-Shrink Precision Grout (No. 1585-00) 2000-289Q



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout (Cement-Based)

Last Revised: 11/2/2020

	Product	Name	Ref. No.
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071		
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Sikagrout 212	1983-219
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Sikagrout 300 PT	2007-147Q
SPECH 15	SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108 http://specchemllc.com/		
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	SC Multipurpose Grout	2012-159Q
VEXCN 15	Vexcon Chemicals, Inc., 7240 State Road, Philadelphia, PA 19135 http://www.vexcon.com/ <i>Acquired by ChemMasters, Inc.</i>		
	Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Certi-Grout 1000	2000-071Q

1080.2(e) Modified Mortar for Beam Seat Leveling

Last Revised: 4/3/2015

Mortars listed in the Miscellaneous Section - MISC Polymer Modified and Special Cements, Mortars, and Concrete conforming to the Pub 408, Section 1080.2(e) specifications are also approved for PennDOT projects.

	Product	Name	Ref. No.
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071		
	Mortar for Beam Seat Leveling	Sikatop Plus 122	1979-036
	Mortar for Beam Seat Leveling	Sikatop Plus 123	1982-007

1080.2(g) Nonshrink Epoxy Grout for Shear Keys in Adj. Prestressed Concrete Box Beam Bridges

Last Revised: 12/7/2020

Required minimum compressive strength per ASTM C579:

*4,000 pounds per square inch at 24 hours

*5,000 pounds per square inch at 28 days



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(g) Nonshrink Epoxy Grout for Shear Keys in Adj. Prestressed Concrete Box Beam Bridges

Last Revised: 12/7/2020

Required minimum compressive strength per ASTM C579:

*4,000 pounds per square inch at 24 hours

*5,000 pounds per square inch at 28 days

	Product	Name	Ref. No.
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
	Nonshrink Epoxy Grout	K Pro HP Grout	2020-024Q



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Section 1085: Precast Reinforced Concrete Box Culvert

1085.2 Precast Box Culverts

Last Revised: 7/30/2019

For Protective Coatings, see MISC Coal Tar Epoxy (RCC Pipe Coating)

Product	Name	Reference Letter	Ref. No.
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/ Precast Box Culvert		2009-088Q
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/ <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i> Precast Box Culvert		2015-004QA
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/ Precast Box Culvert Total Precast Bridge Structures		2016-053Q 2017-069Q
CONTN 15	Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/ Precast Box Culvert		2005-034Q
DUTCH 15	Dutchland, Inc., 160 Route 41, Gap, PA 17527-0549 http://www.dutchlandinc.com/ Precast Box Culvert		2003-185Q
HYDR3 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 4200 Universal Drive, Diamond, OH 44412 http://www.rinkerpipe.com/ Precast Box Culvert	05/27/1992	----
HYDR4 15 Plant	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 2000 Gregg Station Road, Oakdale, PA 15071 http://www.rinkerpipe.com/ 1751 Monocacy Blvd. Frederick, MD Precast Box Culvert		2001-171Q
LIND1 15 Plant	Lindsay Precast, 6845 Erie Avenue NW, P.O. Box 578, Canal Fulton, OH 44614 http://www.lindsayprecast.com/ 6845 Erie Avenue NW P.O. Box 578 Canal Fulton, OH 44614 Precast Box Culvert		2016-081
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/ Precast Box Culvert		-
MACK1 15	Mack Industries of PA, Inc., P.O. Box 335, Valley City, OH 44280 http://www.mackconcrete.com/ Precast Box Culvert	09/21/1990	----



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Section 1085: Precast Reinforced Concrete Box Culvert

1085.2 Precast Box Culverts

Last Revised: 7/30/2019

For Protective Coatings, see MISC Coal Tar Epoxy (RCC Pipe Coating)

	Product	Name	Reference Letter	Ref. No.
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/	Precast Box Culvert Total Precast Bridge Structures	11/20/1987	----- -
MILL1 15	A. C. Miller Concrete Products, Inc., 31 E. Bridge Street, Spring City, PA 19475 http://www.acmiller.com/	Precast Box Culvert		2000-241Q
MONAP 15	Monarch Products Company, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/	Precast Box Culvert		2005-009Q
NITTO 15	Nitterhouse Concrete Products Inc., P. O. Box N, Chambersburg, PA 17201 http://nitterhouseconcrete.com/	Precast Box Culvert	01/02/1992	-----
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 http://www.oldcastleprecast.com/Pages/default.aspx	Precast Box Culvert		-----
PREMC 15	Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 http://www.precastmfgco.com/	Precast Box Culvert		2016-080
TERH0 15 Plant	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/ PLANT #2: P.O. Box 10 Terre Hill, PA 17581	Precast Box Culvert		-
TERH1 15 Plant	Terre Hill Concrete Products, PLANT #4:, 42 South Butler Road, Lebanon, PA 17042 http://www.terrehill.com/ PLANT #4: 42 South Butler Road Lebanon, PA 17042	Precast Box Culvert	05/17/1989	-----
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 http://www.lcwhitford.com/	Precast Box Culvert		2016-138

1085.2(m)1 Neoprene Joint Material - Closed-Cell Neoprene Sponge

Last Revised: 12/3/2020



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Section 1085: Precast Reinforced Concrete Box Culvert

1085.2(m)1 Neoprene Joint Material - Closed-Cell Neoprene Sponge

Last Revised: 12/3/2020

Product	Name	Ref. No.
ARMA2 15 Armacell LLC, 1004 Keisler Road NW, Conover, NC 28613 https://www.armacell.us/home/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	Armacell (EnsoLite) IG2	2019-159Q
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 3	Armacell (EnsoLite) IG3	2019-157Q
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 3	Armacell (EnsoLite) IV3	2019-158Q
ARMCL 15 Armacell LLC, 7600 Oakwood Street Extension, P. O. Box 1038, Mebane, NC 27302 https://www.armacell.us/home/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	F-2062	2005-107Q
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 5	F-2045	2005-109Q
MONRP 15 Monmouth Rubber and Plastics, 75 Longbranch Avenue, Long Branch, NJ 07740 http://www.monmouthrubber.com/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	DK 2121 PADOT	2005-094Q
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 5	DK5151 PADOT	2014-158Q
RUBAT 15 Rubatex International, LLC, 906 Adams Street, Bedford, VA 24523-2168 http://www.rubatexusa.com/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	G-207-N	2006-006Q
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	R-470	2005-116Q

1085.3(n) Protective Coating (SSPC-PS 16-82)

Last Revised: 7/9/2015

Product	Name	Ref. No.
COOPC 15 Coopers Creek Chemical Corporation, 884 River Road, West Conshohocken, PA 19428-2699 http://cooperscreekchemical.com/		
Protective Coating (SSPC-PS 16-82)	Black No. 775 Epoxy Tar Coating	2010-325Q



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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 6/28/2018

Note: [Approved Bridge and Structure Products](#)

	Product	Name	Ref. No.
CENTR 15	Centria, 1005 Beaver Grade Road, Moon Township, PA 15108 http://www.centria.com/Pages/default.aspx Sound Barrier Wall Panel (Alternate)	Vesapanel Sound Barrier (Reflective Barrier Only)	2006-206
DIAMC 15	Diamond Manufacturing Company, 243 West Eighth Street, P.o. Box 4174, Wyoming, PA 18644 http://www.diamondman.com/ Sound Barrier Wall Panel (Alternate) <i>Per SOL 431-08-15</i>	Acoustax Sound Barrier (Structure Mount Only)	2002-130
EVCYR 15	Evonik Cyro, LLC, 1796 Main Street, Sanford, ME 04073 http://www.acrylitesoundstop.com Sound Barrier Wall Panel (Alternate)	Acrylite Soundstop Structure Mounted Sound Barrier System <i>Clear Structure Mounted Sound Barrier, per SOL 483-14-02. Acrylite Soundstop Structure Mounted Sound Barrier System has the following restrictions:</i>	2012-050
		<ul style="list-style-type: none"> • Maximum panel height: 6ft.-6in. • Maximum wall height and post spacing (see below) <p>A. Bridge Barrier Mounted: ----- 10 ft. Post Spacing: Wall Height of 2 ft. thru 9 ft. 8 ft. Post Spacing: Wall Height of > 9 ft. thru 10 ft.</p> <p>B. Retaining Wall Barrier or Moment Slab Barrier Mounted: ----- 10 ft. Post Spacing: Wall Height of 2 ft. thru 12 ft. 8 ft. Post Spacing: Wall Height of > 12 ft. thru 13 ft.</p> <p>C. Retaining Wall Mounted: ----- 10 ft. Post Spacing: Wall Height of 2 ft. thru 13 ft.</p>	



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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 6/28/2018

Note: [Approved Bridge and Structure Products](#)

	Product	Name	Ref. No.
FABCO 15	Fabcon Precast Concrete Products, 1200 Morea Road, Mahanoy City, PA 17948 Sound Barrier Wall Panel (Alternate)	http://www.fabcon-usa.com/ Sentry-Cast Wall Sound Panel (Reflective Barrier Only)	2011-275
FACADE15 Facility	Facade Technology, 680 Ben Franklin Highway, Birdsboro, PA 19508 1441 Stoneridge Drive Middletown, PA 17057 Sound Barrier Wall Panel (Alternate)	www.soundzero.com Sound Zero	2015-153
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 Sound Barrier Wall Panel (Alternate) <i>Precast Absorptive Sound Panel Wall System, per SOL 431-08-16</i>	http://www.faddis.com/ AcoustaCrete	2000-335
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 Sound Barrier Wall Panel (Alternate) <i>Precast Absorptive Sound Panel Wall System, per SOL 431-08-16</i>	http://www.faddis.com/ AcoustaCrete	2016-190
HOOTW 15	Hoover Treated Wood Products, Inc., 154 Wire Road, Thomson, GA 30824 Sound Barrier Wall Panel (Alternate)	http://www.frtw.com/ Plywall	2009-050Q
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 <i>Note: Previously assigned J&RS2 15 for same facility</i> Sound Barrier Wall Panel (Alternate) <i>Absorptive Sound Barrier System, per SOL 431-08-01</i>	http://www.slawprecast.com/ Concrete Innovation Series / Whisper Wall	2007-040Q
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 Sound Barrier Wall Panel (Alternate) <i>Absorptive Sound Barrier System, per SOL 431-08-01</i>	http://www.mackconcrete.com/ Concrete Innovation Series / Whisper Wall	2008-092Q



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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 6/28/2018

Note: [Approved Bridge and Structure Products](#)

Product	Name	Ref. No.
STNB1 15	Superior Transparent Noise Barriers, LLC, 220 E Golfview Road, Ardmore, PA 19003 https://www.transparentnb.com/	
Sound Barrier Wall Panel (Alternate)	Superior Transparent Sound Barrier System	2017-332
<i>Clear Structure Mounted Sound Barrier, per SOL 483-18-01. Superior Transparent Sound Barrier System has the following restrictions:</i>		
<ul style="list-style-type: none"> • <i>Maximum panel height: 13 ft.- 3 1/2 in.</i> • <i>Maximum wall height and post spacing (see below)</i> 		
<i>A. Bridge Barrier Mounted:</i>		

<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 9 ft.</i>		
<i>8 ft. Post Spacing: Wall Height of > 9 ft. thru 10 ft.</i>		
<i>B. Retaining Wall Barrier or Moment Slab Barrier Mounted:</i>		

<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 12 ft.</i>		
<i>8 ft. Post Spacing: Wall Height of > 12 ft. thru 13 ft.</i>		
<i>C. Retaining Wall Mounted:</i>		

<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 13 ft.</i>		
<i>8 ft. Post Spacing: Wall Height of > 13 ft. thru 14 ft.</i>		



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Section 1087: PA HT Bridge Barrier

1087.2 PA HT Bridge Barrier Railing (BC-707M)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 707M (PA, HT Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA HT Bridge Barrier Railing	Baltimore	MD	2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA HT Bridge Barrier Railing	Boyerstown	PA	2014-195QG
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ PA HT Bridge Barrier Railing	Hudson	MA	2007-157Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA HT Bridge Barrier Railing	North Baltimore	OH	2010-081Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA HT Bridge Barrier Railing	Georgetown	MA	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ PA HT Bridge Barrier Railing	Bedford	PA	2010-246Q
GSIH 15	GSI Highway Products, 720 W. Wintergreen Road, Hutchins, TX 75141 https://www.gsihighway.com/ PA HT Bridge Barrier Railing	Hutchins	TX	2017-353Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ PA HT Bridge Barrier Railing	Ellwood City	PA	2005-044Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ PA HT Bridge Barrier Railing	Ellwood City	PA	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> PA HT Bridge Barrier Railing	Brownsville	PA	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 PA HT Bridge Barrier Railing	Alum Bank	PA	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ PA HT Bridge Barrier Railing	Coatesville	PA	2010-015Q



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Section 1087: PA HT Bridge Barrier

1087.2 PA HT Bridge Barrier Railing (BC-707M)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 707M (PA, HT Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ 2nd Facility: 20 Steel Rd., Morrisville, PA 19067 PA HT Bridge Barrier Railing			2015-154QG
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ PA HT Bridge Barrier Railing	Carbondale	PA	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ PA HT Bridge Barrier Railing			2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA HT Bridge Barrier Railing	Bristol	PA	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ PA HT Bridge Barrier Railing	West Middlesex	PA	2015-187Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ PA HT Bridge Barrier Railing	Jersey Shore	PA	2004-016Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209 PA HT Bridge Barrier Railing	Pittsburgh	PA	2016-016Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA HT Bridge Barrier Railing			2015-142QC



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Posted:
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Section 1088: PA Type 10M Bridge Barrier

1088.2 PA Type 10M Bridge Barrier Railing (BC-709M)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 709M (PA Type, 10M Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA Type 10M Bridge Barrier Railing	Baltimore	MD	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ PA Type 10M Bridge Barrier Railing	Saxonburg	PA	2015-025Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA Type 10M Bridge Barrier Railing	Boyerstown	PA	2014-195QH
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ PA Type 10M Bridge Barrier Railing	Hudson	MA	2007-120Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA Type 10M Bridge Barrier Railing	North Baltimore	OH	2008-039Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ PA Type 10M Bridge Barrier Railing	Trenton	NJ	2013-077Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA Type 10M Bridge Barrier Railing	Georgetown	MA	2010-246Q
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ PA Type 10M Bridge Barrier Railing	Oaks Corner	NY	2009-025Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ PA Type 10M Bridge Barrier Railing	Bedford	MA	2008-056Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ PA Type 10M Bridge Barrier Railing	Ellwood City	PA	----
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ PA Type 10M Bridge Barrier Railing	Ellwood City	PA	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> PA Type 10M Bridge Barrier Railing	Brownsville	PA	2018-220Q



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Section 1088: PA Type 10M Bridge Barrier

1088.2 PA Type 10M Bridge Barrier Railing (BC-709M)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 709M (PA Type, 10M Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 PA Type 10M Bridge Barrier Railing	Alum Bank	PA	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ PA Type 10M Bridge Barrier Railing	Coatesville	PA	2010-015Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ PA Type 10M Bridge Barrier Railing	Carbondale	PA	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ PA Type 10M Bridge Barrier Railing	Sistersville	WV	2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA Type 10M Bridge Barrier Railing	Bristol	PA	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ PA Type 10M Bridge Barrier Railing	West Middlesex	PA	2012-246Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/ PA Type 10M Bridge Barrier Railing	Pulaski	PA	2006-191Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ PA Type 10M Bridge Barrier Railing	Jersey Shore	PA	2004-016Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209 PA Type 10M Bridge Barrier Railing	Pittsburgh	PA	2010-223Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA Type 10M Bridge Barrier Railing			2015-142QD
USBRG 15	U.S. Bridge, 201 Wheeling Avenue, P.O. Box 757, Cambridge, OH 43725 http://www.usbridge.com/ PA Type 10M Bridge Barrier Railing	Cambridge	OH	2007-108Q



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Section 1089: PA Bridge Barrier

1089.2 PA Bridge Barrier Railing (BC-713M)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 713M (PA Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA Bridge Barrier Railing	Baltimore	MD	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ PA Bridge Barrier Railing	Saxonburg	PA	2015-027Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA Bridge Barrier Railing	Boyertown	PA	2014-195QI
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ PA Bridge Barrier Railing	Hudson	MA	2007-156Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA Bridge Barrier Railing	North Baltimore	OH	2008-039Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ PA Bridge Barrier Railing	Trenton	NJ	2013-102Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA Bridge Barrier Railing	Georgetown	MA	2010-250Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ PA Bridge Barrier Railing	Bedford	PA	2008-055Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ PA Bridge Barrier Railing	Ellwood City	PA	2007-088Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ PA Bridge Barrier Railing	Ellwood City	PA	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> PA Bridge Barrier Railing	Brownsville	PA	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 PA Bridge Barrier Railing	Alum Bank	PA	2019-131Q



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Section 1089: PA Bridge Barrier

1089.2 PA Bridge Barrier Railing (BC-713M)

Last Revised: 11/26/2019

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 713M (PA Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ PA Bridge Barrier Railing	Coatesville	PA	2010-015Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> PA Bridge Barrier Railing			2015-154QH
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ PA Bridge Barrier Railing	Carbondale	PA	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ PA Bridge Barrier Railing	Sistersville	WV	2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA Bridge Barrier Railing	Bristol	PA	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ PA Bridge Barrier Railing	West Middlesex	PA	2013-012Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/ PA Bridge Barrier Railing	Pulaski	PA	2010-111Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ PA Bridge Barrier Railing	Jersey Shore	PA	2006-219Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209 PA Bridge Barrier Railing	Millvale	PA	2013-133QB
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA Bridge Barrier Railing			2015-142QE



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Section 1101: Highway Lighting

1101.02 Highway Lighting Poles (Aluminum)

Last Revised: 9/4/2019

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Highway Lighting Pole Fabricator (Aluminum)	----
HAPCO 15	Hapco/American Flagpole, 26252 Hillman Highway, Abington, VA 24210 http://hapco.com/ Highway Lighting Pole Fabricator (Aluminum)	----
METPL 15	MPL (Metal Pole-Lite, Inc.), 375 & 375B St. Louis, Saint-Jean-Sur-Richelieu, Quebec Canada J3B 1Y4 Highway Lighting Pole Fabricator (Aluminum)	----
P&KTP 15	P&K Tubular Products/Flagpoles, Inc., 95 Gnarled Hollow Road, East Setauket, NY 11733 http://pktubularproducts.com/ Highway Lighting Pole Fabricator (Aluminum)	----
PHIHA 15	Philips Hadco, 100 Craftway, Littlestown, PA 17340 http://www.hadco.com/Hadco/home.html Highway Lighting Pole Fabricator (Aluminum)	----
SCEMC 15	Spring City Electrical Manufacturing Company, Inc., One South Main Street, Spring City, PA 19475 http://www.springcity.com/ Highway Lighting Pole Fabricator (Aluminum)	----
STEV 15	Sternberg Vintage Lighting, 555 Lawrence Avenue, Roselle, IL 60172 http://www.sternberglighting.com/www-sternberglighting-com/ Highway Lighting Pole Fabricator (Aluminum)	----
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Highway Lighting Pole Fabricator (Aluminum)	2018-177Q
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Valley, NE 68064 Highway Lighting Pole Fabricator (Aluminum)	----
VALM2 15 Plant	Valmont Industries, Inc., 58027 Charlotte Ave., Elkhart, IN 46517 http://www.valmont.com/ Elkhart, IN 46517 Highway Lighting Pole Fabricator (Aluminum)	----



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Section 1101: Highway Lighting

1101.02 Highway Lighting Poles (Cast Iron)

Last Revised: 4/3/2015

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Highway Lighting Pole Fabricator (Cast iron)	----

1101.02 Highway Lighting Poles (Steel)

Last Revised: 11/26/2019

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Highway Lighting Pole Fabricator (Steel)	----
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> Highway Lighting Pole Fabricator (Steel)	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Highway Lighting Pole Fabricator (Steel)	2019-131Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Highway Lighting Pole Fabricator (Steel)	----
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Highway Lighting Pole Fabricator (Steel)	2018-177Q
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Valley, NE 68064 Highway Lighting Pole Fabricator (Steel)	----
VALM5 15 Plant	Valmont Industries, Inc., 2551 Valmont Drive, Brenham, TX 77833 http://www.valmont.com/ Brenham, TX Highway Lighting Pole Fabricator (Steel)	----



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Section 1101: Highway Lighting

1101.06(c) Arm Mount Luminaires - LED - (Cobra Head)

Last Revised: 10/21/2019

Product	Name	Ref. No.
ACUITY15 Plant	Acuity Brands Lighting, Inc., 1170 Peachtree Street, NE, Suite 2300, Atlanta, GA 30309-7676 Guadalupe, Mexico	
Conventional LED Luminaire	Autobahn ATB0	2017-348Q
Conventional LED Luminaire	Autobahn ATB2	2017-349Q
EATON 15 Plant	Eaton (formerly Cooper Lighting), 1121 Highway 74 South, Peachtree City, GA 30269 http://www.cooperindustries.com/content/public/en/lighting.html Juarez, Mexico	
Conventional LED Luminaire	Streetworks ARCH Archeon Small	2018-098Q
Conventional LED Luminaire	Streetworks ARCH-L Archeon Large	2018-093Q
Conventional LED Luminaire	Streetworks ARCH-M Archeon Medium	2018-068Q
GELED 15 Plant	General Electric Company, 1975 Noble Road, East Cleveland, OH 44112 https://products.currentbyge.com/ GE Lighting East Flat Rock, NC	
Conventional LED Luminaire	GE Evolve ERL1	2018-101Q
Conventional LED Luminaire	GE Evolve ERL2	2018-045Q
Conventional LED Luminaire	GE Evolve ERLH	2018-044Q
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/	
Conventional LED Luminaire	ComfortView Neighborhood LED Streetlight, CV1-H	2019-119Q
Conventional LED Luminaire	GC2-96G GreenCobra LED Street Light - GC2 G-Series	2017-291Q
Conventional LED Luminaire	GCJ0-15H GreenCobra LED Street Light - GCJ Series	2018-099Q
Conventional LED Luminaire	GCJ1-20H GreenCobra LED Street Light - GCJ Series	2018-099Q
Conventional LED Luminaire	GCJ2-20H GreenCobra LED Street Light - GCJ Series	2018-099Q
Conventional LED Luminaire	GCM2-30H GreenCobra Midsize LED Street Light - GCM H-Series	2017-351Q
Conventional LED Luminaire	GCM2-40H GreenCobra Midsize LED Street Light - GCM H-Series	2017-351Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1101: Highway Lighting

1101.06(c) Arm Mount Luminaires - LED - (Cobra Head)

Last Revised: 10/21/2019

	Product	Name	Ref. No.
SIGN1 15 Plant	Signify (formerly Philips Lighting), 200 Franklin Square Drive, Somerset, NJ 08873 Camargo Chichuahua, Mexico	https://www.signify.com/en-us	
	Conventional LED Luminaire	RoadFocus LED Cobra Head - Large (RFL)	2018-152Q
	Conventional LED Luminaire	RoadFocus LED Cobra Head - Medium (RFM)	2018-152Q
	Conventional LED Luminaire	RoadFocus LED Cobra Head - Small (RFS)	2018-152Q

1101.09 Highway Lighting Conduit

In lieu of certification, submit catalog cuts or shop drawings to the Engineer for approval, as specified in Publication 408, Section 1101.01.

Refer to the Project Office Manual for material information requirements.

1101.10 Highway Lighting Junction Boxes

Steel or Cast Iron Junction Boxes and Frames: See Section 605.2(a).

Precast Concrete Junction Boxes: See Section 714.



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Section 1103: Traffic Signing and Marking

1103.02 Extruded Aluminum Channel Signs (Post Mounted Types A and E; and Structure Mounted)

Last Revised: 2/4/2020

Product	Name	COA	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000 Fabricated Aluminum Sign Manufacturer	http://www.3m.com/3M/en_US/company-us/	----
DONLN 15	Donlyn Company/Osburn Associates, Inc., P.O. Box 912, Logan, OH 43138 Fabricated Aluminum Sign Manufacturer	http://www.osburns.com/	----
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 Fabricated Aluminum Sign Manufacturer	http://www.elderlee.com/	----
GARDS 15	Garden State Highway Products, Inc., 1740 East Oak Road, Vineland, NJ 08361 Fabricated Aluminum Sign Manufacturer	http://www.gardenstatehwy.com/default.aspx	----
INSHS 15	Interstate Highway Sign Company, 7415 Lindsey Road, Little Rock, AR 72206 Fabricated Aluminum Sign Manufacturer		----
LIGH1 15	Lightle Enterprises of Ohio, LLC, P.O. Box 329, 22 East Springfield Street, Frankfort, OH 45628 Fabricated Aluminum Sign Manufacturer	http://www.lightleenterprisesohio.com/	February 3, 2020 ----
LYLE- 15	Lyle Signs, Inc., 6294 Bury Drive, Eden Prairie, MN 55346 Fabricated Aluminum Sign Manufacturer	http://lylesigns.com/	----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032 Fabricated Aluminum Sign Manufacturer		----
ROCAL 15	Rocal, Inc., 3186 CR 550, Frankfort, OH 45628 Fabricated Aluminum Sign Manufacturer	http://www.rocal.com/	----
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957 Fabricated Aluminum Sign Manufacturer		-----



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Posted:
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Section 1103: Traffic Signing and Marking

1103.02 Extruded Aluminum Channel Signs (Post Mounted Types A and E; and Structure Mounted)

Last Revised: 2/4/2020

Product	Name	COA	Ref. No.
TRFSC 15	Trafco Supply Company, 1420 Ford Avenue, Harrisburg, PA 17109 Fabricated Aluminum Sign Manufacturer		----
USMUS 15	U. S. Municipal Supply, Inc., 10583 Raystown Road, Huntingdon, PA 16652 http://store.usmuni.com/ Fabricated Aluminum Sign Manufacturer		----

1103.02(c) Reflective Sheeting

Last Revised: 8/20/2020

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.	
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000						
	Reflective Sheeting	3314	RS-1	Type III / Type IV	Orange	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
	Reflective Sheeting	334/336	RS-1	Type III / Type IV	White/Orange	Barricades / Panels Only	----
	<i>Provisionally Approved</i>						
	Reflective Sheeting	3340	RS-1	Type VIII	White	Cones Only	----
	Reflective Sheeting	3811-I	RS-1	Type III / Type IV	Yellow	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
	Reflective Sheeting	3872	RS-1	Type III	Red	No Restrictions	----
	Reflective Sheeting	3910	RS-1	Type III / Type IV (reboundable)	White	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
	Reflective Sheeting	3914	RS-1	Type III / Type IV (reboundable)	Fluorescent Orange	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
	Reflective Sheeting	3924	RS-1	Type VII	Fluorescent Orange	Work Zones and Incidents Only	1991-311



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 8/20/2020

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
	Reflective Sheeting	3930	RS-1	Type III / Type IV	White	No Restrictions ----
	Reflective Sheeting	3931	RS-1	Type III / Type IV	Yellow	No Restrictions ----
	Reflective Sheeting	3934	RS-1	Type III / Type IV	Orange	Work Zones Only 2014-144Q
	Reflective Sheeting	3935	RS-1	Type III / Type IV	Blue	No Restrictions ----
	Reflective Sheeting	3937	RS-1	Type III / Type IV	Green	No Restrictions ----
	Reflective Sheeting	3981	RS-1	Type IX	Fluorescent Yellow	No Restrictions 1999-165Q
	Reflective Sheeting	3990	RS-1	Type IX	White	No Restrictions ----
	Reflective Sheeting	3990T	RS-1	Type VIII	Translucent White	Internally Illuminated Signs Only ----
	Reflective Sheeting	3991	RS-1	Type IX	Yellow	No Restrictions ----
	Reflective Sheeting	3992	RS-1	Type IX	Red	No Restrictions ----
	Reflective Sheeting	3995	RS-1	Type IX	Blue	No Restrictions ----
	Reflective Sheeting	3997	RS-1	Type IX	Green	No Restrictions ----
	Reflective Sheeting	4081	RS-1	Type XI	Fluorescent Yellow	No Restrictions 2010-078QG
	Reflective Sheeting	4083	RS-1	Type XI	Fluorescent Yellow Green	No Restrictions 2010-078QH
	Reflective Sheeting	4084	RS-1	Type XI	Fluorescent Orange	Work Zones and Incidents Only 2010-078QJ
	Reflective Sheeting	4090	RS-1	Type XI	White	No Restrictions 2010-078QA
	Reflective Sheeting	4091	RS-1	Type XI	Yellow	No Restrictions 2010-078QB
	Reflective Sheeting	4092	RS-1	Type XI	Red	No Restrictions 2010-078QC
	Reflective Sheeting	4095	RS-1	Type XI	Blue	No Restrictions 2010-078QD
	Reflective Sheeting	4097	RS-1	Type XI	Green	No Restrictions 2010-078QE
	Reflective Sheeting	444/446	RS-1	Type XI	White/Orange	No Restrictions 2010-078QK
	Reflective Sheeting	RS24	RS-1	Type VI (reboundable)	Fluorescent Orange	Work Zones and Incidents Only ----



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1103.02(c) Reflective Sheeting

Last Revised: 8/20/2020

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.	
3M-06 15 Plant	3M Company, 4501 Highway 377 South, Brownwood, TX 76804 http://www.3m.com/3M/en_US/company-us/ 4501 Highway 377 South Brownwood, TX 76804						
	Reflective Sheeting	3334 Flexible Prismatic Reflective Barricade Sheeting (4-inch)		Type IV	Orange and White	Barricades / Panels Only	2016-076Q
	Reflective Sheeting	3336 Flexible Prismatic Reflective Barricade Sheeting (6-inch)		Type IV	Orange and White	Barricades / Panels Only	2016-076Q
	Reflective Sheeting	4081	RS-1	Type XI	Fluorescent Yellow	No Restrictions	2010-078QG
	Reflective Sheeting	4083	RS-1	Type XI	Fluorescent Yellow Green	No Restrictions	2010-078QH
	Reflective Sheeting	4084	RS-1	Type XI	Fluorescent Orange	Work Zones and Incidents Only	2010-078QJ
	Reflective Sheeting	4090	RS-1	Type XI	White	No Restrictions	2010-078QA
	Reflective Sheeting	4091	RS-1	Type XI	Yellow	No Restrictions	2010-078QB
	Reflective Sheeting	4092	RS-1	Type XI	Red	No Restrictions	2010-078QC
	Reflective Sheeting	4095	RS-1	Type XI	Blue	No Restrictions	2010-078QD
	Reflective Sheeting	4097	RS-1	Type XI	Green	No Restrictions	2010-078QE
	Reflective Sheeting	444/446	RS-1	Type XI	White/Orange	No Restrictions	2010-078QK
	Reflective Sheeting	RS60		Type VI	White	No Restrictions	2016-228Q
	Reflective Sheeting	RS64I		Type VI	Fluorescent Orange	No Restrictions	2016-243Q



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1103.02(c) Reflective Sheeting

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Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
EVERY 15 Plant	Avery Dennison Reflective Solutions, 7542 North Natchez Avenue, Niles, IL 60714 http://reflectives.averydennison.com/en/home.html 902 Feehanville Drive Mount Prospect, IL 60056					
Reflective Sheeting	T-11500	RS-6	Type XI	White	No Restrictions	2012-081QD
Reflective Sheeting	T-11501	RS-6	Type XI	Yellow	No Restrictions	2012-081QC
Reflective Sheeting	T-11505	RS-6	Type XI	Blue	No Restrictions	2012-081QB
Reflective Sheeting	T-11507	RS-6	Type XI	Green	No Restrictions	2012-081QA
Reflective Sheeting	T-11508	RS-6	Type XI	Red	No Restrictions	2012-081QE
Reflective Sheeting	T-11511		Type XI	Flourescent Yellow	No Restrictions	2017-008Q
Reflective Sheeting	T-11513	RS-6	Type XI	Flourescent Yellow Green	No Restrictions	2012-081QG
Reflective Sheeting	T-6500	RS-6	Type III / Type IV	White	No Restrictions	1996-158A
Reflective Sheeting	T-6501	RS-6	Type III / Type IV	Yellow	No Restrictions	1996-158B
Reflective Sheeting	T-6505	RS-6	Type III / Type IV	Blue	No Restrictions	1996-158D
Reflective Sheeting	T-6507	RS-6	Type III / Type IV	Green	No Restrictions	1996-158C
Reflective Sheeting	T-6508	RS-6	Type III / Type IV	Red	No Restrictions	1996-158E
Reflective Sheeting	T-7500	RS-6	Type VIII	White	No Restrictions	2006-214Q
Reflective Sheeting	T-7511	RS-6	Type VIII	Flourescent Yellow	No Restrictions	2001-115Q
Reflective Sheeting	T-7513		Type VIII	Flourescent Yellow Green	No Restrictions	2017-007Q
Reflective Sheeting	T-9500	RS-6	Type IX	White	No Restrictions	2009-109Q
Reflective Sheeting	T-9501	RS-6	Type IX	Yellow	No Restrictions	2009-112Q
Reflective Sheeting	T-9505	RS-6	Type IX	Blue	No Restrictions	2009-114Q
Reflective Sheeting	T-9507	RS-6	Type IX	Green	No Restrictions	2009-110Q
Reflective Sheeting	T-9508	RS-6	Type IX	Red	No Restrictions	2009-111Q
Reflective Sheeting	T-9511	RS-6	Type IX	Flourescent Yellow	No Restrictions	2009-113Q
Reflective Sheeting	T-9513	RS-6	Type IX	Flourescent Green	No Restrictions	2009-108Q



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1103.02(c) Reflective Sheeting

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Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
EVERY 15 Plant	Avery Dennison Reflective Solutions, 7542 North Natchez Avenue, Niles, IL 60714 http://reflectives.averydennison.com/en/home.html 902 Feehanville Drive Mount Prospect, IL 60056					
Reflective Sheeting	W-11000	RS-6	Type XI	White/Orange	No Restrictions	2015-175Q
<i>Provisional approval is granted through calendar year 2016 or until such time as NTPEP testing data is available from the Arizona testing site.</i>						
Reflective Sheeting	W-11514	RS-6	Type XI	Fluorescent Orange	No Restrictions	2012-081QH
Reflective Sheeting	W-6100	RS-6	Type III	White/Orange	Barricades / Panels Only	2012-108Q
Reflective Sheeting	W-6200	RS-6	Type III	White/Orange	Barricades / Panels Only	1996-158I
Reflective Sheeting	W-6504	RS-6	Type III / Type IV	Orange	No Restrictions	1998-043
Reflective Sheeting	W-7514	RS-6	Type VIII	Fluorescent Orange	No Restrictions	----
Reflective Sheeting	W-9514	RS-6	Type IX	Fluorescent Orange	No Restrictions	2009-115Q
Reflective Sheeting	WR-6100	RS-6	Type III (reboundable)	White	Cones Only	2014-146Q
Reflective Sheeting	WR-6100	RS-6	Type III (reboundable)	White	Drums Only	2014-146Q
Reflective Sheeting	WR-6100	RS-6	Type III (reboundable)	White	Tubular Markers Only	2014-146Q
Reflective Sheeting	WR-6104	RS-6	Type III (reboundable)	Orange	Cones Only	2014-147Q
Reflective Sheeting	WR-6104	RS-6	Type III (reboundable)	Orange	Drums Only	2014-147Q
Reflective Sheeting	WR-6104	RS-6	Type III (reboundable)	Orange	Tubular Markers Only	2014-147Q



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Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.	
NIPCA 15	Nippon Carbide Industries USA Inc., 12981 East Florence Avenue, Santa Fe Springs, CA 90670 http://nikkalite.com/						
	Reflective Sheeting	92805	RS-3	Type VIII	Red	No Restrictions	----
	Reflective Sheeting	92806	RS-3	Type VIII	Blue	No Restrictions	----
	Reflective Sheeting	92808	RS-3	Type VIII	Green	No Restrictions	----
	Reflective Sheeting	92847	RS-3	Type VIII	Fluorescent Orange	No Restrictions	----
	Reflective Sheeting	94802		Type IV	White	No Restrictions	2016-310Q
	Reflective Sheeting	94804	RS-3	Type IV	Yellow	No Restrictions	2014-041QA
	Reflective Sheeting	94804		Type IV	Yellow	No Restrictions	2016-310Q
	Reflective Sheeting	94805		Type IV	Red	No Restrictions	2016-310Q
	Reflective Sheeting	94806	RS-3	Type IV	Blue	No Restrictions	2014-041QC
	Reflective Sheeting	94806		Type IV	Blue	No Restrictions	2016-310Q
	Reflective Sheeting	94808		Type IV	Green	No Restrictions	2016-310Q
	Reflective Sheeting	N504	RS-3	Type III	Yellow	No Restrictions	----
	Reflective Sheeting	N506	RS-3	Type III	Blue	No Restrictions	----
	Reflective Sheeting	N507	RS-3	Type III	Orange	No Restrictions	----
	Reflective Sheeting	N508	RS-3	Type III	Green	No Restrictions	----
	Reflective Sheeting	N512	RS-3	Type III	White	No Restrictions	----
	Reflective Sheeting	N517	RS-3	Type III	White/Orange	Barricades / Panels Only	----



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Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
ORAAI 15	Orafol Americas Inc., 120 Darling Drive, Avon, CT 06001 https://www.orafol.com/corp/americas/en/frontpage Formerly Reflexite North America (REFLE 15)					
Reflective Sheeting	C85-1572	RSF-2	Type III (reboundable)	White	No Restrictions	1998-003
	<i>Provisionally Approved</i>					
Reflective Sheeting	C85-1772	RSF-2	Type III (reboundable)	Orange	No Restrictions	1998-003
	<i>Provisionally Approved</i>					
Reflective Sheeting	D89-1541 AR1000	RSF-2	Type V (reboundable)	White	No Restrictions	1996-111
Reflective Sheeting	D89-1841 AR1000	RSF-2	Type V (reboundable)	Yellow	No Restrictions	1996-111
Reflective Sheeting	Marathon	RSF-2	Type VI	White	No Restrictions	2000-184Q
Reflective Sheeting	Marathon	RSF-2	Type VI	Fluorescent Orange	No Restrictions	2000-185Q
Reflective Sheeting	ORALITE 5900-010	RSF-2	Type IV	White	No Restrictions	2014-155QA
Reflective Sheeting	ORALITE 5900-020	RSF-2	Type IV	Yellow	No Restrictions	2014-155QB
Reflective Sheeting	ORALITE 5900-030	RSF-2	Type IV	Red	No Restrictions	2014-155QC
Reflective Sheeting	ORALITE 5900-050	RSF-2	Type IV	Blue	No Restrictions	2014-155QD
Reflective Sheeting	ORALITE 5900-060	RSF-2	Type IV	Green	No Restrictions	2014-155QE
Reflective Sheeting	ORALITE 5930-038	RSF-2	Type IV	Fluorescent Orange	No Restrictions	2012-143Q
Reflective Sheeting	ORALITE 5930-038		Type IX	Fluorescent Orange	No Restrictions	2016-177Q
Reflective Sheeting	ORALITE 5934-010		Type III / Type IV (reboundable)	White	Tubular Markers / Drums / Channelizers / Flexible Delineators	2019-227Q
Reflective Sheeting	ORALITE 5935-010 Marathon		Type VIII (reboundable)	White	Tubular Markers / Drums / Channelizers / Flexible Delineators	2020-070Q



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Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
ORAAI 15	Orafol Americas Inc., 120 Darling Drive, Avon, CT 06001 https://www.orafol.com/corp/americas/en/frontpage Formerly Reflexite North America (REFLE 15)					
Reflective Sheeting	ORALITE 5935-029 Marathon		Type VIII (reboundable)	Fluorescent Yellow Green	Tubular Markers / Drums / Channelizers / Flexible Delineators	2020-072Q
Reflective Sheeting	ORALITE 5935-038 Marathon		Type VIII (reboundable)	Fluorescent Orange	Tubular Markers / Drums / Channelizers / Flexible Delineators	2020-071Q
Reflective Sheeting	ORALITE 7900-010		Type IX	White	No Restrictions	2018-243Q
Reflective Sheeting	ORALITE 7900-020		Type IX	Yellow	No Restrictions	2017-319Q
Reflective Sheeting	ORALITE 7900-029		Type IX	Fluorescent Yellow-Green	No Restrictions	2017-322Q
Reflective Sheeting	ORALITE 7900-037		Type IX	Fluorescent Yellow	No Restrictions	2017-323Q
Reflective Sheeting	ORALITE 7900-050		Type IX	Blue	No Restrictions	2017-321Q
Reflective Sheeting	ORALITE 7900-060		Type IX	Green	No Restrictions	2017-320Q
Reflective Sheeting	Super Brite	RSF-2	Type VI	Fluorescent Orange	No Restrictions	1997-038

Provisionally Approved

1103.03 Electrically Powered Traffic Signs

Last Revised: 11/9/2020

Product	Name	COA	COA Date	Ref. No.
ALLTS 15	All Traffic Solutions, 3100 Research Drive, State College, PA 16801 http://www.alltrafficsolutions.com/			
Speed Display Sign	SA18	ATS-004P	12/1/2011	----
Speed Display Sign	SH12	ATS-001P	12/1/2011	----
Speed Display Sign	SH15	ATS-002P	12/1/2011	----
Speed Display Sign	SS12	ATS-003P	12/1/2011	----



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Product	Name	COA	COA Date	Ref. No.
APXEN 15	APX Enclosures, Inc., 200 Oregon Street, Mercersburg, PA 17236 http://apx-enclosures.com/main/index.html			
Internally Illuminated Sign	1-850-000621	APX-001P	10/26/2010	----
CARMH 15	Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 Formerly Spot Devices, Inc. (SPODE 15)			
School Warning Sign System	R829C	CTC-003P	12/9/2009	----
School Warning Sign System	SB410	CTC-004P	7/25/2013	----
School Warning Sign System	SC-15.FL	CTC-007P	2/28/2020	----
Warning Sign System	R247RC	CTC-001P	12/9/2009	----
Warning Sign System	R820C	CTC-002P	12/9/2009	----
CROAS 15	Cross Alert Systems, Inc., 20 Altieri Way, #3, Warwick, RI 02886 http://www.crossalert.com/			
Warning Sign System	BP-IN	CAS-002P	5/29/2012	----
Warning Sign System	BP-IN12	CAS-001P	4/5/2012	----
ELAN1 15	Elan City Inc., 10-34 44th Drive, Long Island City, NY 11101 https://www.elancity.net/			
Plant	Elan Cité Orvault, France			
Speed Display Sign	Evolis	ELA-001P	12/21/2018	2017-158Q
ELECT 15	Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/			
School Warning Sign System	S891161	ECH-020P	12/7/2011	----
School Warning Sign System	S891162	ECH-021P	12/7/2011	----
Warning Sign System	CautionGuard	EHC-018P	2/18/2003	----
Warning Sign System	S891163	ECH-022P	12/7/2011	----
Warning Sign System	S891164	ECH-023P	12/7/2011	----
Warning Sign System	S891165	ECH-024P	12/7/2011	----
Warning Sign System	S891166	ECH-025P	12/7/2011	----



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Product	Name	COA	COA Date	Ref. No.
GENHP 15	General Highway Products, Inc., 878 Sussex Blvd., P. O. Box 596, Broomall, PA 19008 http://generalhighwayproducts.com/			
School Warning Sign System	MSRS-101-I	GHP-001P	4/13/1995	----
KUSTOM15	Kustom Signals, Inc., 9652 Loiret Boulevard, Lenexa, KS 66219-2406 https://www.kustomsignals.com/			
Speed Display Sign	PMD 12	KUS-001P	4/6/2020	2020-006Q
NATSG 15	National Signal, Inc., 2440 Artesia Avenue, Fullerton, CA 92833 http://www.nationalsignalinc.net/			
Blankout Sign	DLED	NSI-002P	10/22/2010	----
Blankout Sign	NuArt IIRS Series	NSI-001P	9/29/2009	----
NATSS 15	National Sign & Signal Company, 301 S. Armstrong Road, Battle Creek, MI 49037 http://www.nationalssc.com/			
Blankout Sign	48LEDRSA-PA	NSS-007P	3/9/2012	----
Blankout Sign	E-101-WW Series	NSS-003S	2/26/1976	----
Blankout Sign	E-101-WW-1	NSS-001S	12/6/1974	----
Blankout Sign	FO-BO	NSS-006S	10/6/1987	----
Blankout Sign	SF-107-2 Series	NSS-002S	12/18/1974	----
Fire Warning Sign	FIRE SIGN	NSS-004S	9/26/1977	----
Internally Illuminated Sign	FSF Series	NSS-008P	6/5/2012	----
Internally Illuminated Sign	XXLEDBLB-R	NSS-010P	4/27/2016	----
Internally Illuminated Sign	XXLEDBLB-W	NSS-009P	4/27/2016	----
ORANG 15	Orange Traffic, 18195 Rue J A Bombardier, Mirabel, Quebec J7J 0E7 https://www.orangetraffic.com/			
Blankout Sign	LED Blank Out Sign	OTR-001P	7/13/2018	2016-147Q
PATH- 15	Path Master, Inc., 1960 Midway Drive, P.O. Box 451, Twinsburg, OH 44087 https://www.pathmasterinc.com/			
School Warning Sign System	QFA Series	PHM-003P	11/15/2010	----
RADAR 15	Radarsign, LLC, 1220 Kennestone Circle, Ste 130, Marietta, GA 30066 https://www.radarsign.com/			
Speed Display Sign	TC-600S Full Matrix	RAA-001P	5/9/2019	2018-176Q



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Product	Name	COA	COA Date	Ref. No.	
RTC-M 15	RTC Manufacturing Inc., P. O. Box 150189, Arlington, TX 76015 http://www.rtc-traffic.com/				
	Fire Warning Sign	FIRE	RTC-003P	8/27/1996	----
SIGNS 15	Signal Service Inc., 1020 Andrew Drive, West Chester, PA 19380 http://www.signalservice.com/				
	School Warning Sign System	SWD-1	SSI-005S	1/9/1989	----
	School Warning Sign System	SWD-1 LED	SSI-007P	10/4/2011	----
SIGP2 15	Signal Control Products, Inc., 737 Hagey Center Drive, Unit B1, Souderton, PA 18964 http://www.signalcontrol.com/				
	School Warning Sign System	School Speed Limit Sign	SCP-004P	2/17/2010	----
SOUMC 15	Southern Manufacturing Company, 501 Herndon Ave., Orlando, FL 32803 http://southernmfg.com/				
	Internally Illuminated Sign	FF-1.1	SMC-001P	2/14/1994	----
	Internally Illuminated Sign	FF-1.1S680022120	SMC-002P	2/14/1994	----
TLX-1 15	Traffic Logix, 3 Harriet Lane, Spring Valley, NY 10977 https://trafficlogix.com/				
	Speed Display Sign	SafePace Evolution 12	TLX-001P	4/18/2019	2019-011
TRACP 15	Traffic Control Products, Inc., 4565 Glenbrook Road, Willoughby, OH 44094 http://www.traffcon.com/				
	School Warning Sign System	3654PASOP	TCP-001P	1/18/2002	----
	School Warning Sign System	SSA-PA-II	TCP-003P	7/8/2011	----
TRAFF 15	TraffiCalm Systems, 5676 East Seltice Way, Post Falls, ID 83854 http://trafficalm.com/				
	Speed Display Sign	iQ1200 Driver Feedback Sign	TAC-001P	9/14/2018	2017-259Q
	Speed Display Sign	iQ1500 Driver Feedback Sign	TAC-004P	11/2/2020	2019-231Q
	Speed Display Sign	iQ1800 Driver Feedback Sign	TAC-005P	11/2/2020	2019-233Q



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Product	Name	COA	COA Date	Ref. No.
TRASI 15	Traffic Signs, Inc., 1499 East Michigan Avenue, Battle Creek, MI 49014 http://www.trafficsignsinc.com/Site/Home.html			
Blankout Sign	6000-FOBO	TSI-001P	5/22/2002	----
Blankout Sign	6000-LED BO	TSI-004P	10/5/2010	----
Internally Illuminated Sign	6000-CASE	TSI-002P	12/20/2002	----
Internally Illuminated Sign	6000-LED II	TSI-005P	10/5/2010	----
Internally Illuminated Sign	6000-SNS	TSI-003P	12/20/2002	----
TRAST 15	TraStar, Inc., 860 N. Dorothy Dr. Suite 600, Richardson, TX 75081 http://www.trastarusa.com/			
Internally Illuminated Sign	JXM-STN	TRA-030P	11/23/2010	----
TRFPC 15	TAPCO - Traffic & Parking Control Company, Inc., 5100 W. Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/			
School Warning Sign System	Dual BlinkerBeacon School Zone System LED	TCO-003P	8/14/2018	2017-196Q
Warning Sign System	BlinkerBeacon LED Beacons	TCO-002P	4/10/2018	2017-237Q
WELSM 15	Wells Sign Manufacturing, Inc., 109 Brothers Road, Woodland, WA 98674			
Blankout Sign	BO	WEL-001P	10/10/1992	----
Internally Illuminated Sign	II	WEL-003P	10/10/1992	----

1103.03 Flat Sheet Aluminum Signs with Stiffeners (Post Mounted Types A, D, and E; and Structure

Last Revised: 10/23/2019

Product	Name	COA	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/		
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000		
Fabricated Aluminum Sign Manufacturer			-
Fabricated Aluminum Sign Manufacturer			----



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Last Revised: 10/23/2019

	Product	Name	COA	Ref. No.
DONLN 15	Donlyn Company/Osburn Associates, Inc., P.O. Box 912, Logan, OH 43138 Fabricated Aluminum Sign Manufacturer	http://www.osburns.com/		----
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 Fabricated Aluminum Sign Manufacturer	http://www.elderlee.com/		----
ESTTC 15	Established Traffic Control, Inc., 3162 Unionville Pike, Hatfield, PA 19440 Fabricated Aluminum Sign Manufacturer			2019-200Q
GARDS 15	Garden State Highway Products, Inc., 1740 East Oak Road, Vineland, NJ 08361 Fabricated Aluminum Sign Manufacturer	http://www.gardenstatehwy.com/default.aspx		----
INSHS 15	Interstate Highway Sign Company, 7415 Lindsey Road, Little Rock, AR 72206 Fabricated Aluminum Sign Manufacturer			----
LYLE- 15	Lyle Signs, Inc., 6294 Bury Drive, Eden Prairie, MN 55346 Fabricated Aluminum Sign Manufacturer	http://lylesigns.com/		----
MAISI 15	Main Stream Industries, Inc., 7340 Bernville Road, Bernville, PA 19506 Fabricated Aluminum Sign Manufacturer			----
MILLS 15	Miller Municipal Supply LLC, 1117 Snyder Road, West Lawn, PA 19609 Fabricated Aluminum Sign Manufacturer	http://www.mmssigns.com/		----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032 Fabricated Aluminum Sign Manufacturer			----
ROCAL 15	Rocal, Inc., 3186 CR 550, Frankfort, OH 45628 Fabricated Aluminum Sign Manufacturer	http://www.rocal.com/		----
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957 Fabricated Aluminum Sign Manufacturer			----



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Last Revised: 10/23/2019

Product	Name	COA	Ref. No.
TRFSC 15	Trafco Supply Company, 1420 Ford Avenue, Harrisburg, PA 17109 Fabricated Aluminum Sign Manufacturer		----
USMUS 15	U. S. Municipal Supply, Inc., 10583 Raystown Road, Huntingdon, PA 16652 http://store.usmuni.com/ Fabricated Aluminum Sign Manufacturer		----

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 11/25/2020

All listed manufacturers are approved to make signs using prepared faces.

Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic. Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
3DS-1 15	3D Specialties, Inc., 1110 25th Avenue N, Fargo, ND 58102 Sign Manufacturer	PDT 2150-19	Cut Out Characters and Silk Screen		-
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000 Sign Manufacturer	PDT 110-68	Cut Out Characters and Silk Screen		----
ACESI 15	Ace of Signs, 500 Airport Road, Selinsgrove, PA 17870 http://www.aceofsigns.com/ Sign Manufacturer	PDT 1870-04			----
AMEFT 15	American Fiber Technologies, 500 Bostwick Avenue, Bridgeport, CT 06605 https://www.frpsigns.com/ Sign Manufacturer	PDT 2040-11		Only faces manufactured by 3M, PDT 110-68	----



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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 11/25/2020

All listed manufacturers are approved to make signs using prepared faces.

Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic. Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
ASSPR 15	Associated Products Company, 2 East Road, Mechanicsburg, PA 17050 Sign Manufacturer	http://www.associated-products.com/ PDT 820-78	Cut Out Characters	Black on Orange Construction Series Only	----
ATLAS 15	Atlas Flasher & Supply Company, 2949 Felton Road, Norristown, PA 19401 Sign Manufacturer	http://www.atlasflasher.com/ PDT 1100-84			----
BASSEC15	Bassler Equipment Co., Inc., 1300 Wyoming Avenue, Forty Fort, PA 18704 Sign Manufacturer	http://www.basslerequipment.com/ PDT 2120-18	Cut Out Characters		----
BLAIR 15	Blair Excavating Company Inc., R. R. #5, Box 308A, Tyrone, PA 16686 Sign Manufacturer	PDT 1400-91			----
BONE- 15	Bone Safety Signs, Inc., 2151 Northwest Parkway, S.E., Suite 100, Marietta, GA 30067 Sign Manufacturer	http://www.bonesafety.com/ PDT 1320-89	Silk Screen		----
BRADC 15	Bradco Supply Company, 80 Old Mills Rd., Towanda, PA 18848 Sign Manufacturer	http://www.bradcosupplycompany.com/default.htm PDT 270-68	Cut Out Characters and Silk Screen		----
CAMSC 15	Camsco Services, Inc., 255 Pennbriar Drive, Erie, PA 16509 Sign Manufacturer	https://camsco.com/public/home.html PDT 1750-01	Cut Out Characters		----
CASSI 15	Cassidy Signs, 7 Cassidy Drive, Burgettstown, PA 15021 Sign Manufacturer	PDT 2050-11	Cut Out Characters		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
CENTS 15	Keystone Sign Systems DBA Central Sign Systems, 5215 Simpson Ferry Road, Mechanicsburg, PA 17050 Sign Manufacturer	PDT 1560-95	Cut Out Characters and Silk Screen		----
CLARS 15	Clarion Signs, 255 Whisner Road, Shippenville, PA 16254 http://www.clarionsafety.com/ Sign Manufacturer	PDT 1690-99			----
COMSG 15	Compusign & Graphic, 1295 Baltimore Pike, Toughkenamon, PA 19374-0271 http://compusign.com/ Sign Manufacturer	PDT 1820-03	Cut Out Characters and Silk Screen		----
CORCG 15	Corson Custom Graphics, 53 Corson Lane, Canonsburg, PA 15317 Sign Manufacturer	PDT 1850-04	Cut Out Characters and Silk Screen		----
CORRE 15	Correctional Industries Sign Shop, State Correctional Institute - Fayette, 50 Overlook Drive, Labelle, PA 15450 Sign Manufacturer	PDT 1730-01	Cut Out Characters and Silk Screen		----
COSDS 15	C.O. Signs & Designs, Inc., 10125 Route 56, Box B, Homer City, PA 15748 Sign Manufacturer	PDT 1770-02	Cut Out Characters and Silk Screen		----
CSIGNS15	Commonwealth Signs LLC, 135 Antler Drive, Canadensis, PA 18325 http://commonwealthsignsllc.com/ Sign Manufacturer	PDT 2170-20	Cut Out Characters		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
CUSTP 15	Custom Products Corporation, P.O. Box 54091, Jackson, MS 39288-4091 Sign Manufacturer	http://www.customproducts.net/ PDT 1790-02	Silk Screen		----
D&DLE 15	D & D Leasing, LLC, 1621 Middle Road, Gibsonia, PA 15044 Sign Manufacturer	PDT 1550-95	Cut Out Characters and Silk Screen		----
DAYCS 15	Dayton Computer & Sign, Inc., 107 N. School Street, Apt. 3, P. O. Box 616, Dayton, PA 16222 Sign Manufacturer	PDT 1890-05	Cut Out Characters		----
DECAL 15	Decal Driven.com, Box 108, Walston, PA 15781 Sign Manufacturer	PDT 1880-04	Cut Out Characters		----
DECKR 15	Decker Supply Company, Inc., 1115 O'Neill Avenue, Madison, WI 53704 Sign Manufacturer	http://deckersupply.com/ PDT 1010-81	Cut Out Characters and Silk Screen		----
DICKE 15	Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 Sign Manufacturer	http://dicketool.com/ PDT 750-76	Silk Screen		----
DONLN 15	Donlyn Company/Osburn Associates, Inc., P.O. Box 912, Logan, OH 43138 Sign Manufacturer	http://www.osburns.com/ PDT 1760-01	Cut Out Characters and Silk Screen		----
DTRAF 15 Facility	Directional Traffic LLC, 1580 Gabler Road, Suite 103, Chambersburg, PA 17201 1580 Gabler Road Suite 103 Chambersburg, PA 17201 Sign Manufacturer	http://www.directionaltraffic.com/ PDT 2130-18	Cut Out Characters		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/				
	Sign Manufacturer	PDT 020-68	Cut Out Characters and Silk Screen		----
	Sign Manufacturer	PDT 021-75	Cut Out Characters and Silk Screen		----
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/				
	Sign Manufacturer	PDT 610-74	Silk Screen		----
ESTTC 15	Established Traffic Control, Inc., 3162 Unionville Pike, Hatfield, PA 19440				
	Sign Manufacturer	PDT 1910-06	Cut Out Characters		----
FISTC 15	C. R. Fisher Traffic Control, LLC, 10176 Chapel Church Road, Red Lion, PA 17356				
	Sign Manufacturer	PDT 1830-04			----
GARDS 15	Garden State Highway Products, Inc., 1740 East Oak Road, Vineland, NJ 08361 http://www.gardenstatehwy.com/default.aspx				
	Sign Manufacturer	PDT 1300-88	Cut Out Characters and Silk Screen		----
GEMML 15	D.E. Gemmill, Inc., 10174 Chapel Church Road, Red Lion, PA 17356 http://degemmill.com/				
	Sign Manufacturer	PDT 1720-01	Cut Out Characters		----
GRIFN 15	Griffin Sign Company, 464 North Randolph Ave., Cinnaminson, NJ 08077 http://www.griffinhighway.com/index.php				
	Sign Manufacturer	PDT 680-75	Cut Out Characters and Silk Screen		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
GRIMC 15	Grimco, Inc., 1585 Fencorp Drive, Fenton, MO 63026 http://www.grimco.com/ Sign Manufacturer	PDT 290-69	Silk Screen		----
HALLS 15	Hall Signs, Inc., 4495 West Vernel Pike, P.O. Box 515, Bloomington, IN 47402 http://store.hallsigns.com/ Sign Manufacturer	PDT 560-73			----
HIWSS 15	Hi-Way Safety Systems, Inc., 9 Rockview Way, Rockland, MA 02370 http://www.hiwayss.com/concrete5.4.2.2/index.php Sign Manufacturer	PDT 1860-04	Cut Out Characters		----
IBITK 15	ibisSIGNS, LLC (Formerly Ibis Tek, LLC), 496 Pittsburgh Road, Butler, PA 16002 http://www.ibissigns.com/ Sign Manufacturer	PDT 2010-08	Silk Screen, Street Name Signs		----
IMAGE 15	Image Signs Inc., 1720 B. Margaret Ave., Altoona, PA 16601 http://imagesignsinc.com/ Sign Manufacturer	PDT 1460-93			----
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/ Sign Manufacturer	PDT 1810-03	Silk Screen		----
INSHS 15	Interstate Highway Sign Company, 7415 Lindsey Road, Little Rock, AR 72206 Sign Manufacturer	PDT 670-75	Cut Out Characters and Silk Screen		----
INTER 15	Interstate Logos, L.L.C., 6696 Exchequer Drive, Baton Rouge, LA 70809 http://www.interstatelogos.com/main/ Sign Manufacturer	PDT 2110-17	Silk Screen		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
JLSCR 15	J. L. Screen Printing, Rt.#31, P.O. Box 324, Ruffs Dale, PA 15697 http://www.jlscreen.com/ Sign Manufacturer	PDT 1140-84	Cut Out Characters and Silk Screen		----
KAGSW 15	KAG Signworks, 444 Saint Clair Ave., Clairton, PA 15025 Sign Manufacturer	PDT 030-68	Cut Out Characters and Silk Screen		----
KEMGR 15	Kemmerer Graphics, 6169 Sullivan Trail, Nazareth, PA 18064 Sign Manufacturer	PDT 2000-08	Cut Out Characters		----
KORMN 15	Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/ Sign Manufacturer	PDT 1050-82	Silk Screen		----
KRIEG 15	Daniel B. Krieg, Inc., 4200 Paxton Street, Harrisburg, PA 17111 http://www.dbkrieginc.com/ Sign Manufacturer	PDT 1470-93	Cut Out Characters		----
LETIN 15	Letterco, Inc., 1069 County Line Road, Souderton, PA 18964 http://www.letterco.com/ Sign Manufacturer	PDT 1220-86	Cut Out Characters		----
LIGH1 15	Lightle Enterprises of Ohio, LLC, P.O. Box 329, 22 East Springfield Street, Frankfort, OH 45628 http://www.lightleenterprisesohio.com/ Sign Manufacturer	PDT 2100-17	Cut Out Characters, Silk Screen, Borders		----
LYLE- 15	Lyle Signs, Inc., 6294 Bury Drive, Eden Prairie, MN 55346 http://lylesigns.com/ Sign Manufacturer	PDT 260-68	Cut Out Characters and Silk Screen		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
MAISI 15	Main Stream Industries, Inc., 7340 Bernville Road, Bernville, PA 19506 Sign Manufacturer	PDT 1840-04	Cut Out Characters		----
MARKE 15	Marketing Displays, Inc., 38271 West 12 Mile Road, Farmington, MI 48331 https://www.mdiworldwide.com/ Sign Manufacturer	PDT 1160-85	Silk Screen	Flexible Retroreflective Signs Only	----
MCREEK15	Middle Creek Signs, 158 Rigel Lane, Beaver Springs, PA 17812 https://middlecreeksigns.com/ Sign Manufacturer <i>Only approved to manufacturer signs made using prepared faces from Grimco (PDT 290-69).</i>	PDT 2180-20		Prepared Sign Faces (Grimco PDT 290-69)	2020-156Q
MILLS 15	Miller Municipal Supply LLC, 1117 Snyder Road, West Lawn, PA 19609 http://www.mmssigns.com/ Sign Manufacturer	PDT 1180-85	Cut Out Characters and Silk Screen		----
MUNSS 15	Municipal Signs & Sales, 1219 Mccloskey Road, Columbiana, OH 44408 Sign Manufacturer	PDT 1130-84	Cut Out Characters and Silk Screen		----
NATSC 15	National Sign Company, Inc., P. O. Box 25, Ottawa, KS 66067 Sign Manufacturer	PDT 940-80	Cut Out Characters and Silk Screen		----
NEWMA 15	Newman Signs, Inc., Business Loop West, P. O. Box 1728, Jamestown, ND 58401 http://www.newmansigns.com/ Sign Manufacturer	PDT 930-80	Cut Out Characters and Silk Screen		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
NISSE 15	Andrew W. Nissly, Inc., 544 W. Mill Avenue, P.O. Box 633, Lancaster, PA 17608 Sign Manufacturer	PDT 230-68	Cut Out Characters and Silk Screen		----
OSBAI 15	Osburn Associates Inc., 11931 St Rt 93 N, P.O. Box 912, Logan, OH 43138 http://www.osburns.com/ Sign Manufacturer	PDT 1760-01	Cut Out Characters and Silk Screen		----
PADER 15	Penn Nursery @ Wood Shop, DCNR Bureau Of Forestry, 137 Penn Nursery Road, Spring Mills, PA 16875 http://dcnr.state.pa.us/forestry/stateforests/pennnursery/index.htm Sign Manufacturer	PDT 1150-85	Cut Out Characters and Silk Screen		----
PALMR 15	Palmer Products Imaging, 2808 Broadway Blvd., Monroeville, PA 15146 https://palmerproductsimaging.com/ Sign Manufacturer	PDT 500-72	Silk Screen		----
PEXCO 15 Facility	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic 3110 70th Avenue East Tacoma, WA 98424 Sign Manufacturer	PDT 1780-02		Yield to Pedestrian Signs and Barricade Rails Only	----
POCDW 15	Pocono Digital Woodshop, 105 Marion Ct., Shohola, PA 18458 http://poconodigitalwoodshop.com/ Sign Manufacturer <i>May manufacture and sell only signs made using prepared faces from Grimco Inc., PDT 290-69.</i>	PDT 1990-08			----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
POWCC 15	Power Contracting Company, 61 Arch Street Ext., Suite 201, Carnegie, PA 15106 Sign Manufacturer	http://powercontractingllc.com/ PDT 2020-09	Cut Out Characters		----
POWEL 15	Powell Engineering Contractors Inc., P. O. Box 4100, Reading, PA 19606 Sign Manufacturer	PDT 1420-92			----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032 Sign Manufacturer	PDT 060-68	Cut Out Characters and Silk Screen		----
PSU-1 15	Penn State University, 101M Physical Plant, University Park, PA 16802 Sign Manufacturer	PDT 2160-19		Penn State Football Signs Only	----
RAELY 15	Rae-Lyn Enterprises, Inc., P.O. Box 50, Spring Church, PA 15686 Sign Manufacturer	http://www.raelynterprises.com/ PDT 1900-05	Cut Out Characters and Silk Screen		----
RAPGM 15	Greggory M. Rapp, 326 E. Broad St. Apt. 1R, Bethlehem, PA 18018 Sign Manufacturer	PDT 1970-08	Cut Out Characters		----
RAPSI 15	Rapp Signs, Inc, 3979 Ny Route 206, Greene, NY 13778 Sign Manufacturer	http://rappsigns.com/ PDT 2030-09			----
	<i>May manufacture and sell only signs made using prepared faces from Eastern Metal of Elmira Inc., PDT 021-75.</i>				



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
REIDL 15	Reidler Decal Corporation, 264 Industrial Park Road, St. Clair, PA 17970 http://www.reidlerdecal.com/				
	Sign Manufacturer	PDT 340-69	Silk Screen		----
	Sign Manufacturer	PDT 349-75	Silk Screen		----
RELSS 15	Reliable Sign & Striping Inc., 354 W. Moorestown Road, Nazareth, PA 18064 http://www.reliable-sign.com/				
	Sign Manufacturer	PDT 1650-97	Cut Out Characters and Silk Screen		----
ROCAL 15	Rocal, Inc., 3186 CR 550, Frankfort, OH 45628 http://www.rocal.com/				
	Sign Manufacturer	PDT 1030-82	Cut Out Characters and Silk Screen		----
RPMSL 15	RPM Signs and Lighting, 631 South 17th Street, Harrisburg, PA 17104 http://rpmsignsandlighting.com/				
	Sign Manufacturer	PDT 2080-17	Cut Out Characters		----
RSTS1 15	RoadSafe Traffic Systems, 55 Bodwell Street, Avon, MA 02322				
	Sign Manufacturer	PDT 2090-17	Cut Out Characters, Silk Screen, Borders		----
S&SSS 15	S & S Signs And Safety Equipment, Inc., P. O. Box 102, Big Flats, NY 14814 http://signssafety.com/				
	Sign Manufacturer	PDT 1530-95	Cut Out Characters and Silk Screen	Flexible Material, C-II and Non-Reflective	----
SAFSG 15	Safety Sign Company, P. O. Box 360500, Cleveland, OH 44136 http://safetysignco.com/				
	Sign Manufacturer	PDT 1060-82	Cut Out Characters and Silk Screen		----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
SAFTS 15	Signs Plus of Kanona, Inc., 7964 N.Y.S. Rt. 53, Bath, NY 14810 http://signsplusofkanona.com/ Sign Manufacturer	PDT 1380-91	Cut Out Characters, Silk Screen, Borders		----
SHANN 15	Shannon-Baum Signs, Inc., 105 Competitive Goals Drive, Eldersburg, MD 21784 http://www.shannonbaum.com/ Sign Manufacturer	PDT 950-80	Cut Out Characters and Silk Screen		----
SHASG 15	Sharp Signs & Graphics, 202 S. 6th Street, Emmaus, PA 18049 http://sharpsng.com/ Sign Manufacturer	PDT 2060-12	Cut Out Characters		----
SI&BL 15	Signs & Blanks, Inc., P.O. Box 2234, Cleveland, OH 44309-2234 Sign Manufacturer	PDT 1520-95	Cut Out Characters and Silk Screen		----
SIGUC 15	Sign-Up Corporation, P. O. Box 14624, Portland, OR 97293 http://signupcorp.com/moved.asp Sign Manufacturer	PDT 1370-91	Silk Screen	Flexible Roll-up Type	----
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957 Sign Manufacturer	PDT 1040-82	Cut Out Characters and Silk Screen		----
SULCO 15	Sullivan County COG, P.O. Box 239, Dushore, PA 18614 http://sullivancountycog.com/ Sign Manufacturer	PDT 1980-08	Cut Out Characters	Street Name Signs D 3-1	----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
T&W-T 15	T & W Traffic Control, 1505 Rohrerstown Road, Lancaster, PA 17601 Sign Manufacturer	http://www.twtrafficcontrol.com/ PDT 1280-88	Cut Out Characters and Silk Screen	----	
TAPCO 15	TAPCO - Traffic & Parking Control Company, Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223 Sign Manufacturer	http://www.tapconet.com/ PDT 1940-07	Silk Screen	----	
TCI-1 15	Traffic Control Industries, LLC, 805 W 5th Street, Unit 15, Lansdale, PA 19446 Sign Manufacturer	PDT 2140-18	Cut Out Characters	----	
TRFSS 15	Traffic & Safety Signs, Inc., 703 Terminal Way, Kennett Square, PA 19348 Sign Manufacturer	PDT 1230-86	Cut Out Characters and Silk Screen	----	
TRFXD 15	Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 Sign Manufacturer	http://www.traffixdevices.com/ PDT 1390-91	Silk Screen	----	
TRREG 15	Traffic Regulators, LLC, 7 Regulators Lane, Suite 1, Avoca, PA 18641-1749 Sign Manufacturer	PDT 2070-16	Cut Out Characters	----	
TRSSR 15	Traffic Services Sales & Rentals, Inc., 1128 North Graham Street, Allentown, PA 18109 Sign Manufacturer	http://trafficservicesalesandrental.com/ PDT 850-79	Cut Out Characters and Silk Screen	----	



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i> Sign Manufacturer	PDT 1300-89	Cut Out Characters and Silk Screen		----
USMUS 15	U. S. Municipal Supply, Inc., 10583 Raystown Road, Huntingdon, PA 16652 http://store.usmuni.com/ Sign Manufacturer	PDT 210-68	Cut Out Characters and Silk Screen		----
USSSC 15	U. S. Standard Sign Company, 11400 West Addison St., Franklin Park, IL 60131 http://www.usstandardsign.com/index.html Sign Manufacturer	PDT 770-76	Cut Out Characters and Silk Screen		----
VICSI 15	Victory Signs, 119 Fire Academy Road, Homer City, PA 15748 Sign Manufacturer	PDT 1950-07	Cut Out Characters and Silk Screen		----
VINGU 15	Vinyl Graphics Unlimited, 9912 Route 322, Shippenville, PA 16254 Sign Manufacturer	PDT 1700-00	Cut Out Characters		----
VITSI 15	Vital Signs, 1915 Park Manor Blvd., Pittsburgh, PA 15205 http://www.vitalsigns.us.com/ Sign Manufacturer	PDT 1960-07	Cut Out Characters and Silk Screen		----
VULSS 15	Vulcan Signs, 408 E. Berry Avenue, P. O. Box 1850, Foley, AL 36536-1850 http://www.vulcaninc.com/?p=vulcan_signs Sign Manufacturer	PDT 570-73	Cut Out Characters and Silk Screen		----



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Posted:
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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 11/25/2020

All listed manufacturers are approved to make signs using prepared faces.

Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic. Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
WALSH 15	Stephenson Equipment, Inc., 796 Unionville Rd., Prospect, PA 16052 <i>Formerly Walsh Equipment, Inc.</i>				
	Sign Manufacturer	PDT 460-70	Cut Out Characters		----
WEIGL 15	H. A. Weigand, Inc., 1409 State Road, Phoenixville, PA 19460 http://weigandsigns.com/				
	Sign Manufacturer	PDT 740-76	Cut Out Characters and Silk Screen		----
WHELA 15	J.S. Whelan Co., Inc., 13810 Route 30, North Huntingdon, PA 15642				
	Sign Manufacturer	PDT 400-70	Cut Out Characters and Silk Screen		----
WKZSS 15	Work Zone Safety Specialists Inc., 1764 Columbia Turnpike, Castleton, NY 12033				
	Sign Manufacturer	PDT 1740-01	Cut Out Characters		----

1103.07(a) Steel S or W Beam Posts (For Post Mounted Signs, Type A)

Mill Certification meeting the standard or contract specifications is required. No listings are required in Bulletin 15.

Steel Products Procurement Act Applies.

1103.07(b) Breakaway Systems (For Post Mounted Signs, Type A)

Last Revised: 4/6/2015

Steel Products Procurement Act Applies.

Product	Name	COA	Ref. No.
TRASA 15	Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/		



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1103.07(b) Breakaway Systems (For Post Mounted Signs, Type A)

Last Revised: 4/6/2015

Steel Products Procurement Act Applies.

Product	Name	COA	Ref. No.
TRASA 15 Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/	Breakaway System (For Post Mount Sign, Type A)	Type I	----

1103.08(a) Steel Channel Bar Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 6/13/2016

Steel Products Procurement Act Applies.

Product	Name	COA	Post Size	Posts Per 7' Path	Breakaway System	Ref. No.
CHIHS 15 Chicago Heights Steel, 211 E. Main Street, Chicago Heights, IL 60411 http://chs.com/	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-4	4 lb/ft (5.94kg/m) or less	3	Bracer Bar System	----
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-4	4 lb/ft (5.94kg/m) or less	2	Erect Ease System	----
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-4	4 lb/ft (5.94kg/m) or less	3	Universal Spacer	----
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-4	1.12 lb/ft (1.66kg/m)		Multiple Sign Mounting Stringers	----



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Section 1103: Traffic Signing and Marking

1103.08(a) Steel Channel Bar Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 6/13/2016

Steel Products Procurement Act Applies.

Product	Name	COA	Post Size	Posts Per 7' Path	Breakaway System	Ref. No.
FRANK 15	Franklin Industries, 645 Atlantic Ave., Franklin, PA 16323 http://store.franklinindustriescos.com/					
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-3	4 lb/ft (5.94kg/m) or less	2	EZE-Erect System	----
	<i>Must match the same configuration as tested and approved by FHWA, as shown in Publication 111. Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>					
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-3	4 lb/ft (5.94kg/m) or less	3	Base Bolted System	----
	<i>Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>					
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-3	4 lb/ft (5.94kg/m) or less	3	Universal Spacer	----
	<i>Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>					
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-3	1.12 lb/ft (1.66kg/m)		Multiple Sign Mounting Stringers	----
	<i>Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>					
NUCR6 15	Nucor Steel Marion, Inc., 912 Cheney Ave., Marion, OH 43302 http://www.nucor.com/					
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-1	1.12 lb/ft (1.66kg/m) or less		Multiple Sign Mounting Stringers	----
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-1	3 lb/ft (4.46kg/m) or less	1	Minute Man System	1992-153
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-1	4 lb/ft (5.94kg/m) or less	3	Lap Splice System	1992-153
	Steel Channel Bar Post (For Post Mount Sign, Type B)	SP-1	4 lb/ft (5.94kg/m) or less	3	Universal Spacer	1992-153



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1103.08(b) Steel Square Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 7/9/2015

Steel Products Procurement Act Applies. [Standard Drawing TC-8702B \(Publication 111\)](#)

Product	Name	COA	Gauge	Size (in)	Ref. No.
ALLTC 15	Allied Tube & Conduit Corporation, 16100 South Lathrop Ave., Harvey, IL 60426 http://www.alliedeg.us/				
Steel Square Posts (For Post Mount Sign, Type B)	18" Sleeve		12 ga (33 ksi)	2", 2.25", 2.5"	1994-136B
Steel Square Posts (For Post Mount Sign, Type B)	18" Sleeve		3/16" (33 ksi)	3"	1994-136B
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	18" Sleeve		12 ga (60 ksi)	2", 2.25", 2.5"	1994-136B
Steel Square Posts (For Post Mount Sign, Type B)	36" Anchor Post		12 ga (33 ksi)	1.75", 2", 2.25", 2.5"	1994-136B
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	36" Anchor Post		3/16" (33 ksi)	3"	1994-136B
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	36" Anchor Post		12 ga (60 ksi)	1.75", 2", 2.25"	1994-136B
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		12 ga (33 ksi)	1.5", 1.75", 2", 2.25"	1994-136A
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		10 ga (33 ksi)	2.5"	1994-136A
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		14 ga (60 ksi)	1.5", 1.75", 2"	1994-136A



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Section 1103: Traffic Signing and Marking

1103.08(b) Steel Square Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 7/9/2015

Steel Products Procurement Act Applies. [Standard Drawing TC-8702B \(Publication 111\)](#)

Product	Name	COA	Gauge	Size (in)	Ref. No.	
STLSP 15	St. Louis Steel Products, Inc., 191 Rock Industrial Park Drive, St. Louis, MO 63044-1210					
	Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts	12 ga	1.75", 2", 2.25"	1999-153Q	
	Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts	14 ga	1.75"	1999-153Q	
WESTH 15	Ultimate Highway Solutions, 11095 West Olive Road, Grand Haven, MI 49417 http://www.uhsolutions.net/					
	Steel Square Posts (For Post Mount Sign, Type B)	Anchor Post	SP-5	12 ga (50 ksi)	2", 2.25", 2.5"	1997-054
	Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts	SP-5	14 ga (60 ksi)	1.75", 2", 2.25"	1997-054
	Steel Square Posts (For Post Mount Sign, Type B)	Sleeve	SP-5	12 ga (50 ksi)	2.25", 2.5"	1997-054
	<i>Anchor sleeve is required only for concrete installation.</i>					

1103.09(a) Treated Wood Posts (For Post Mount Signs, Types C and E)

Last Revised: 9/29/2015

Product	Name	COA	Ref. No.
AMETS 15	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/		
	Treated Wood Post (For Post Mount Sign, Type C and E)		1999-136Q
GRE-1 15 Plant	Great Southern Wood Preserving, P. O. Box 610, Abbeville, AL 36310 http://greatsouthernwood.com/ Hagerstown, MD		
	Treated Wood Post (For Post Mount Sign, Type C and E)		2011-162Q
WOOPI 15	Stella-Jones Corporation, 15939 Historyland Highway, P.O. Box 158, Warsaw, VA 22572 http://www.woodpreservers.com/ <i>Formerly McFarland Cascade Holdings, Inc.</i>		
	Treated Wood Post (For Post Mount Sign, Type C and E)		2009-127Q



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Section 1103: Traffic Signing and Marking

1103.12 Sign and Distance Marker Supports

Last Revised: 1/5/2017

Product	Name	Ref. No.
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1103.14 Reflective Glass Beads (For Pavement Markings)

Last Revised: 2/11/2016

Product	Name	COA	Bead Type	Ref. No.
POTT1 15 Plant	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction			
	Cleveland, OH			----
	Type A, Reflective Glass Bead			1994-084
	Type C, Reflective Glass Bead	Visibeads		
POTT2 15 Plant	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction			
	Potsdam, NY			----
	Type A, Reflective Glass Bead			1994-084
	Type C, Reflective Glass Bead	Visibeads		
POTT3 15 Plant	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction			
	Apex, NC			1990-079
	Type A, Reflective Glass Bead			
POTT4 15 Plant	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction			
	Malvern, PA			1994-084
	Type C, Reflective Glass Bead	Visibeads		
POTT5 15 Plant	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction			
	Muscatine, IA			1995-146
	<i>Formerly Flex-O-Lite (FLEX1 15)</i>			
	Type A, Reflective Glass Bead			
POTT6 15 Plant	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction			
	Paris, TX			1995-146
	<i>Formerly Flex-O-Lite (FLEX2 15)</i>			
	Type A, Reflective Glass Bead			
SWAR0 15	Swarco Reflex LLC, 900 N. Denton, Mexia, TX 76667 https://www.swarco.com/northamerica			
	Type B, Reflective Glass Bead	Megalux	GB-01	2005-016Q



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Section 1103: Traffic Signing and Marking

1103.14 Reflective Glass Beads (For Pavement Markings)

Last Revised: 2/11/2016

Product	Name	COA	Bead Type	Ref. No.
SWAR1 15	Swarco Industries LLC, 270 Rutherford Lane, P.O. Box 89, Columbia, TN 38402 https://www.swarco.com/northamerica			
Type A, Reflective Glass Bead				2004-110Q
Type B, Reflective Glass Bead	Megalux	GB-01	Type B	2005-016Q
Type E, Reflective Glass Bead	Utah Blend	GB-01		2012-185Q



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Section 1104: Traffic Signals

1104.02 Traffic Signal Supports (Steel)

Last Revised: 8/29/2018

Steel Products Procurement Act applies. [Publication 148 Traffic Standards - Signals \(TC-8800 Series\)](#)

	Product	Name	COA	Ref. No.
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Traffic Signal Support Fabricator			2016-244
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Traffic Signal Support Fabricator			2018-177Q
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Valley, NE 68064 Traffic Signal Support Fabricator			----
VALM5 15 Plant	Valmont Industries, Inc., 2551 Valmont Drive, Brenham, TX 77833 http://www.valmont.com/ Brenham, TX Traffic Signal Support Fabricator			----

1104.02(e) Traffic Signal Anchor Bolts, Hex Nuts, and Washers

Last Revised: 7/16/2015

Refer to [Hardware Manufacturing Symbols](#)

	Product	Name	COA	Ref. No.
AMBBO 15	Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 http://www.ameribolt.com/ Anchor Bolts	A-449		2012-150QA
ATLRC 15	Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/ Anchor Bolts	A-449		2011-088Q
BBC-F 15	BBC Fastners, Inc., 4210 Shirley Lane, Alsip, IL 60803 http://www.bbcfasteners.com/ Anchor Bolts, Hex Nuts and Washers	A-449		1989-238
BIRFM 15	Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 Galvanized Anchor Bolts	A-449 Bolts		2015-033Q



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Section 1104: Traffic Signals

1104.02(e) Traffic Signal Anchor Bolts, Hex Nuts, and Washers

Last Revised: 7/16/2015

Refer to [Hardware Manufacturing Symbols](#)

	Product	Name	COA	Ref. No.
DECKM 15	Decker Manufacturing Corporation, 703 North Clark Street, Albion, MI 49224 Anchor Bolts, Hex Nuts and Washers	http://www.deckernut.com/ A-563, Grade C Hex Nut		1989-094
FOUND 15	Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 Galvanized Anchor Bolts	http://fsabolt.com/ A-449		1990-385C
GAFBC 15	Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 Anchor Bolts	http://gaffneybolt.com/ A-449		2003-008Q
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 Galvanized Anchor Bolts	http://www.haydonbolts.com/ A-449		1990-039
HERBC 15	Hercules Bolt Company, 1010 River Bluff Drive, Madison, TN 37115 Galvanized Anchor Bolts	http://herculesbolt.com/ A-449		1998-198
JHBTS 15	J. H. Botts, Inc., 253 East Bruce St., Joliet, IL 60432 Galvanized Anchor Bolts	http://www.jhbotts.com/products.htm A-449		2001-059Q
PORBM 15	Portland Bolt and Manufacturing, Inc., 3441 NW Guam Street, P.O. Box 2866, Portland, OR 97210 Galvanized Anchor Bolts	http://www.portlandbolt.com/ A-449		2008-112Q
SOEBS 15	Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 Galvanized Anchor Bolts	http://www.sebolt.com/index.html A-449		1991-058
STCBS 15	Steel City Bolt and Screw, LLC, 230 West Valley Road, Birmingham, AL 35201 Galvanized Anchor Bolts	http://www.steelcitybolt.com/ A-449		1990-037
UNIQU 15	Unique Industries, P.O. Box 683, 13488 Highway 25 North, Calera, AL 35040 Anchor Bolts	http://www.uiind.com/ A-449		1990-145

1104.03(a)4 Traffic Signal Flashers

Last Revised: 6/10/2015



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Section 1104: Traffic Signals

1104.03(a)4 Traffic Signal Flashers

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
EBERL 15	Eberle Design Inc., 3819 East Lasalle, Phoenix, AZ 85040 http://www.editraffic.com/			
Traffic Signal Flasher	810 Series	EBD-001S	10/6/1987	----
ELECT 15	Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/			
Traffic Signal Flasher	FS-2	ECH-026P	2/17/2012	----
GENTR 15	General Traffic Equipment Corporation, 259 Broadway, Newburgh, NY 12550 http://www.generaltrafficequip.com/			
Traffic Signal Flasher	SSRF Series	GTE-003P	4/9/1991	----
PDC- 15	PDC, 210 Estates Drive, Suite 110, Roseville, CA 95678			
Traffic Signal Flasher	PDC SSF-86	PDC-005S	1/9/1989	----
RENOA 15	Reno A & E, Inc., 4655 Aircenter Circle, Reno, NV 89502 http://www.renoae.com/			
Traffic Signal Flasher	FL-200	RAE-020P	5/5/2004	----
TRAPA 15	Traffic Parts, Inc., P. O. Box 837, Spring, TX 77383 http://www.trafficparts.com/			
Facility	Chapel Hill Manufacturing 27895 Robinson Road Conroe, TX 77385			
Traffic Signal Flasher	Model 150	TPI-005P	11/23/2010	----
Traffic Signal Flasher	Model 158	TPI-005P	11/23/2010	----
Traffic Signal Flasher	Model 159	TPI-005P	11/23/2010	----
Traffic Signal Flasher	Model 572	TPI-005P	11/23/2010	----

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-1

Last Revised: 9/4/2018

Product	Name	COA	COA Date	Ref. No.
ECON0 15	Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/			
NEMA TS-1 Signal Controller	ASC/3 Rack Mounted	ECO-117P	10/21/2009	----
NEMA TS-1 Signal Controller	ASC/3-2100	ECO-116P	5/19/2006	----



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Section 1104: Traffic Signals

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-1

Last Revised: 9/4/2018

Product	Name	COA	COA Date	Ref. No.	
INTLI 15	Intelight, Inc., 3450 S. Broadmont Drive, Suite 126, Tucson, AZ 85713 http://www.intelight-its.com/				
	NEMA TS-1 Signal Controller	X-1	INT-004P	9/24/2013	----
	NEMA TS-1 Signal Controller	X-1L	INT-003P	9/24/2013	----
	NEMA TS-1 Signal Controller	X-2	INT-005P	9/24/2013	----
MCCAN 15	McCain Inc., 2365 Oak Ridge Way, Vista, CA 92081 http://www.mccain-inc.com/				
	NEMA TS-1 Signal Controller	ATC eX	MCC-018P	8/26/2014	-
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
	NEMA TS-1 Signal Controller	980	TFW-003P (NAZ-011P)	4/13/2016	----
PEKTS 15	Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php				
	NEMA TS-1 Signal Controller	3000 E Series	PTS-022P	3/21/1994	----
	NEMA TS-1 Signal Controller	LMD-9200 Series	PTS-040P	5/15/1995	----
SIEME 15	Siemens ITS, 8004 Cameron Road, Austin, TX 78754-3899 http://www.usa.siemens.com/entry/en/				
	NEMA TS-1 Signal Controller	Eagle EPA C300 Series	SMS-211S	1/9/1989	----
	NEMA TS-1 Signal Controller	Eagle EPAC 3108 M40	SMS-001P	9/27/2004	----
	NEMA TS-1 Signal Controller	Eagle EPAC 3608 M40	SMS-002P	9/27/2004	----
	NEMA TS-1 Signal Controller	Eagle EPAC M50	SMS-205P	1/3/2003	----
	NEMA TS-1 Signal Controller	Eagle MARC 360	SMS-210P	8/1/1985	----
	NEMA TS-1 Signal Controller	Eagle MARC 390 M34	SMS-208P	6/4/2003	----
USTRA 15	U. S. Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221				
	NEMA TS-1 Signal Controller	820A	UST-137S	10/6/1987	----

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-2

Last Revised: 6/4/2020



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Section 1104: Traffic Signals

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-2

Last Revised: 6/4/2020

Product	Name	Controller Type	COA	COA Date	Ref. No.
ECON0 15	Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
	NEMA TS-2 Signal Controller	ASC/2S-1000	Type 1	ECO-118P	10/21/2009 ----
	NEMA TS-2 Signal Controller	ASC/3 Rack Mounted	Types 1 and 2	ECO-117P	10/21/2009 ----
	NEMA TS-2 Signal Controller	ASC/3-1000	Type 1	ECO-115P	5/19/2006 ----
	NEMA TS-2 Signal Controller	ASC/3-2100	Types 1 and 2	ECO-116P	5/19/2006 ----
	NEMA TS-2 Signal Controller	Cobalt	Types 1 and 2	ECO-127P	4/15/2015 ----
	NEMA TS-2 Signal Controller	Cobalt C	Types 1 and 2	ECO-128P	10/3/2017 2016-229Q
	NEMA TS-2 Signal Controller	Rackmount C	Types 1 and 2	ECO-129P	10/3/2017 2016-230
INTLI 15	Intelight, Inc., 3450 S. Broadmont Drive, Suite 126, Tucson, AZ 85713 http://www.intelight-its.com/				
	NEMA TS-2 Signal Controller	2070 LDX	Types 1 and 2	INT-013P	7/7/2017 2016-263
	NEMA TS-2 Signal Controller	2070LC	Types 1 and 2	INT-012P	7/7/2017 2016-259
	NEMA TS-2 Signal Controller	ATC TS2	Types 1 and 2	INT-001P	11/1/2011 ----
	NEMA TS-2 Signal Controller	ATC TS2	Types 1 and 2	INT-002P	6/6/2011 ----
	NEMA TS-2 Signal Controller	X-1	Types 1 and 2	INT-004P	9/24/2013 ----
	NEMA TS-2 Signal Controller	X-1L	Types 1 and 2	INT-003P	9/24/2013 ----
	NEMA TS-2 Signal Controller	X-2	Types 1 and 2	INT-005P	9/24/2013 ----
	NEMA TS-2 Signal Controller	X3C	Types 1 and 2	INT-009P	7/7/2017 2016-262
	NEMA TS-2 Signal Controller	X3L	Types 1 and 2	INT-010P	7/7/2017 2016-261
	NEMA TS-2 Signal Controller	X3LT	Types 1 and 2	INT-011P	7/7/2017 2016-222
MCCAN 15	McCain Inc., 2365 Oak Ridge Way, Vista, CA 92081 http://www.mccain-inc.com/				
	NEMA TS-2 Signal Controller	ATC eX	Types 1 and 2	MCC-018P	8/26/2014 -
	NEMA TS-2 Signal Controller	FLeX ATC	Types 1 and 2	MCC-019P	5/22/2020 2019-171Q
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
	NEMA TS-2 Signal Controller	980	Types 1 and 2	TFW-003P (NAZ-01)	4/29/1997 ----
	NEMA TS-2 Signal Controller	980 ATC	Types 1 and 2	TFW-011P	5/6/2016 -
	NEMA TS-2 Signal Controller	981	Types 1 and 2	TFW-004P (NAZ-01)	4/13/2016 ----
	NEMA TS-2 Signal Controller	ATC Controller	Types 1 and 2	TFW-013P	8/14/2018 ----
	NEMA TS-2 Signal Controller	Commander	Types 1 and 2	TFW-015P	4/21/2020 2019-224Q



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Section 1104: Traffic Signals

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-2

Last Revised: 6/4/2020

Product	Name	Controller Type	COA	COA Date	Ref. No.
PEKTS 15	Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php				
	NEMA TS-2 Signal Controller	3000 E Series	Types 1 and 2	PTS-022P	3/21/1994 ----
	NEMA TS-2 Signal Controller	ATC-1000	Type 2	PTS-042P	7/11/2011 ----
	NEMA TS-2 Signal Controller	LMD-9200 Series	Type 2	PTS-040P	5/15/1995 ----
SIEME 15	Siemens ITS, 8004 Cameron Road, Austin, TX 78754-3899 http://www.usa.siemens.com/entry/en/				
	NEMA TS-2 Signal Controller	Eagle EPA C300 Series	Types 1 and 2	SMS-211S	1/9/1989 ----
	NEMA TS-2 Signal Controller	Eagle EPAC 3108 M42	Type 2	SMS-003P	9/27/2004 ----
	NEMA TS-2 Signal Controller	Eagle EPAC 3608 M42	Type 2	SMS-004P	9/27/2004 ----
	NEMA TS-2 Signal Controller	Eagle EPAC M51	Type 1	SMS-206P	1/3/2003 ----
	NEMA TS-2 Signal Controller	Eagle EPAC M52	Type 2	SMS-207P	1/3/2003 ----
	NEMA TS-2 Signal Controller	Eagle MARC 360	Types 1 and 2	SMS-210P	8/1/1985 ----
	NEMA TS-2 Signal Controller	Eagle MARC 390 M34	Types 1 and 2	SMS-208P	6/4/2003 ----
	NEMA TS-2 Signal Controller	m60 Series ATC	Types 1 and 2	SMS-231P	6/25/2016 ----

1104.03(b)2 Traffic Signal Controller Assembly: Type 170E

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
DYNTS 15	Dynamic Traffic Systems, Inc., 5050 Cohasset Road, Bldg. #4, Chico, CA 95973 http://dts-i.net/			
	Type 170E Signal Controller	170E	DTS-001P	4/26/2013 ----
MCCAN 15	McCain Inc., 2365 Oak Ridge Way, Vista, CA 92081 http://www.mccain-inc.com/			
	Type 170E Signal Controller	170E	MCC-013S	5/16/1995 ----
SAFET 15	Safetran Traffic Systems, 1485 Garden Of The God's Road, Colorado Springs, CO 80904 http://safetran-traffic.com/			
	Type 170E Signal Controller	170E	STS-059P	10/14/2010 ----

1104.03(c)5 Traffic Signal Time Clock

Last Revised: 7/2/2019



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Section 1104: Traffic Signals

1104.03(c)5 Traffic Signal Time Clock

Last Revised: 7/2/2019

Product	Name	COA	COA Date	Ref. No.
AINFO 15	Applied Information, Inc., 4411 Suwanee Dam Road, Suite 510, Suwanee, GA 30024			
Time Signal Time Clock	AI-500-070	AEA-001P	6/17/2019	2018-225Q
ELECT 15	Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/			
Time Signal Time Clock	ELTEC NTC-17E	EHC-016P	1/27/1999	----
Time Signal Time Clock	TC-18	EHC-027P	6/25/2013	----
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)			
Time Signal Time Clock	CHRONOMAX 100	TFW-001P (NAZ-008P)	2/27/1997	----
RTC-M 15	RTC Manufacturing Inc., P. O. Box 150189, Arlington, TX 76015 http://www.rtc-traffic.com/			
Time Signal Time Clock	AP21	RTC-005S	12/28/1988	----
Time Signal Time Clock	AP22	RTC-006P	9/20/2006	----
Time Signal Time Clock	AP41	RTC-004P	12/28/1988	----
SIGNS 15	Signal Service Inc., 1020 Andrew Drive, West Chester, PA 19380 http://www.signalservice.com/			
Time Signal Time Clock	SSI 21	SSI-006S	5/1/1979	----
TORK- 15	Tork, Inc., 1 Grove Street, Mount Vernon, NY 10550			
Time Signal Time Clock	DIN100B	TKI-007P	9/29/1989	----
Time Signal Time Clock	DTS100B	TKI-003S	10/6/1987	----
Time Signal Time Clock	DTS400B	TKI-001P	3/13/1984	----
Time Signal Time Clock	DZS100B	TKI-004P	6/14/1988	----
Time Signal Time Clock	DZS400BP	TKI-002P	3/13/1984	----

1104.04 Traffic Signal Systems and Communications

Last Revised: 10/15/2015

Product	Name	COA	COA Date	Ref. No.
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Section 1104: Traffic Signals

1104.04 Traffic Signal Systems and Communications

Last Revised: 10/15/2015

Product	Name	COA	COA Date	Ref. No.	
ECON0 15	Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
	NEMA Master Controller Assembly	ASC/2-M	ECO-103S	10/31/1997	----
INTLI 15	Intelight, Inc., 3450 S. Broadmont Drive, Suite 126, Tucson, AZ 85713 http://www.inteligh-its.com/				
	NEMA Master Controller Assembly	X-1	INT-007P	9/24/2013	----
	NEMA Master Controller Assembly	X-1L	INT-006P	9/24/2013	----
	NEMA Master Controller Assembly	X-2	INT-008P	9/24/2013	----
PEKTS 15	Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php				
	NEMA Master Controller Assembly	E Series	PTS-026P	4/29/1996	----
SIEME 15	Siemens ITS, 8004 Cameron Road, Austin, TX 78754-3899 http://www.usa.siemens.com/entry/en/				
	NEMA Master Controller Assembly	Eagle MARC 360	SMS-210P	8/1/1985	----
	NEMA Master Controller Assembly	Eagle MARC 390 M34	SMS-208P	6/4/2003	----
	NEMA Master Controller Assembly	EPAC M51	SMS-229P	10/25/2011	----
	NEMA Master Controller Assembly	EPAC M51	SMS-230P	10/25/2011	----

1104.05(c) Junction Boxes, Traffic Signal

Last Revised: 8/10/2017

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
ARMOR 15	Armorcast Products Company, 13230 Saticoy Street, North Hollywood, CA 91605 http://www.armorcastprod.com/products/		
	JB-26, Reinforced Plastic Mortar	A6001423A	2000-279Q
	JB-27, Reinforced Plastic Mortar	A6001946APC-PA	2002-067Q
	JB-27, Reinforced Plastic Mortar	A6001946APCX24	2000-280Q



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Section 1104: Traffic Signals

1104.05(c) Junction Boxes, Traffic Signal

Last Revised: 8/10/2017

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

	Product	Name	COA	Ref. No.
CDRSC 15	CDR Systems Corporation, 146 South Atlantic Ave., Ormond Beach, FL 32176			
	JB-26, Reinforced Plastic Mortar	SA13-1212-12		2002-086Q
	JB-27, Reinforced Plastic Mortar	SA10-1324-24		2002-086Q
HIL-0 15 Plant	Highline Products, 131 Hartwell Ave., Lexington, MA 02421 http://highlineproducts.com/ Sweetwater, TN			
	JB-26, Reinforced Plastic Mortar	PHA121212		2011-212QA
	JB-27, Reinforced Plastic Mortar	PHA132412		2011-212QB
	JB-27, Reinforced Plastic Mortar	PHA132418H		2013-092Q
	JB-27, Reinforced Plastic Mortar	PHA132424H		2012-049Q
MAREN 15	Martin Enterprises, 19940 Hansen Ave., Romoland, CA 92508 http://martinfrp.com/			
	JB-26, Reinforced Plastic Mortar	121212PC T15		2011-229Q
	JB-27, Reinforced Plastic Mortar	132418 T15		2011-230Q
NEWBA 15	Newbasis, 2626 Kansas Avenue, Riverside, CA 92507 http://www.newbasis.com/			
	JB-26, Reinforced Plastic Mortar	PCA 121212-10006		1991-321
	JB-27, Reinforced Plastic Mortar	PCA 132412-00006		1993-017
	JB-27, Reinforced Plastic Mortar	PCA 132418-00006		1993-017
OLES1 15	Oldcastle Enclosure Solutions, 801 South Pine Street, Madera, CA 96367 http://www.oldcastleprecast.com/Pages/default.aspx			
	JB-27, Reinforced Plastic Mortar	PC1324-24		2013-106Q



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1104.05(c) Junction Boxes, Traffic Signal

Last Revised: 8/10/2017

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
OLES2 15	Oldcastle Enclosure Solutions, 2 Inverness Street, Candiac, QC Canada J5R 4W5 http://www.oldcastleprecast.com/Pages/default.aspx Formerly Old Castle Moulded Products (OLDMP)		
JB-26, Reinforced Plastic Mortar	SYN1212		2011-080A
JB-27, Reinforced Plastic Mortar	SYN1324		2011-080B
QUAZT 15	Hubbell Power Systems, Inc., 3621 Industrial Park Drive, Lenoir City, TN 37771 https://www.hubbell.com/hubbellpowersystems/en/hps-brands/quazite		
JB-26, Reinforced Plastic Mortar	Quazite PC1212BA12		1993-096
JB-26, Reinforced Plastic Mortar	Quazite PC1212CA46		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324BA18		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324CA46		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324EA08		1993-096

1104.06(a) Vehicular Signal Head Housings

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
BRTPI 15	Brown Traffic Products, Inc., 736 Federal Street, Suite 2312, Davenport, IA 52803 http://browntraffic.com/			
12-inch Aluminum Housing	SIG 10X A	BTP-005P	6/20/2014	----
12-inch Polycarbonate Housing	SA 10X A	BTP-003P	6/20/2014	----
8-inch Aluminum Housing	SIG 1X0 A	BTP-006P	6/20/2014	----
8-inch Polycarbonate Housing	SA 1X0 A	BTP-004P	6/20/2014	----
CHMAI 15	C H Manufacturing Inc., 200 Elder Road, Conroe, TX 77385			
12-inch Aluminum Housing	SIG-TAY-305-TTP-EVN-00	CHM-005P	7/26/1993	----
12-inch Polycarbonate Housing	SIG-TPY-305-TTP-EVN-00	CHM-006P	7/26/1993	----
8-inch Aluminum Housing	SIGEAY305TTPEV	CHM-001P	6/15/1994	----
8-inch Polycarbonate Housing	SIGEPY305TTPEV	CHM-002P	6/15/1994	----



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Section 1104: Traffic Signals

1104.06(a) Vehicular Signal Head Housings

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
12-inch Aluminum Housing		ECO-114S	4/12/1988	----
12-inch Polycarbonate Housing	CP	ECO-105S	4/1/1983	----
12-inch Polycarbonate Housing	TP	ECO-104S	4/1/1983	----
8-inch Aluminum Housing		ECO-114S	4/12/1988	----
8-inch Polycarbonate Housing	EP	ECO-106S	4/1/1983	----
8-inch Polycarbonate Housing	TP	ECO-104S	4/1/1983	----
GENTR 15 General Traffic Equipment Corporation, 259 Broadway, Newburgh, NY 12550 http://www.generaltrafficequip.com/				
12-inch Aluminum Housing	T30-ALUM-A-N-N-P-T-Y-Y-Y	GTE-006P	4/23/2004	----
12-inch Polycarbonate Housing	T30-POLY	GTE-004P	12/19/2002	----
8-inch Aluminum Housing	E30-ALUM-A-N-P-T-Y-Y-Y	GTE-005P	4/23/2004	----
MCCAN 15 McCain Inc., 2365 Oak Ridge Way, Vista, CA 92081 http://www.mccain-inc.com/				
12-inch Aluminum Housing	MTSTA	MCC-016P	7/21/1997	----
12-inch Aluminum Housing	Signal Head	MCC-012P	7/26/1993	----
12-inch Polycarbonate Housing	MTSVP	MCC-011S	7/14/1993	----
8-inch Aluminum Housing	MTSEA	MCC-015P	7/21/1997	----
8-inch Polycarbonate Housing	MTSEP	MCC-010S	7/14/1993	----
PEKTS 15 Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php				
12-inch Aluminum Housing	H Series	PTS-028S	2/20/1970	----
12-inch Polycarbonate Housing	P Series	PTS-035S	11/9/1979	----
8-inch Aluminum Housing	T Series	PTS-029S	2/20/1970	----
8-inch Polycarbonate Housing	E Series	PTS-036S	11/9/1979	----



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Section 1104: Traffic Signals

1104.06(a) Vehicular Signal Head Housings

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
USTRA 15 U. S. Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221				
12-inch Aluminum Housing	ST30 22X C221	UST-191S	3/6/1997	----
12-inch Polycarbonate Housing	LT30 22X C221	UST-193S	12/18/2008	----
8-inch Aluminum Housing	SE30 22X C221	UST-192S	12/18/2008	----
8-inch Polycarbonate Housing	LE30 22X C221	UST-190S	3/6/1997	----

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
12-inch Green, LED Module	433-2220-001XL		DIA-049P	6/3/2008	----
12-inch Green, LED Module	433-2220-001XL15 (tinted)		DIA-077P	11/23/2015	----
12-inch Green, LED Module	433-2220-005XL	Direct Current (DC)	DIA-065P	5/9/2012	----
12-inch Green, LED Module	433-2270-001XL		DIA-050P	6/3/2008	----
12-inch Green, LED Module	433-2270-001XL15 (clear)		DIA-078P	11/23/2015	----
12-inch Green, LED Module	433-2270-005XL	Direct Current (DC)	DIA-066P	5/9/2012	----
12-inch Red, LED Module	433-1210-003XL		DIA-047P	6/3/2008	----
12-inch Red, LED Module	433-1210-003XL15 (tinted)		DIA-073P	11/23/2015	----
12-inch Red, LED Module	433-1210-005XL	Direct Current (DC)	DIA-063P	5/9/2012	----
12-inch Red, LED Module	433-1270-003XL15 (clear)		DIA-074P	11/23/2015	----
12-inch Yellow, LED Module	433-3230-001XL		DIA-048P	6/3/2008	----
12-inch Yellow, LED Module	433-3230-901XL		DIA-055P	9/16/2008	----
12-inch Yellow, LED Module	433-3230-901XL15 (tinted)		DIA-075P	11/23/2015	----
12-inch Yellow, LED Module	433-3230-905XL	Direct Current (DC)	DIA-064P	5/9/2012	----
12-inch Yellow, LED Module	433-3270-901XL15 (clear)		DIA-076P	11/23/2015	----
8-inch Green, LED Module	433-2120-001XL		DIA-045P	6/3/2008	----
8-inch Green, LED Module	433-2170-001XL		DIA-046P	6/3/2008	----
8-inch Red, LED Module	433-1110-003XL		DIA-043P	6/3/2008	----
8-inch Yellow, LED Module	433-3130-001XL		DIA-044P	6/3/2008	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
	8-inch Yellow, LED Module	433-3130-901XL	DIA-054P	9/18/2008	----
EXCOP 15	Excellence Opto, Inc., 1400 West Lambert Road, Suite B, Brea, CA 92821 http://www.eoi.com.tw/				
	12-inch Green, LED Module	TRV-G12SG-D2T	EOI-002P	11/2/2009	----
	12-inch Green, LED Module	TRV-G12SG-D2T-C	EOI-018P	7/13/2011	----
	12-inch Red, LED Module	TRV-R12SG-D2T	EOI-001P	11/2/2009	----
	12-inch Yellow, LED Module	TRV-Y12SG-D1T	EOI-003P	11/2/2009	----
	8-inch Green, LED Module	TRV-G08SG-D1T	EOI-014P	11/2/2009	----
	8-inch Green, LED Module	TRV-G08SG-D1T-C	EOI-015P	11/2/2009	----
	8-inch Red, LED Module	TRV-R08SG-D1T	EOI-010P	11/2/2009	----
	8-inch Red, LED Module	TRV-R08SG-D1T-C	EOI-011P	11/2/2009	----
	8-inch Yellow, LED Module	TRV-Y08SG-D1T	EOI-012P	11/2/2009	----
	8-inch Yellow, LED Module	TRV-Y08SG-D1T-C	EOI-013P	11/2/2009	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.	
GELUM 15	GE Lighting Solutions, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
	12-inch Green, LED Module	DR6-GCFB-17A		GEL-046P	4/22/2009	----
	12-inch Green, LED Module	DR6-GCFB-77A		GEL-057P	10/21/2011	----
	12-inch Green, LED Module	DR6-GCFB-VLA	Clear	GEL-069P	6/10/2013	----
	12-inch Green, LED Module	DR6-GTFB-17A		GEL-045P	4/22/2009	----
	12-inch Green, LED Module	DR6-GTFB-77A		GEL-054P	10/21/2011	----
	12-inch Green, LED Module	DR6-GTFB-VLA	Tinted	GEL-068P	6/10/2013	----
	12-inch Red, LED Module	DR6-RCFB-17A		GEL-042P	4/22/2009	----
	12-inch Red, LED Module	DR6-RCFB-77A		GEL-055P	10/21/2011	----
	12-inch Red, LED Module	DR6-RCFB-VLA	Clear	GEL-065P	6/10/2013	----
	12-inch Red, LED Module	DR6-RTFB-17A		GEL-041P	4/22/2009	----
	12-inch Red, LED Module	DR6-RTFB-77A		GEL-052P	10/21/2011	----
	12-inch Red, LED Module	DR6-RTFB-VLA	Tinted	GEL-064P	6/10/2013	----
	12-inch Yellow, LED Module	DR6-YCFB-17A-YX		GEL-044P	4/22/2009	----
	12-inch Yellow, LED Module	DR6-YCFB-77A		GEL-056P	10/21/2011	----
	12-inch Yellow, LED Module	DR6-YCFB-VLA	Clear	GEL-067P	6/10/2013	----
	12-inch Yellow, LED Module	DR6-YTFB-17A-YX		GEL-043P	4/22/2009	----
	12-inch Yellow, LED Module	DR6-YTFB-17A-YX1		GEL-047P	4/22/2009	----
	12-inch Yellow, LED Module	DR6-YTFB-77A		GEL-053P	10/21/2011	----
	12-inch Yellow, LED Module	DR6-YTFB-VLA	Tinted	GEL-066P	6/10/2013	----
	8-inch Green, LED Module	DR4-GCFB-17A		GEL-040P	4/22/2009	----
	8-inch Green, LED Module	DR4-GCFB-77A	Clear	GEL-063P	5/21/2012	----
	8-inch Green, LED Module	DR4-GCFB-VLA	Clear	GEL-075P	6/10/2013	----
	8-inch Green, LED Module	DR4-GTFB-17A		GEL-039P	4/22/2009	----
	8-inch Green, LED Module	DR4-GTFB-77A	Tinted	GEL-062P	5/21/2012	----
	8-inch Green, LED Module	DR4-GTFB-VLA	Tinted	GEL-074P	6/10/2013	----
	8-inch Red, LED Module	DR4-RCFB-17A		GEL-036P	4/22/2009	----
	8-inch Red, LED Module	DR4-RCFB-77A	Clear	GEL-059P	5/21/2012	----
	8-inch Red, LED Module	DR4-RCFB-VLA	Clear	GEL-071P	6/10/2013	----
	8-inch Red, LED Module	DR4-RTFB-17A		GEL-035P	4/22/2009	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.
GELUM 15	GE Lighting Solutions, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/				
	8-inch Red, LED Module	DR4-RTFB-77A	Tinted	GEL-058P	5/21/2012 ----
	8-inch Red, LED Module	DR4-RTFB-VLA	Tinted	GEL-070P	6/10/2013 ----
	8-inch Yellow, LED Module	DR4-YCFB-17A-YX		GEL-038P	4/22/2009 ----
	8-inch Yellow, LED Module	DR4-YCFB-77A	Clear	GEL-061P	5/21/2012 ----
	8-inch Yellow, LED Module	DR4-YCFB-VLA	Clear	GEL-073P	6/10/2013 ----
	8-inch Yellow, LED Module	DR4-YTFB-17A-YX		GEL-037P	4/22/2009 ----
	8-inch Yellow, LED Module	DR4-YTFB-77A	Tinted	GEL-060P	5/21/2012 ----
	8-inch Yellow, LED Module	DR4-YTFB-VLA	Tinted	GEL-072P	6/10/2013 ----



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1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
	12-inch Green Arrow, LED Module	TSL- 12GA-DT-A1	LEO-134P	11/3/2020	2020-055Q
	12-inch Green Arrow, LED Module	TSL-12GA-DT-A1-CLR	LEO-137P	11/3/2020	2020-058Q
	12-inch Green, LED Module	TSL-12G-DT-A1	LEO-130P	11/3/2020	2020-047Q
	12-inch Green, LED Module	TSL-12G-DT-A1-CLR	LEO-131P	11/3/2020	2020-048Q
	12-inch Green, LED Module	TSL-12G-LX-IL3-A1	LEO-067P	4/22/2009	----
	12-inch Green, LED Module	TSL-12G-LX-IL3-B1	LEO-085P	10/18/2010	----
	12-inch Green, LED Module	TSL-12G-LX-IL6-A1-P2	LEO-094P	1/5/2011	----
	12-inch Green, LED Module	TSL-12G-LX-IL6-A1-P2-CLR	LEO-097P	1/5/2011	----
	12-inch Green, LED Module	TSL-12G-LX-IL6-A1-P3	LEO-112P	5/28/2015	-
	12-inch Green, LED Module	TSL-12G-LX-IL6-B1	LEO-124P	8/2/2017	----
	12-inch Green, LED Module	TSL-12G-LX-IL6-B1-P3	LEO-119P	8/2/2017	----
	12-inch Red Arrow, LED Module	TSL-12RA-DT-A1	LEO-132P	11/3/2020	2020-049Q
	12-inch Red Arrow, LED Module	TSL-12RA-DT-A1-CLR	LEO-135P	11/3/2020	2020-056Q
	12-inch Red, LED Module	TSL- 12R-DT-A1	LEO-126P	11/3/2020	2020-037Q
	12-inch Red, LED Module	TSL-12R-DT-A1-CLR	LEO-128P	11/3/2020	2020-045Q
	12-inch Red, LED Module	TSL-12R-LX-IL3-A1	LEO-065P	4/22/2009	----
	12-inch Red, LED Module	TSL-12R-LX-IL3-B1	LEO-083P	10/18/2010	----
	12-inch Red, LED Module	TSL-12R-LX-IL6-A1-P2	LEO-092P	1/5/2011	----
	12-inch Red, LED Module	TSL-12R-LX-IL6-A1-P2-CLR	LEO-095P	1/5/2011	----
	12-inch Red, LED Module	TSL-12R-LX-IL6-A1-P3	LEO-110P	5/28/2015	-
	12-inch Red, LED Module	TSL-12R-LX-IL6-B1	LEO-122P	8/2/2017	----
	12-inch Red, LED Module	TSL-12R-LX-IL6-B1-P3	LEO-117P	8/2/2017	----
	12-inch Yellow Arrow, LED Module	TSL- 12YA-DT-A1	LEO-133P	11/3/2020	2020-054Q
	12-inch Yellow Arrow, LED Module	TSL-12YA-DT-A1-CLR	LEO-136P	11/3/2020	2020-057Q
	12-inch Yellow, LED Module	TSL- 12Y-DT-A1	LEO-127P	11/3/2020	2020-044Q
	12-inch Yellow, LED Module	TSL-12Y-DT-A1-CLR	LEO-129P	11/3/2020	2020-046Q
	12-inch Yellow, LED Module	TSL-12Y-LX-IL3-A1-C	LEO-066P	4/22/2009	----
	12-inch Yellow, LED Module	TSL-12Y-LX-IL3-B1	LEO-084P	10/18/2010	----
	12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P2	LEO-093P	1/5/2011	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.	
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
	12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P2-CLR	Clear	LEO-096P	1/5/2011	----
	12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P2-CLR	Clear	LEO-090P	1/5/2011	----
	12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P3		LEO-111P	5/28/2015	-
	12-inch Yellow, LED Module	TSL-12Y-LX-IL6-B1		LEO-123P	8/2/2017	----
	12-inch Yellow, LED Module	TSL-12Y-LX-IL6-B1-P3		LEO-118P	8/2/2017	----
	8-inch Green, LED Module	TSL-08G-DT-A1		LEO-140P	11/3/2020	2020-113Q
	8-inch Green, LED Module	TSL-08G-DT-A1-CLR		LEO-141P	11/3/2020	2020-114Q
	8-inch Green, LED Module	TSL-08G-LX-IL3-A1	Tinted	LEO-076P	4/29/2010	----
	8-inch Green, LED Module	TSL-08G-LX-IL3-A1-CL	Clear	LEO-077P	4/29/2010	----
	8-inch Green, LED Module	TSL-08G-LX-IL6-A1-P2		LEO-088P	1/5/2011	----
	8-inch Green, LED Module	TSL-08G-LX-IL6-A1-P2-CLR	Clear	LEO-091P	1/5/2011	----
	8-inch Green, LED Module	TSL-08G-LX-IL6-A1-P3		LEO-109P	5/28/2015	-
	8-inch Red, LED Module	TSL-08R-DT-A1		LEO-138P	11/3/2020	2020-059Q
	8-inch Red, LED Module	TSL-08R-DT-A1-CLR		LEO-143P	11/3/2020	2020-116Q
	8-inch Red, LED Module	TSL-08R-LX-IL3-A1	Tinted	LEO-072P	4/29/2010	----
	8-inch Red, LED Module	TSL-08R-LX-IL3-A1-CL	Clear	LEO-073P	4/29/2010	----
	8-inch Red, LED Module	TSL-08R-LX-IL3-B1	Direct Current (DC)	LEO-081P	10/18/2010	----
	8-inch Red, LED Module	TSL-08R-LX-IL6-A1-P2		LEO-086P	1/5/2011	----
	8-inch Red, LED Module	TSL-08R-LX-IL6-A1-P2-CLR	Clear	LEO-089P	1/5/2011	----
	8-inch Red, LED Module	TSL-08R-LX-IL6-A1-P3		LEO-107P	5/28/2015	-
	8-inch Red, LED Module	TSL-08R-LX-IL6-B1		LEO-120P	8/2/2017	----
	8-inch Red, LED Module	TSL-08R-LX-IL6-B1-P3		LEO-115P	8/2/2017	----
	8-inch Yellow, LED Module	TSL-08Y-DT-A1		LEO-139P	11/3/2020	2020-112Q
	8-inch Yellow, LED Module	TSL-08Y-DT-A1-CLR		LEO-142P	11/3/2020	2020-115Q
	8-inch Yellow, LED Module	TSL-08Y-LX-IL3-A1	Tinted	LEO-074P	4/29/2010	----
	8-inch Yellow, LED Module	TSL-08Y-LX-IL3-A1-CL	Clear	LEO-075P	4/29/2010	----
	8-inch Yellow, LED Module	TSL-08Y-LX-IL3-B1	Direct Current (DC)	LEO-082P	10/18/2010	----
	8-inch Yellow, LED Module	TSL-08Y-LX-IL6-A1-P2		LEO-087P	1/5/2011	----
	8-inch Yellow, LED Module	TSL-08Y-LX-IL6-A1-P3		LEO-108P	5/28/2015	-



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
	8-inch Yellow, LED Module	TSL-08Y-LX-IL6-B1	LEO-121P	8/2/2017	----
	8-inch Yellow, LED Module	TSL-08Y-LX-IL6-B1-P3	LEO-116P	8/2/2017	----
TRAST 15	TraStar, Inc., 860 N. Dorothy Dr. Suite 600, Richardson, TX 75081 http://www.trastarusa.com/				
	12-inch Green, LED Module	D-L, JXC300-HFG	TRA-019P	1/7/2009	----
	12-inch Green, LED Module	D-L, JXC300-HFTG	TRA-025P	2/22/2010	----
	12-inch Red, LED Module	D-L, JXC300-HFR	TRA-017P	1/7/2009	----
	12-inch Red, LED Module	D-L, JXC300-HFTR	TRA-023P	2/22/2010	----
	12-inch Yellow, LED Module	D-L, JXC300-HFDCY-P	TRA-032P	2/14/2012	----
	12-inch Yellow, LED Module	D-L, JXC300-HFTY02	TRA-024P	2/22/2010	----
	12-inch Yellow, LED Module	D-L, JXC300-HFY02	TRA-018P	1/7/2009	----
	8-inch Green, LED Module	D-L, JXC200-HFG	TRA-022P	4/27/2009	----
	8-inch Red, LED Module	D-L, JXC200-HFR	TRA-020P	4/27/2009	----
	8-inch Yellow, LED Module	D-L, JXC200-HFY02	TRA-021P	4/27/2009	----

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 8/11/2017

Product	Name	COA	COA Date	Ref. No.
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/			
	12-inch Green Arrow, LED Module	432-2324-001XOD	DIA-052P	6/3/2008
	12-inch Green Arrow, LED Module	432-2324-001XOD15 (tinted)	DIA-071P	11/23/2015
	12-inch Green Arrow, LED Module	432-2374-001XOD	DIA-053P	6/3/2008
	12-inch Green Arrow, LED Module	432-2374-001XOD15 (tinted)	DIA-072P	11/23/2015
	12-inch Red Arrow, LED Module	432-1314-001XOD15 (tinted)	DIA-067P	11/23/2015
	12-inch Red Arrow, LED Module	432-1314-001XOD	DIA-061P	2/17/2010
	12-inch Red Arrow, LED Module	432-1374-001XOD15 (clear)	DIA-068P	11/23/2015
	12-inch Yellow Arrow, LED Module	431-3334-001XOD	DIA-051P	6/3/2008
	12-inch Yellow Arrow, LED Module	431-3334-901XOD	DIA-056P	9/16/2008



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Section 1104: Traffic Signals

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 8/11/2017

Product	Name	COA	COA Date	Ref. No.	
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
	12-inch Yellow Arrow, LED Module	431-3334-901XOD15 (tinted)	DIA-069P	11/23/2015	----
	12-inch Yellow Arrow, LED Module	431-3374-001XOD15 (clear)	DIA-070P	11/23/2015	----
EXCOP 15	Excellence Opto, Inc., 1400 West Lambert Road, Suite B, Brea, CA 92821 http://www.eoi.com.tw/				
	12-inch Green Arrow, LED Module	TRA-G12DG-IN	EOI-004P	8/6/2009	----
	12-inch Green Arrow, LED Module	TRA-G12DG-IN-C	EOI-017P	7/13/2011	----
	12-inch Red Arrow, LED Module	TRA-R12DG-IN	EOI-016P	2/17/2010	----
	12-inch Yellow Arrow, LED Module	TRA-Y12DG-IN	EOI-005P	8/6/2009	----
	12-inch Yellow Arrow, LED Module	TRA-Y12DG-IN2	EOI-008P	11/2/2009	----
	12-inch Yellow Arrow, LED Module	TRA-Y12DG-IN2-C	EOI-009P	11/2/2009	----
GELUM 15	GE Lighting Solutions, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/				
	12-inch Green Arrow, LED Module	DR6-GCAAN-VLA	GEL-083P	8/10/2017	----
	12-inch Green Arrow, LED Module	DR6-GTAAN-VLA	GEL-082P	8/10/2017	----
	12-inch Green Arrow, LED Module	DRG-GCAAN-17A	GEL-033P	9/24/2008	----
	12-inch Green Arrow, LED Module	DRG-GTAAN-17A	GEL-032P	9/24/2008	----
	12-inch Red Arrow, LED Module	DR6-RCAAN-17A	GEL-049P	2/17/2010	----
	12-inch Red Arrow, LED Module	DR6-RCAAN-VLA	GEL-079P	8/10/2017	----
	12-inch Red Arrow, LED Module	DR6-RTAAN-17A	GEL-048P	2/17/2010	----
	12-inch Red Arrow, LED Module	DR6-RTAAN-VLA	GEL-078P	8/10/2017	----
	12-inch Yellow Arrow, LED Module	DR6-YCAAN-VLA	GEL-081P	8/10/2017	----
	12-inch Yellow Arrow, LED Module	DR6-YTAAN-VLA	GEL-080P	8/10/2017	----
	12-inch Yellow Arrow, LED Module	DRG-YTAAN-17A-YX	GEL-034P	9/24/2008	----



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Section 1104: Traffic Signals

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 8/11/2017

Product	Name	COA	COA Date	Ref. No.
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/			
12-inch Green Arrow, LED Module	TSL-12GA- IL6-A1	LEO-102P	1/4/2012	----
12-inch Green Arrow, LED Module	TSL-12GA- IL6-A1-CLR	LEO-103P	1/4/2012	----
12-inch Green Arrow, LED Module	TSL-12GA-LD-A1	LEO-064P	4/22/2009	----
12-inch Green Arrow, LED Module	TSL-12GA-LD-A1-CLR	LEO-070P	2/17/2010	----
12-inch Red Arrow, LED Module	TSL-12RA- IL6-A1	LEO-098P	1/4/2012	----
12-inch Red Arrow, LED Module	TSL-12RA-IL6-A1-CLR	LEO-099P	1/4/2012	----
12-inch Red Arrow, LED Module	TSL-12RA-LD-A1	LEO-068P	2/17/2010	----
12-inch Red Arrow, LED Module	TSL-12RA-LD-A1-CLR	LEO-069P	2/17/2010	----
12-inch Yellow Arrow, LED Module	TSL-12YA-IL6-A1	LEO-100P	1/4/2012	----
12-inch Yellow Arrow, LED Module	TSL-12YA-IL6-A1-CLR	LEO-101P	1/4/2012	----
12-inch Yellow Arrow, LED Module	TSL-12YA-LD-A1	LEO-063P	4/22/2009	----
12-inch Yellow Arrow, LED Module	TSL-12YA-LD-A1-CLR	LEO-071P	2/17/2010	----
TRAST 15	TraStar, Inc., 860 N. Dorothy Dr. Suite 600, Richardson, TX 75081 http://www.trastarusa.com/			
12-inch Green Arrow, LED Module	Duralight JXJ300-07G03	TRA-028P	2/22/2010	----
12-inch Red Arrow, LED Module	Duralight JXJ300-07R03	TRA-026P	2/22/2010	----
12-inch Yellow Arrow, LED Module	Duralight JXJ300-07Y03	TRA-027P	2/22/2010	----

1104.06(c) LED Optically Programmed Signal Heads

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/			
Green, LED Module	P46-3G33-003	DIA-036P	1/28/2005	----
Red, LED Module	P46-3R33-003	DIA-038P	1/28/2005	----
Yellow, LED Module	P46-3Y33-003	DIA-037P	1/28/2005	----



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Section 1104: Traffic Signals

1104.06(c) LED Optically Programmed Signal Heads

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
GELUM 15	GE Lighting Solutions, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/			
Green, LED Module	DR3-GCFB-01A	GEL-020P	9/24/2008	----
Red, LED Module	DR3-RCFB-01A	GEL-018P	9/24/2008	----
Yellow, LED Module	DR3-YCFB-01A	GEL-019P	9/24/2008	----
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/			
Green, LED Module	T05G-A-CA01	LEO-080P	7/23/2010	----
Red, LED Module	T05R-A-6100	LEO-078P	7/23/2010	----
Yellow, LED Module	T05Y-A-6100	LEO-079P	7/23/2010	----

1104.06(d) Pedestrian Signal Housings

Last Revised: 5/9/2019

Product	Name	Size (in.)	COA	COA Date	Ref. No.
BRTPI 15	Brown Traffic Products, Inc., 736 Federal Street, Suite 2312, Davenport, IA 52803 http://browntraffic.com/				
Pedestrian Signal Housing	SA 302 A	12 x 12	BTP-001P	6/20/2014	----
Pedestrian Signal Housing	SA 320 A	9 x 9	BTP-002P	6/20/2014	----
Pedestrian Signal Housing	SG7SZ10C1YYF	16 x 18	BTP-007P	6/20/2014	----
Pedestrian Signal Housing	SG7SZ20C1YYF	16 x 18	BTP-008P	6/20/2014	----
CHMAI 15	C H Manufacturing Inc., 200 Elder Road, Conroe, TX 77385				
Pedestrian Signal Housing	SIG-PAY-315-TCG-EVN-00	12 x 12	CHM-003P	3/28/1994	----
Pedestrian Signal Housing	SIG-PPY-315-TCG-EVN-00	12 x 12	CHM-004P	3/28/1994	----
ECON0 15	Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
Pedestrian Signal Housing	12-inch Aluminum	12 x 12	ECO-119P	1/13/2010	----
Pedestrian Signal Housing	12-inch Polycarbonate	12 x 12	ECO-120P	1/13/2010	----
Pedestrian Signal Housing	16-inch Aluminum	16 x 18	ECO-121P	1/13/2010	----



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Section 1104: Traffic Signals

1104.06(d) Pedestrian Signal Housings

Last Revised: 5/9/2019

Product	Name	Size (in.)	COA	COA Date	Ref. No.	
MCCAN 15	McCain Inc., 2365 Oak Ridge Way, Vista, CA 92081 http://www.mccain-inc.com/					
	Pedestrian Signal Housing	1000 Series	16 x 18	MCC-003P	8/20/1991	----
	Pedestrian Signal Housing	M31941	16 x 18	MCC-017P	2/2/2012	----
	Pedestrian Signal Housing	MPSTA	12 x 12	MCC-009S	7/14/1993	----
	Pedestrian Signal Housing	MPSTP	12 x 12	MCC-008S	7/14/1993	----
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)					
	Pedestrian Signal Housing	PHXAXXXX	16 x 18	TFW-014P	5/9/2019	----
PEKTS 15	Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php					
	Pedestrian Signal Housing	4302	16 x 18	PTS-41P	9/21/2009	----
	Pedestrian Signal Housing	MP Series	12 x 12	PTS-030S	8/18/1972	----
	Pedestrian Signal Housing	MPA Series	12 x 12	PTS-034S	4/12/1978	----
	Pedestrian Signal Housing	MPP Series	12 x 12	PTS-037S	10/6/1987	----
	Pedestrian Signal Housing	PED-100	12 x 12	PTS-027P	5/4/2001	----
TRAPA 15 Facility	Traffic Parts, Inc., P. O. Box 837, Spring, TX 77383 http://www.trafficparts.com/ Chapel Hill Manufacturing 27895 Robinson Road Conroe, TX 77385					
	Pedestrian Signal Housing	SSPED-CNN-P22-N	16 x 18	TPI-009P	1/22/2016	-
	Pedestrian Signal Housing	SSPED-CNN-Y22-N	16 x 18	TPI-011P	1/22/2016	-
	Pedestrian Signal Housing	SSPED-PNN-P2N-N	16 x 18	TPI-010P	1/22/2016	-
	Pedestrian Signal Housing	SSPED-PNN-Y2N-N	16 x 18	TPI-012P	1/22/2016	-
USTRA 15	U. S. Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221					
	Pedestrian Signal Housing	7037	12 x 12	UST-185S	5/26/1982	----
	Pedestrian Signal Housing	7057	12 x 12	UST-186S	5/26/1982	----
	Pedestrian Signal Housing	7090	12 x 12	UST-187S	5/26/1982	----

1104.06(e) LED Pedestrian Signal Modules

Last Revised: 6/10/2015

Product	Name	Size (in.)	COA	COA Date	Ref. No.
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Section 1104: Traffic Signals

1104.06(e) LED Pedestrian Signal Modules

Last Revised: 6/10/2015

Product	Name	Size (in.)	COA	COA Date	Ref. No.
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
	Pedestrian Signal, LED Module, Dual Unit	430-6450-001X	16 x 18	DIA-040P	6/3/2008
	Pedestrian Signal, LED Module, Dual Unit	430-6772-001X	12 x 12	DIA-039P	6/3/2008
	Pedestrian Signal, LED Module, Upraised Hand	430-5570-001X		DIA-059P	2/2/2009
	Pedestrian Signal, LED Module, Upraised Hand	430-5770-001X	12 x 12	DIA-057P	2/2/2009
	Pedestrian Signal, LED Module, Walking Person	430-7570-001X		DIA-060P	2/2/2009
	Pedestrian Signal, LED Module, Walking Person	430-7771-001X	12 x 12	DIA-058P	2/2/2009
EXCOP 15	Excellence Opto, Inc., 1400 West Lambert Road, Suite B, Brea, CA 92821 http://www.eoi.com.tw/				
	Pedestrian Signal, LED Module, Dual Unit	TRP-C45DG-W2	16 x 18	EOI-007P	8/6/2009
GELUM 15	GE Lighting Solutions, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/				
	Pedestrian Signal, LED Module, Dual Unit	PS6-CFL1-26A	12 x 12	GEL-050P	2/4/2011
	Pedestrian Signal, LED Module, Dual Unit	PS7-CFC1-26A	16 x 18	GEL-031P	8/20/2008
	Pedestrian Signal, LED Module, Upraised Hand	PS6-PFH1-26A		GEL-028P	1/4/2008
	Pedestrian Signal, LED Module, Walking Person	PS6-WFM3-26A		GEL-029P	1/4/2008
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
	Pedestrian Signal, LED Module, Dual Unit	TP12H-HM	12 x 12	LEO-062P	6/3/2008
	Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-DIL	16 x 18	LEO-057P	6/3/2008
	Pedestrian Signal, LED Module, Upraised Hand	TP09B-EH	9 x 9	LEO-058P	6/3/2008
	Pedestrian Signal, LED Module, Upraised Hand	TP12B-EH	12 x 12	LEO-060P	6/3/2008
	Pedestrian Signal, LED Module, Walking Person	TP09B-WM	9 x 9	LEO-059P	6/3/2008
	Pedestrian Signal, LED Module, Walking Person	TP12H-WM	12 x 12	LEO-061P	6/3/2008
TRAST 15	TraStar, Inc., 860 N. Dorothy Dr. Suite 600, Richardson, TX 75081 http://www.trastarusa.com/				
	Pedestrian Signal, LED Module, Upraised Hand	Duralight JXM-09VIH	9 x 9	TRA-015P	1/7/2008
	Pedestrian Signal, LED Module, Walking Person	Duralight JXM-09VIM	9 x 9	TRA-016P	1/7/2008

1104.06(f) LED Countdown Pedestrian Signal Modules

Last Revised: 12/15/2017

Product	Name	Size (in.)	COA	COA Date	Ref. No.
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Section 1104: Traffic Signals

1104.06(f) LED Countdown Pedestrian Signal Modules

Last Revised: 12/15/2017

Product	Name	Size (in.)	COA	COA Date	Ref. No.	
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
	Countdown Pedestrian Signal, LED Module, Dual Unit	4430-6479-001X	16 x 18	DIA-041P	6/3/2008	----
	Countdown Pedestrian Signal, LED Module, Time Only	430-7773-001X	12 x 12	DIA-042P	6/3/2008	----
EXCOP 15	Excellence Opto, Inc., 1400 West Lambert Road, Suite B, Brea, CA 92821 http://www.eoi.com.tw/					
	Countdown Pedestrian Signal, LED Module, Dual Unit	TRP-C45D3154C10	16 x 18	EOI-006P	8/6/2009	----
GELUM 15	GE Lighting Solutions, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
	Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-26A	16 x 18	GEL-030P	6/15/2008	----
	Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-27A	16 x 18	GEL-076P	3/14/2014	----
	Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-VLA	16 x 18	GEL-077P	3/30/2016	-
	Countdown Pedestrian Signal, LED Module, Time Only	PS6-PFD1-26A	12 x 12	GEL-051P	2/1/2011	----
	Countdown Pedestrian Signal, LED Module, Time Only	PS6-PFD1-26A	12 x 12	GEL-051P	2/1/2011	----
LEOEC 15	Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
	Countdown Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-CIL-9	16 x 18	LEO-056P	6/3/2008	----
	Countdown Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-SPC-V1	16 x 18	LEO-125P	12/12/2017	----
TRAST 15	TraStar, Inc., 860 N. Dorothy Dr. Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
	Countdown Pedestrian Signal, LED Module, Dual Unit	JXM-400VIEIL	16 x 18	TRA-029P	11/3/2010	----
	Countdown Pedestrian Signal, LED Module, Time Only	Duralight JXM-200VIE	12 x 12	TRA-014P	8/23/2006	----



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Section 1104: Traffic Signals

1104.06(g) LED Lane Use Traffic Control Signal Heads

Last Revised: 11/30/2018

Product	Name	COA	COA Date	Ref. No.
ORANG 15	Orange Traffic, 18195 Rue J A Bombardier, Mirabel, Quebec J7J 0E7 https://www.orangetraffic.com/			
Lane Use Signal Head, LED Module	LCS2828-18AB, Green Arrow / Yellow X / Red X Indicator	OTR-002P	11/9/2018	2017-027Q
PEKTS 15	Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php			
Lane Use Signal Head, LED Module	MP, Green Arrow Indicator	PTS-033P	3/20/2007	----
Lane Use Signal Head, LED Module	MP, Red X Indicator	PTS-031S	3/20/2007	----
Lane Use Signal Head, LED Module	MP, Yellow X Indicator	PTS-032S	3/20/2007	----
TRAST 15	TraStar, Inc., 860 N. Dorothy Dr. Suite 600, Richardson, TX 75081 http://www.trastarusa.com/			
Lane Use Signal Head, LED Module	JXM-LC1818, Green Arrow / Yellow X / Red X Indicator	TRA-031P	10/25/2011	----

1104.07(a)1 Loop Detector Sealants

Last Revised: 11/2/2020

Product	Name	COA	COA Date	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/			
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000			
Loop Detector Sealant	3M Detector Loop Sealant			1985-136
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html			
Loop Detector Sealant	Gold Label Loop Sealant			1977-004
	<i>Effective 10/30/2020, the new supplier code for Gold Label Loop Sealant is MBS-4 15.</i>			
CHEMQ 15	Chemque, Inc., 6107 Guion Road, Indianapolis, IN 46254 http://chemque.com/			
Loop Detector Sealant	Q-Seal 296-06			1996-237
DURPT 15	Durant Paints, Inc., 112 Railroad Street, Revere, MA 02151 http://www.durantcorp.com/			
Loop Detector Sealant	Stat-A-Flex			1995-275
DYNAT 15	Dynatron/Bondo Corporation, 3700 Atlanta Ind. Parkway, Atlanta, GA 30331 http://bondo.com/			
Loop Detector Sealant	P-606			----



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1104.07(a)1 Loop Detector Sealants

Last Revised: 11/2/2020

Product	Name	COA	COA Date	Ref. No.
MAGNL 15	Magnolia Plastics, Inc., 5547 Peachtree Ind. Blvd., Chamblee, GA 30341 Loop Detector Sealant	Magnoloop I		1977-055
MBS-4 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us 6450 Bristol Pike Levittown, PA 19057 <i>Formerly BASF Construction Chemicals (BAS-4 15)</i> Loop Detector Sealant	Gold Label Loop Sealant		1977-004
RAIPR 15	RAI Products, P.O. Box 240772, Charlotte, NC 28224 http://raiproducs.com/ Loop Detector Sealant	Pro-Seal 6006		1994-261
RUSCE 15	Rusco Highway Products, Ruscoe, W. J. , Co., P. O. Box 3858, Akron, OH 44314 http://www.rusco.com/highway-products/ Loop Detector Sealant	Loop Sealant 974	8/10/1992	----

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 9/4/2018

Product	Name	COA	COA Date	Ref. No.	
EBERL 15	Eberle Design Inc., 3819 East Lasalle, Phoenix, AZ 85040 http://www.editraffic.com/				
	Loop Amplifier Detection System	LM 222 Series	EBD-021P	6/7/2000	----
	Loop Amplifier Detection System	LM 602	EBD-014S	10/31/1997	----
	Loop Amplifier Detection System	LM 622	EBD-018S	10/31/1997	----
	Loop Amplifier Detection System	LMD 222 Series	EBD-025P	11/18/2008	----
	Loop Amplifier Detection System	LMD 224 Series	EBD-026P	11/18/2008	----
	Loop Amplifier Detection System	LMD 301 Series	EBD-027P	11/18/2008	----
	Loop Amplifier Detection System	LMD 302 Series	EBD-028P	11/18/2008	----
	Loop Amplifier Detection System	LMD 304 Series	EBD-029P	11/18/2008	----
	Loop Amplifier Detection System	LMD 602 Series	EBD-030P	11/18/2008	----
	Loop Amplifier Detection System	LMD 602T Series	EBD-031P	11/18/2008	----
	Loop Amplifier Detection System	LMD 604 Series	EBD-032P	11/18/2008	----
	Loop Amplifier Detection System	LMD 604T Series	EBD-033P	11/18/2008	----
	Loop Amplifier Detection System	LMD 622 Series	EBD-034P	11/18/2008	----
	Loop Amplifier Detection System	LMD 622T Series	EBD-035P	11/18/2008	----



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Section 1104: Traffic Signals

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 9/4/2018

Product	Name	COA	COA Date	Ref. No.
EBERL 15	Eberle Design Inc., 3819 East Lasalle, Phoenix, AZ 85040 http://www.editraffic.com/			
Loop Amplifier Detection System	LMD 624 Series	EBD-036P	11/18/2008	----
Loop Amplifier Detection System	LMD 624T Series	EBD-037P	11/18/2008	----
Loop Amplifier Detection System	LMD 632T Series	EBD-038P	11/18/2008	----
Loop Amplifier Detection System	LMD 642T Series	EBD-039P	11/18/2008	----
Loop Amplifier Detection System	Oracle 2E Enhanced	EBD-040P	11/18/2008	----
Loop Amplifier Detection System	Oracle 2EC Enhanced	EBD-041P	11/18/2008	----
Loop Amplifier Detection System	Oracle 4E Enhanced	EBD-042P	11/18/2008	----
Loop Amplifier Detection System	Oracle 4EC Enhanced	EBD-044P	11/18/2008	----
Loop Amplifier Detection System	Oracle 4H Enhanced	EBD-043P	11/18/2008	----
Loop Amplifier Detection System	Oracle S1E Enhanced	EBD-045P	11/18/2008	----
Loop Amplifier Detection System	Oracle S1EC Enhanced	EBD-046P	11/18/2008	----
Loop Amplifier Detection System	Oracle S2E Enhanced	EBD-047P	11/18/2008	----
Loop Amplifier Detection System	Oracle S2EC Enhanced	EBD-048P	11/18/2008	----
GLOTT 15	Global Traffic Technologies, LLC, 800 North 3rd St. Suite 100, St. Paul, MN 55128-5441 http://www.gtt.com/			
Loop Amplifier Detection System	Canoga 9004 Loop Amplifier System	GTT-006P	2/17/2016	2015-167Q
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)			
Loop Amplifier Detection System	710 TX/I	TFW-002P (NAZ-009P)	4/13/2016	----
Loop Amplifier Detection System	722L	TFW-009P (NAZ-017P)	4/13/2016	----
Loop Amplifier Detection System	722TXC	TFW-007P (NAZ-015P)	4/13/2016	----
Loop Amplifier Detection System	724	TFW-008P (NAZ-016P)	4/13/2016	----
Loop Amplifier Detection System	724L	TFW-010P (NAZ-018P)	4/13/2016	----



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Section 1104: Traffic Signals

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

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Product	Name	COA	COA Date	Ref. No.
NORCO 15	Northstar Controls, LLC, 6147 Clark Center Avenue, Sarasota, FL 34238 http://www.northstarcontrols.com/			
Loop Amplifier Detection System	N222	NSC-005P	12/15/2008	----
Loop Amplifier Detection System	N222-2	NSC-007P	12/15/2008	----
Loop Amplifier Detection System	N222-2E	NSC-008P	12/15/2008	----
Loop Amplifier Detection System	N222-E	NSC-006P	12/15/2008	----
Loop Amplifier Detection System	N224-2	NSC-009P	12/15/2008	----
Loop Amplifier Detection System	N224-2E	NSC-010P	12/15/2008	----
Loop Amplifier Detection System	NT11	NSC-001P	12/15/2008	----
Loop Amplifier Detection System	NT11-E	NSC-002P	12/15/2008	----
Loop Amplifier Detection System	NT22	NSC-003P	12/15/2008	----
Loop Amplifier Detection System	NT22-E	NSC-004P	12/15/2008	----
Loop Amplifier Detection System	NT44	NSC-011P	12/15/2008	----



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1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 9/4/2018

Product	Name	COA	COA Date	Ref. No.
RENOA 15	Reno A & E, Inc., 4655 Aircenter Circle, Reno, NV 89502 http://www.renoae.com/			
Loop Amplifier Detection System	222	RAE-001P	1/6/2000	----
Loop Amplifier Detection System	222 (R)	RAE-002P	1/6/2000	----
Loop Amplifier Detection System	C (R)	RAE-004P	8/11/1998	----
Loop Amplifier Detection System	C-1200-SS	RAE-003P	8/11/1998	----
Loop Amplifier Detection System	E-1200-SS	RAE-005P	2/11/2000	----
Loop Amplifier Detection System	G-200-SS	RAE-019P	11/5/2003	----
Loop Amplifier Detection System	GT-200-R	RAE-010P	6/12/2003	----
Loop Amplifier Detection System	GT-200-SS	RAE-011P	6/12/2003	----
Loop Amplifier Detection System	L-1200-R	RAE-006P	8/11/1998	----
Loop Amplifier Detection System	L-1200-SS	RAE-007P	8/11/1998	----
Loop Amplifier Detection System	S-1200-R	RAE-012P	2/11/2000	----
Loop Amplifier Detection System	S-1200-SS	RAE-013P	2/11/2000	----
Loop Amplifier Detection System	T-100-R	RAE-014P	4/25/2002	----
Loop Amplifier Detection System	T-100-SS	RAE-015P	11/5/2003	----
Loop Amplifier Detection System	T-110-R	RAE-016P	11/5/2003	----
Loop Amplifier Detection System	T-210-R	RAE-017P	11/5/2003	----
Loop Amplifier Detection System	T-400-R	RAE-018P	11/5/2003	----
Loop Amplifier Detection System	Y-200-SS	RAE-008P	6/12/2003	----
Loop Amplifier Detection System	Y-204-SS	RAE-009P	6/12/2003	----

USTRA 15 U. S. Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221

Loop Amplifier Detection System	222	UST-139S	1/9/1989	----
Loop Amplifier Detection System	242	UST-144S	3/5/1986	----

1104.07(b)2 Vehicular Detection: Video Detection Systems

Last Revised: 9/10/2020

Product	Name	COA	COA Date	Ref. No.
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Section 1104: Traffic Signals

1104.07(b)2 Vehicular Detection: Video Detection Systems

Last Revised: 9/10/2020

Product	Name	COA	COA Date	Ref. No.
ALDIS 15	Aldis Corporation, 10545 Hardin Valley Road, Knoxville, TN 37932 http://www.aldiscorp.com/			
Video Detection System	GridSmart	ALD-001P	9/17/2013	----
ECONO 15	Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/			
Video Detection System	AIS-V	ECO-125P	10/21/2013	----
Video Detection System	Autoscope Image Sensor-AIS IV	ECO-124P	2/19/2013	----
Video Detection System	Autoscope Solo Terra	ECO-123P	2/19/2013	----
Video Detection System	Autoscope Vision Camera	ECO-130P	12/7/2018	2018-129Q
Video Detection System	Encore	ECO-122P	1/7/2011	----
FLIRS 15	FLIR Systems, Inc., 70 Castillian Drive, Goleta, CA 93117 https://www.flir.com/			
Video Detection System	FC-Series T Thermal	FLI-001P	5/5/2014	----
Video Detection System	TrafiSense	FLI-002P	12/21/2018	----
ITERS 15	Iteris, Inc, 1700 Carnegie Ave., Suite 100, Santa Ana, CA 92705-5551 http://www.iteris.com/			
Video Detection System	RZ-4A WDR	ITE-001P	8/31/2012	----
Video Detection System	SmartSpan	ITE-006P	4/10/2018	2017-118Q
Video Detection System	Vantage Vector	ITE-003P	2/21/2013	----
Video Detection System	VantageNext	ITE-004P	12/20/2016	2016-211
Video Detection System	Versicam	ITE-002P	8/31/2012	----
ITSP1 15 Facility	ITS Plus, Inc., 6220 Trailwood Drive, Suite 200, Plano, TX 75024 https://itsplus3.com/ Broach Bilt Manufacturing 2140 Redbud Boulevard McKinney, TX 75069			
Video Detection System	ITSP-PM120C/24C	ITS-001P	3/21/2019	2018-215Q
LEDTI 15	LeddarTech, Inc., 2740 Einstein Street, Quebec City, Canada G1P 4S4			
Video Detection System	D-Tec Sensor	LTI-001P	11/2/2012	----



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1104.07(b)2 Vehicular Detection: Video Detection Systems

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Product	Name	COA	COA Date	Ref. No.
MIGMA 15	Migma Systems, Inc., 1600 Providence Highway, Walpole, MA 02081 http://www.migmapd.com			
Video Detection System	MigmaIntersection	MIG-001P	6/17/2016	2014-225
Video Detection System	MigmaMidblock	MIG-002P	6/17/2016	2014-224
MIOV1 15	Miovision Technologies Inc., 137 Glasgow Street, Suite 110, Kitchener, Ontario, Canada N2G 4X8 https://miovision.com/			
Video Detection System	TrafficLink Camera Detection	MIO-001P	3/24/2020	2019-053Q
PEKTS 15	Peek Traffic Corporation, 2906 Corporate Way, Palmetto, FL 34221 http://peektraffic.com/index.php			
Video Detection System	VideoTrak IQ	PTS-043P	10/11/2013	----
TRAFI 15	Traficon USA LLC, 10161 Park Run Drive Suite 150, Las Vegas, NV 89145			
Video Detection System	C-Walk (Pedestrian)	TUL-004P	10/4/2012	----
Video Detection System	SafeWalk (Pedestrian)	TUL-003P	10/4/2012	----
Video Detection System	TrafiCam	TUL-001P	10/4/2012	----
Video Detection System	VIP	TUL-002P	10/4/2012	----

1104.07(b)3 Vehicular Detection: Microwave Radar Detection Systems

Last Revised: 12/8/2020

Product	Name	COA	COA Date	Ref. No.
ECON0 15	Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/			
Microwave Radar Detection System	RTMS G4	ECO-126P	3/14/2014	----
ISSINC15	Image Sensing Systems, 500 Spruce Tree Center, St. Paul, MN 55104 http://www.imagesensing.com/			
Microwave Radar Detection System	SX-300	IMA-001P	3/27/2017	----



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Section 1104: Traffic Signals

1104.07(b)3 Vehicular Detection: Microwave Radar Detection Systems

Last Revised: 12/8/2020

Product	Name	COA	COA Date	Ref. No.
ITERS 15	Iteris, Inc, 1700 Carnegie Ave., Suite 100, Santa Ana, CA 92705-5551 http://www.iteris.com/			
Microwave Radar Detection System	Vantage Vector	ITE-003P	2/21/2013	----
Microwave Radar Detection System	VantageRadius	ITE-005P	10/4/2018	2016-283Q
Microwave Radar Detection System	VantageRadius	ITE-005P	10/4/2018	2018-179Q
MSSD 15	Ms Sedco, 8701 Castle Park Drive, Indianapolis, IN 46256 http://mssedco.com/			
Microwave Radar Detection System	TC-26-B	MSD-004P	3/27/1991	----
Microwave Radar Detection System	TC-30	MSD-005P	11/13/1989	----
Microwave Radar Detection System	TC-CK1-SBE/TCIB-4	MSD-006P	6/7/2011	----
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)			
Microwave Radar Detection System	150 LX	TFW-006P (NAZ-014P)	4/13/2016	-
SMS-1 15	s.m.s, smart microwave sensors GmbH, In den Waashainen 1, 38108 Braunschweig, Germany https://www.smartmicro.com/			
Microwave Radar Detection System	UMRR-0C	SMI-002P	11/6/2020	2020-060Q
Microwave Radar Detection System	UMRR-11, Type 44	SMI-003P	11/6/2020	2020-061Q
Microwave Radar Detection System	UMRR-11, Type 45	SMI-003P	11/6/2020	2020-095Q
TRACP 15	Traffic Control Products, Inc., 4565 Glenbrook Road, Willoughby, OH 44094 http://www.traffcon.com/			
Microwave Radar Detection System	Pulsar II	TCP-002P	8/20/2008	----
WAVTX 15	Wavetronix, LLC, 78 E. 1700 S., Provo, UT 84606 http://www.wavetronix.com/en			
Microwave Radar Detection System	Smart Sensor Advance Model 200	WAV-001S	9/14/2009	----
Microwave Radar Detection System	Smart Sensor Matrix Radar Detection System	WAV-002S	6/13/2012	----



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1104.07(b)3 Vehicular Detection: Microwave Radar Detection Systems

Last Revised: 12/8/2020

Product	Name	COA	COA Date	Ref. No.	
XTRAL 15	Xtralis, 700 Longwater Drive, Norwell, MA 02061 http://xtralis.com/index.cfm				
	Microwave Radar Detection System	MW 232-819/M2	XTR-001P	10/5/2009	----

1104.07(b)6 Vehicular Detection: Magnetic Detection Systems

Last Revised: 5/16/2016

Product	Name	COA	COA Date	Ref. No.	
GLOTT 15	Global Traffic Technologies, LLC, 800 North 3rd St. Suite 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
	Magnetic Detection System	701	MMM-038P	3/29/2002	----
	Magnetic Detection System	702	MMM-033P	3/29/2002	----
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
	Magnetic Detection System	Valence Pod System	TFW--012P	5/6/2016	-
SENNE 15	Sensys Networks, Inc., 12 Middle Woods Court, Parkton http://www.sensysnetworks.com/				
	Magnetic Detection System	Wireless Detection System	SNI-001P	1/7/2008	----

1104.07(c)1 Pedestrian Detection: Pedestrian Pushbuttons

Last Revised: 3/19/2019

Product	Name	COA	COA Date	Ref. No.	
CAMCO 15	Campbell Company, 450 West McGregor Drive, Boise, ID 83705 http://www.pedsafety.com/				
	Pedestrian Pushbutton System	4 EVR C	DCC-008P	5/20/2011	----
	Pedestrian Pushbutton System	4EVR 120	DCC-002P	9/10/2003	----
	Pedestrian Pushbutton System	4EVR 700 Rnd	DCC-003P	9/10/2003	----
	Pedestrian Pushbutton System	4EVR 800 Rec	DCC-004P	9/10/2003	----
	Pedestrian Pushbutton System	DCC 200 Series	1562-P001	8/31/2001	----
	Pedestrian Pushbutton System	DCC Enlightened PPB	DCC-007P	11/18/2008	----



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1104.07(c)1 Pedestrian Detection: Pedestrian Pushbuttons

Last Revised: 3/19/2019

Product	Name	COA	COA Date	Ref. No.	
PELC- 15	Pelco Products, Inc., 320 S.W. 18th Street, Edmond, OK 73013 http://www.pelcoinc.com/				
	Pedestrian Pushbutton System	SE-2005-08	PEL-002P	6/2/2010	----
	Pedestrian Pushbutton System	SE-2119-P29	PEL-003P	11/28/2011	----
	Pedestrian Pushbutton System	SE-2120-P29	PEL-004P	11/28/2011	----
	Pedestrian Pushbutton System	SE-2154-P29	PEL-005P	11/28/2011	----
POLEI 15	Polara Enterprises, LLC, 1497 CR 2178, Greenville, TX 75402 http://www.polara.com/ <i>Purchased Polara Engineering (Corona, CA) in January 2019.</i>				
	Pedestrian Pushbutton System	BDL3-X	POL-014P	8/2/2013	----

1104.07(c)2 Pedestrian Detection: Accessible Pedestrian Signals (APS)

Last Revised: 11/6/2020

Product	Name	COA	COA Date	Ref. No.	
CAMCO 15	Campbell Company, 450 West McGregor Drive, Boise, ID 83705 http://www.pedsafety.com/				
	Accessible Pedestrian Signal System	A 915	DCC-010P	5/20/2011	----
	Accessible Pedestrian Signal System	AAPS	DCC-012P	5/18/2015	----
	Accessible Pedestrian Signal System	Advisor APS A912	DCC-006P	11/18/2008	----
	Accessible Pedestrian Signal System	AGPS	DCC-013P	5/18/2015	----
	Accessible Pedestrian Signal System	APB 915	DCC-009P	5/20/2011	----
	Accessible Pedestrian Signal System	Guardian APS	DCC-015P	4/25/2019	----
	Accessible Pedestrian Signal System	WiAAPS	DCC-014P	8/14/2018	----
NOVIC 15	Novac Industries Corporation, #202 - 1525 Cliveden Ave., Delta BC Canada, V3M 6L2 http://www.novax.com/				
	Accessible Pedestrian Signal System	DS3000	NOV-001P	2/3/2012	----
PELC- 15	Pelco Products, Inc., 320 S.W. 18th Street, Edmond, OK 73013 http://www.pelcoinc.com/				
	Accessible Pedestrian Signal System	Intellicross	PEL-006P	10/4/2016	-



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Section 1104: Traffic Signals

1104.07(c)2 Pedestrian Detection: Accessible Pedestrian Signals (APS)

Last Revised: 11/6/2020

Product	Name	COA	COA Date	Ref. No.
POLEI 15 Polara Enterprises, LLC, 1497 CR 2178, Greenville, TX 75402 http://www.polara.com/ <i>Purchased Polara Engineering (Corona, CA) in January 2019.</i>				
Accessible Pedestrian Signal System	BDLM2-X	POL-013P	9/23/2010	----
Accessible Pedestrian Signal System	iN2 (iNavigator 2-Wire APS)	POL-015P	3/16/2018	2017-156Q
Accessible Pedestrian Signal System	iN3 (iNavigator 3-Wire APS)	POL-016P	3/16/2018	2017-155Q
Accessible Pedestrian Signal System	iNS2 (iNavigator Next Generation 2-Wire APS)	POL-017P	10/28/2020	2020-171Q
Accessible Pedestrian Signal System	iNS3 (iNavigator Next Generation 3-Wire APS)	POL-018P	10/28/2020	2020-172Q
Accessible Pedestrian Signal System	Navigator 2-Wire APS	POL-010P	5/11/2004	----
Accessible Pedestrian Signal System	Navigator 4-Wire APS	POL-011P	5/11/2004	----

1104.07(d) LED Preemption Confirmation Lights

Last Revised: 3/16/2016

Product	Name	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
8-inch White, LED Module	433-7170-001	DIA-062P	5/2/2012	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
8-inch White, LED Module	TP08B-WS	LEO-114P	3/4/2016	-

1104.07(d) Traffic Signal Preemption Systems

Last Revised: 8/21/2020

Product	Name	COA	COA Date	Ref. No.
AINFO 15 Applied Information, Inc., 4411 Suwanee Dam Road, Suite 510, Suwanee, GA 30024				
GPS (Radio Based) Preemption System	AI-500-085 Glance Preempt	AEA-002P	7/14/2020	2019-198Q



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Section 1104: Traffic Signals

1104.07(d) Traffic Signal Preemption Systems

Last Revised: 8/21/2020

Product	Name	COA	COA Date	Ref. No.
EMTRAC15 EMTRAC (STC, Inc.), 1201 West Randolph Street, McLeansboro, IL 62859 https://www.emtracsystems.com/				
Optical Preemption System	ST-9320 2-Channel Optical Priority Detector	ESI-001P	4/25/2019	----
Optical Preemption System	ST-9340 4-Channel Optical Priority Detector	ESI-001P	4/25/2019	----
Optical Preemption System	ST-9730 Optical Sensor	ESI-001P	4/25/2019	----
Optical Preemption System	ST-9731 Optical Sensor	ESI-001P	4/25/2019	----
Optical Preemption System	ST-9732 Optical Sensor	ESI-001P	4/25/2019	----
ETS-1 15 Emergency Traffic Systems, Inc., 540 West 18th Street, Erie, PA 16502-3716				
Radio Preemption System	PR1 Program and Phase	EME-001P	12/3/2018	2018-135Q
GLOTT 15 Global Traffic Technologies, LLC, 800 North 3rd St. Suite 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
GPS (Radio Based) Preemption System	OPTICOM GPS System	GTT-001S	11/26/2008	----
Optical Preemption System	452	MMM-029P	3/10/1999	----
Optical Preemption System	454	MMM-028P	3/10/1999	----
Optical Preemption System	462	GTT-004P	11/11/2012	----
Optical Preemption System	464	GTT-005P	11/11/2012	----
Optical Preemption System	752	MMM-030P	3/11/1999	----
Optical Preemption System	754	MMM-031P	3/11/1999	----
Optical Preemption System	762	GTT-002P	2/20/2012	----
Optical Preemption System	764	GTT-003P	2/20/2012	----
Optical Preemption System	OPTICOM	MMM-006S	5/1/1979	----
TOMEI 15 Tomar Electronics, Inc., 2100 West Obispo Ave., Gilbert, AZ 85233 http://tomar.com/				
Optical Preemption System	Strobecom I	TEL-002S	4/2/1998	----
Optical Preemption System	Strobecom II	TEL-003P	4/27/1998	----



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Section 1104: Traffic Signals

1104.07(d) Traffic Signal Preemption Systems

Last Revised: 8/21/2020

	Product	Name	COA	COA Date	Ref. No.
TRASYS 15	Traffic Systems LLC, 15207 North 75th Street, Scottsdale, AZ 85259-2638 http://www.trafficsystemsllc.com/				
	Acoustic Preemption System	SONEM 2000	TSL-001S	6/1/2001	----
WAPEN 15	Wapiti Engineering, LLC, 4565 Glenbrook Road, Willoughby, OH 44094 http://www.wapitienergy.com/				
	Acoustic Preemption System	Right O' Way (ROW-2)	WAP-001S	4/30/2008	----



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Section 1105: Fabricated Structural Steel and Aluminum

Steel Products Procurement Act applies.

1105 Fabricated Structural Steel: Fabricators and Machine Shops

Any manufacturer approved by the American Institute of Steel Construction (AISC) and PennDOT will be qualified for steel fabrication as specified in this Section. For listing of approved fabricators, see Bulletin 15 Section, "AISC - Department Register of Certified Structural Steel Fabricators (AISC)".

For a listing of approved Machine Shops that provide services and materials to structural steel fabricators, see Bulletin 15 Section, "MACH - PennDOT Register of Certified Machine Shops".

1105.02(a) Structural Steel

For Producers of Fabricated Structural Steel, PennDOT accepts material supplied from any Steel Mill as long as the material complies with the requirements of Publication 408, Section 106, "Control of Material".

1105.02(c)1 Bolts, Nuts and Washers for General Application

Last Revised: 8/26/2020

Several ASTM A307 Bolt and Nut manufacturers also are listed in Section 1109 "Guide Rail and Metal Median Barrier".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
AMBBO 15	Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 Nut (ASTM A563)	http://www.ameribolt.com/	2014-176QA
ATLRC 15	Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 Nut (ASTM A563)	http://www.atlrod.com/	2011-091Q
AUTBN 15	Auto Bolt Company, 4740 Manufacturing Avenue, Cleveland, OH 44135 Bolt (ASTM A307, Grade A)	http://autobolt.net	2005-099Q
BIRFM 15	Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 Bolt (ASTM A307, Grade A)		2003-146Q
DYSNC 15	Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 Nut (ASTM A563)	http://www.dysoncorp.com/index.html	2000-211Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)1 Bolts, Nuts and Washers for General Application

Last Revised: 8/26/2020

Several ASTM A307 Bolt and Nut manufacturers also are listed in Section 1109 "Guide Rail and Metal Median Barrier".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
FAST1 15 Facility	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Holo-Krome 5800 Industrial Avenue Loves Park, IL 61111 Bolt (ASTM A307, Grade A)	https://www.fastenal.com/	2019-211Q
FAST2 15 Facility	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Holo-Krome 61 Barnes Industrial Park North Wallingford, CT Bolt (ASTM A307, Grade A)	https://www.fastenal.com/	2019-213Q
GAFBC 15	Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 Bolt (ASTM A307, Grade A)	http://gaffneybolt.com/	1999-025Q
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 Bolt (ASTM A307, Grade A)	http://www.haydonbolts.com/	1990-047A
MNP-C 15	MNP Corporation, 44225 Utica Road, Utica, MI 48318 Bolt (ASTM A307, Grade A)	http://www.mnp.com/	1991-022B
NUCR0 15	Nucor Fastner, 6730 County Rd. 60, St. Joe, IN 46785 Bolt (ASTM A307, Grade A) Nut (ASTM A563)	http://nucor-fastener.com/	1990-197A 1990-197B
PORBM 15	Portland Bolt and Manufacturing, Inc., 3441 NW Guam Street, P.O. Box 2866, Portland, OR 97210 Bolt (ASTM A307, Grade A)	http://www.portlandbolt.com/	2008-049QB
PRSTA 15	Prestige Stamping, Inc., 23513 Grosbeck Highway, Warren, MI 48089 Washer (ANSI B18.22M)	http://www.prestigestamping.com/	2010-151Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)1 Bolts, Nuts and Washers for General Application

Last Revised: 8/26/2020

Several ASTM A307 Bolt and Nut manufacturers also are listed in Section 1109 "Guide Rail and Metal Median Barrier".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
ROCBC 15	Rockford Bolt and Steel Company, 126 Mill Street, Rockford, IL 61101 Bolt (ASTM A307, Grade A)		2003-056Q
SOEBS 15	Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 http://www.sebolt.com/index.html Bolt (ASTM A307, Grade A) Nut (ASTM A563)		1991-059 1991-059
STLSB 15	St. Louis Screw & Bolt, P.O. Box 260, 2000 Access Blvd., Madison, IL 62060 http://www.stlouisscrewbolt.com/ Bolt (ASTM A307, Grade A)		1998-191
TELF1 15	Telefast Industries, Inc., 777 West Bagley Road, Berea, OH 44017 Nut (ASTM A563)		2004-107Q

1105.02(c)2 Anchor Bolts (AASHTO M270), Nuts, and Washers

Last Revised: 6/8/2015

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
AMBBO 15	Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 http://www.ameribolt.com/ Nut (ASTM A563)		2014-176QB
BENNE 15	Bennett Bolt Works, Inc., 12 Elbridge Street, P. O. Box 922, Jordan, NY 13080 http://www.bennettboltworks.com/ Anchor Bolt (AASHTO M270, Grade 36)		1985-135B
BIRFM 15	Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 Anchor Bolt (AASHTO M270, Grade 36)		2006-040Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)2 Anchor Bolts (AASHTO M270), Nuts, and Washers

Last Revised: 6/8/2015

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 Anchor Bolt (AASHTO M270, Grade 36)	http://www.lbfoster.com/	----
FOUND 15	Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 Anchor Bolt (AASHTO M270, Grade 36)	http://fsabolt.com/	1990-385B
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 Anchor Bolt (AASHTO M270, Grade 36)	http://www.haydonbolts.com/	1990-047B
HERBC 15	Hercules Bolt Company, 1010 River Bluff Drive, Madison, TN 37115 Anchor Bolt (AASHTO M270, Grade 36)	http://herculesbolt.com/	1998-196
PABOL 15	Pennsylvania Bolt Corporation, P.O. Box 256, Manatawny Road, Pine Forge, PA 19548-0256 Anchor Bolt (AASHTO M270, Grade 36) Washer (ASTM F436)		1987-299 1991-115
S&SFA 15	S & S Fastners, 2501A Duss Avenue, Ambridge, PA 15003 Anchor Bolt (AASHTO M270, Grade 36)	http://www.ss-fastener.com/	1993-295
TECSI 15	Technical Stamping Inc., 50600 E. Russell Schmidt Blvd., Chesterfield, MI 48051 Washer (ASTM F436)	http://technicalstamping.net/	2006-078Q
UNIQUE 15	Unique Industries, P.O. Box 683, 13488 Highway 25 North, Calera, AL 35040 Anchor Bolt (AASHTO M270, Grade 36)	http://www.uiind.com/	1990-260

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 10/31/2017

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 10/31/2017

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
ALPTP 15	All-Pro Threaded Products, Inc, 1915 Peyco Drive North, Arlington, TX 76001 http://www.all-profasteners.com/		
		Anchor Bolt (ASTM F1554, Grade 105)	2012-026QB
		Anchor Bolt (ASTM F1554, Grade 36)	2012-026QA
		Anchor Bolt (ASTM F1554, Grade 55)	2011-141Q
AMBBO 15	Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 http://www.ameribolt.com/		
		Anchor Bolt (ASTM F1554, Grade 105)	2012-150QD
		Anchor Bolt (ASTM F1554, Grade 36)	2012-150QB
		Anchor Bolt (ASTM F1554, Grade 55)	2012-150QC
	Nut (ASTM A563)	2014-176QC	
ATLRC 15	Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/		
		Anchor Bolt (ASTM F1554, Grade 105)	2011-090Q
		Anchor Bolt (ASTM F1554, Grade 36)	2011-090Q
	Anchor Bolt (ASTM F1554, Grade 55)	2011-090Q	
BENNE 15	Bennett Bolt Works, Inc., 12 Elbridge Street, P. O. Box 922, Jordan, NY 13080 http://www.bennettboltworks.com/		
		Anchor Bolt (ASTM F1554, Grade 105)	2015-146Q
		Anchor Bolt (ASTM F1554, Grade 36)	2015-146Q
		<i>A weldable grade 55 anchor bolt may not be supplied as a substitute when Grade 36 is specified.</i>	
	Anchor Bolt (ASTM F1554, Grade 55)	2015-146Q	
BIRFM 15	Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234		
		Anchor Bolt (ASTM F1554, Grade 105)	2014-004Q
		Anchor Bolt (ASTM F1554, Grade 36)	2006-039Q
	Anchor Bolt (ASTM F1554, Grade 55)	2006-038Q	



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1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 10/31/2017

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
CFAST 15	CFAST, LLC, 801 43rd Street North, Birmingham, AL 35212	Anchor Bolt (ASTM F1554, Grade 105)	2005-123Q
		Anchor Bolt (ASTM F1554, Grade 36)	2005-122Q
DECKM 15	Decker Manufacturing Corporation, 703 North Clark Street, Albion, MI 49224 http://www.deckernut.com/	Nut (ASTM A563)	1989-094
DYSNC 15	Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 http://www.dysoncorp.com/index.html	Anchor Bolt (ASTM F1554, Grade 55)	2017-030Q
		Nut (ASTM A563)	2000-210Q
EASCT 15	East Coast Threading Company, 1520 Manatawny Road, P.O. Box 347, Pine Forge, PA 19548 http://eastcoastthreading.com/	Anchor Bolt (ASTM F1554, Grade 105)	2008-089QC
		Anchor Bolt (ASTM F1554, Grade 36)	2008-089QA
		Anchor Bolt (ASTM F1554, Grade 55)	2008-089QB
FOUND 15	Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 http://fsabolt.com/	Anchor Bolt (ASTM F1554, Grade 105)	2003-128Q
		Anchor Bolt (ASTM F1554, Grade 36)	2003-128Q
		Anchor Bolt (ASTM F1554, Grade 55)	2003-128Q
		Nut (ASTM A563)	2011-020QA
HALL2 15	Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/	Anchor Bolt (ASTM F1554, Grade 105)	2003-109Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 10/31/2017

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/		
	Anchor Bolt (ASTM F1554, Grade 105)		2003-117Q
	Anchor Bolt (ASTM F1554, Grade 36)		2003-117Q
	Anchor Bolt (ASTM F1554, Grade 55)		2003-117Q
HERBC 15	Hercules Bolt Company, 1010 River Bluff Drive, Madison, TN 37115 http://herculesbolt.com/		
	Anchor Bolt (ASTM F1554, Grade 105)		2003-114Q
	Anchor Bolt (ASTM F1554, Grade 36)		2003-112Q
	Anchor Bolt (ASTM F1554, Grade 55)		2003-113Q
JHBTS 15	J. H. Botts, Inc., 253 East Bruce St., Joliet, IL 60432 http://www.jhbotts.com/products.htm		
	Anchor Bolt (ASTM F1554, Grade 105)		2001-001Q
	Anchor Bolt (ASTM F1554, Grade 36)		2001-001Q
	Anchor Bolt (ASTM F1554, Grade 55)		2001-001Q
PORBM 15	Portland Bolt and Manufacturing, Inc., 3441 NW Guam Street, P.O. Box 2866, Portland, OR 97210 http://www.portlandbolt.com/		
	Anchor Bolt (ASTM F1554, Grade 105)		2008-049QF
	Anchor Bolt (ASTM F1554, Grade 36)		2008-049QD
	Anchor Bolt (ASTM F1554, Grade 55)		2008-049QE
PRSTA 15	Prestige Stamping, Inc., 23513 Grosbeck Highway, Warren, MI 48089 http://www.prestigestamping.com/		
	Washer (ASTM F436)		1999-157Q
STCBS 15	Steel City Bolt and Screw, LLC, 230 West Valley Road, Birmingham, AL 35201 http://www.steelcitybolt.com/		
	Anchor Bolt (ASTM F1554, Grade 105)		2003-129Q
	Anchor Bolt (ASTM F1554, Grade 36)		2003-129Q
	Anchor Bolt (ASTM F1554, Grade 55)		2003-129Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 10/31/2017

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
TECSI 15	Technical Stamping Inc., 50600 E. Russell Schmidt Blvd., Chesterfield, MI 48051 Washer (ASTM F436)	http://technicalstamping.net/	2006-078Q
TFI-1 15 Facility	Threaded Fasteners, Inc., 3200 Crichton Street, Mobile, AL 36607 2650-B North Schillingers Road Semmes, AL 36575		
	Anchor Bolt (ASTM F1554, Grade 105)		2017-001Q
	Anchor Bolt (ASTM F1554, Grade 55)		2017-001Q
TRISB 15	Tristate Bolt Company, 1110 Fuller Drive, Garrett, IN 46738 Anchor Bolt (ASTM F1554, Grade 105) Anchor Bolt (ASTM F1554, Grade 36) Anchor Bolt (ASTM F1554, Grade 55)	http://www.tristateboltinc.com/	2008-101Q 2008-101Q 2008-101Q
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 Anchor Bolt (ASTM F1554, Grade 36) Anchor Bolt (ASTM F1554, Grade 55)	http://www.uisutah.com/uis2011/	2011-064Q 2011-064Q
UNIQU 15	Unique Industries, P.O. Box 683, 13488 Highway 25 North, Calera, AL 35040 Anchor Bolt (ASTM F1554, Grade 105) Anchor Bolt (ASTM F1554, Grade 36) Anchor Bolt (ASTM F1554, Grade 55)	http://www.uiind.com/	2003-150Q 2003-150Q 2003-150Q

1105.02(d) High Strength Bolt Assemblies

Last Revised: 12/7/2020

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
ALPHA 15	Alpha Stamping Company, 33375 Glendale, Livonia, MI 48150	http://www.alphausa.com/	



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(d) High Strength Bolt Assemblies

Last Revised: 12/7/2020

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
ALPHA 15	Alpha Stamping Company, 33375 Glendale, Livonia, MI 48150 Washer (ASTM F436)	http://www.alphausa.com/	1992-293
AMBBO 15	Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 Nut, Galvanized (ASTM A563)	http://www.ameribolt.com/	2014-177Q
ATLRC 15	Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 Nut, Non-Galvanized (plain), (ASTM A194)	http://www.atlrod.com/	2011-093QC
BBC-F 15	BBC Fasteners, Inc., 4210 Shirley Lane, Alsip, IL 60803 High Strength Bolt (Grade A490, Type 3)	http://www.bbcfasteners.com/	1996-171
BIRFM 15	Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 High Strength Bolt (Grade A325)		2011-114Q
CHIFM 15	Chicago Fasteners Manufacturing, 10902 Walnut Lane, Mokena, IL 60448 High Strength Bolt (Grade A325)	http://www.chicagofastener.com/	1997-193
DYSNC 15	Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 High Strength Bolt (Grade A325) Nut, Galvanized (ASTM A563)	http://www.dysoncorp.com/index.html	2000-208Q 2000-209Q
FAST2 15 Facility	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Holo-Krome 61 Barnes Industrial Park North Wallingford, CT Heavy Hex Structural Bolt (Grade A325, Type 1) Heavy Hex Structural Bolt (Grade A325, Type 1)	https://www.fastenal.com/ Mechanically Galvanized Plain (Uncoated)	2019-214Q 2019-214Q
FONT1 15	Fontana Fasteners Inc., 3595 W. Sr 28, Frankfort, IN 46041 High Strength Bolt (ASTM A490, Types 1 & 3) High Strength Bolt (Grade A325)	http://www.gruppofontana.it/en/production/lep-inc.html	2007-146QB 2007-146QA



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(d) High Strength Bolt Assemblies

Last Revised: 12/7/2020

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
FOUND 15	Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 http://fsabolt.com/ Nut, Non-Galvanized (plain), (ASTM A194)	2011-020QB
GAFBC 15	Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 http://gaffneybolt.com/ High Strength Bolt (Grade A325)	1999-026Q
GRAHM 15	Graham Stamping Company, 1700 Broadway Ave., Wheatland, PA 16161 http://grahamstampingco.com/ Washer (ASTM F436)	1991-166
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/ High Strength Bolt (Grade A325)	1990-047C
MNP-C 15	MNP Corporation, 44225 Utica Road, Utica, MI 48318 http://www.mnp.com/ High Strength Bolt (Grade A325)	1991-022A
NUCR0 15	Nucor Fastner, 6730 County Rd. 60, St. Joe, IN 46785 http://nucor-fastener.com/ High Strength Bolt (Grade A325)	1989-021
		Nut, Galvanized (ASTM A563) 1990-198
PRSTA 15	Prestige Stamping, Inc., 23513 Grosbeck Highway, Warren, MI 48089 http://www.prestigestamping.com/ Washer (ASTM F436)	1999-157Q
ROCBC 15	Rockford Bolt and Steel Company, 126 Mill Street, Rockford, IL 61101 High Strength Bolt (ASTM A490, Types 1 & 3)	2003-055Q
		High Strength Bolt (Grade A325) 2003-054Q
STCBS 15	Steel City Bolt and Screw, LLC, 230 West Valley Road, Birmingham, AL 35201 http://www.steelcitybolt.com/ Heavy Hex Structural Bolt (Grade A325, Type 1)	2016-070Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(d) High Strength Bolt Assemblies

Last Revised: 12/7/2020

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
STLSB 15	St. Louis Screw & Bolt, P.O. Box 260, 2000 Access Blvd., Madison, IL 62060	http://www.stlouisscrewbolt.com/	
	Heavy Hex Structural Bolt (Grade A490, Types 1 & 3)		2015-112Q
	Heavy Hex Structural Bolt (Grade A490, Types 1 & 3)		2015-112Q
	High Strength Bolt (Grade A325)		1984-194
	Nut, Galvanized (ASTM A563)		1984-194
	Washer (ASTM F436)		1984-194
TECSI 15	Technical Stamping Inc., 50600 E. Russell Schmidt Blvd., Chesterfield, MI 48051	http://technicalstamping.net/	
	Washer (ASTM F436)		2006-078Q
TURNA 15	TurnaSure, LLC, 340 East Maple Avenue, Suite 206, Langhorne, PA 19047	http://www.turnasure.com/	
	Direct Tension Indicator Device (DTI)		2010-256Q
TXBLT 15	Texas Bolt Company, 3233 West 11th Street, Houston, TX 77008		
	High Strength Bolt (Grade A325)		1989-029
	Nut, Non-Galvanized (plain), (ASTM A194)		1989-031
UNITT 15	Unytite, Inc., 1 Unytite Drive, Peru, IL 61354	http://www.unytiteusa.com/	
	High Strength Bolt (Grade A325)		1991-117
	Nut, Galvanized (ASTM A563)		1991-117
WWASH 15	Wrought Washer Manufacturing, Inc., 2100 South Bay Street, Milwaukee, WI 53207		
	Washer (ASTM F436)		1993-279

1105.02(e) Welded Stud Shear Connectors

Last Revised: 6/8/2015

AASHTO 10.3.1.9

	Product	Name	Size (in.)	Ref. No.
BLUAC 15	Bluearc Stud Welding (Image Industries), 11220 East Main Street, Huntley, IL 60142	http://www.imageindustries.com/		



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(e) Welded Stud Shear Connectors

Last Revised: 6/8/2015

AASHTO 10.3.1.9

Product	Name	Size (in.)	Ref. No.
BLUAC 15	Bluearc Stud Welding (Image Industries), 11220 East Main Street, Huntley, IL 60142 http://www.imageindustries.com/		
	Welded Stud Shear Connector	1/2	2011-076Q
	Welded Stud Shear Connector	3/8	2011-076Q
	Welded Stud Shear Connector	5/8	2011-076Q
	Welded Stud Shear Connector	3/4	2011-076Q
	Welded Stud Shear Connector	7/8	2011-076Q
COXND 15	Cox Industries, P. O. Box 366, New Haven, MI 48048 http://cox-industries.com/		
	Welded Stud Shear Connector	3/8	1991-104
	Welded Stud Shear Connector	1/2	1991-104
	Welded Stud Shear Connector	3/4	1991-104
	Welded Stud Shear Connector	5/8	1994-006
	Welded Stud Shear Connector	7/8	1994-006
NELSW 15	Nelson Stud Welding, Inc., 7900 West Ridge Road, Elyria, OH 44035 http://www.nelsonstud.com/ Formerly TRW Nelson Stud Welding Div. (TRWNS)		
	Welded Stud Shear Connector	1/2	1992-290C
	Welded Stud Shear Connector	5/8	1992-290D
	Welded Stud Shear Connector	3/4	1992-290E
	Welded Stud Shear Connector	7/8	1992-290F
	Welded Stud Shear Connector	3/8	2011-274QA
	Welded Stud Shear Connector	1	2011-274QB



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(e) Welded Stud Shear Connectors

Last Revised: 6/8/2015

AASHTO 10.3.1.9

Product	Name	Size (in.)	Ref. No.
STUDW 15	Stud Welding Associates, 41515 Schaden Road, Elyria, OH 44035 http://studwelding.com/		
	Welded Stud Shear Connector	1/4	1992-221
	Welded Stud Shear Connector	3/8	1992-221
	Welded Stud Shear Connector	1/2	1992-221
	Welded Stud Shear Connector	5/8	1992-221
	Welded Stud Shear Connector	3/4	1992-221
	Welded Stud Shear Connector	7/8	1992-221
TRUFT 15	Tru-Fit Products, Tru-Weld Division, 460 Lake Road, Medina, OH 44256 http://tfpcorp.com/		
	Welded Stud Shear Connector	1/4	1993-224
	Welded Stud Shear Connector	3/8	1993-224
	Welded Stud Shear Connector	1/2	1993-224
	Welded Stud Shear Connector	5/8	1993-224
	Welded Stud Shear Connector	3/4	1993-224
	Welded Stud Shear Connector	7/8	1993-224
	Welded Stud Shear Connector	1	1993-224

1105.02(j) Steel Pipe, Couplings, and Fittings

For Producers of Fabricated Structural Steel, PennDOT accepts material supplied from any Steel Mill as long as the material complies with the requirements of Publication 408, Section 106, "Control of Material".

1105.02(s) Galvanizers

Last Revised: 8/17/2020

Product	Name	Tank Size (L x W x D)	Ref. No.
AMEGV 15	Valmont Coatings, American Galvanizing Facility, 1919 12th Street, Williamstown, NJ 08094 https://www.valmontcoatings.com/locations/united-states/galvanizing-services/american-galvanizing-(nj)		
	Hot Dip Galvanizer	55 ft. x 6 ft.-6 in. x 10 ft.	1987-211



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 8/17/2020

Product	Name	Tank Size (L x W x D)	Ref. No.
AMETG 15	American Tinning and Galvanizing Company, 552 West 12th Street, Erie, PA 16501 http://www.galvanizeit.com/ Hot Dip Galvanizer	11 ft. x 3 ft. x 4 ft.	1995-104
ARTGV 15	Art Galvanizing Works, Inc., 3935 Valley Road, Cleveland, OH 44109 http://www.artgalvanizing.com/ Hot Dip Galvanizer	12 ft. x 2 ft.-4 in. x 4 ft.	2002-136Q
AZZ-1 15	AZZ Galvanizing Services, Dixon, 310 East Progress Drive, Dixon, IL 61021 http://www.azz.com/ <i>Formerly AAA Galvanizing of Dixon, IL (AAAIL 15)</i> Hot Dip Galvanizer	51 ft. x 7 ft. x 10 ft.	2003-059Q
AZZ-1015	AZZ Galvanizing, Inc., 800 6th Street South, Winsted, NM 55395 http://www.azz.com/ Hot Dip Galvanizer	53' x 10' x 7'	2012-230Q
AZZ-1115	AZZ Galvanizing Services, Muncie, 2415 South Walnut Street, Muncie, IN 47302 http://www.azz.com/ <i>Formerly Witt Industries, Inc. (WITT1 15)</i> Hot Dip Galvanizer	42' x 5'-6" x 7'	2006-033Q
AZZ-1215	AZZ Galvanizing Services, Plymouth, 2631 Jim Neu Drive, Plymouth, IN 46563 http://www.azz.com/ <i>Formerly Witt Industries (WITT2 15)</i> Hot Dip Galvanizer	45' x 6' x 8'	2007-035Q
AZZ-1315	AZZ Galvanizing, Inc., 1461 Kin Ark Court, St. Louis, MO 63132 http://www.azz.com/ Hot Dip Galvanizer	51' x 7'-3" x 10'	2013-060Q
AZZ-1415	AZZ Galvanizing Services, Tulsa, 1800 West 21st Street, Tulsa, OK 74107 http://www.azz.com/ Hot Dip Galvanizer	56' x 5'-3" x 7'	2014-084Q
AZZ-2 15	AZZ Galvanizing Services, Hamilton, 7825 South Homestead Drive, Hamilton, IN 46724 http://www.azz.com/ <i>Formerly AAA Galvanizing of Hamilton, IN. (AAAIN 15)</i> Hot Dip Galvanizer	35' x 6' x 12'-6"	2003-060Q
AZZ-3 15	AZZ Galvanizing Services, Joliet, 625 Mills Road, Joliet, IL 60433 http://www.azz.com/ <i>Formerly AAA Galvanizing of Joliet, IL (AAAJO 15)</i> Hot Dip Galvanizer	51' x 6'-6" x 9'-3"	2007-069Q
AZZ-4 15	AZZ Galvanizing Services, Peoria, 6718 West Plank Road, Peoria, IL 61604 http://www.azz.com/ <i>Formerly AAA Galvanizing of Peoria, IL (AAAPE 15)</i> Hot Dip Galvanizer	51' x 8'-6" x 8'-8"	2006-105Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

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Product	Name	Tank Size (L x W x D)	Ref. No.
AZZ-5 15	AZZ Galvanizing Services, Nashville, 200 32nd Avenue, North, Nashville, TN 37209-3901 http://www.azz.com/ <i>Formerly North American Galvanizing Co. (NAMG1 15)</i> Hot Dip Galvanizer	51' x 6'-6" x 8'-6"	2010-108QA
AZZ-6 15	AZZ Galvanizing Services, Kansas City, 770 East 12th Street, Kansas City, MO 64126 http://www.azz.com/ <i>Formerly: North American Galvanizing Co. (NAMG2 15)</i> Hot Dip Galvanizer	30' x 4'-6" x 5'-6"	2002-091Q
AZZ-7 15	AZZ Galvanizing Services, Canton, 1723 Cleveland Avenue SW, Canton, OH 44707 http://www.azz.com/ <i>Formerly: North American Galvanizing Co. (NAMG3)</i> Hot Dip Galvanizer	51' x 6'-6" x 8'-6"	2005-046Q
AZZ-9 15	AZZ Galvanizing Services, Louisville, 6310 Kenloy Drive, Louisville, KY 40214 http://www.azz.com/ <i>Formerly North American Galvanizing Co. (NAMG5 15)</i> Hot Dip Galvanizer	42' x 5' x 6'	2010-108QB
BALGV 15	Baltimore Galvanizing, 7110 Quad Avenue, Baltimore, MD 21237 http://www.baltimoregalv.com/ Hot Dip Galvanizer	13' x 4'-6" x 4'-6"	1995-078
BBGAL 15	Big Bend Galvanizing LLC, 1000 Industrial Park Drive, Trenton, TN 38382 Hot Dip Galvanizer	33' x 5'-6" x 8'	2017-210Q
CANTG 15	Canton Galvanizing, 1821 Moore Avenue Southeast, Canton, OH 44707 Hot Dip Galvanizer	20 ft. x 6 ft. x 10 ft.	2019-156Q
COLUB 15	V&S Columbus Galvanizing, LLC, 987 Buckeye Park Road, Columbus, OH 43207 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	48' x 6' x 11'	----
CONGV 15	Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 http://ctgalv.com/ Hot Dip Galvanizer	30'-6" x 5' x 7'-6"	2004-006Q
DUNGV 15	Duncan Galvanizing, 69 Norman Street, Everatt, MA 02149 http://www.duncangalvanizing.com/ Hot Dip Galvanizer	70' x 5'-2" x 7'	1997-012
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ Hot Dip Galvanizer	38'-6" x 5' x 6'	----
FRONT 15	Frontier Hot-Dip Galvanizing, Inc., 1740 Elmwood Avenue, Buffalo, NY 14207-0199 http://www.frontiergalvanizing.com/ Hot Dip Galvanizer	27' x 4' x 6'	1988-312



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

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Product	Name	Tank Size (L x W x D)	Ref. No.	
GALVA 15	Galvan Industries, Inc., 7320 Millbrook Road, P.O. Box 369, Harrisburg, NC 28075 http://www.galvanelectrical.com/ Hot Dip Galvanizer	42' x 4'-6" x 7'	1995-177	
GLVZR 15	Galvanizers, Incorporated, 714 12th Avenue Northeast, West Fargo, ND 58078 http://www.galvanizersinc.com/ Hot Dip Galvanizer	41' x 4'-6" x 5'	1998-187	
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm Hot Dip Galvanizer	16' x 5' x 9'	2011-137Q	
HUBBL 15	O. W. Hubbell and Sons, P.O. Box 37, New York Mills, NY 13417 http://www.whyrust.com Hot Dip Galvanizer	46' x 5' x 10'	1995-034	
INDGA 15	Indiana Galvanizing, LLC, 51702 Lovejoy Drive, Middlebury, IN 46540 Hot Dip Galvanizer	33' x 5'-4" x 8'	2013-175Q	
INGAL 15	Valmont Birmingham Galvanizing, 475 Dietrich Road, Steele, AL 35987 http://www.valmontcoatings.com/ Hot Dip Galvanizer	58' x 7'-2" x 9'	2010-160Q	
KORNS 15	Korns Galvanizing Company, 75 Bridge Street, Johnstown, PA 15902 http://www.kornsgalvanizing.com/ Hot Dip Galvanizer	12' x 3'-6" x 5'	1994-101	
		Hot Dip Galvanizer	8' x 3'-6" x 4'	1994-101
KTGAL 15	K-T Galvanizing Company, Inc., 2500 Chambers Road, Venus, TX 76084 http://www.ktgalvanizing.com/ Hot Dip Galvanizer	24' x 3'-6" x 6'	2011-218Q	
KTGAL115	K-T Galvanizing Company, Inc., 5105 East 3rd Street, P.O. Box 560, Katy, TX 77493 http://www.ktgalvanizing.com/ Hot Dip Galvanizer	16' x 4' x 6'	2011-217Q	
MANDR 15 Plant	M&R Plating, Inc., 303 Westlink Industrial Dr., Washington, MO 63090 http://www.mrplating.com/ 303 Westlink Industrial Dr. Washington, MO 63090 Mechanical Galvanizer (Not Hot Dip)	N/A	2015-121Q	
MECGV 15	Mechanical Galv-Plating Corporation, 933 Oak Avenue, P.O. Box 56, Sidney, OH 45365 http://www.mechanicalgalv-plating.com/ Mechanical Galvanizer (Not Hot Dip)		1994-015	
MONNG 15	Monnig Industries, Inc., P.O. Box 98, Glasgow, MO 65254-0098 http://monnigindustries.com/ Hot Dip Galvanizer	24' x 4' x 5'-6"	1991-027	
		Hot Dip Galvanizer	24' x 5' x 4'-6"	1991-027
		Hot Dip Galvanizer	2 barrels, 10 cu. ft. each	1991-027



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

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Product	Name	Tank Size (L x W x D)	Ref. No.
MPGV1 15	Metalplate Galvanizing, Inc., 757 44th Street North, Birmingham, AL 35201 http://www.metalplate.com/ Hot Dip Galvanizer	22' x 4'-4" x 5'-6"	1984-203
MPGV2 15	Metalplate Galvanizing, Inc., 1120 39th Street North, Birmingham, AL 35201 http://www.metalplate.com/ Hot Dip Galvanizer	42' x 5' x 6'	1984-203
MPGV3 15	Metalplate Galvanizing, Inc., 500 Selig Drive, Atlanta, GA 30336 http://www.metalplate.com/ Hot Dip Galvanizer	42' x 5' x 6'	1984-203
MPGV4 15	Metalplate Galvanizing, Inc., 7123 Moncrief Road West, Jacksonville, FL 32219 http://www.metalplate.com/ Hot Dip Galvanizer	28' x 5' x 6'	1984-203
MPGV5 15	Metalplate Galvanizing, Inc., 10625 Needham Street, Houston, TX 77013 http://www.metalplate.com/ Hot Dip Galvanizer	42' x 5' x 6'	1984-203
NEGVV 15	Neville Galvanizing, 3005 Grand Avenue, Neville Island, Pittsburgh, PA 15225 Hot Dip Galvanizer	21' x 4'-6" x 3'-2"	----
NICGV 15	Nicholas Galvanizing Company, 120 Duffield Avenue, Jersey City, NJ 07306 Hot Dip Galvanizer	21' x 3' x 3'-4"	1989-005
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114 http://www.newjerseygalvanizing.com/#/ Hot Dip Galvanizer	40'-6" x 4'-4" x 4'-6"	----
OH-GV 15	Ohio Galvanizing Corporation, 467 West Fairground Street, Marion, OH 43302 http://www.ohgalv.com/ Hot Dip Galvanizer	30'-6" x 5' x 7'-6"	1996-254
PLTCO 15	Plateco, Inc., 1375 Industrial St., Reedsburg, WI 53959 http://www.platecoinc.com/ Mechanical Galvanizer (Not Hot Dip)		2012-078Q
QUAG- 15	Quality Galvanizing, 1110 Fuller Drive, Garrett, IN 46738 Hot Dip Galvanizer	6'-7" x 2'-4" x 3"-6"	2014-032Q
RGBGV 15	AZZ Galvanizing - Rockford (Formerly Rogers Brothers Inc.), 1925 Kishwaukee Street, Rockford, IL 61104 https://www.azz.com/ Hot Dip Galvanizer	12' x 3' x 4'	1995-214
		Hot Dip Galvanizer	22' x 4' x 5' (2 tanks)
SAGV0 15	South Atlantic Galvanizing, P.O. Box 1042, US Highway 276 West, Travelers Rest, SC 29690 http://www.southatlanticllc.com/ Hot Dip Galvanizer	28' x 4' x 6'-6"	----
SAGV1 15	South Atlantic Galvanizing, 3025 Steel Way Drive, P.O. Box 1380, Graham, NC 27253 http://www.southatlanticllc.com/ Hot Dip Galvanizer	51' x 5' x 10'	1983-142



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1105.02(s) Galvanizers

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Product	Name	Tank Size (L x W x D)	Ref. No.	
SAGV2 15	South Atlantic Galvanizing, P.O. Box 876, Highway 280 West, Claxton, GA 30417 http://www.southatlanticllc.com/ Hot Dip Galvanizer	28' x 4' x 6'-6"	1983-142	
SAGV3 15	South Atlantic Galvanizing, 4186 South Creek Road East, Chattanooga, TN 37406 http://www.southatlanticllc.com/ Hot Dip Galvanizer	45' x 5'-6" x 9'	----	
SAGV4 15	South Atlantic Galvanizing, 11022 Lewistown Road, Ashland, VA 23005 http://www.southatlanticllc.com/ <i>Formerly Virginia Galvanizing (VAGAL)</i> Hot Dip Galvanizer	42' x 6'-6" x 8'-6"	1997-053	
SOUGV 15	Southern Galvanizing, Inc., 1620 Bush Street, Baltimore, MD 21230 http://southerngalvanizing.com/ Hot Dip Galvanizer	35' x 6'-6" x 8'	----	
SWGLV 15	Southwest Galvanizing, Inc., 737 Aleen Street, P.O. Box 24188, Houston, TX 77229-4188 http://www.swgalvanizing.com/ Hot Dip Galvanizer	42' x 5' x 5'-6"	1998-210	
		Hot Dip Galvanizer	32'-6" x 4'-2" x 5'	1998-210
		Hot Dip Galvanizer	30'-6" x 4' x 5'	1998-210
		Hot Dip Galvanizer	14' x 3' x 4'-2"	1998-210
TENNG 15	Tennessee Galvanizing, Inc., 1535 Industrial Boulevard, P.O. Box 609, Jasper, TN 37347 http://tennesseegalvanizing.com/ Hot Dip Galvanizer	42' x 5' x 7'	2001-083Q	
		Hot Dip Galvanizer	18' x 2'-2" x 6'-6"	2001-083Q
		Hot Dip Galvanizer	14' x 4' x 5'	2001-083Q
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801 http://www.highwayguardrail.com/ Hot Dip Galvanizer	55' x 6' x 8'-3"	2010-131Q	
TRIN3 15	Trinity Highway Products, LLC, 2548 NE 28th Street, Ft. Worth, TX 76111 http://www.highwayguardrail.com/ Hot Dip Galvanizer	42' x 13' x 9'	2010-271Q	
TRIN6 15 Plant	Trinity Highway Products, LLC, 2525 Stemmons Freeway, Dallas, TX 75207 600 Prosperity Drive Orangeburg, SC 29115 Hot Dip Galvanizer	42 ft. x 12 ft. x 8 ft. - 6 in.	2017-260Q	
UNIGI 15	Universal Galvanizing, Inc., 501 SE 1st Street, Wright City, MO 63390 http://ug.monniindustries.com/ Hot Dip Galvanizer	25' x 5' x 7'	2012-254Q	
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 http://www.uisutah.com/uis2011/ Hot Dip Galvanizer	45' x 5' x 7'	2011-063QC	



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 8/17/2020

Product	Name	Tank Size (L x W x D)	Ref. No.
VALM0 15	Valmont Industries, Inc., P. O. Box 358, Highway #275, Valley, NE 68064 http://www.valmont.com/ Hot Dip Galvanizer	58' x 6' x 8'-6"	1991-142
VALM3 15	Valmont Industries, Inc., 10909 Franklin Ave., Franklin Park, IL 60131 http://www.valmont.com/ Hot Dip Galvanizer Hot Dip Galvanizer	52' x 4'-8" x 6' 26' x 5' x 7'	2000-152Q 2000-152Q
VALM6 15	Valmont Salina Galvanizing, 1100 North Ohio Street, Salina, KS 67401 http://www.valmont.com/ Hot Dip Galvanizer	55' x 12' x 10'-6"	2013-203Q
VALM7 15	Valmont Coatings Gateway Galvanizing, 1117 Brown Forman Road, Jeffersonville, IN 47130 http://www.valmont.com/ Hot Dip Galvanizer	44' x 6'-5" x 7'-5"	2000-310Q
VALM8 15	Valmont Virginia Galvanizers, 3535 Halifax Road, Petersburg, VA 23805 http://www.valmont.com/ Hot Dip Galvanizer	49' x 5'-8" x 8'-8"	1998-092
VICTA 15	Victaulic Company Of America, Apex Facility, 119 Edison Road, Stewartville, NJ 08886 http://www.victaulic.com/ Hot Dip Galvanizer	21' x 3' x 4'-6"	2000-277Q
VOISG 15	V&S Detroit Galvanizing, LLC, 12600 Arnold Street, Redford, MI 48239 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	42' x 6' x 8'-6"	2000-311Q
VSAGV 15	V&S Amboy Galvanizing, LLC, 1190 Amboy Avenue, Perth Amboy, NJ 08861 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	25' x 6' x 10'	2000-278Q
VSDGV 15	V&S Delaware Galvanizing, LLC, 511 Carroll Drive, New Castle, DE 19720 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	29' x 6' x 10'	2010-239Q
VSLGV 15	V&S Lebanon Galvanizing, LLC, 153 Micro Drive, Jonestown, PA 17038 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	56' x 7'-2" x 10'-2"	2002-033Q
VSMGV 15	V&S Memphis Galvanizing, LLC, 3348 Fite Road, Millington, TN 38053 Hot Dip Galvanizer	48' x 6'-4" x 11'	2017-279Q
VSNYGV15	V&S New York Galvanizing, LLC, 272 Corporate Drive, Owego, NY 13827 https://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	29' x 6' x 10'	2020-043Q
VSTGV 15	V&S Taunton Galvanizing, LLC, 585 John Hancock Road, Taunton, MA 02780 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	29' x 6' x 10'	2007-045Q



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1105.02(s) Galvanizers

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Product	Name	Tank Size (L x W x D)	Ref. No.
YOUNG 15	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 http://younggalvanizing.com/		
	Hot Dip Galvanizer	48' x 5' x 8'-6"	----
	Hot Dip Galvanizer	24' x 5' x 6'	----



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Section 1107: Prestressed Concrete Bridge Beams

1107.02 Prestressed Concrete Bridge Beams

Last Revised: 1/5/2018

Note: Applicable Prestressed Concrete Institute (PCI) Plant Certification codes listed after product name. [Approved Bridge and Structure Products](#)

Product	Name	Letter Date	Ref. No.
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/		
	<i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i>		
	Precast Plank Beam - Post Tensioned		2017-336Q
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) <i>Allowable Bed Moment = 48,114 in-kips</i> <i>Working Load = 3937 kips</i>		2017-162Q
CARRC 15	CARR Concrete, a Division of CXT, Inc., 362 Waverly Rd., Williamstown, WV 26187 http://www.carrconcrete.com/		
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) <i>Allowable Bed Moment = 15,146 in-kips</i> <i>Working Load = 946 kips</i>		2015-045Q
HIGCG 15	High Concrete Group, LLC, 125 Denver Road, Denver, PA 17517 http://www.high.net/		
	Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 12,900,000 pound-inches.</i> <i>Working Load = 2,150,000 pounds.</i>		2011-113Q
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	<i>Note: Previously assigned J&RS2 15 for same facility</i>		
	Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 34,250,000 pound inches.</i> <i>Working Load = 1,352,000 pounds</i>		2012-016Q
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) Total Precast Bridge Structures	8/13/1997	1995-044 -



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Section 1107: Prestressed Concrete Bridge Beams

1107.02 Prestressed Concrete Bridge Beams

Last Revised: 1/5/2018

Note: Applicable Prestressed Concrete Institute (PCI) Plant Certification codes listed after product name. [Approved Bridge and Structure Products](#)

Product	Name	Letter Date	Ref. No.
J&RS2 15	J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/ Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 34,250,000 pound inches.</i> <i>Working Load = 1,352,000 pounds.</i>		2012-016Q
JERPC 15	Jersey Precast Corporation, 853 Nottingham Way, Hamilton Township, NJ 08638 http://jerseyprecast.com/ Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) <i>Allowable Bed Moment = 232 ft-k.</i> <i>Working Load = 1,548,000 lbs.</i>		2011-200Q
MACIN 15	PennStress, Division of MacInnis Group, LLC, 8180 Woodbury Pike, Roaring Spring, PA 16673 http://www.pennstress.com/ Formerly NEW-0 15. Next Beam Producer (SOL 483-13-07) Precast Plank Beam - Post Tensioned Prestressed Deflected and Straight-Strand Bridge Member (PCI Code: B4) Total Precast Bridge Structures		2011-077Q 2015-125Q 2011-077Q -
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/ Precast Plank Beam - Post Tensioned		2017-198Q
NORPP 15	Northeast Prestressed Products LLC, 121 River Street, Cressona, PA 17929-1133 http://www.npp-llc.com/ Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 37,200,000 pound inches.</i> <i>Working Load = 2,480,000 pounds.</i> Prestressed Deflected and Straight-Strand Bridge Member (PCI Code: B4) Total Precast Bridge Structures		2012-015Q 2012-015Q -



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Section 1107: Prestressed Concrete Bridge Beams

1107.02 Prestressed Concrete Bridge Beams

Last Revised: 1/5/2018

Note: Applicable Prestressed Concrete Institute (PCI) Plant Certification codes listed after product name. [Approved Bridge and Structure Products](#)

Product	Name	Letter Date	Ref. No.
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 http://www.lcwhitford.com/ Prestressed Deflected and Straight-Strand Bridge Member (PCI Code: B4) Total Precast Bridge Structures		----

1107.02(m) Box Beam Void Forms

Last Revised: 9/30/2020

Product	Name	Ref. No.
CLFNA 15	Cellofoam North America, Inc., 33 Baron Park Road, Falmouth, VA 22405 http://cellofoam.com/ Box Beam Void Form Cellofoam EPS	1999-080Q
DOW-3 15	The Dow Chemical Company, 200 Lackin Center, 1605 Joseph Drive, Midland, MI 48674 http://www.dow.com/ Box Beam Void Form Styrofoam (EPS)	1999-182Q
INSUC 15	Insulation Corporation of America, 2571 Mitchell Avenue, Allentown, PA 18103 http://insulationcorp.com/ Box Beam Void Form ICA-LITE (EPS)	1993-032
INSUL 15	Insul-Board, Inc., 2120 Colonial Ave., P. O. Box 8103, Erie, PA 16505 http://insulboard.com/ Box Beam Void Form Insul-Board (EPS)	1988-107
OPC-N 15	Opco, Inc., Harrison Ave. West, P. O. Box 101, Latrobe, PA 15650 http://opcodirect.com/ Box Beam Void Form Op-Foam (EPS)	1991-276
PACEM 15	Pacemaker Plastics Co., 126 New Pace Rd., Newcomertown, OH 43832 Box Beam Void Form Chemform Polyvoid (EPS)	1992-149
POLMD 15	Poly Molding LLC, 96 Fourth Avenue, Haskell, NJ 07420 http://polymoldingllc.com/ Box Beam Void Form Poly Foam	1995-311



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1107: Prestressed Concrete Bridge Beams

1107.02(m) Box Beam Void Forms

Last Revised: 9/30/2020

	Product	Name	Ref. No.
SHELE 15	Shelter Enterprises, Inc., 8 Saratoga Street, Cohoes, NY 12047 http://www.shelter-ent.com/ Box Beam Void Form	Shelterfoam	2003-068Q
SPRCC 15	Spring Cove Container, 301 Cove Lane, Roaring Spings, PA 16673 http://www.springcove.com/ Box Beam Void Form	Cardboard	----

1107.02(n)3.b & 3.d Tendons: 7-Wire, Uncoated, Low-Relaxation Strand

Last Revised: 5/30/2018

AASHTO M 203 (ASTM A 416), Grade 270. Steel Products Procurement Act applies.

Section 1107.02(n)3.b effective with Pub 408/2020 Initial Edition (April 10, 2020).

Section 1107.02(n)3.d for Pub 408/2016 Change No. 7 and earlier

	Product	Name	Strength	Ref. No.
BKERT 15 Facility	Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067 http://www.bekaert.com/en/ Van Buren, AR 7-Wire, Uncoated, Low-Relaxation Strand	0.500", 0.520", 0.600"		2016-181Q
INST2 15	Insteel Wire Products, 638 Rappahannock Wire Road, Gallatin, TN 37066 http://www.insteel.com/ 7-Wire, Uncoated, Low-Relaxation Strand	0.500", 0.520", 0.600" LoLax	270K	1994-081
INST8 15	Insteel Wire Products, 1 Wiremil Road, Sanderson, FL 32087 http://www.insteel.com/ 7-Wire, Uncoated, Low-Relaxation Strand	0.500", 0.520", 0.600" LoLax	270K	2012-237Q
SUMWP 15	Sumiden Wire Products Corporation, 710 Marshall Stuart Drive, Dickson, TN 37055 http://www.sumidenwire.com/ 7-Wire, Uncoated, Low-Relaxation Strand	0.500", 0.520", 0.600" LoLax	270K	1998-151



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1107: Prestressed Concrete Bridge Beams

1107.02(n)3.b & 3.d Tendons: 7-Wire, Uncoated, Low-Relaxation Strand

Last Revised: 5/30/2018

AASHTO M 203 (ASTM A 416), Grade 270. Steel Products Procurement Act applies.

Section 1107.02(n)3.b effective with Pub 408/2020 Initial Edition (April 10, 2020).

Section 1107.02(n)3.d for Pub 408/2016 Change No. 7 and earlier

Product	Name	Strength	Ref. No.
WMCSC 15 Facility	Wire Mesh Corporation, 25219 Kuykendahl Rd Ste 290, The Woodlands, TX 77375 State Road S-9-205 St. Matthews, SC 29135		
	7-Wire, Uncoated, Low-Relaxation Strand	0.500", 0.520", 0.600" WMC Strand	270K
			2016-176Q

1107.02(p) Neoprene Joint Material

Last Revised: 7/9/2015

Product	Name	Ref. No.
ARMCL 15	Armacell LLC, 7600 Oakwood Street Extension, P. O. Box 1038, Mebane, NC 27302 https://www.armacell.us/home/	
	Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	F-2062
		2005-107Q
MONRP 15	Monmouth Rubber and Plastics, 75 Longbranch Avenue, Long Branch, NJ 07740 http://www.monmouthrubber.com/	
	Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	DK 2121 PADOT
		2005-094Q
RUBAT 15	Rubatex International, LLC, 906 Adams Street, Bedford, VA 24523-2168 http://www.rubatexusa.com/	
	Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	G-207-N
	Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	R-470
		2006-006Q
		2005-116Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

**Posted:
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Section 1108: Post-Tensioning Operations

1108.03(f) Bonding and Grouting (Admixtures)

Concrete admixtures previously referenced in this section were moved to Section 711.3, Concrete Admixtures, and are listed as Grout Fluidifiers (GF).



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1109: Guide Rail and Metal Median Barrier

Steel Products Procurement Act applies

For Attenuation Devices, see Section 619

1109.01 Guide Rail: Rail Elements and Rubbing Rails

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
DI-HS 15	Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/		
	Rail Element		1991-345
	Rubbing Rail		1991-345
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
	Rail Element		1994-014
	Rubbing Rail		1994-014
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/		
	Rail Element		1989-180
	Rubbing Rail		1989-180
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/		
	Rubbing Rail		2012-194Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/		
	Rail Element	RG-400	1996-230
	Rubbing Rail		1999-077Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1109: Guide Rail and Metal Median Barrier

1109.01 Guide Rail: Rail Elements and Rubbing Rails

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801 http://www.highwayguardrail.com/		
	Rail Element	21G Anchor Post Rail Element (RC-54M)	2010-132QA
	Rail Element	9G (12' 6" p/6' 3" Guide Rail), 11G (12' 6" p/3' 1 1/2" Guide Rail)	2010-132QA
	<i>* Approved MM-USA marking as Identifiable Steel</i>		
	Rail Element	Bridge Barrier Transition Rail Element (RC-50M)	2010-132QA
	Rubbing Rail		----
TRIN6 15 Plant	Trinity Highway Products, LLC, 2525 Stemmons Freeway, Dallas, TX 75207 600 Prosperity Drive Orangeburg, SC 29115		
	Rail Element	11G (12' 6" p/3' x 1 1/2" Guide Rail)	2018-104Q
V&SSE 15	V & S Schuler Engineering, 2240 Allen Ave. S.E., Canton, OH 44707 http://www.vsschuler.com/		
	Rubbing Rail		1994-046

1109.02 Guide Rail: Terminal Sections

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary).

Terminal Section Bridge Connection: Standard Drawing RC-51M (Sheet 2 of 14) & RC-739M [Type 31 Strong Post Guide Rail to Standard Bridge Barrier]

Flared Terminal Section: Standard Drawing RC-53M (Sheet 2 of 3)

Guide Rail Terminal Section, Single: Standard Drawing RC-51M (Sheet 3 of 14)

Publication 13M, Design Manual, Part 2 Highway Design, Chapter 12, Guide Rail End Treatments and Terminals

Product	Name	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.02 Guide Rail: Terminal Sections

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary).

Terminal Section Bridge Connection: Standard Drawing RC-51M (Sheet 2 of 14) & RC-739M [Type 31 Strong Post Guide Rail to Standard Bridge Barrier]

Flared Terminal Section: Standard Drawing RC-53M (Sheet 2 of 3)

Guide Rail Terminal Section, Single: Standard Drawing RC-51M (Sheet 3 of 14)

Publication 13M, Design Manual, Part 2 Highway Design, Chapter 12, Guide Rail End Treatments and Terminals

	Product	Name	Ref. No.
DI-HS 15	Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/		
	Guide Rail Terminal Section		1991-345
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
	Alternate Terminal Section	W Beam End Section (Buffer)	1994-281B
	Alternate Terminal Section	W Beam End Section (Rounded)	1994-281B
	Flared Terminal Section	W Beam End Section (Flared)	1994-281A
	Guide Rail Terminal Section		1994-281
	Terminal Section Bridge Connection	W Beam Terminal Connector	1994-281C
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/		
	Alternate Terminal Section		1989-180
	Flared Terminal Section		1989-180
	Guide Rail Terminal Section		1989-180
	Terminal Section Bridge Connection		1989-180
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/		
	Alternate Terminal Section	RG-475 Terminal Half Wrap	1996-230
	Flared Terminal Section		1996-230
	Guide Rail Terminal Section		1996-230
	Terminal Section Bridge Connection		1996-230



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.02 Guide Rail: Terminal Sections

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary).

Terminal Section Bridge Connection: Standard Drawing RC-51M (Sheet 2 of 14) & RC-739M [Type 31 Strong Post Guide Rail to Standard Bridge Barrier]

Flared Terminal Section: Standard Drawing RC-53M (Sheet 2 of 3)

Guide Rail Terminal Section, Single: Standard Drawing RC-51M (Sheet 3 of 14)

Publication 13M, Design Manual, Part 2 Highway Design, Chapter 12, Guide Rail End Treatments and Terminals

	Product	Name	Ref. No.
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801 http://www.highwayguardrail.com/		
	Alternate Terminal Section	907G Circular Terminal (RC-51M)	2010-132QA
	Alternate Terminal Section	974G Guide Rail to Bridge Barrier Transition Section (RC-50M)	2010-132QA
	Flared Terminal Section	901G Flared Terminal (RC-53M, Sheet 2, Detail F)	2010-132QA
	Guide Rail Terminal Section		2010-132QA
	Terminal Section Bridge Connection	926G Terminal Section Bridge Connection - Straight (RC-51M, Sheet 2)	2010-132QA
	Terminal Section Bridge Connection	928G Terminal Section Bridge Connection (RC-51M, Sheet 2, Detail A)	2010-132QA

1109.03 Guide Rail: Posts

Last Revised: 9/10/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.03 Guide Rail: Posts

Last Revised: 9/10/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
AMETS 15	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/		
		Breakaway Terminal Foundation Wood Post	1995-252
		Breakaway Terminal Wood Post	1995-252
		Timber Guide Rail Post	1995-252
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
		Welded Steel Post	2008-114Q
CNWPI 15 Facility	Central Nebraska Wood Preservers, Inc., P.O. Box 630, Sutton, NE 68979 http://www.nebraskawood.com/ 105 North Owen Street Sutton, NE 68979		
		Long Breakaway Timber Post	2014-241QD
		Short Breakaway Timber Post	2014-241QC
		Timber Guide Rail Post	2014-241QA
DI-HS 15	Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/		
		Steel I-Beam Post	1991-344
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/		
		Steel I-Beam Post	1987-158
		Welded Steel Post	2006-020Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1109: Guide Rail and Metal Median Barrier

1109.03 Guide Rail: Posts

Last Revised: 9/10/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
GRE-2 15 Plant	Great Southern Wood Preserving, P. O. Box 610, Abbeville, AL 36310 http://greatsouthernwood.com/		
	Rocky Mount, VA		
		Breakaway Terminal Foundation Wood Post	2011-163QABC
		Breakaway Terminal Wood Post	2011-163QABC
		Timber Guide Rail Post	2011-163QABC
GREG2 15 Facility	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
	7320 Galvan Way Harrisburg, NC 28075		
		Steel I-Beam Post	----
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
		Steel I-Beam Post	1995-321
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/		
		Steel C-Post and Channel Post	1989-180
		Steel I-Beam Post	1989-180
		Welded Steel Post	2005-105Q
IAWP1 15	Iowa Wood Preservers, Inc., 2102 South 17th Street, Oskaloosa, IA 52577		
		Long Breakaway Timber Post	2014-047QD
		Short Breakaway Timber Post	2014-047QC
		Timber Guide Rail Post	2014-047QA



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Section 1109: Guide Rail and Metal Median Barrier

1109.03 Guide Rail: Posts

Last Revised: 9/10/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159	http://www.qualitybridgeandfab.com/	
	Steel I-Beam Post		2012-156Q
	Welded Steel Post		2012-245Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143	http://rgsteel.com/	
	Steel I-Beam Post		1999-022Q
	Welded Steel Post		2005-134Q
STEJ1 15	Stella-Jones Corporation, 3424 Parkersburg Road, Reedy, WV 25270-9402	http://stella-jones.com/ <i>Formerly Burke-Parsons Bowlby (BURPB 15)</i>	
	Timber Guide Rail Post		1998-101
STOREY15	S.I. Storey Lumber Company, 285 Sike Storey Road, Armuchee, GA 30105	http://www.sistoreylumber.com/	
	Long Breakaway Timber Post		2016-041QA
	Short Breakaway Timber Post		2016-041QB
	Timber Guide Rail Post		2016-041QC
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801	http://www.highwayguardrail.com/	
	Steel I-Beam Post		2010-132QB
	* Approved MM-USA marking as Identifiable Steel		
	Welded Steel Post		2007-186Q
TRIN4 15	Trinity Highway Products, LLC, 200 Dynatex Road, Sunbright, TN 37872	http://www.highwayguardrail.com/	
	Breakaway Terminal Wood Post		2010-224QA



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.03 Guide Rail: Posts

Last Revised: 9/10/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
V&SSE 15	V & S Schuler Engineering, 2240 Allen Ave. S.E., Canton, OH 44707	http://www.vsschuler.com/	
	Steel I-Beam Post		1994-046

1109.04 Guide Rail: Offset Brackets (Blocks)

Last Revised: 11/2/2018

See Standard Drawings RC-50M and RC-51M [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
AMETS 15	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767	http://www.americantimberandsteel.com/	
	Wood Offset Bracket (4" x 8" x 14")		2003-116
	Wood Offset Bracket (6" x 8" x 14")		1995-185
CNWPI 15 Facility	Central Nebraska Wood Preservers, Inc., P.O. Box 630, Sutton, NE 68979	http://www.nebraskawood.com/	
	105 North Owen Street Sutton, NE 68979		
	Wood Offset Bracket - Routed for Steel Posts (6" x 8" x 14")		2014-241QB
CREAT 15	Creative Building Products, 4307 Arden Drive, Fort Wayne, IN 46804-4446	http://creativebuildingproducts.com/	
	Plastic Offset Block		1996-199
DEKLB 15	DeKALB Molded Plastics, 550 West Main Street, Butler, IN 46721	http://www.dekalbplastics.com/	
	Composite Offset Block	Lightweight	2002-071



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1109: Guide Rail and Metal Median Barrier

1109.04 Guide Rail: Offset Brackets (Blocks)

Last Revised: 11/2/2018

See Standard Drawings RC-50M and RC-51M [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

	Product	Name	Ref. No.
IAWP1 15	Iowa Wood Preservers, Inc., 2102 South 17th Street, Oskaloosa, IA 52577 Wood Offset Bracket - Routed for Steel Posts (6" x 8" x 14")		2014-047B
MONDP 15	Mondo Polymer Technologies, State Route 7, P.O. Box 250, Reno, OH 45773 http://www.mondopolymer.com/ Composite Offset Block Plastic Offset Block	GB14SH	2002-062Q 2002-062Q
MONM1 15	Monroeville Industrial Molding, 75 Ontario St., Norwalk, OH 44857 http://www.monroevilmoldings.com/ Plastic Offset Block		2003-017Q
RAMC1 15	Ramco International, 3102 Estate Drive, Bldg. 1, Oakdale, PA 15071 Plastic Offset Block		1999-200Q
STEJ1 15	Stella-Jones Corporation, 3424 Parkersburg Road, Reedy, WV 25270-9402 http://stella-jones.com/ <i>Formerly Burke-Parsons Bowlby (BURPB 15)</i> Wood Offset Bracket (6" x 8" x 14")		1998-101
STOREY15	S.I. Storey Lumber Company, 285 Sike Storey Road, Armuchee, GA 30105 http://www.sistoreylumber.com/ Wood Offset Bracket - Non-Routed for Wood Posts (6" x 8" x 14")		2016-232Q
TRIN4 15	Trinity Highway Products, LLC, 200 Dynatex Road, Sunbright, TN 37872 http://www.highwayguardrail.com/ Wood Offset Bracket - Routed for Steel Posts (6" x 8" x 14")		2010-224QB

1109.05 Guide Rail: Miscellaneous Material

Last Revised: 8/26/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

	Product	Name	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1109: Guide Rail and Metal Median Barrier

1109.05 Guide Rail: Miscellaneous Material

Last Revised: 8/26/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

	Product	Name	Ref. No.
ASPEC 15	Assembly Specialty Products, 14700 Brookpark Road, Cleveland, OH 44135 https://www.assembliespecialty.com/		
	3/4" (6x19) Swaged Galvanized Cable (RC-51M) <i>Actual Dimensions of Threaded Section of Swaged Fitting: 1" diameter x 8 TPI x 7" long, where Standard Drawing RC-51 shows 15/16" diameter x 9 TPI.</i>	BCT Cable Assembly Fabricator	2019-106Q
AUTBN 15	Auto Bolt Company, 4740 Manufacturing Avenue, Cleveland, OH 44135 http://autobolt.net		
	Post Bolt (RC-51M)	Post Bolt (ASTM A307, Grade A)	2017-132Q
	Splice Bolt (RC-51M)	Splice Bolt (ASTM A307, Grade A)	2017-132Q
BENNE 15	Bennett Bolt Works, Inc., 12 Elbridge Street, P. O. Box 922, Jordan, NY 13080 http://www.bennettboltworks.com/		
	2" x 3/8" x 6" Galvanized Anchor Bar (BC-709M)	PLA 37x200x600H Plate Washer	2015-145Q
	Bolt	ASTM A307, Grade A Bolt	1985-135A
BIRFM 15	Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234		
	Nut, Bolt, and Washer	ASTM A307, Grade A Guiderail Bolt, ASTM F436 Washer, and ASTM A-563 Heavy Hex Nut	2011-127Q
CENMC 15	CenMac Metalworks, 1339 E. Fairground Road, Marion, OH 43302 http://cenmacmetalworks.com/		
	Base Plate, Post Plate, End Post Support Angle, and Hardware		2014-048Q
CGLP1 15	Commercial Group Lifting Products, 12801 Universal Drive, Taylor, MI 48180 http://www.cglift.com/		
Plant	2427 East Judd Road Burton, MI 48529		
	3/4" (6x19) Swaged Galvanized Cable (RC-51M) <i>Actual Dimensions of Threaded Section of Swaged Fitting: 1" diameter x 8 TPI x 7" long, where Standard Drawing RC-51 shows 15/16" diameter x 9 TPI. (Original approval from 1990-078A, former supplier code: CWR&S 15)</i>	BCT Cable Assembly Fabricator	2016-142Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
12/10/2020 9:27:26AM

Section 1109: Guide Rail and Metal Median Barrier

1109.05 Guide Rail: Miscellaneous Material

Last Revised: 8/26/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

	Product	Name	Ref. No.	
DAYT3 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342 Tremont, PA 17981 http://www.daytonsuperior.com/	Anchor Insert Assemblies (A, B, C, and D per BC-734)	2008-070QABCD	
DI-HS 15	Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/	Base Plate, Post Plate, End Post Support Angle, and Hardware Nut, Bolt, and Washer	1991-344 1991-344	
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/	Base Plate, Post Plate, End Post Support Angle, and Hardware Rotating Bracket	1987-158 1987-158	
FAST1 15 Facility	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Holo-Krome 5800 Industrial Avenue Loves Park, IL 61111 https://www.fastenal.com/	Bolt Splice Bolt (RC-51M)	ASTM A307, Grade A Bolts Type "H" Splice Bolt (Button Head, ASTM A307)	2019-211Q 2019-211Q
FAST2 15 Facility	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Holo-Krome 61 Barnes Industrial Park North Wallingford, CT https://www.fastenal.com/	Bolt Splice Bolt (RC-51M)	ASTM A307, Grade A Bolts Type "G" Splice Bolt (Button Head, ASTM A307)	2019-213Q 2019-213Q
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/	Bolt	ASTM A307, Grade A Bolts	1990-048



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Posted:
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Section 1109: Guide Rail and Metal Median Barrier

1109.05 Guide Rail: Miscellaneous Material

Last Revised: 8/26/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Product	Name	Ref. No.
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/	
	Base Plate, Post Plate, End Post Support Angle, and Hardware	1989-180
	Nut, Bolt, and Washer	1989-180
	Rotating Bracket	1989-180
	Steel Spacer Tube	1989-180
MIDW1 15	Mid West Fabricating Company, 313 North Johns Street, Amanda, OH 43102 http://midwestfab.com/	
	Bolt ASTM A307, Grade A Bolts	1999-168Q
MIDW2 15	Mid West Fabricating Company, 3115 West Fair Avenue, Rockmill Division, Lancaster, OH 43130 http://midwestfab.com/	
	Nut ASTM A-563 Heavy Hex Nut	2012-105Q
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/	
	Base Plate, Post Plate, End Post Support Angle, and Hardware	2012-160Q
	Rotating Bracket	2013-096Q
	Steel Spacer Tube	2012-171Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/	
	Anchor Plate (RC-51M)	1994-295Q
	Base Plate, Post Plate, End Post Support Angle, and Hardware	1994-293Q
	Rotating Bracket	1994-294Q
	Steel Spacer Tube	1999-078
SILOF 15	Silo Fasteners - Ohio Rod Products, Elgin Fastener Group, 1415 South Benham Road, Versailles, IN 47042 http://elginfasteners.com/	
	Bolt ASTM A307 Bolt	1999-135Q
	* Approved MM-USA marking as Identifiable Steel	



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Section 1109: Guide Rail and Metal Median Barrier

1109.05 Guide Rail: Miscellaneous Material

Last Revised: 8/26/2020

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

	Product	Name	Ref. No.
SOEBS 15	Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 Nut, Bolt, and Washer	http://www.sebolt.com/index.html	1991-059
STCBS 15	Steel City Bolt and Screw, LLC, 230 West Valley Road, Birmingham, AL 35201 Nut, Bolt, and Washer	http://www.steelcitybolt.com/ ASTM A307, Grade A Bolts	1990-036
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801	http://www.highwayguardrail.com/ Base Plate, Post Plate, End Post Support Angle, and Hardware	Excluding Steel Tube 2010-262Q
		Bolt and Nut	ASTM A307A Bolt and ASTM A-563 Heavy Hex Nut 2010-137QAB
		Rotating Bracket	----
		Steel Spacer Tube	----
VAMP- 15	Vamp Company, 28055 Fort Street, Trenton, MI 48133 Nut	http://vampcompany.com/ ASTM A-563 Heavy Hex Nut	2011-073Q

1109.08 Guide Rail: Welded Material

For Welded Steel Posts, see Section 1109.03.



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Section 1110: Right-of-Way Fence

1110.01(a) Wire Fabric and Components, Type 1 Right-of-Way Fence

Last Revised: 10/14/2020

AASHTO M 181 Type I, Class D: Zinc-coated, Type II: Aluminum-coated, Type IV, Class A or B: Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric. Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

	Product	Name	Ref. No.
ANCHR 15	Master Halco, Inc., Anchor Fence Division, 1000 N. South Rd., Scranton, PA 18504 http://www.masterhalco.com/ <i>Formerly Anchor Fence Company.</i>		
	Aluminum-coated Steel Fabric		1995-243
	Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric		----
	Zinc-coated (Galvanized) Steel Fabric		----
MERME 15	Merchant Metals, 900 Ashwood Parkway, Suite 200, Atlanta, GA 30338 https://www.merchantsmetals.com/		
	Aluminum-coated Steel Fabric		2003-191Q
	Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric		2003-192Q
	Zinc-coated (Galvanized) Steel Fabric		2003-190Q
SHAFC 15	Sharon Fence Company, 1 Miller Court, Sharon, PA 16146 http://www.sharonfence.com/		
	Aluminum-coated Steel Fabric		2017-280Q
	Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric		2017-281Q
	Zinc-coated (Galvanized) Steel Fabric		2017-207Q
SPSKJ 15 Facility	Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/ SPS Jamestown 2151 N. Main Highway 127 Jamestown, KY 42649		
	Aluminum-coated Steel Fabric	OnGuard Aluminum Coated Steel Chain Link Fence Fabric	2016-118Q
	Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric	OnGuard SPSV Fused and Bonded Poly (Vinyl Chloride) - PVC Coated Steel Chain Link Fence Fabric	2016-103Q
SPSMD 15 Facility	Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/ SPS Bladensburg 4301 46th Street Bladensburg, MD 20710		
	Aluminum-coated Steel Fabric	OnGuard Aluminum Coated Steel Chain Link Fence Fabric	2016-221Q
	Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric	OnGuard SPSV Fused and Bonded Poly (Vinyl Chloride) - PVC Coated Steel Chain Link Fence Fabric	2016-220Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1110: Right-of-Way Fence

1110.01(a) Wire Fabric and Components, Type 1 Right-of-Way Fence

Last Revised: 10/14/2020

AASHTO M 181 Type I, Class D: Zinc-coated, Type II: Aluminum-coated, Type IV, Class A or B: Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric. Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

	Product	Name	Ref. No.
STASW 15	Stateside Steel and Wire, 304 Wyanoke Road, West Memphis, AR 72301	http://statesidesteel.com/	
	Aluminum-coated Steel Fabric		2007-149QB
	Zinc-coated (Galvanized) Steel Fabric		2007-149QA
	<i>Stateside Steel and Wire is approved to galvanize the wire used to manufacture the fence fabric.</i>		
STEPN 15 Facility	Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642	http://www.spsfence.com/	
	10732 Schadel Road SE Mount Sterling, OH 43143-0237		
	Zinc-coated (Galvanized) Steel Fabric		2000-090Q
	<i>Stephens Pipe & Steel is approved to galvanize the wire used to manufacture the fence fabric.</i>		

1110.01(b) Wire Fabric and Components, Type 2 and Type 5 Right-of-Way Fence

Last Revised: 10/15/2020

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

	Product	Name	Ref. No.
BKERT 15 Facility	Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067	http://www.bekaert.com/en/	
	Van Buren, AR		
	Galvanized Steel Fabric		1999-027Q
	<i>Bekaert Corporation is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires used to manufacture the fence fabric.</i>		
KEYSW 15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641	http://www.libertysteel.us	
	Formerly Keystone Steel & Wire Company		
	Galvanized Steel Fabric	1047-6-11 Hinge Joint Fabric	2007-038Q
	<i>Keystone Steel & Wire Company is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires to manufacturer the fence fabric. The new supplier code is LIBSWP15.</i>		



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1110: Right-of-Way Fence

1110.01(b) Wire Fabric and Components, Type 2 and Type 5 Right-of-Way Fence

Last Revised: 10/15/2020

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Product	Name	Ref. No.
LIBSWP15 Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us <i>Formerly Keystone Steel & Wire Company (KEYSW 15)</i>		
Galvanized Steel Fabric	1047-6-11 Hinge Joint Fabric	2007-038Q
<i>Liberty Steel & Wire Peoria is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires to manufacturer the fence fabric.</i>		
OKSW1 15 Oklahoma Steel & Wire, P.O. Box 220, Madill, OK 73446 http://www.okbrandwire.com/ Facility Highway 70 South Madil, OK 73446		
Galvanized Steel Fabric	1047-6-11 Class III Galvanized Field Fence Fabric	2018-081Q
<i>Oklahoma Steel & Wire is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires used to manufacture the fence fabric.</i>		

1110.02 End Posts, Corner and Pull Posts, Line Posts, Braces, Stretcher Bars, Truss Rods, Fittings,

Last Revised: 8/10/2017

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Product	Name	Ref. No.
ALLTC 15 Allied Tube & Conduit Corporation, 16100 South Lathrop Ave., Harvey, IL 60426 http://www.alliedeg.us/		
Fence Posts		2000-028Q
ANCHR 15 Master Halco, Inc., Anchor Fence Division, 1000 N. South Rd., Scranton, PA 18504 http://www.masterhalco.com/ <i>Formerly Anchor Fence Company.</i>		
Fence Fittings and Hardware		----
Fence Posts		----
BENNE 15 Bennett Bolt Works, Inc., 12 Elbridge Street, P. O. Box 922, Jordan, NY 13080 http://www.bennettboltworks.com/		
Fence Fittings and Hardware		----
Fence Posts		----



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Section 1110: Right-of-Way Fence

1110.02 End Posts, Corner and Pull Posts, Line Posts, Braces, Stretcher Bars, Truss Rods, Fittings,

Last Revised: 8/10/2017

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Product	Name	Ref. No.
FRANK 15	Franklin Industries, 645 Atlantic Ave., Franklin, PA 16323 http://store.franklinindustriesco.com/	
Fence Fittings and Hardware		----
<i>Approved to manufacture fence parts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>		
Fence Posts		----
<i>Approved to manufacture fence posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>		
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm	
Fence Fittings and Hardware		1990-291
Fence Posts		1990-291
Fence Posts		1990-291A
<i>C Fabric up to 5'</i>		
Fence Posts		1990-291B
<i>H Fabric up to 8'</i>		
Fence Posts		1993-251
<i>Roll-formed C Section fence framework coated with Galfan 1", 2", and 2-3/8".</i>		
LANCC 15	Lancaster Composite, Inc., P.O. Box 27, Millersville, PA 17551-0027 http://lancastercomposite.com/	
Fence Posts	Composite Post 40	1995-239
<i>Provisional Approval: ECMS Special Provision P-C06241-A.</i>		



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Section 1110: Right-of-Way Fence

1110.02 End Posts, Corner and Pull Posts, Line Posts, Braces, Stretcher Bars, Truss Rods, Fittings,

Last Revised: 8/10/2017

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Product	Name	Ref. No.
MTMNC15 Midwest Tube Mills, Inc., 2855 Michigan Road, Madison, IN 47250 http://www.midwesttubemills.com		
Braces	MT-40 Fence Tubing	2015-119Q
End Posts (2 3/8") <i>Approved for fabric heights of 4, 5, and 6 feet</i>	MT-40 Fence Tubing	2015-119Q
Line Posts (1 7/8") <i>Approved for fabric heights of 4 feet</i>	MT-40 Fence Tubing	2015-119Q
SPSKY 15 Facility Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/ 5975 South Highway 76 Russell Springs, KY 42642		
Braces	OnGuard SPS40E	2016-051Q
End Posts (2 3/8") <i>Approved for fabric heights of 4, 5, and 6 feet</i>	OnGuard SPS40E	2016-051Q
Fence Fittings and Hardware	OnGuard SPS40E Tension Band, Dome Cap, Rail End, Brace Band	2016-051Q
Fence Fittings and Hardware	OnGuard SPS40E Top Rail Sleeve, Line Post Eye Cap, Truss Rod Bracket, Line Clamp	2016-051Q
Line Posts (1 7/8") <i>Approved for fabric heights of 4 feet</i>	OnGuard SPS40E	2016-051Q
WHETC 15 Wheatland Tube Company, 1 Council Avenue, Wheatland, PA 16161 http://www.wheatland.com/		
Fence Posts		1998-110
Fence Posts		1998-136



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1111: High Load Multi-Rotational Bearings

1111.03 High Load Multi-Rotational Bearings

Last Revised: 5/8/2018

Companies not listed must be preapproved by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA before commencing fabrication. [Approved Bridge and Structure Products](#)

	Product	Name	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	Disc Bearing		2005-082Q
	Pot Bearing		2005-082Q
	Spherical Bearing		2005-082Q
CONSV 15	Con-Serv, Inc., 2963 Interstate Parkway, Brunswick, OH 44212 http://www.con-servinc.com/		
	Disc Bearing		2003-012Q
	Pot Bearing		2003-012Q
	Spherical Bearing		2003-012Q
COSME 15	Cosmec Inc., 1501 Rocky Ridge Road, Athens, TX 75751 http://www.cosmecinc.com/		
	Pot Bearing		1990-146
	Spherical Bearing		1990-146
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/		
	Disc Bearing		2016-031Q
	Pot Bearing		2001-022Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/		
	Disc Bearing		2017-029Q
	Pot Bearing		2017-029Q
LUBTC 15	Lubrite Technologies, 18649 Brake Shoe Road, Meadville, PA 16335-0458 http://www.usbfmi.com/lube1.htm		
	Pot Bearing		1990-309AB
	Spherical Bearing		1990-309AB



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1111: High Load Multi-Rotational Bearings

1111.03 High Load Multi-Rotational Bearings

Last Revised: 5/8/2018

Companies not listed must be preapproved by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA before commencing fabrication. [Approved Bridge and Structure Products](#)

	Product	Name	Ref. No.
MAGE1 15 Facility	mageba USA LLC, 575 Lexington Ave, 4th Floor, New York 10022 Pottstown, PA	http://www.magebausa.com/	
	Disc Bearing	Reston Disc	2018-016Q
NATBR 15	R. J. Watson / National Bridge Company Inc., 11035 Walden Avenue, Aiden, NY 14004	http://www.rjwatson.com/	
	Disc Bearing		2013-239Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1112: Glued Laminated Hardwood Timber Members

1112 Glued Laminated Hardwood Timber Members

Last Revised: 7/9/2015

	Product	Name	Ref. No.
ALAWP 15	Alamco Wood Products, Inc., 1410 West Ninth Street, Albert Lea, MN 56007 Timber Fabricator	http://www.alamcowood.com/	2000-236Q
KOPRS 15	Koppers Industries, Inc., 50 Koppers Lane, Montgomery, PA 17752 Timber Treater	http://www.koppers.com/locations/susquehanna-plant	1999-194Q
NORSO 15	North-South Wood Preserving Company, 160 Preserver Road, North, SC 29112 Timber Treater		2012-117Q
RIGID 15	Rigidply Rafters, Inc., 701 East Linden Street, Richland, PA 17087 Timber Fabricator	http://www.rigidply.com/	1999-176Q
STEJ2 15	Stella-Jones Corporation, R.R. 3, P. O. Box 275, Dubois, PA 15801 <i>Formerly Burke-Parsons-Bowby Corp. (BURPB 15)</i> Timber Treater	http://stella-jones.com/	2002-079Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1113: Plain and Laminated Neoprene Bearing Pads

1113 Plain and Laminated Neoprene Bearing Pads

Last Revised: 7/18/2017

Product	Name	NTPEP Test Number	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	Plain 50D Neoprene Bearing Pad		1986-117
	Plain 60D Neoprene Bearing Pad		1986-118
	Steel Laminated 50D Neoprene Bearing Pad		1986-119A
	Steel Laminated 60D Neoprene Bearing Pad		1986-119B
BRPMF 15	BRP Manufacturing Company, 637 North Jackson St., P.O. Box 389, Lima, OH 45802-0389 http://www.brpmfg.com/		
	Plain 50D Neoprene Bearing Pad		2016-231Q
	Plain 60D Neoprene Bearing Pad		2001-174Q
MURR1 15	MurRubber Technologies, Inc. (Formerly Bedell-Kraus), 1350 Commerce Drive, Stow, OH 44224 http://murrubber.com/		
	Plain 50D Neoprene Bearing Pad		2012-251Q
SCOUG 15	Scougal Rubber Corporation, 885 Denmark Dr. Ste. 103b, McCarran, NV 89434 http://www.scougalrubber.com/		
	Plain 50D Neoprene Bearing Pad		1998-178
	Plain 60D Neoprene Bearing Pad		1998-178
	Steel Laminated 50D Neoprene Bearing Pad		1998-178
	Steel Laminated 60D Neoprene Bearing Pad		1998-178
SEISM 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	518 Progress Way Athens, TX 75751 (Formerly Seismic Energy Products, Inc.)		
	Plain 50D Neoprene Bearing Pad		----
	Plain 60D Neoprene Bearing Pad		----
	Steel Laminated 50D Neoprene Bearing Pad		----
	Steel Laminated 60D Neoprene Bearing Pad		----
VOSSE 15	Voss Engineering, Inc., 6965 North Hamlin Ave., Lincolnwood, IL 60712 http://www.vossengineering.com/		
	Plain 50D Neoprene Bearing Pad		2000-198Q
	Plain 60D Neoprene Bearing Pad		2000-198Q



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Section 1113: Plain and Laminated Neoprene Bearing Pads

1113 Plain and Laminated Neoprene Bearing Pads

Last Revised: 7/18/2017

Product	Name	NTPEP Test Number	Ref. No.
WSTAR 15	West American Rubber Company, Inc., 750 North Main Street, Orange, CA 92668 http://warco.com/		
	Plain 50D Neoprene Bearing Pad		1999-051Q
	Plain 60D Neoprene Bearing Pad		1999-051Q

1113.03(h) Bedding Material for Bridge Shoes

Last Revised: 7/9/2015

Product	Name	Ref. No.
FABRK 15	Fabreeka International, Inc., 1023 Turnpike Street, P. O. Box 210, Stroughton, MA 02072 http://www.fabreeka.com/	
	Bedding Material for Bridge Shoes	FABCO SA47, Type I
	Bedding Material for Bridge Shoes	Fabreeka, Type II
HBD-1 15	HBD/Thermoid, Inc., 240 Industrial Lane, P.O. Box 4310, Oneida, TN 37841 http://www.hbdthermoid.com/	
	Bedding Material for Bridge Shoes	No. 24-34-5111-72 Type II
VOSSE 15	Voss Engineering, Inc., 6965 North Hamlin Ave., Lincolnwood, IL 60712 http://www.vossengineering.com/	
	Bedding Material for Bridge Shoes	SORBTEX, Type II



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1124: Temporary Traffic Control Signals

1124.03 Temporary Traffic Control Signals on Pedestal-Mounted Portable Traffic Control Signal Sysi

Last Revised: 2/14/2018

See Section 901.2 Temporary Traffic Control Signals for product listings.

Product	Name	COA	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Anchoring Devices for Use in Vertical Positions Only

Last Revised: 8/27/2020

Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear, or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load. See Section 516.2(k) for horizontal anchoring applications. Steel Products Procurement Act applies for mechanical anchors and threaded rods. [ICC-ES Evaluation Reports](#)

& [IAPMO- Uniform Evaluation Service \(UES\)](#)

	Product	Name	Ref. No.
ADHTC 15	Adhesives Technology Corporation, 450 East Copans, Pompano Beach, FL 33064 http://www.atcepoxy.com/ Anchoring Adhesive	ULTRABOND HS-200	2002-048Q
ADVAC 15	Advance Coatings, 42 Depot Road, Westminster, MA 01473 http://advancecoatings.com/ Anchoring Adhesive Anchoring Adhesive	KeligROUT 101-P KeligROUT Polyester Adhesive	2004-123QA 2004-132Q
DAYT0 15	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/ Mechanical Anchor	Type A and B Anchors, per BC-734	1997-169
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Anchoring Adhesive Anchoring Adhesive	Dural 452 Gel Dural Fast Set Epoxy LV	2003-098Q 1999-183Q
FOGLA 15	Foglia, A & P, Inc., 14 Hickory Drive, East Brunswick, NJ 08816 Anchoring Adhesive	Magnabond	1991-349
HILT- 15	Hilti, Inc., 5400 South 122nd East Ave., P.O. Box 21148, Tulsa, OK 74121 https://www.hilti.com/ Anchoring Adhesive <i>ICC-ES Evaluation Report: ICC-ES Evaluation Report: ESR-3814 (Subject to renewal 1/2021)</i> Anchoring Device (Adhesive & Threaded Rod) <i>Approved two-component system consists of a self-contained adhesive capsule (HVU Adhesive Capsule) and a threaded rod with nut and washer (HAS Anchor Rod Assembly). Only approved for threaded rods manufactured in the United States.</i>	HIT-RE 500 Anchoring Epoxy HVU Capsule Adhesive Anchoring System	2001-101Q 2000-123Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Anchoring Devices for Use in Vertical Positions Only

Last Revised: 8/27/2020

Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear, or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load. See Section 516.2(k) for horizontal anchoring applications. Steel Products Procurement Act applies for mechanical anchors and threaded rods. [ICC-ES Evaluation Reports](#)

& [IAPMO- Uniform Evaluation Service \(UES\)](#)

	Product	Name	Ref. No.
HILT1 15 Plant	Hilti, Inc., 7250 Dallas Parkway, Suite 1000, Plano, TX 75024 https://www.hilti.com/ Kaufering, Germany		
	Anchoring Adhesive	HIT-HY 10 PLUS Adhesive Anchor System	2014-106QB
	Anchoring Adhesive	HIT-HY 150 Injection Adhesive	1996-054
ITW-R 15	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/		
	Anchoring Adhesive	EPCON C6+ High Strength Epoxy	1988-131
	Anchoring Adhesive	EPCON G5 High Strength Epoxy	1993-276
	Mechanical Anchor	Trubolt Wedge Anchor, Galvanized	1992-363A
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
	Anchoring Adhesive	Sure-Poxy 116	1992-169
	Anchoring Adhesive	Sure-Poxy 117	1990-371
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Anchoring Adhesive	Rezi-Weld Gel Paste (Construction Epoxy)	1993-280
MKTFS 15	MKT Fastening, LLC, 1 Gunnebo Drive, Lonoke, AR 72086 http://www.mktfastening.com/		
	Anchoring Adhesive	Liquid Roc 300 Twin Tube	1996-092E
	Anchoring Adhesive	Liquid Roc 500 Low Odor Twin Tube	1996-092F
	Mechanical Anchor	Sup-R-Stud Wedge Anchor	1996-092B
	Mechanical Anchor	Taper Bolt	1996-092A
PLYGM 15	Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/		
	Anchoring Adhesive	1257 Epoxy Anchoring Adhesive	1993-270



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Section MISC: Miscellaneous

MISC Anchoring Devices for Use in Vertical Positions Only

Last Revised: 8/27/2020

Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear, or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load. See Section 516.2(k) for horizontal anchoring applications. Steel Products Procurement Act applies for mechanical anchors and threaded rods. [ICC-ES Evaluation Reports](#)

& [IAPMO- Uniform Evaluation Service \(UES\)](#)

	Product	Name	Ref. No.
POWFS 15	Powers Fasteners, Inc., 2 Powers Square, New Rochelle, NY 10801 http://www.powers.com/		
	Mechanical Anchor	Power-Bolt	1991-206
	Mechanical Anchor	Power-Stud	1991-205
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
	Anchoring Adhesive	Sikadur DOT SP 3/4 DBA (Epoxy as Injection Gel)	1989-236
	Anchoring Adhesive	Sikadur Injection Gel	1989-236
SIKA5 15 Plant	Sika Corporation / 2K Polymer Systems Limited, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 2K Polymer Systems Limited 1682 Marion Williamsport Road Venture Crescent, DE55 7RA U.K.		
	Anchoring Adhesive	Sikadur Anchor Fix 500	2014-125QB
SIMST 15	Simpson Strong-Tie, Inc., 136 Official Road, Addison, IL 60101 http://www.strongtie.com/		
	Anchoring Adhesive (Formerly known as Acrylic-Tie)	AT Acrylic Adhesive	1999-223Q
	Anchoring Adhesive ICC-ES Evaluation Reports: ESR-3372 & ESR-3372-SP. (Formerly known as ET Epoxy-Tie) ET-HP Epoxy Adhesive IAPMO-UES Evaluation Report Number: 0241 - Masonry (Valid through 07/31/2021)	ET-HP Epoxy Adhesive	1985-008
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
	Anchoring Adhesive	Pro-Poxy 300	1996-016
	Anchoring Adhesive	Pro-Poxy 300 Fast	1994-093B
	Anchoring Adhesive	Pro-Poxy 400	2001-228Q

MISC Asphalt Paving Course, FB Modified

Last Revised: 9/14/2017



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Section MISC: Miscellaneous

MISC Asphalt Paving Course, FB Modified

Last Revised: 9/14/2017

Product	Name	Letter Date	Ref. No.
GORBR 15	Gorman Brother's, Church Street, Port Of Albany, Albany, NY 12202 http://www.gormanroads.com/		
	FB Modified		2003-196Q
	FB-3 Modified Wearing Course		2003-196Q
HEILM 15	Heilman Pavement Specialties, 290 North Pike Road, Sarver, PA 16055-9735 http://www.hei-way.com/		
	FB Modified	1/7/1992	----
	FB-3 Modified Wearing Course		1998-134
RUSS6 15	Russell Standard Corporation, P.O. Box 802, Mars, PA 16046 http://www.russellstandard.com/		
Terminal	Mars, PA		
	FB Modified		1994-054
	FB-3 Modified Wearing Course		1996-104
SUIT0 15	Suit-Kote Corporation, 1911 Lorings Crossing Rd, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	FB Modified		2003-088Q
	FB-3 Modified Wearing Course		2003-089Q
	<i>Provisional Approval - Contact PennDOT Materials Testing Laboratory at 717-787-2707 before using on a Department project.</i>		

MISC Coal Tar Epoxy (RCC Pipe Coating)

Last Revised: 4/7/2015

Product	Name	Ref. No.
CARBL 15	Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/	
	Coal Tar Epoxy	Bitumastic No. 300-M

ROYST 15	Chase Corporation, 295 University Avenue, Westwood, MA 02090 http://www.chasecorp.com/	
Facility	128 First Street Pittsburgh, PA 15238	
	Coal Tar Epoxy	Roskote-201
		1970-005

MISC Corrosion Inhibitor

Last Revised: 10/19/2020



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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

Last Revised: 10/19/2020

Admixtures for inhibiting the corrosion of steel reinforcement in concrete.

ASTM C1582 - Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-1 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
	Allentown, PA Effective October 1, 2020, new supplier code is MBS-1 15				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
BAS-1215 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
	Reynolds, GA Effective October 1, 2020, new supplier code is MBS-9 15.				
	Corrosion Inhibitor [CI]	MasterLife CI 222 (Rheocrete 222+)	1 gallon per cubic yard		1995-105
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
BAS-2 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html				
	Gurnee, IL Effective October 1, 2020, new supplier code is MBS-2 15				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				



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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

Last Revised: 10/19/2020

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ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BAS-3 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html			
	Tipp City, OH			
	Effective October 1, 2020, new supplier code is MBS-3 15			
Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>			
BAS-8 15 Plant	BASF Construction Chemicals, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html			
	St. Leonard, Quebec			
	Effective October 1, 2020, new supplier code is MBS-8 15			
Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>			
Corrosion Inhibitor [CI]	MasterLife CI 222 (Rheocrete 222+)	1 gallon per cubic yard		1995-105
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>			
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Corrosion Inhibitor [CI]	Eucon CIA	2 to 6 gal/yd ³	CADD-2013-01-025	2015-122QC
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>			



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MISC Corrosion Inhibitor

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ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
GRAC0 15 Facility GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140-1692 https://gcpat.com/en-us 62 Whittemore Ave. Cambridge, MA 02140-1692 <i>Formerly: W. R. Grace and Company</i>	Corrosion Inhibitor [CI]	DCI		2010-102QB	
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
	Corrosion Inhibitor [CI]	DCI Calcium Nitrite			1980-040
	Corrosion Inhibitor [CI]	DCIS			1997-149
GRAC6 15 Plant GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140 https://gcpat.com/en-us Augusta, GA <i>Formerly: W. R. Grace and Company</i>	Corrosion Inhibitor [CI]	DCI		2010-102QB	
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
	Corrosion Inhibitor [CI]	DCI Calcium Nitrite			1980-040
	Corrosion Inhibitor [CI]	DCIS			1997-149
MBS-1 15 Plant Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA <i>Formerly BASF Construction Chemicals (BAS-115)</i>	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				



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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

Last Revised: 10/19/2020

Admixtures for inhibiting the corrosion of steel reinforcement in concrete.

ASTM C1582 - Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-2 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Gurnee, IL Formerly BASF Construction Chemicals (BAS-2 15)			
Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
MBS-3 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Tipp City, OH Formerly BASF Construction Chemicals (BAS-3 15)			
Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
MBS-8 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	St. Leonard, Quebec Formerly BASF Construction Chemicals (BAS-8 15)			
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115
<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
Corrosion Inhibitor [CI]	MasterLife CI 222 (Rheocrete 222+)	1 gallon per cubic yard		1995-105
<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				



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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

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Admixtures for inhibiting the corrosion of steel reinforcement in concrete.

ASTM C1582 - Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-9 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
	Reynolds, GA <i>Formerly BASF Construction Chemicals (BAS-1215)</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 222 (Rheocrete 222+)	1 gallon per cubic yard		1995-105
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
MINRD 15	Mineral Research & Development, 5910 Pharr Mill Road, Harrisburg, NC 28075-8625 http://www.mrdc.com/				
	Corrosion Inhibitor [CI]	Sika CNI		CADD-2015-01-111	2010-267Q
	<i>Provisional Approval: Contact PennDOT Materials Testing Laboratory at 717-787-2489 before using.</i>				
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302				
	Corrosion Inhibitor [CI]	FerroGard-901 (formerly Armatec 2000)			1996-264

MISC Crumb Rubber Modifier (CRM) Additive

Last Revised: 4/5/2016

Use in accordance with project specification (CRM requirements for gradation, contaminants, moisture, and specific gravity).

	Product	Name	Ref. No.
LIB-1 15	Liberty Tire Recycling, LLC, 490 Ohio Street, Lockport, NY 14094 http://libertytire.com/Home.aspx		



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Section MISC: Miscellaneous

MISC Crumb Rubber Modifier (CRM) Additive

Last Revised: 4/5/2016

Use in accordance with project specification (CRM requirements for gradation, contaminants, moisture, and specific gravity).

	Product	Name	Ref. No.
LIB-1 15	Liberty Tire Recycling, LLC, 490 Ohio Street, Lockport, NY 14094 Crumb Rubber Modifier (CRM) Additive	http://libertytire.com/Home.aspx	2013-098A
LIB-2 15	Liberty Tire Recycling, LLC, 100 Talbot Avenue, Braddock, PA 15104 Crumb Rubber Modifier (CRM) Additive	http://libertytire.com/Home.aspx	2013-097A
LTINC 15	Lehigh Technologies, Inc., 120 Royal Woods Court SW, Tucker, GA 30084 Crumb Rubber Modifier (CRM) Additive	http://www.lehightechnologies.com MicroDyne 400-TR (40 Mesh GTR)	2015-179M
MAHAN 15	Mahantango Enterprises, Inc., Rr #2, P. O. Box 680, Liverpool, PA 17045 Crumb Rubber Modifier (CRM) Additive	http://www.mahantango.com/	1994-031
NRIND 15 Plant	Edge Rubber, 1711 Opportunity Avenue, Chambersburg, PA 17201 811 Progress Road Chambersburg, PA 17201 <i>Formerly NRI Industries</i> Crumb Rubber Modifier (CRM) Additive	http://www.edgerubber.com	-----
SPART 15	Sparton Enterprises, Inc., 3717 Clark Mill Rd., Barberton, OH 44203 Crumb Rubber Modifier (CRM) Additive	http://spartonenterprises.com/	1991-072

MISC Crumb Rubber Modifier (CRM), Treated

Last Revised: 2/8/2017

No approved products for treated Crumb Rubber Modifier (CRM)

	Product	Name	Ref. No.
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MISC Dust Palliatives

Last Revised: 6/23/2016

Moved to Section 901.3(b)



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Section MISC: Miscellaneous

MISC Dust Palliatives

Last Revised: 6/23/2016

Moved to Section 901.3(b)

Product	Name	Ref. No.
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MISC Embedded Galvanic Anodes

Last Revised: 2/15/2019

Cathodic Protection (CP) systems are intended to prevent or retard corrosion in concrete structures. There are several key factors that need to be considered and evaluated before CP is deemed a technically acceptable and cost effective solution on an individual project.

Establishing the required electrical continuity in new construction comes only with significant effort and, in rehabilitation work, it is exceedingly difficult. Therefore, the design and use of CP systems for any structure, or part thereof, needs to be approved by the C.O. Bridge Quality Assurance Division (BQAD).

Project designers should consider the CP System Guidelines (link below) prior to submitting their project designs to BQAD for review and approval.

Use & Approval Guidelines: [Cathodic Protection \(CP\) Systems](#)

All listings in this section are conditionally approved.

Product	Name	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/	
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sentinel GL 2010-013Q
JAR-1 15 Plant	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://jardenzinc.com/	
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	MasterProtect 8065 CP Anodes 2014-117
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	MasterProtect 8105 CP Anodes 2014-118
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	MasterProtect 8150 CP Anodes 2014-119



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Section MISC: Miscellaneous

MISC Embedded Galvanic Anodes

Last Revised: 2/15/2019

Cathodic Protection (CP) systems are intended to prevent or retard corrosion in concrete structures. There are several key factors that need to be considered and evaluated before CP is deemed a technically acceptable and cost effective solution on an individual project.

Establishing the required electrical continuity in new construction comes only with significant effort and, in rehabilitation work, it is exceedingly difficult. Therefore, the design and use of CP systems for any structure, or part thereof, needs to be approved by the C.O. Bridge Quality Assurance Division (BQAD).

Project designers should consider the CP System Guidelines (link below) prior to submitting their project designs to BQAD for review and approval.

Use & Approval Guidelines: [Cathodic Protection \(CP\) Systems](#)

All listings in this section are conditionally approved.

	Product	Name	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sika FerroGard 650	2018-185
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sika FerroGard 670	2018-186
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sika FerroGard 675	2018-187
VECTR 15	Vector Corrosion Technologies, 13312 North 56th Street, #102, Tampa, FL 33617 http://www.vector-corrosion.com/		
	Embedded Galvanic Anodes - Distributed <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Galvanode DAS	2008-166
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Galvashield XP	2001-145
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Galvashield XP4	2011-075

MISC Epoxy Based Surface Treatment for Bridge Decks

Last Revised: 10/29/2020

As of 10/29/20, the epoxy based surface treatments have been moved to Section 1046.2(a) -Polymeric Resin Binder.



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Section MISC: Miscellaneous

MISC Epoxy Based Surface Treatment for Bridge Decks

Last Revised: 10/29/2020

As of 10/29/20, the epoxy based surface treatments have been moved to Section 1046.2(a) -Polymeric Resin Binder.

Product	Name	Ref. No.
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MISC Expanded Foam Backfill For Post Mounted Signs Types B, C and E

Last Revised: 6/25/2019

Provisional Specification: ECMS Special Provision P-c09311-A, Type B (Only for use on projects let on or before July 1, 2019)

Provisional Specification: ECMS Special Provision P-c09321-A, Type C (Only for use on projects let on or before July 1, 2019)

Provisional Specification: ECMS Special Provision P-c09341-A, Type E (Only for use on projects let on or before July 1, 2019)

Product	Name	Ref. No.
FOREI 15	Forward Enterprises, Inc., 9430 Telephone Road, Houston, TX 77075	
	Expanded Foam Backfill For Post Mounted Signs Types B, C and E <i>Provisionally approved for use on projects let on or before July 1, 2019.</i>	2000-089
	Expanded Foam Backfill For Post Mounted Signs Types B, C and E <i>Provisionally approved for use on projects let on or before July 1, 2019.</i>	2000-089

MISC Flexible Weatherproofing Coating for Concrete

Last Revised: 4/8/2015

Product	Name	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/	
	Flexible Weatherproofing Coating for Concrete Dural 355	1988-351
PDI-N 15	PDI, Inc., P. O. Box 130, Circle Pines, MN 55014 http://www.pdi-inc.com/	
	Flexible Weatherproofing Coating for Concrete Plastic Dip UV 1800	1985-179
WATSB 15	Watson Bowman Acme Corporation, 95 Pineview Drive, Amherst, NY 14228 https://wbacorp.com/	
	Flexible Weatherproofing Coating for Concrete EP Elastic Waterproofing	1987-125



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Section MISC: Miscellaneous

MISC Geosynthetic Clay Liner (GCL)

Last Revised: 12/6/2019

ECMS Special Provision C02121 ITEM 9212-2101 (ITEM 9212-0101) - Geosynthetic Clay Liner

This Provisional Specification or any manufacturer or product may be withdrawn immediately, if experience demonstrates a problem with the use of Geosynthetic Clay Liner.

Product	Name	Ref. No.
BNTFX 15 TAG Environmental, Inc., Division of Terrafix, 23 Truman Road, Barrie, Ontario L4M 6E7 http://terrafixgeo.com/products/geosynthetic-clay-liner-gcl/ <i>Formerly Bentofix Technologies, Inc.</i>		
Geosynthetic Clay Liner (GCL) <i>Provisionally Approved. This approval is only for Bentofix NSL geosynthetic clay liners manufactured at the Barrie, Ontario facility.</i>	Bentofix NSL	1999-109Q
CETCO 15 CETCO, Mineral Technologies Inc., 2870 Forbs Avenue, Hoffman Estates, IL 60192 http://www.cetco.com/en-us/ <i>(Formerly Colloid Environmental Technologies Company)</i>		
Geosynthetic Clay Liner (GCL) <i>Provisionally Approved</i>	Bentomat CL	2011-206Q
Geosynthetic Clay Liner (GCL) <i>Provisionally Approved</i>	Bentomat ST	1999-075Q

MISC Geotextile and Fiberglass Reinforced Paving Fabrics and Grids (Asphalt)

Last Revised: 3/2/2020

See Section 466.2(a) Geotextile Paving Fabric

Product	Name	COA	Ref. No.
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MISC High-Tension Cable Median Barrier Systems

Last Revised: 7/20/2020

Publication 13M, Design Manual Part 2 (DM2), Chapter 12.6.D - High-Tension Cable Median Barrier & Table 12.10 (Design/Location Guidelines for High-Tension Cable Barrier Systems Installed in Medians)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
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Section MISC: Miscellaneous

MISC High-Tension Cable Median Barrier Systems

Last Revised: 7/20/2020

Publication 13M, Design Manual Part 2 (DM2), Chapter 12.6.D - High-Tension Cable Median Barrier & Table 12.10 (Design/Location Guidelines for High-Tension Cable Barrier Systems Installed in Medians)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
BRIF0 15	Brifen USA, Inc., 12501 North Santa Fe Avenue, Oklahoma City, OK 73114 http://www.brifenus.com/ High-Tension Barrier System	Brifen TL-4 Wire Rope Safety Fence (WRSF) (4 Cable) NCHRP 350		TL-4	B-82B	SGR07d	2013-165M
GIBRA 15 Facility	Gibraltar Global LLC, 4303 Innovation Loop, Marble Falls, TX 78654 https://gibraltarglobal.com/ 1208 Houston Clinton Dr. Burnet, TX 78611 High-Tension Barrier System	Gibraltar TL-4 Cable Barrier System (4 Cable) NCHRP 350	Multiple	TL-4	B-137A, B-137A1, B-137B, B-137D	SGM07b	2015-129M
NUCR6 15	Nucor Steel Marion, Inc., 912 Cheney Ave., Marion, OH 43302 http://www.nucor.com/ High-Tension Barrier System	NU-CABLE TL-4 High Tension Barrier System (4 Cable) NCHRP 350	Multiple	TL-4	B-167	SGM07f	2010-166MB
TRIN2 15	Trinity Highway Products, LLC, 550 East Robb Ave., Lima, OH 45801 http://www.highwayguardrail.com/ High-Tension Barrier System	CASS S3 TL4 Cable Barrier System (4 Cable) MASH 2009		TL-4	B-232B, B-232C, B-141F	SGM36b	2013-168M

FHWA Eligibility Letters for CASS S3:

B-232C: MASH TL-4 on Level Terrain

B-232B: MASH TL-3 on 4H:1V slopes: The as tested condition - 30 foot-wide median on backslope 11 feet from bottom of median and 26 feet from slope break point.

B-141F: NCHRP-350 TL-3 on 1:4 slopes or flatter; TL-4 on 1:6 slopes or flatter



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Section MISC: Miscellaneous

MISC High-Tension Cable Median Barrier Systems

Last Revised: 7/20/2020

Publication 13M, Design Manual Part 2 (DM2), Chapter 12.6.D - High-Tension Cable Median Barrier & Table 12.10 (Design/Location Guidelines for High-Tension Cable Barrier Systems Installed in Medians)

Important Notice: [AASHTO/FHWA Joint Implementation Agreement for MASH 2016](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designator	Ref. No.
TRIN3 15	Trinity Highway Products, LLC, 2548 NE 28th Street, Ft. Worth, TX 76111 http://www.highwayguardrail.com/ High-Tension Barrier System	CASS S3 TL4 Cable Barrier System (4 Cable)		MASH 2009	TL-4	B-232B, B-232C, B-141F	SGM36b 2013-168M
<p><i>FHWA Eligibility Letters for CASS S3:</i> B-232C: MASH TL-4 on Level Terrain B-232B: MASH TL-3 on 4H:1V slopes: The as tested condition - 30 foot-wide median on backslope 11 feet from bottom of median and 26 feet from slope break point. B-141F: NCHRP-350 TL-3 on 1:4 slopes or flatter; TL-4 on 1:6 slopes or flatter</p>							

MISC Hot Pour Mastics

Last Revised: 2/28/2020

Product	Name	Ref. No.
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040 Hot Pour Mastic <i>Conditionally approved to be used per manufacturer's specifications: Mastic One 33339 Product Data Sheet (manufacturer's specifications)</i>	Mastic One Part No. 33339 2014-270
FTECH 15 Plant	FPT Infrastructure, a Division of Fibrecrete Preservation Technologies, Inc., 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/ 401 Old 52 South Mount Airy, NC 27030 Hot Pour Mastic <i>Conditionally approved to be used per manufacturer's specifications: SAMIscreed Technical Data Sheet (manufacturer's specifications)</i>	SAMIscreed 2019-186
MAXPR 15	Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com Hot Pour Mastic <i>Conditionally approved to be used per manufacturer's specifications: GAP Mastic B Product Data Sheet (manufacturer's specifications)</i>	Gap Mastic B 2018-239



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Section MISC: Miscellaneous

MISC Hot Pour Mastics

Last Revised: 2/28/2020

Product	Name	Ref. No.
RTPT2 15 Facility	RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ Sharpsville, PA <i>Effective October 19, 2020, acquired by Crafcro, Inc.</i>	
Hot Pour Mastic	Pave Patch Black	2018-157
Conditionally approved to be used per manufacturer's specifications: Pave Patch Black Product Data Sheet (manufacturer's specifications)		

MISC Metal Cribbing

Last Revised: 1/27/2016

Steel Products Procurement Act applies.

Product	Name	Ref. No.
CON00 15	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Metal Cribbing	----
CON06 15 Plant	Contech Engineered Solutions LLC, a QUIKRETE Company, 9025 Centre Pointe Drive, West Chester, OH 45069 http://www.conteches.com/ 700 Tech Drive Winchester, KY 40391 Metal Cribbing	----

MISC Modular Glare Screen

Last Revised: 4/8/2015

Product	Name	Ref. No.
CARST 15	Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/ Modular Glare Screen	1984-159
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html Modular Glare Screen	1991-053
	Anti-Glare Shield System	

MISC PA Structure Mounted Guide Rail Bridge Barrier (BD-609M)

Last Revised: 7/23/2019



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MISC PA Structure Mounted Guide Rail Bridge Barrier (BD-609M)

Last Revised: 7/23/2019

Product	Name	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA Structure Mounted Guide Rail Bridge Barrier	2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA Structure Mounted Guide Rail Bridge Barrier	2014-195QN
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA Structure Mounted Guide Rail Bridge Barrier	2008-114Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA Structure Mounted Guide Rail Bridge Barrier	2010-246Q
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ PA Structure Mounted Guide Rail Bridge Barrier	2009-025Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ PA Structure Mounted Guide Rail Bridge Barrier	2010-015Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ PA Structure Mounted Guide Rail Bridge Barrier	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ PA Structure Mounted Guide Rail Bridge Barrier	2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA Structure Mounted Guide Rail Bridge Barrier	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ PA Structure Mounted Guide Rail Bridge Barrier	2012-247Q



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MISC PA Structure Mounted Guide Rail Bridge Barrier (BD-609M)

Last Revised: 7/23/2019

	Product	Name	Ref. No.
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143	http://rgsteel.com/	
	PA Structure Mounted Guide Rail Bridge Barrier		2007-189Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209	http://www.safetyguardsteel.com/	
	220 Lincoln Avenue Pittsburgh, PA 15209		
	PA Structure Mounted Guide Rail Bridge Barrier		2013-133QC
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701		
	PA Structure Mounted Guide Rail Bridge Barrier		2015-142QF

MISC Photovoltaic Modules

Last Revised: 4/13/2015

Must satisfy requirements of Section 910.3(u)3 and 910.3(v).

Approval for use granted only on a project-by-project basis by Special Provision in the contract.

Use in rural areas where cost-effectiveness can be demonstrated.

	Product	Name	Letter Date	Ref. No.
KYOCE 15	Kyocera International, Inc., 8611 Balboa Ave., San Diego, CA 92123	http://americas.kyocera.com/		
	Photovoltaic Modules		1/4/1991	----

MISC Pipe Penetrating Sealers to Reduce Chlorine Penetration of Concrete

The products previously listed in this Section have been moved to Section 1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces) and/or Section 1019.2(d) Penetrating Sealers (For Bridge Superstructure).

AASHTO T259, AASHTO T260, FHWA RD 78-35, Section 4.B.77

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 11/2/2020

	Product	Name	Cement Usage	Ref. No.
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Section MISC: Miscellaneous

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 11/2/2020

Product	Name	Cement Usage	Ref. No.
AQUAF 15	Aquafin, Inc., 505 Blue Ball Road, #160, Elkton, MD 21921 http://www.aquafin.net/ Formerly Ceratech, Inc. (CETEC 15)		
	Polymer Modified and Special Cements, Mortars, and Concrete	Pavemend SL	2010-276
	<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SL Technical Datasheet</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	Pavemend SLQ	2010-277
<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SLQ Technical Datasheet</i>			
	Polymer Modified and Special Cements, Mortars, and Concrete	Pavemend VR	Vertical and Overhead 2007-064Q
BASBS 15	BASF Corporation Building Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.basf.com/us/en.html		
	Polymer Modified and Special Cements, Mortars, and Concrete	MasterEmaco N 400 (formerly HB2 Repair Mortar)	Vertical and Overhead 1983-080
	<i>Effective 10/30/2020, the new supplier code for MasterEmaco N 400 is MBS-4 15.</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	MasterEmaco S 466 CI (formerly Emaco S66 CI)	Vertical and Overhead 1994-284
	<i>Effective 10/30/2020, the new primary supplier code for MasterEmaco S 466 is MBS11 15. It is also manufactured at MBS-7 15 & MBS12 15.</i>		
Polymer Modified and Special Cements, Mortars, and Concrete	MasterEmaco S 488 CI (formerly Emaco S88 CI)	1992-034	
<i>Effective 10/30/2020, the new primary supplier code for MasterEmaco S 488 CI is MBS11 15. It is also manufactured at MBS12 15.</i>			
Polymer Modified and Special Cements, Mortars, and Concrete	MasterEmaco T 310 CI (formerly Emaco R310 CI)	1994-024	
<i>Not Rapid Hardening. Effective 10/30/2020, the new supplier code for MasterEmaco T 310 CI is MBS11 15.</i>			
CEMX6 15 Plant	Fairborn Cement Company (Eagle Materials, Inc.), 3811 Turtle Creek Blvd, Suite 1100, Dallas, TX 75219 http://www.eaglematerials.com 3250 Linebaugh Road Xenia, OH 45385 (Formerly CEMEX, Inc.)		
	Polymer Modified and Special Cements, Mortars, and Concrete	Type M Masonry Cement	2010-233QA
	Polymer Modified and Special Cements, Mortars, and Concrete	Type S Masonry Cement	2010-233QB



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 11/2/2020

Product	Name	Cement Usage	Ref. No.
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Polymer Modified and Special Cements, Mortars, and Concrete	SpeedPatch	1996-135
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040 Polymer Modified and Special Cements, Mortars, and Concrete <i>Conditionally Approved</i>	TechCrete	2013-114
CTS-1 15	CTS Cement Manufacturing Company, 12442 Knott Street, Garden Grove, CA 92841 http://www.ctscement.com/ Polymer Modified and Special Cements, Mortars, and Concrete	Chem Comp III / Komponent (for Type K)	1989-085
	Polymer Modified and Special Cements, Mortars, and Concrete	CTS Type K	2001-161Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Rapid Set Cement	1986-358
	Polymer Modified and Special Cements, Mortars, and Concrete	Rapid Set Concrete Mix, Section 624.2(c)	1993-092
DAYT1 15	Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/ Polymer Modified and Special Cements, Mortars, and Concrete	Acrylic Bonding Agent J40, formerly Day Chem, AD Bond (J-40)	1995-161
	Polymer Modified and Special Cements, Mortars, and Concrete	HD-25VO, formerly HD-25	Vertical and Overhead 1999-207Q



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

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Product	Name	Cement Usage	Ref. No.
EUCLD 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
	Polymer Modified and Special Cements, Mortars, and Concrete	Concrete Top Supreme	2002-159Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Dural Top Gel	Vertical and Overhead 1996-224
	Polymer Modified and Special Cements, Mortars, and Concrete	Eucocrete	2002-154Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Speedcrete Red Line	Vertical and Overhead 2001-143Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Thin Top Supreme	2002-158Q
FLETE 15	Flexcrete Technologies, 1181 Terrace Manor, Prosper, TX 75078 http://flexcrete.com/		
	Polymer Modified and Special Cements, Mortars, and Concrete	Flexcrete Technologies 102	2003-077Q
FTECH 15 Plant	FPT Infrastructure, a Division of Fibrecrete Preservation Technologies, Inc., 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/ 401 Old 52 South Mount Airy, NC 27030		
	Polymer Modified and Special Cements, Mortars, and Concrete	Fibrecrete G	2014-244
HBFUL 15 Plant	H. B. Fuller Construction Products Inc., 1200 Willow Lake Boulevard, St. Paul, MN 55110-5101 http://www.hbfuller.com/ 59 Brunswick Avenue Edison, NJ 08817		
	Polymer Modified and Special Cements, Mortars, and Concrete ~ ProSpec BlendCrete Features & Benefits, Datasheets, and Specs	ProSpec BlendCrete Pre-cast, Prestressed and Dry-Cast Cosmetic Repairs Only	1987-072
IMCTI 15	IMCO Technologies, Inc., 350 Wentworth St. North,, Hamilton, Ontario Canada L8L5W3		
	Polymer Modified and Special Cements, Mortars, and Concrete	MG-Krete 1260	2008-122Q



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

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Product	Name	Cement Usage	Ref. No.
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
	Polymer Modified and Special Cements, Mortars, and Concrete	Duracrete II VOFT	2016-179Q
	<i>Approved per manufacturer's specifications: Duracrete II VOFT Product Datasheet</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	HiCap (Light) Patching Compound	1994-269
	Polymer Modified and Special Cements, Mortars, and Concrete	HiCap (Medium) Patching Compound	1992-295
KAUFM 15	Polymer Modified and Special Cements, Mortars, and Concrete	HiCap FT	2018-164Q
	<i>Approved per manufacturer's specifications: HiCap FT Product Datasheet</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	PipeWipe	Pre-cast, Prestressed and Dry-Cast Cosmetic Repairs Only 2004-033Q
LAFR7 15 Plant	Lafarge North America, Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.lafargeholcim.us/		
	Whitehall Cement Plant 5160 Main Street Whitehall, PA 18052		
	Polymer Modified and Special Cements, Mortars, and Concrete	T-SF Blended	Not Approved for ASR Mitigation 1998-013
LAFR7 15 Plant	Polymer Modified and Special Cements, Mortars, and Concrete	Type I-E (Enhanced)	2008-037Q
	<hr/>		
	LEH-9 15 Plant	Lehigh Cement Company, LLC, 3938 Easton Nazareth Highway, Nazareth, PA 18064 http://www.lehighhanson.com/	
3938 Easton Nazareth Highway Nazareth, PA 18064 (Formerly Essroc ESS-7 15)			
Polymer Modified and Special Cements, Mortars, and Concrete		Type M Cement	2002-108Q
Polymer Modified and Special Cements, Mortars, and Concrete		Type N Cement	2002-109Q
LEH-9 15 Plant	Polymer Modified and Special Cements, Mortars, and Concrete	Type S Cement	2002-107Q



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Product	Name	Cement Usage	Ref. No.
LEH13 15 Plant	Lehigh Cement Company, LLC, Highway 31, Speed, IN 47172 http://www.lehighhanson.com/		
	Speed, IN <i>(Formerly Essroc ESS13 15)</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	Brixment Type M Cement	2012-163QA
	Polymer Modified and Special Cements, Mortars, and Concrete	Brixment Type N Cement	2012-163QB
	Polymer Modified and Special Cements, Mortars, and Concrete	Brixment Type S Cement	2012-163QC
MAPEIA15 Plant	MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/		
	Fredericksburg, VA		
	Polymer Modified and Special Cements, Mortars, and Concrete	Planitop X	2017-295Q
	ASTM C928, R2 Repair Mortar - Planitop X Technical Data Sheet		
	Polymer Modified and Special Cements, Mortars, and Concrete	Planitop XS	2017-302Q
	ASTM C928, R1 Repair Mortar - Planitop XS Technical Data Sheet		
MBS-4 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us		
	6450 Bristol Pike Levittown, PA 19057 <i>Formerly BASF Construction Chemicals (BAS-4 15)</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	MasterEmaco N 400 (formerly HB2 Repair Mortar)	Vertical and Overhead 1983-080
MBS-7 15 Plant	Master Builders Solutions US LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.basf.com/us/en.html		
	Newark, CA <i>Formerly BASF Construction Chemicals (BAS-1115)</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete	MasterEmaco S 466 CI (formerly Emaco S66 CI)	Vertical and Overhead 1994-284
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>		



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Product	Name	Cement Usage	Ref. No.
MBS12 15 Plant	Master Builders Solutions US LLC, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://www.master-builders-solutions.com/en-us 7100 Wright Road Houston, TX 77041 <i>Formerly BASF Building Systems (BASBS 15)</i>		
	Polymer Modified and Special Cements, Mortars, and Concrete <i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>	MasterEmaco S 466 CI (formerly Emaco S66 CI) Vertical and Overhead	1994-284
	Polymer Modified and Special Cements, Mortars, and Concrete <i>Product is also manufactured in Streetsboro, OH (MBS 11 15).</i>	MasterEmaco S 488 CI (formerly Emaco S88 CI)	1992-034
NATPC 15	National Permacrete Company, 590 N. Valley Forge Rd., P. O. Box 886, Devon, PA 19333		
	Polymer Modified and Special Cements, Mortars, and Concrete	Permacrete Pre-cast, Prestressed and Dry-Cast Cosmetic Repairs Only	1998-168
QUIKR 15 Plant	The Quikrete Companies, One Securities Centre, 3490 Piedmont Road, N.E. Suite 1300, Atlanta, GA 30305 http://www.quikrete.com/ Latrobe, PA		
	Polymer Modified and Special Cements, Mortars, and Concrete	Commercial Grade QUIKRETE FastSet™ Concrete Mix Vertical and Overhead	2000-288Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Commercial Grade QUIKRETE FastSet™ DOT Mix Vertical and Overhead	2003-004Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Commercial Grade QUIKRETE FastSet™ Non-Shrink Grout Vertical and Overhead	2000-292Q
	Polymer Modified and Special Cements, Mortars, and Concrete	Commercial Grade QUIKRETE FastSet™ Repair Mortar Vertical and Overhead	2000-291Q
	Polymer Modified and Special Cements, Mortars, and Concrete	FastSet™ Cement Vertical and Overhead	2000-287Q



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 11/2/2020

Product	Name	Cement Usage	Ref. No.	
ROKLIN15 Facility	Roklin Systems Incorporated, 300 East Shell Road, Ventura, CA 93001 300 East Shell Road Ventura, CA 93001			
	Polymer Modified and Special Cements, Mortars, and Concrete	Roklin Concrete Welder Gray System For Concrete Repair with Pea Gravel Aggregates	2016-217	
<p><i>Conditionally approved as a system per manufacturer's specifications. System includes Concrete Welder Gray two component liquid and bags of Fairmount Santrol's 3/8 inch silica pea gravel & 1/8 inch silica sand (topping). Manufacturer's Specifications: Roklin Concrete Welder System Technical Data Sheet</i></p>				
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071			
	Polymer Modified and Special Cements, Mortars, and Concrete	Sika Cem 133	Vertical and Overhead	1992-006
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikadur 42 Grout Pak (for seating base plates)		1992-005
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 111		1978-043
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 121		1980-016
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 122		1979-036
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 123	Vertical and Overhead	1982-007



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 11/2/2020

Product	Name	Cement Usage	Ref. No.	
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302			
	Polymer Modified and Special Cements, Mortars, and Concrete	Sika Cem 133	Vertical and Overhead	1992-006
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikadur 42 Grout Pak (for seating base plates)		1992-005
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 111		1978-043
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 121		1980-016
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 122		1979-036
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 123	Vertical and Overhead	1982-007
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Lyndhurst, NJ			
	Polymer Modified and Special Cements, Mortars, and Concrete	Sika Cem 133	Vertical and Overhead	1992-006
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikadur 42 Grout Pak (for seating base plates)		1992-005
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 111		1978-043
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 121		1980-016
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 122		1979-036
	Polymer Modified and Special Cements, Mortars, and Concrete	Sikatop Plus 123	Vertical and Overhead	1982-007



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 11/2/2020

Product	Name	Cement Usage	Ref. No.
USCPR 15 Plant	US Concrete Products, 16 Green Meadow Drive, Suite 202, Timonium, MD 21093 http://www.uscproducts.com/		
	Polymer Modified and Special Cements, Mortars, and Concrete	High Power Cement	2002-141Q
	Polymer Modified and Special Cements, Mortars, and Concrete	High Power DOT Grade Repair Mortar	2002-140Q
	Polymer Modified and Special Cements, Mortars, and Concrete	High Power Fast Setting Concrete	2003-147Q

MISC Precast Concrete Products

Last Revised: 11/17/2020

Approval Guidelines: [Design Manual, Part 4 \(Publication 15M\), Part A, Chapter 1, Section 1.14](#)

Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
ADVIT 15	Advanced Infrastructure Technologies, LLC, 55 Baker Boulevard, Suite 205, Brewer, ME 04412 http://www.aitbridges.com/		
	Alternate Concrete Arch System (Non-Precast)	Composite Arch Bridge System	483-20-01 (Previously 483-14-05)
	<i>Item Number 9000-7022: Clear Span Length: 20 feet to 65 feet; Skew Angle: 50 degrees to 90 degrees; Structure configuration: Simple Span (Original Product Evaluation Application 2013-236Q) Approved Bridge and Structure Products</i>		
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/		
	<i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i> Earth Retainment System	Lagging Walls	2012-169Q
CONAW 15	Conewago Precast Building Systems, 576 Edgegrove Road, P.O. Box 461, Hanover, PA 17331 http://www.conewago.com/capabilities/precast-concrete/		
	Earth Retainment System	Lagging Walls	2018-222Q



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
	Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)
	Earth Retainment System	Wall Lagging	----
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)
DAILY 15	Dailey, W. E., Inc., RR1A Box 51, Airport Road, Shaftsbury, VT 05262 http://wedailey.com/		
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)
EAGLE 15	Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	Earth Retainment System	Lagging Walls	2002-135Q
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
	Earth Retainment System	Dura-Hold	431-11-10 (95-144R PE)
	Earth Retainment System	Lagging Walls	
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)
	Earth Retainment System	SINE WALL (MSE wall)	483-17-4



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Product	Name	SOL Number	Ref. No.
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
Earth Retainment System	Lagging Walls		2001-121Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	2011-070Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)	2011-070Q
Earth Retainment System	SINE WALL (MSE Wall)	483-17-4	2018-264Q
Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2003-045Q
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/		
Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)	2003-075Q
Earth Retainment System	Lagging Walls		2014-267Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	2012-047Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)	2012-047Q
Earth Retainment System	SINE WALL (MSE wall)	483-17-4	2015-110B
Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2005-019Q
Precast Concrete Arch System	ECO-SPAN Precast Arch-Box System	483-18-04 (2014-115A, PreTek Group)	2014-115B



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Product	Name	SOL Number	Ref. No.	
FTML1 15	Fort Miller Company, Inc., P.O. Box 98, Schuylerville, NY 12871-0098 http://www.fortmiller.com/ Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2005-042Q
	Precast Bridge Superstructure	Inverset	431-96-49	1990-117
GADSP 15	Garden State Precast, Inc., P. O. Box 702, Farmingdale, NJ 07727 http://gardenstateprecast.com/ Earth Retainment System	Stone Strong Systems	483-13-04	2009-187
GCLI- 15	GCL, Inc., 2559 Brandt School Road, Heritage Center, Suite 200, Wexford, PA 15090 http://cambergroup.com/gclinc.htm Earth Retainment System	Lagging Walls		2011-240Q
HYDR1 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 2000 Gregg Station Road, Oakdale, PA 15071 http://www.rinkerpipe.com/ Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)	-----
	<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>			
HYDR3 15	Hydro Conduit Corporation dba Rinker Materials/Concrete Pipe Division, 4200 Universal Drive, Diamond, OH 44412 http://www.rinkerpipe.com/ Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)	-----
	<i>Provisional Approval: ECMS Special Provision I-c1084-A.</i>			
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411 Earth Retainment System	Lagging Walls		2013-054Q



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Product	Name	SOL Number	Ref. No.
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	<i>Note: Previously assigned J&RS2 15 for same facility</i>		
	Alternate Precast Concrete Parapet	Barlock	----
	Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)
	Earth Retainment System	Lagging Walls	----
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)
	Precast Bridge Superstructure	Inverset	431-96-49
			2006-202Q
J&RS2 15	J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	Earth Retainment System	Rett Wall	483-13-10
			2011-203
LIND1 15	Lindsay Precast, 6845 Erie Avenue NW, P.O. Box 578, Canal Fulton, OH 44614 http://www.lindsayprecast.com/		
Plant	6845 Erie Avenue NW P.O. Box 578 Canal Fulton, OH 44614		
	Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)
			2020-026Q
	<i>Provisional Approval: ECMS Special Provision I-c1084-A.</i>		
	Precast Concrete Arch System	ECO-SPAN Precast Arch-Box System	483-18-04 (2014-115A, PreTek Group)
			2017-305Q
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
	Earth Retainment System	Lagging Walls	
			2008-093Q
	Earth Retainment System	Stone Strong Systems	483-13-04
			2018-041Q
MIDAP 15	Mid Atlantic Precast Inc., 401 Railroad Street, Monongahela, PA 15063		
	Earth Retainment System	Dura-Hold	431-11-10
			1995-144



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Product	Name	SOL Number	Ref. No.	
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/ Earth Retainment System	Lagging Walls	2018-194Q	
	Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2) 2000-072Q	
<i>Provisional Approval: ECMS Special Provision I-c1084-A.</i>				
MILL2 15 Plant	A. C. Miller Concrete Products, Inc., 31 E. Bridge Street, Spring City, PA 19475 http://www.acmiller.com/ Royersford Plant Royersford, PA Earth Retainment System	Lagging Walls	2019-073Q	
NORPP 15	Northeast Prestressed Products LLC, 121 River Street, Cressona, PA 17929-1133 http://www.npp-llc.com/ Earth Retainment System	Evergeen Wall	431-03-09 (92-047PE) ----	
		Earth Retainment System	Universal Wall System (U-Wall)	483-13-11 (2011-221PE) 2011-221
NORPR 15	Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/ Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD) 2017-220	
		Earth Retainment System	SINE WALL (MSE Wall)	483-17-04 (Drawing #2015-110 dated 9/21/17) 2017-122Q
OLP-1 15	Oldcastle Infrastructure, Inc., a CRH Company, 200 Keystone Drive, Telford, PA 18969 http://www.oldcastleprecast.com/Pages/default.aspx Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129) 2015-185Q	
		Precast Concrete Arch System	Bebo Precast Concrete Arch Bridge System	431-00-06 (1998-211) 1998-211Q
		Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2) 2006-072Q
<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>				



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Product	Name	SOL Number	Ref. No.	
REDRK 15	Redi Rock of Southeastern Pennsylvania, 451 East Reliance Road, Telford, PA 18969-0000 http://jdm-inc.com/ Earth Retainment System	Redi-Rock Gravity Wall	483-18-02 (2016-030)	2016-030M
	Earth Retainment System	Redi-Rock Positive Connection Retaining Wall System	483-18-02 (2015-067)	2015-067A
SIDP1 15	Sidley Precast Division of R.W. Sidley, Inc., 88 East Hillis Street, Youngwood, PA 15697 http://www.sidleyprecast.com/ Earth Retainment System	Lagging Walls		2010-204Q
STOCO 15	Stone and Company, 1718 Roseytown Road, Greensburg, PA 15601 http://stoneconcrete.com/ Earth Retainment System	Redi-Rock Positive Connection Retaining Wall System	483-18-02 (2015-067)	2017-356
TERH0 15 Plant	Terre Hill Concrete Products, PLANT #2:, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/ PLANT #2: P.O. Box 10 Terre Hill, PA 17581 Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)	2009-013Q
<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>				
TERH1 15 Plant	Terre Hill Concrete Products, PLANT #4:, 42 South Butler Road, Lebanon, PA 17042 http://www.terrehill.com/ PLANT #4: 42 South Butler Road Lebanon, PA 17042 Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)	2001-141Q
<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>				
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 http://www.lcwhitford.com/ Earth Retainment System	Lagging Walls		2007-042Q



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

	Product	Name	SOL Number	Ref. No.
WILLA 15 Plant	K. J. Williams Concrete Company, Inc., P.O. Box 5137, Cresaptown, MD 21505-5137 15213 McMullen Highway S.W. Cumberland, MD 21502			
	Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)	----
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	----
	Earth Retainment System	SINE WALL (MSE Wall)	483-17-4	2018-027Q

MISC Sediment Filter Bag

Last Revised: 6/7/2018

For 15' x 15' pumped water filter bags, see Section 855.

ECMS Special Provision I-C08581-A

	Product	Name	Ref. No.
ACF-2 15	ACF Environmental, Inc., 2831 Cardwell Road, Richmond, VA 23234 http://www.acfenvironmental.com/view.aspx?page=home		
	Sediment Filter Bag	Dirt Bag	1995-156
ENVGE 15	Environmental Geosynthetics, 1314 State Road, Coopersburg, PA 18036 http://www.environmentalgeosynthetics.com/		
	Sediment Filter Bag	The Protector 1515 10 oz Sediment Filter Bag	2005-036Q
INDVA 15	Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 http://www.iviindustries.com/index.html		
	Sediment Filter Bag	IVI 1515 Sediment Filter Bag	2001-020Q
JOHNS 15	Johnston-Morehouse Dickey Company, 5401 Progress Boulevard, P.O. Box 173, Bethel Park, PA 15102 http://www.jmdcompany.com/		
	Sediment Filter Bag	Enviro-Protection Filter Bag	1997-122



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MISC Sediment Filter Bag

Last Revised: 6/7/2018

For 15' x 15' pumped water filter bags, see Section 855.

ECMS Special Provision I-C08581-A

	Product	Name	Ref. No.
ROBER 15	Frank Roberts and Sons, Inc., 1130 Robertsville Road, Punxsutawney, PA 15767 http://www.frankrobertsandsons.com/		
	Sediment Filter Bag	FB-3 Filter Bag	1995-019

MISC Special Asphalt Patching Material

Last Revised: 10/2/2020

Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

	Product	Name	Ref. No.
COLMM 15	Cold Mix Manufacturing Corporation, 65 Edison Avenue, Mount Vernon, NY 10550 https://www.greenpatch.com		
	Special Asphalt Patching Material	GreenPatch High Performance Cold Mix	2013-034M
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040		
	Special Asphalt Patching Material <i>Provisionally Approved</i>	Crafco HP Cold Patch	2011-136
	Special Asphalt Patching Material	Polypatch Type 1, Hot Applied	2000-064
	Special Asphalt Patching Material	Polypatch Type 2, Hot Applied	2000-064
	Special Asphalt Patching Material	Polypatch Type 3, Hot Applied	2000-064
EZSCO 15	EZ Street Company, 1786 NW 82nd Avenue, Miami, FL 33126 http://www.asphaltrepair.net/		
	Special Asphalt Patching Material <i>Provisionally approved per manufacturer's specifications. EZ Street Cold Asphalt Patching Material - Manufacturer's Specifications</i>	EZ Street Cold Asphalt Patching Material	2007-007Q
HEILM 15	Heilman Pavement Specialties, 290 North Pike Road, Sarver, PA 16055-9735 http://www.hei-way.com/		
	Special Asphalt Patching Material	HEI-Way General Purpose Permanent Patching Material	1983-128
	Special Asphalt Patching Material	HEI-Way Latex Modified Permanent Patching Material	1983-127
	Special Asphalt Patching Material	HEI-Way Premium Stockpile Permanent Patching Material	1980-077



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MISC Special Asphalt Patching Material

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Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

	Product	Name	Ref. No.
INNMU 15	Innovative Municipal U.S., Inc., P.O. Box 712, Niagara Falls, NY 14302 Special Asphalt Patching Material <i>Provisionally Approved</i>	Propatch High Performance	2008-146Q
PERMA 15	Perma-Patch, Inc., 6123 Oakleaf Avenue, Baltimore, MD 21215 http://permapatch.com/ Special Asphalt Patching Material	Perma-Patch	86-037
QPR-1 15	QPR, Division of the Quikrete Company, 12735 Morris Road, Alpharetta, GA 30004 http://www.quikrete.com/ Special Asphalt Patching Material <i>Provisionally Approved</i>	QPR High Performance Cold Patch	2004-153Q
ROAPR 15	Roadstone Production, LLC, 1230 River Road, Charlottesville, VA 22901 http://aquaphalt.com/ Special Asphalt Patching Material <i>Provisionally approved per manufacturer's specifications. Aquaphalt Technical Data Sheet - Specifications</i>	Aquaphalt 4.0 Fine	2012-198
	Special Asphalt Patching Material <i>Provisionally approved per manufacturer's specifications. Aquaphalt Technical Data Sheet - Specifications</i>	Aquaphalt 6.0 Medium	2012-198
	Special Asphalt Patching Material <i>Provisionally approved per manufacturer's specifications. Aquaphalt Technical Data Sheet - Specifications</i>	Aquaphalt 9.0 Coarse	2012-198
RUSS1 15	Russell Standard Corporation, 990 Hazel Street, Akron, OH 44305 http://www.russellstandard.com/ Special Asphalt Patching Material	Jasa HP Cold Patch	2011-123
RUSS2 15	Russell Standard Corporation, #2 Prestley Road, Bridgeville, PA 15017 http://www.russellstandard.com/ Special Asphalt Patching Material	Polypave Stockpile Patch	1982-025



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MISC Special Asphalt Patching Material

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Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

Product	Name	Ref. No.
RUSS7 15 Facility	Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238 http://www.russellstandard.com/ 3450 Asiatic Avenue Baltimore, MD 21226	
	Special Asphalt Patching Cutback Asphalt <i>This approval is for the liquid only. The cutback asphalt must be blended with aggregate that meets the quality requirements in Sections 703.1 and 703.2 of Pub 408 to be used as cold patching material. See Bulletin 27, Specifications for Special Bituminous (Asphalt) Mixtures, for composition of mixture requirements: Bulletin 27, Chapter 3, Bituminous Patching Materials</i>	JASA HP-5 Cutback Asphalt 2015-136Q
SEABD 15	Seaboard Asphalt Products Company, 3601 Fairfield Road, Baltimore, MD 21226 http://seaboardasphalt.com/	
	Special Asphalt Patching Material <i>Product Application Guide: Seaboard BOND-X Green Product Application Guide</i>	BOND-X Green Patching Material 2011-125
	Special Asphalt Patching Material <i>Product description and specifications: BOND-X High Performance Cold Patch Product Data Sheet</i>	BOND-X High Performance Cold Patch 1994-280
	Special Asphalt Patching Material <i>Technical Data Sheet: SpecChem MAX-A-PATCH ACP Technical Data Sheet</i>	SpecChem MAX-A-PATCH ACP 2020-187Q
SUIT0 15	Suit-Kote Corporation, 1911 Lorings Crossing Rd, Cortland, NY 13045-5160 http://www.suit-kote.com/	
	Special Asphalt Patching Material <i>Modified stockpile patching material. Product description, recommended uses, and specifications: SK-MOD Product Data Sheet</i>	SK-MOD 1994-086
SUIT2 15 Terminal	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ 797 Carlton Drive Bentleyville, PA	
	Special Asphalt Patching Material <i>Coarse aggregate modified patch. Product description, recommended uses, and specifications: SK-CAMP Product Data Sheet</i>	SK-CAMP 2020-063Q
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ 10965 McHenry Street Meadville, PA	
	Special Asphalt Patching Material <i>Coarse aggregate modified patch. Product description, recommended uses, and specifications: SK-CAMP Product Data Sheet</i>	SK-CAMP 2007-037Q



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Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

Product	Name	Ref. No.
UPMCP 15	Unique Paving Materials Corporation, 3993 East 93rd Street, Cleveland, OH 44105-4096 http://www.uniquepavingmaterials.com/ Special Asphalt Patching Material <i>(product name formerly listed as UPM High Performance Cold Patch)</i> UPM Permanent Pavement Repair Material Usage Guidelines	1992-058
	UPM Permanent Pavement Repair Material	

MISC Steel Fibers For Fiber-Reinforced Concrete (ASTM A820)

Last Revised: 11/17/2016

ECMS Special Provision c10901 ITEM 3090 Steel Fiber Reinforced Concrete Wearing Surface

Product	Name	Ref. No.
BKERT 15 Facility	Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067 http://www.bekaert.com/en/ Van Buren, AR Steel Fibers for Reinforced Concrete, Type 1 Deformed <i>Not for use with Ultra High Performance Concrete.</i>	1999-018Q
	Dramix 3D	
MFIBR 15	Fibercon, International, 100 South Third Street, Evans City, PA 16033 http://www.fiberconfiber.com/ Steel Fibers for Reinforced Concrete, Type 2 <i>Not for use with Ultra High Performance Concrete.</i>	1991-133
	Fibercon Steel Fibers	

MISC Subgrade Stabilization Treatment

Last Revised: 6/22/2015

Provisional Specification: ECMS Special Provision I-c02101B

Product	Name	Ref. No.
CARML 15 Plant	Carmeuse Lime Company, Inc., Route 422 & Clear Springs Road, Annville, PA 17003 https://www.carmeuse.com/na-en Route 422 & Clear Springs Road Annville, PA 17003 Subgrade Stabilization Treatment	2006-037QB
	Envirolime, Lime Pozzolan	
	Subgrade Stabilization Treatment	2006-036Q
	Quicklime	

MISC Temporary Expansion Dam Systems

Last Revised: 3/1/2019



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MISC Temporary Expansion Dam Systems

Last Revised: 3/1/2019

Product	Name	Letter Date	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	Alternate System (Conditionally Approved) <i>Conditionally approved as an alternate.</i>		2011-040A
	Alternate System (Conditionally Approved) <i>Conditionally approved as an alternate.</i>		2011-040B
CRAF0 15	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/		
Plant	121 Industrial Park Road Halls, TN 38040		
	Asphaltic Plug <i>Conditionally approved per manufacturer's specifications: Crafco Matrix 501 Product Data Sheet</i>		2013-017Q
	Asphaltic Plug <i>Conditionally approved per manufacturer's specifications: Crafco Matrix 502 Product Data Sheet</i>		1995-189Q
DSBLT 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
Plant	LymTal International, Inc. 4150 South Lapeer Road Lake Orion, MI 48359		
	Two-component Urethane Sealant <i>Conditionally approved.</i>		2011-030
DYSAP 15	Dynamic Surface Applications, Ltd., 373 Village Road, Pennsdale, PA 17756 http://dsa-ltd.com/		
	Asphaltic Plug	9/3/1997	----
	Asphaltic Plug	9/3/1997	----
SILSP 15	Silicone Specialties, Inc., P.O. Box 50009, Tulsa, OK 74150 http://ssicm.com/		
	Two Part Silicone <i>Recommended for maintenance projects with service life up to five (5) years. Provisionally Approved</i>		1993-157



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MISC Temporary Expansion Dam Systems

Last Revised: 3/1/2019

Product	Name	Letter Date	Ref. No.
WATRJ 15 R. J. Watson, Inc., 11035 Walden Avenue, Alden, NY 14007 http://www.rjwatson.com/			
Preformed Silicone <i>Provisionally Approved</i>	Silicoflex SF 150		1996-015
Preformed Silicone <i>Provisionally Approved</i>	Silicoflex SF 225		1996-015
Preformed Silicone <i>Provisionally Approved</i>	Silicoflex SF 400		1996-015

MISC Warm Mix Asphalt (WMA) Technologies

Last Revised: 10/2/2018

The approved WMA Technologies are now located in Section 411.2(g).

Product	Name	Ref. No.
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MISC Warm Mix Modified Performance Graded Asphalt Binders

Last Revised: 11/30/2017

See Section 702d PG Asphalt Cement for approved warm mix technology modified Performance Grade asphalt binders.

Product	Name	Ref. No.
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MISC Waterproofing Fabric (Asphalt)

Last Revised: 4/14/2015

Product	Name	Ref. No.
BREWR 15 Brewer Company, 30060 Lakeland Boulevard, Wickliffe, OH 44092 http://www.thebrewerco.com/		
Waterproofing Fabric (Asphalt)	9400 Cotton Fabric (Asphalt Saturated)	----



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Section MISC: Miscellaneous Traffic

MISC Automated Red Light Enforcement Systems (ARLE)

Last Revised: 3/17/2017

	Product	Name	COA	Ref. No.
AMERT 15	American Traffic Solutions, 1330 West Southern Avenue, Tempe, AZ 85282 Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	http://www.atsol.com/ RLSC-3D (ARLE)	AMT-001P	----
GATSO 15	Gatso USA, Inc., 900 Cummings Center, Suite 321U, Beverly, MA 01915 Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	http://www.gatso-usa.com/ T-Series (ARLE)	GAT-001P	----
REDTS 15	Redflex Traffic Systems, Inc., 23751 North 23rd Avenue, Phoenix, AZ 85085 Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	http://www.redflex.com/index.php/en/ RFR2012 (ARLE)	RTS-001P	----
XERSL 15	Xerox State and Local Solutions, Inc., 12410 Milestone Center Drive, 4th Floor, Germantown, MD 20876 Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	http://www.xerox.com/ DriveSafe (ARLE)	XSL-001P	----

MISC In Road Warning Lights

Last Revised: 6/10/2015

Department approval is required before purchase of in-roadway warning lights. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

	Product	Name	COA	COA Date	Ref. No.
ASTUL 15	Astucia (UK), Ltd., 42 Eldon Way, Tonbridge, Kent In Road Warning Light	http://www.clearviewtraffic.com/astucia/ IRS-XW-2001	AST-001E	8/29/2002	----
LIGSY 15	LightGuard Systems, Inc., 2292 Airport Boulevard, Santa Rosa, CA 95403-1003 In Road Warning Light	http://www.lightguardsystems.com/ Type 6B (SP) - LED (Endurolight)	1544-X001	4/11/2001	----
SMASS 15	SmartStud Systems, Inc., 479 John Street, Victoria, BC V8T 5H1 In Road Warning Light	SmartStud	SST-001E	6/16/2005	----



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Section MISC: Miscellaneous Traffic

MISC In Road Warning Lights

Last Revised: 6/10/2015

Department approval is required before purchase of in-roadway warning lights. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

Product	Name	COA	COA Date	Ref. No.
SWAR2 15	Swarco Futurit America, 900 North Denton, Mexia, TX 76667 https://www.swarco.com/northamerica			
In Road Warning Light	MLK 150	SFA-001E	10/15/2003	----
TRASC 15	Traffic Safety Corporation, 2708 47th Avenue, Sacramento, CA 95822 http://www.xwalk.com/			
In Road Warning Light	TS500	TSC-002E	5/1/2003	----
In Road Warning Light	TS600YYL4	TSC-003E	9/26/2012	----
In Road Warning Light	ZA 230	1534-X001	4/11/2001	----

MISC MISC Pavement Marking Systems, Integrated Multi-Polymer

Last Revised: 5/21/2019

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.
ENN-1 15	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/								
Plant	1509 South Kaufman Street Ennis, TX 75120								
Integrated Multi-Polymer Pavement Marking	HPS-8 White		White	Lighted and Unlighted Roadways	Asphalt and Concrete		AASHTO M247, Type 4 beads flooded and AASHTO M247, Type 1 beads flooded	Long lines and other uses on asphalt and concrete	2017-240 Q



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Section MISC: Miscellaneous Traffic

MISC MISC Pavement Marking Systems, Integrated Multi-Polymer

Last Revised: 5/21/2019

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer?	Beads	Application Uses	Ref. No.	
ENN-6 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Greensboro, NC 27410 Atlanta, GA									
	Integrated Multi-Polymer Pavement Marking		HPS-8 Yellow	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete		AASHTO M247, Type 4 beads at 10 lbs/gallon and Type 1 beads at 6 lbs/gallon	Other uses on asphalt and concrete, but not for long lines	2017-217 Q

MISC Pavement Marking Systems, Methyl Methacrylate

Last Revised: 12/26/2019

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer?	Beads	Other Uses?	Ref. No.	
AEXCE 15	Aexcel Coatings, 7373 Production Drive, Mentor, OH 44061-0780 http://www.aexcelcoatings.com/index.html									
	Methyl Methacrylate Pavement Marking		SP01W-40	MMA-02	White	Lighted and Unlighted Roadways	Asphalt		Yes	----
	Methyl Methacrylate Pavement Marking		SP01W-90	MMA-02	White	Lighted and Unlighted Roadways	Asphalt		Yes	----
	Methyl Methacrylate Pavement Marking		SP01W-90	MMA-02	White	Lighted and Unlighted Roadways	Concrete		No	----



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Methyl Methacrylate

Last Revised: 12/26/2019

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer?	Beads	Other Uses?	Ref. No.
AEXCE 15	Aexcel Coatings, 7373 Production Drive, Mentor, OH 44061-0780 http://www.aexcelcoatings.com/index.html								
Methyl Methacrylate Pavement Marking	SP01Y-40	MMA-02	Yellow	Lighted and Unlighted Roadways	Asphalt			No	----
Methyl Methacrylate Pavement Marking	SP01Y-90	MMA-02	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete			No	----
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120								
Methyl Methacrylate Pavement Marking	Duraset 05MXW	MMA-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Yes	2008-073QB
Methyl Methacrylate Pavement Marking	Duraset 05MX Y	MMA-01	Yellow	Lighted Roadways Only	Asphalt and Concrete			No	2008-073QA
Methyl Methacrylate Pavement Marking	HPS-7	MMA-01	White	Lighted and Unlighted Roadways	Asphalt			Yes	2011-139Q
	<i>(Also known as 999105 or Pathfinder-05MPW)</i>								
ENN-7 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ Salem, OR								
Methyl Methacrylate Pavement Marking	MMA X EF Bike Lane Green with Corundum (999660G-KIT)		Green	Lighted and Unlighted Roadways	Asphalt and Concrete			Bike Lanes Only	2019-219Q
	<i>Approval is for bike lanes only.</i>								



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Modified Polyacrylate

Last Revised: 7/14/2016

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer?	Beads	Other Uses?	Ref. No.
SWAR3 15	Colorado Paint Company, the SWARCO Group, 4747 Holly Street, Denver, CO 80216 https://www.swarco.com/cpc								
Modified Polyacrylate Pavement Marking	MFUA-10	MPPM-01	White		Asphalt and Concrete	No	12/12 (See note)	No	2014-065M
<i>This material can only be installed with the glass bead type and quantity indicated on the Certificate of Approval (12 lbs/gal each of AASHTO M247, type 1 and 12 lbs/gal each of AASHTO M247, type 4, for a total of 24 lbs/gal of Modified Polyacrylate. NTPEP Test # PMM-2011-01-083</i>									
Modified Polyacrylate Pavement Marking	MFUA-10	MPPM-01	Yellow		Asphalt and Concrete	No	12/12 (See note)	No	2014-066M
<i>This material can only be installed with the glass bead type and quantity indicated on the Certificate of Approval (12 lbs/gal each of AASHTO M247, type 1 and 12 lbs/gal each of AASHTO M247, type 4, for a total of 24 lbs/gal of Modified Polyacrylate. NTPEP Test # PMM-2011-01-084</i>									

MISC Pavement Marking Systems, Polyester

Last Revised: 6/23/2015

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer?	Beads	Other Uses?	Ref. No.
AEXCE 15	Aexcel Coatings, 7373 Production Drive, Mentor, OH 44061-0780 http://www.aexcelcoatings.com/index.html								
Polyester Pavement Marking	75W-DO12	PPM-01	White	Lighted and Unlighted Roadways	Asphalt	No	M247	No	----
Polyester Pavement Marking	SP01W-90	PPM-01	Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247	No	----

MISC Pavement Marking Systems, Polyurea

Last Revised: 6/23/2015



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Polyurea

Last Revised: 6/23/2015

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer?	Beads	Other Uses?	Ref. No.
ENN-1 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120								
Polyurea Pavement Marking	HPS-5	PUPM-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
Polyurea Pavement Marking	HPS-5	PUPM-01	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
ENN-3 15 Plant	Ennis-Flint, Inc., 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 4400 Vawter Avenue Richmond, VA 23222								
Polyurea Pavement Marking	HPS-5	PUPM-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
Polyurea Pavement Marking	HPS-5	PUPM-01	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
EPOPX 15	Epoplex, 1000 East Park Avenue, Maple Shade, NJ 08052 http://www.epoplex.com/								
Polyurea Pavement Marking	LS90	PM-05-05	White		Asphalt and Concrete		See COA	No	----
Polyurea Pavement Marking	LS90	PM-05-05	Yellow		Asphalt and Concrete		See COA	No	----

MISC Pavement Marking Systems, Preformed Wet Reflective Striping Tape

Last Revised: 3/17/2017

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Preformed Wet Reflective Striping Tape

Last Revised: 3/17/2017

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer	Beads	Other Uses?	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000								
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 380AW	WRST-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		Yes	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval. Provisionally Approved</i>									
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 380IES	WRST-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		Yes	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval.</i>									
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 380WR	WRST-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete	P-50		Yes	----
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 381AW	WRST-01	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		Yes	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval. Provisionally Approved</i>									
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 381IES	WRST-01	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		No	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval.</i>									



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Preformed Wet Reflective Striping Tape

Last Revised: 3/17/2017

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking Color	Illumination Conditions	Marking Surface	Primer	Beads	Other Uses?	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000								
	Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 381WR	WRST-01 Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	P-50		No	----

MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2

Last Revised: 11/12/2020

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

Product	Name	COA	COA Date	Ref. No.
CARMH 15	Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 Formerly Spot Devices, Inc. (SPODE 15)			
	Rectangular Rapid Flashing Beacon (RRFB) Systems	R920 Series	CTC-004X	8/2/2013 ----
	Rectangular Rapid Flashing Beacon (RRFB) Systems	R920-E	CTC-008P	7/10/2020 2019-177Q
	Rectangular Rapid Flashing Beacon (RRFB) Systems	RRFB	CTC-005X	7/25/2013 ----
	Rectangular Rapid Flashing Beacon (RRFB) Systems	SB435HP	CTC-006X	7/25/2013 ----
	Rectangular Rapid Flashing Beacon (RRFB) Systems	SC315-G	CTC-009P	7/10/2020 2019-178Q



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Section MISC: Miscellaneous Traffic

MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2

Last Revised: 11/12/2020

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

Product	Name	COA	COA Date	Ref. No.
ELECT 15	Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/			
Rectangular Rapid Flashing Beacon (RRFB) Systems	AC890371-X	ETC-001X	5/14/2010	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	AC890372	ETC-002X	5/14/2010	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	S891070-X	ETC-003X	5/14/2010	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	S891071	ETC-004X	5/14/2010	----
ITEM1 15	Intelligent Traffic Equipment Marketing Ltd., 16-755 Vanalman Avenue, Victoria, BC V8Z 3B8 https://lanelight.com/contact/			
Rectangular Rapid Flashing Beacon (RRFB) Systems	LaneLight RRFB	ITM-001P	11/3/2020	2020-170Q
RDJSE 15	R.D. Jones, Stop Experts, Inc., 723 Commerce Drive, Venice, FL 34962 http://stopexperts.com/			
Rectangular Rapid Flashing Beacon (RRFB) Systems	Enhancer	RDO-001X	11/19/2015	-
RTC-M 15	RTC Manufacturing Inc., P. O. Box 150189, Arlington, TX 76015 http://www.rtc-traffic.com/			
Rectangular Rapid Flashing Beacon (RRFB) Systems	RFB-2	RTC-007X	9/30/2013	----
TAPCO 15	TAPCO - Traffic & Parking Control Company, Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/			
Rectangular Rapid Flashing Beacon (RRFB) Systems	RRFB-XL	TCO-001X	4/29/2014	2014-010
Rectangular Rapid Flashing Beacon (RRFB) Systems	TOP RRFB-XL2	TCO-004X	1/27/2020	2018-272Q



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Section MISC: Miscellaneous Traffic

MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2

Last Revised: 11/12/2020

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

Product	Name	COA	COA Date	Ref. No.	
TRAFF 15	TraffiCalm Systems, 5676 East Seltice Way, Post Falls, ID 83854 http://trafficalm.com/				
	Rectangular Rapid Flashing Beacon (RRFB) Systems	PUSH-2-CROSS	TAC-002P	7/7/2020	2019-251Q

MISC Traffic Operations, Auxiliary

Last Revised: 7/21/2020

Product	Name	COA	COA Date	Ref. No.	
CCABH 15	Cambria Company Association for the Blind and Handicapped, 175 Industrial Park Road, RD 3 Box 164, Ebensburg, PA 15931-1813 http://www.cabproducts.com/				
	Auxilliary Traffic Operations Item	CAB Cable Rings and Saddles	1520-0000	10/22/1999	----
IBITK 15	ibisSIGNS, LLC (Formerly Ibis Tek, LLC), 496 Pittsburgh Road, Butler, PA 16002 http://www.ibisigns.com/				
	Auxilliary Traffic Operations Item	Traffic Signal Police Control, Wireless	IBS-001P	1/11/2013	----
LINCO 15	Nortek Security & Control, LLC (Linear), 5919 Sea Otter Place, Carlsbad, CA 92010 https://www.linearproaccess.com/radio-controls/xtended-range-wireless-radio-controls/ <i>Formerly Linear Corporation</i>				
	Auxilliary Traffic Operations Item	Mid Range Receiver XR-1	LIN-001P	7/10/1997	----
	Auxilliary Traffic Operations Item	Mid Range Transmitter XT-1	LIN-002P	7/10/1997	----
NAZTC 15	Trafficware, Inc., 522 Gillingham Drive, Sugar Land, TX 77478 http://www.trafficware.com/ <i>(Merger with Naztec, Inc.)</i>				
	Auxilliary Traffic Operations Item	Cabinet Interface Panel, 150 LX Interface	TFW-005P (NAZ-013P)	4/13/2016	----

MISC Yield to Pedestrian (YTP) Channelizing Devices

Last Revised: 2/19/2020



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Section MISC: Miscellaneous Traffic

MISC Yield to Pedestrian (YTP) Channelizing Devices

Last Revised: 2/19/2020

Product	Name	COA	Yield Type	Size (in.)	Yield Mount	Ref. No.
CONSF 15	Continental Safety Supply Company, Inc., 790 Bloomfield Avenue, Clifton, NJ 07012					
	Yield To Pedestrian (YTP) Channelizing Device	Soft Sandwich		Cone with Sign	18" x 36"	Surface (unfastened) 1998-011
DICKE 15	Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/					
	Yield To Pedestrian (YTP) Channelizing Device	SBL1236-Y	PED-07	Vertical Panel	12" x 36" (one-sided)	Surface (unfastened) ----
	Yield To Pedestrian (YTP) Channelizing Device	SBL1236D-Y	PED-07	Vertical Panel	12" x 36" (two-sided)	Surface (unfastened) ----
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 http://www.usa-sign.com/					
	Yield To Pedestrian (YTP) Channelizing Device	Big Foot		Vertical Panel	12" x 36"	Surface (unfastened) 2000-161Q
GARDS 15	Garden State Highway Products, Inc., 1740 East Oak Road, Vineland, NJ 08361 http://www.gardenstatehwy.com/default.aspx					
	Yield To Pedestrian (YTP) Channelizing Device	Ped Barricade		Vertical Panel	12" x 36"	Surface (unfastened) 2002-042Q
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/					
	Yield To Pedestrian (YTP) Channelizing Device	254-R-1-6 Crossing Sign	PED-3	Vertical Panel	12" x 42"	Surface (unfastened) 2000-323Q
PEXCO 15	Pexco Davidson Traffic Control Products, 2500 Northwinds Parkway, Suite 472, Alpharetta, GA 30009 http://www.pexco.com/markets/industrial/traffic					
Facility	3110 70th Avenue East Tacoma, WA 98424					
	Yield To Pedestrian (YTP) Channelizing Device	8FG342FLGEFX613	PED-08	Vertical Panel	12" x 42"	Surface (unfastened) ----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
	Yield To Pedestrian (YTP) Channelizing Device	Big Foot		Vertical Panel	12" x 36"	Surface (unfastened) 2000-161Q
SAFHC 15	Safe-Hit Corporation, a Division of Energy Absorption Systems, Inc., A Trinity Industries, Inc. Company, 70 West Madison Street, Suite 2350, Chicago, IL 60602 http://www.safehitlx.com/html/safehit/index.html					
	Yield To Pedestrian (YTP) Channelizing Device	RT 360 VP	PED-4	Vertical Panel	12" x 43"	Surface (unfastened) ----
THDTW 15	Three D Traffic Works, Inc., 430 North Varney Street, Burbank, CA 91502 http://www.trafficwks.com/					
	Yield To Pedestrian (YTP) Channelizing Device	TD5275	PED-9	Vertical Panel	12" x 36"	Surface (unfastened) ----



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Section MISC: Miscellaneous Traffic

MISC Yield to Pedestrian (YTP) Channelizing Devices

Last Revised: 2/19/2020

Product	Name	COA	Yield Type	Size (in.)	Yield Mount	Ref. No.
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i>					
	Yield To Pedestrian (YTP) Channelizing Device <i>NCHRP-350 Test Level: TL-2</i>	R1-6 Pedestrian Sign	PED-10	Vertical Panel	12" x 42"	Surface (unfastened) ----



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Section MISC: Winter Road Maintenance

MISC Snow and Ice Control Chemical Products

Last Revised: 3/26/2019

The exact product names listed have been accepted for listing in PA Bulletin 15 based upon the specific approval and listing on the Pacific Northwest SnowFighters (PNS) Qualified Product List. All specific compositional, usage approvals & restrictions, and other noted criteria listed on the PNS Qualified Product List will also apply to this product's use in Pennsylvania. If this product is removed from the PNS QPL, or fails to meet the minimum standards required for listing on the PNS QPL, it may be removed from the PA Bulletin 15. Refer to the manufacturer's website for product data sheet. Refer to the PNS website for approval information and resources including the PNS QPL: [Pacific Northwest Snowfighters](#)

PNS Experimental Category: Approved Liquid Corrosion Inhibited Products

PNS Inhibitor Category A3: Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl)

PNS Category 4C: Corrosion Inhibited Solid Sodium Chloride - Standard Gradation (Corrosion Percent Effectiveness 31% to 85%)

	Product	Name	COA	Ref. No.
CARGO 15 Facility	Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 Salt Mines: Avery Island, LA; Cleveland, OH; Lansing, NY	http://www.cargill.com/		
	PNS Category 4C - Corrosion Inhibited Solid Sodium Chloride - Standard Gradation (Corrosion Percent Effectiveness 31% to 85%) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Liquid pre-wetting facility located in Newark, CA.</i> Manufacturer's specifications for ClearLane enhanced deicer	ClearLane enhanced deicer		2018-107
ETECH 15	EnviroTech Services, Inc., 4676 284th Street East, Randolph, MN 55065-0000			
	PNS Inhibitor Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved for addition to concentrated sodium chloride (salt) brine.</i>	AMP		2016-075



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Section MISC: Winter Road Maintenance

MISC Snow and Ice Control Chemical Products

Last Revised: 3/26/2019

The exact product names listed have been accepted for listing in PA Bulletin 15 based upon the specific approval and listing on the Pacific Northwest SnowFighters (PNS) Qualified Product List. All specific compositional, usage approvals & restrictions, and other noted criteria listed on the PNS Qualified Product List will also apply to this product's use in Pennsylvania. If this product is removed from the PNS QPL, or fails to meet the minimum standards required for listing on the PNS QPL, it may be removed from the PA Bulletin 15. Refer to the manufacturer's website for product data sheet. Refer to the PNS website for approval information and resources including the PNS QPL: [Pacific Northwest Snowfighters](#)

PNS Experimental Category: Approved Liquid Corrosion Inhibited Products

PNS Inhibitor Category A3: Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl)

PNS Category 4C: Corrosion Inhibited Solid Sodium Chloride - Standard Gradation (Corrosion Percent Effectiveness 31% to 85%)

Product	Name	COA	Ref. No.
ISS-1 15	Innovative Municipal Products US Inc. (dba Innovative Surface Solutions), 454 River Road, Glenmont, NY 12077 http://www.innovativecompany.com		
PNS Category 1 - Corrosion Inhibited Liquid Magnesium Chloride <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Manufacturer's specifications for ProMelt Ultra 1000</i>	ProMelt Ultra 1000 INH		2018-109Q
PNS Experimental Category - Liquid Corrosion Inhibited Products <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved as a pre-wet material to solid salt. Not for direct application.</i>	Magic Minus Zero (MAGIC-0) Concentrate		2014-007
PNS Experimental Category - Liquid Corrosion Inhibited Products <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved as a pre-wet material to solid salt. Not for direct application. Manufacturer's specifications for ProMelt Ultra 2000</i>	ProMelt Ultra 2000 INH		2018-108Q
KTECH 15	K-Tech Specialty Coatings, Inc., P.O. Box 428, Ashley, IN 46705-0000		
PNS Experimental Category - Liquid Corrosion Inhibited Products <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved as a pre-wet material to solid salt. Not for direct applications as a liquid deicer.</i>	BEET HEET Concentrate		2013-117
NATOS 15	NATURES OWN SOURCE LLC, 7033 Mill Road, Becksville, OH 44141-0000		
PNS Experimental Category - Liquid Corrosion Inhibited Products <i>Conditionally approved per manufacturer's specifications for winter road maintenance.</i>	AquaSalina+		2014-043



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Winter Road Maintenance

MISC Snow and Ice Control Chemical Products

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PNS Experimental Category: Approved Liquid Corrosion Inhibited Products

PNS Inhibitor Category A3: Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl)

PNS Category 4C: Corrosion Inhibited Solid Sodium Chloride - Standard Gradation (Corrosion Percent Effectiveness 31% to 85%)

	Product	Name	COA	Ref. No.
SNIS1 15	SNI SOLUTIONS, 205 North Stewart Street, Geneseo, IL 61254-0000			
	PNS Inhibitor Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved for addition to concentrated sodium chloride (salt) brine.</i>	Biomelt AG		2016-024
	PNS Inhibitor Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved for addition to concentrated sodium chloride (salt) brine.</i>	Geomelt 55		2011-042



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 8/18/2020

In accordance with Section 1105, the listed companies have been preapproved to fabricate items for PennDOT. Company approval to fabricate Penn DOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

ABR: Certified Bridge Fabricator - Advanced (Major) | CPT: Certified Component Manufacturer - Bridge | FCE: Fracture Critical Endorsement

IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | [AISC Certification](#)

Product	Name	AISC Category	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Certified Structural Steel Fabricator	SBR	2018-282Q
ACROW 15	Acrow Corporation of America, 6 Canal Street, Milton, PA 17847 http://acrow.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	Major Steel Bridges (CBR)	2014-168
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ Certified Structural Steel Fabricator <i>Approved to perform heat-cambering and heat curving of rolled beams.</i>	SBR	2015-021Q
AMTHR 15	Amthor Steel, 1717 Gaskell Ave., Erie, PA 16503 Certified Structural Steel Fabricator	SBR	2013-121
ANDBR 15	Anderson Bridges, LLC, 111 Willow Street, Colfax, WI 54730 http://www.andersonbridges.com/ Certified Structural Steel Fabricator <i>Approved to fabricate pedestrian bridge only.</i>	Simple Steel Bridges (SBR)	2013-192
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Certified Structural Steel Fabricator	SBR	----
ATFAB 15	American Tank & Fabricating Co. (AT&F), 12314 Elmwood Avenue, Cleveland, OH 44111 http://www.atfco.com Certified Structural Steel Fabricator	SBR	2015-152Q
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Certified Structural Steel Fabricator	SBR	----



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	Product	Name	AISC Category	Ref. No.
BBI-1 15	Bridge Brothers Inc, 255 Pumpkintown Highway, Pickens, SC 29671 Certified Structural Steel Fabricator	https://bridgebrothers.com/	IBR	2020-064Q
BIGRB 15 Plant	Big R Bridge, P.O. Box 1290, Greeley, CO 80632 25581 Hillman Highway Abingdon, VA 24210 Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	http://www.bigrbridge.com/en/home/default.aspx	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
BRFAB 15	Brookfield Fabricating Corporation, P. O. Box 406, Brookfield, MO 64628 Certified Structural Steel Fabricator	http://www.brookfieldfabricating.com/	SBR	----
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 Certified Structural Steel Fabricator <i>Approved to fabricate modular bridge expansion dams.</i>	http://www.dsbrown.com/	Simple Steel Bridges (SBR)	----
CANAM 15	Canam Steel Corporation, 4010 Clay Street, P.O. Box 285, Point of Rocks, MD 21777 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	http://www.canam-construction.com/en/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2013-223
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 Certified Structural Steel Fabricator	http://www.capitalsteel.org/	SBR	2010-087



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Product	Name	AISC Category	Ref. No.
CBSSI 15	Casco Bay Steel Structures, Inc., One Wallace Avenue, South Portland, ME 04106 Certified Structural Steel Fabricator <i>Casco Bay Steel Structures, Inc. has Fracture Critical Endorsement (CBR/F) for the following three facilities: 1st Facility: One Wallace Avenue, South Portland, ME 04106 2nd Facility: 1156 Broadway, South Portland, ME 04106 3rd Facility: 75 Spring Hill Road, Saco, ME 04072</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2016-131Q
CIAFC 15	Cianbro Fabrication & Coating Corporation, 605 Pittman Road, Baltimore, MD 21226 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2010-214
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx Formerly Foster Precise Structural Products (FOSPR). Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2007-202
CON13 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Fort Payne, AL Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2017-113
CORNL 15	Cornell & Company, Inc., P. O. Box 807, Woodbury, NJ 08096 http://www.cornellcraneandsteel.com/ Certified Structural Steel Fabricator	IBR, FCE	----



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Product	Name	AISC Category	Ref. No.
DECKI 15	Cameron Bridge Works LLC, 1051 South Main Street, Elmira, NY 14904 http://www.cameronbridgeworks.com/ <i>Formerly Echo Bridge, Inc. / Decker Inc.</i> Certified Structural Steel Fabricator <i>Approved to fabricate pedestrian bridge only.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2009-052
DURAB 15	Dura-Bond Steel Corporation, 2658 Puckety Drive, Export, PA 15632 http://www.dura-bond.com/ Certified Structural Steel Fabricator <i>Approved to perform heat-cambering and heat curving of rolled beams.</i>	SBR	----
DURBD 15	Dura-Bond Pipe, LLC, 2716 South Front Street, Steelton, PA 17113 http://www.dura-bond.com/ Certified Structural Steel Fabricator	SBR	2014-178
EAGMC 15	Eagle Manufacturing Company, Inc., 13 Homonick Road, Colchester, CT 06415 http://eagle-mfg.com/Default.aspx Certified Structural Steel Fabricator	SBR	2014-120
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ Certified Structural Steel Fabricator	SBR	2009-027
FABCR 15	Fabcor, Inc., 1205 Mid Valley Drive, Jessup, PA 18434 http://www.fabcorinc.com/ Certified Structural Steel Fabricator	SBR	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Certified Structural Steel Fabricator	SBR	----
GOODS 15	Goodhart Sons, Inc., 2515 Horeshoe Road, P. O. Box 10308, Lancaster, PA 17605-0308 http://www.goodhartsons.com/ Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2004-118



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	Product	Name	AISC Category	Ref. No.
GRENR 15	Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/ Certified Structural Steel Fabricator		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2008-047
HABSI 15	Haberle Steel, Inc., 1946 East Cherry Lane, Souderton, PA 18964 http://haberlesteel.com/ Certified Structural Steel Fabricator		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2011-097
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Certified Structural Steel Fabricator		SBR	----
HALL2 15	Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/ Certified Structural Steel Fabricator <i>Not approved to perform welding.</i>		SBR	----
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/ Certified Structural Steel Fabricator		SBR	2017-029Q
HASSC 15	Harris Structural Steel Company, Inc., 1640 New Market Ave., South Plainfield, NJ 07080 http://www.harrissteelco.com/ Certified Structural Steel Fabricator		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ Formerly Brownsville Marine Products Certified Structural Steel Fabricator <i>(Original product evaluation - 2015-137Q)</i>		IBR, FCE	2018-220Q



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Product	Name	AISC Category	Ref. No.
HIGH1 15	High Steel Structures, Inc., 1915 Old Philadelphia Pike,, P.O. Box 10008, Lancaster, PA 17605-0008 http://www.highsteel.com/ Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIGH2 15	High Steel Structures, Inc., 3501 W 4th Street, Williamsport, PA 17701 http://www.highsteel.com/ Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIR01 15	W&W AFCO STEEL Hirschfeld Division, 9035 West Market Street, Colfax, NC 27235 http://hirschfeld.wwafcosteel.com/ Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIR02 15	W&W AFCO STEEL Hirschfeld Division, Nash County Plant,, 241 Corbett Road, Nashville, NC 27856 http://hirschfeld.wwafcosteel.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIR03 15	W&W AFCO STEEL Hirschfeld Division, Abingdon Plant, 15083 Industrial Park Road, Bristol, VA 24201 http://hirschfeld.wwafcosteel.com/ Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
INDS1 15	Industrial Steel Construction, Inc., 86 North Bridge Street, Gary, IN 46404 http://www.iscbridge.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----



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	Product	Name	AISC Category	Ref. No.
INDS2 15	Industrial Steel Construction, Inc., 6120 River Road, Hodgkins, IL 60525 http://www.iscbridge.com/ Certified Structural Steel Fabricator		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2008-094
JGM-1 15	JGM, 1201 Valley Road, Coatesville, PA 19320 Certified Structural Steel Fabricator		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2017-128
KARDW 15	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865 Certified Structural Steel Fabricator		Major Steel Bridges (CBR)	2010-227
KIN-1 15	Kinsley Manufacturing, 1100 East Princess Street, York, PA 17403 http://www.kinsleymanufacturing.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>		Major Steel Bridges (CBR)	----
KIN-2 15	Kinsley Manufacturing, 3900 E. Market Street, York, PA 17402 http://www.kinsleymanufacturing.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>		Major Steel Bridges (CBR)	----
L&MF2 15 Facility	L&M Fabrication and Machine, Inc., 6814 Chrisphalt Drive, Bath, PA 18014 http://www.lmfab.com/ 7230 Beth-Bath Pike Bath, PA 18014 Certified Structural Steel Fabricator		IBR, FCE	2017-347Q
L&MFM 15 Facility	L&M Fabrication & Machine, Inc., 6814 Chrisphalt Drive, P. O. Box 124, Bath, PA 18014 http://www.lmfab.com/ 6814 Chrisphalt Dr. Bath, PA 18014 Certified Structural Steel Fabricator		IBR, FCE	2006-001



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Product	Name	AISC Category	Ref. No.
LEHUA 15	Lehigh Utility Associates, Inc., 1300 New Market Ave., South Plainfield, NJ 07080 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	----
LEVAN 15	Levan Associates, Inc., 4870 Raymond Court, Emmaus, PA 18049 http://levanfab.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	SBR	2010-310
LITEL 15	Littell Steel Company, 100 Fallston Street, New Brighton, PA 15066 https://www.littellsteel.com/ Certified Structural Steel Fabricator	IBR, FCE	----
LMCIC 15	LMC Industrial Contractors, Inc., 9431 Foster Wheeler Road, Dansville, NY 14437 https://www.lmcic.com Certified Structural Steel Fabricator	IBR, FCE	2018-192Q
MACIND15	Maccabee Industrial, Inc., 113 Water Street, Belle Vernon, PA 15012 http://www.maccabeeindustrial.com/ Certified Structural Steel Fabricator	SBR	2015-180Q
MCIWK 15	MC Ironworks, Inc., P.O. Box 20431, Lehigh Valley, PA 18002-0431 http://www.mcironworks.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2006-023
MCMAN 15	J. A. McMahon, Inc., 649 Grant Street, Niles, OH 44446 http://www.jamcmahon.com/home.htm Certified Structural Steel Fabricator	SBR	----
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Certified Structural Steel Fabricator	SBR	2019-131Q



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Product	Name	AISC Category	Ref. No.
MICSE 15	Michelman Steel Enterprises, 3135 Schonersville Road, Bethlehem, PA 18017 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2012-239
MISUF 15	Missouri Fabricators, 3226 County Road 257, Fulton, MO 65251-3101 http://www.occimofab.com/ Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2000-191
OAKIW 15	Oakdale Iron Works, Inc., 1 Oakdale Industrial Park Dr., P.O. Box 240, Oakdale, PA 15071 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2002-082
OHSTR 15 Plant	Ohio Structures, Inc., 4030 Boardman Canfield Road, Suite 200 D, Canfield, OH 44406 https://www.ohiostructures.com/ 6120 Pricetown Road Berlin Center, OH 44401 Certified Structural Steel Fabricator	IBR, FCE	2018-043Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Certified Structural Steel Fabricator	IBR, FCE	2001-094
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ 2nd Facility: 20 Steel Rd., Morrisville, PA 19067 Certified Structural Steel Fabricator	SBR	2015-154Q
PIOBR 15	Pioneer Bridges, Division of Bailey Bridges, Inc., 119 40th. Street N.E., Fort Payne, AL 35967 http://pioneerbridges.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	IBR	2010-215
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ Certified Structural Steel Fabricator	IBR, FCE	2018-218Q



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Product	Name	AISC Category	Ref. No.
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ Certified Structural Steel Fabricator <i>Approved to perform heat cambering and heat curving of rolled beams.</i>	SBR	2012-248
RCCFI 15	RCC Fabricators, Inc., 2035 Route 206 South, Southampton, NJ 18434 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2015-078Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/ Certified Structural Steel Fabricator <i>Approved to Perform Heat-Cambering and Heat Curving of Rolled Beams. Not approved to perform submerged arc welding. (Initial Approval Ref. No. 2011-045Q)</i>	SBR	2015-130Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Certified Structural Steel Fabricator <i>Approved to perform heat cambering and heat curving of rolled beams.</i>	IBR	2015-031Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209 Certified Structural Steel Fabricator <i>Approved to perform heat cambering and heat curving of rolled beams.</i>	SBR	2013-074
SCOUG 15	Scougal Rubber Corporation, 885 Denmark Dr. Ste. 103b, McCarran, NV 89434 http://www.scougalrubber.com/ Certified Structural Steel Fabricator	SBR	2016-125



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IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | [AISC Certification](#)

	Product	Name	AISC Category	Ref. No.
SEISM 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ 518 Progress Way Athens, TX 75751 <i>(Formerly Seismic Energy Products, Inc.)</i> Certified Structural Steel Fabricator		SBR	2010-197
SELMC 15 Facility	Selco Manufacturing Corp., 3 Fairfield Crescent, West Caldwell, NJ 07006 3 Fairfield Crescent West Caldwell, NJ 07006 Certified Structural Steel Fabricator		SBR	2017-139
SEMMW 15	Seibel Modern Manufacturing & Welding Corporation, 38 Palmer Place, Lancaster, NY 14086 http://www.seibelmodern.com/ Certified Structural Steel Fabricator		SBR	2000-155
SHANE 15	Shane Felter Industries, P. O. Box 2022, Rt. 51, Uniontown, PA 15401 http://www.shanefelterindustries.com/ Certified Structural Steel Fabricator		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
SPECF 15	Specialty Fab, Inc., 11950 South Avenue, North Lima, OH 44452 http://www.specialtyfab.com/ Certified Structural Steel Fabricator		Simple Steel Bridges (SBR)	2005-003
STRBR 15	Canam Bridges US, Inc., a Canam Group Business, 386 River Road, Claremont, NH 03743 https://www.canambridges.com/ <i>Formerly Structural Bridges, Div. of Canam Steel Corporation</i> Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>		Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2014-202
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Certified Structural Steel Fabricator		SBR	2014-110



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 8/18/2020

In accordance with Section 1105, the listed companies have been preapproved to fabricate items for PennDOT. Company approval to fabricate Penn DOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

ABR: Certified Bridge Fabricator - Advanced (Major) | CPT: Certified Component Manufacturer - Bridge | FCE: Fracture Critical Endorsement

IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | [AISC Certification](#)

	Product	Name	AISC Category	Ref. No.
STSSI 15	STS Steel, Inc., 301 Nott Street, Building 304, Schenectady, NY 12305 Certified Structural Steel Fabricator	http://stssteel.com/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2010-161QB
STUPP 15	Stupp Bridge Company, 445 Century Street, Bowling Green, KY 42101 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	http://www.stuppbridge.com/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2000-050
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Certified Structural Steel Fabricator		SBR	2018-177Q
USBRG 15	U.S. Bridge, 201 Wheeling Avenue, P.O. Box 757, Cambridge, OH 43725 Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	http://www.usbridge.com/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 Valley, NE 68064 Certified Structural Steel Fabricator	http://www.valmont.com/	SBR	----
VALM2 15 Plant	Valmont Industries, Inc., 58027 Charlotte Ave., Elkhart, IN 46517 Elkhart, IN 46517 Certified Structural Steel Fabricator	http://www.valmont.com/	CPT	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 8/18/2020

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ABR: Certified Bridge Fabricator - Advanced (Major) | CPT: Certified Component Manufacturer - Bridge | FCE: Fracture Critical Endorsement

IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | [AISC Certification](#)

	Product	Name	AISC Category	Ref. No.
VETS1 15 Plant	Veritas Steel, 2800 Melby Street, Eau Claire, WI 54703 2800 Melby Street Eau Claire, WI 54703 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	http://www.veritassteel.com/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
VETS2 15 Plant	Veritas Steel, 3526 W. Sherman Street, Wausau, WI 54401 3526 W. Sherman Street Wausau, WI 54401 Certified Structural Steel Fabricator	http://www.veritassteel.com/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
WABST 15	Wabash Steel Company, LLC, 2007 Oliphant Drive, P.O. Box 117, Vincennes, IN 47591 Certified Structural Steel Fabricator	http://www.wabashsteel.biz/	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
WALPR 15	Walpar, Inc., 4200 Jefferson Ave., S.W., Birmingham, AL 35228 Certified Structural Steel Fabricator	http://walpar.com/	SBR	----
WATSB 15	Watson Bowman Acme Corporation, 95 Pineview Drive, Amherst, NY 14228 Certified Structural Steel Fabricator	https://wbacorp.com/	SBR	----
WHELU 15	Wheeler Lumber, LLC, 1151 Chaparral Ave., Shakopee, MN 55379 Certified Structural Steel Fabricator <i>Approved to fabricate pedestrian bridge only.</i>		Major Steel Bridges (CBR)	2006-217
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 Certified Structural Steel Fabricator	http://www.lcwhitford.com/	SBR	2017-121



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

Last Revised: 8/27/2020

The listed companies have been preapproved to paint items for PennDOT. Company approval to paint PennDOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

These plants have been pre-approved to paint items for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA. The Paint Shops listed below are approved by either the AISC Sophisticated Paint Endorsement (SPE), Category P1 (enclosed shop category) Program or the Society For Protective Coatings (SSPC) QP3 Certification Program enclosed shop category.

	Product	Name	Ref. No.
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 Certified Paint Shop	http://www.advsteel.com/	2014-132Q
BCIND 15 Plant	B-C Industries, 12 Hawksley Rd., Oxford, MA 01540 12 Hawksley Rd. Oxford, MA 01540 Certified Paint Shop		2009-172Q
BIGRB 15 Plant	Big R Bridge, P.O. Box 1290, Greeley, CO 80632 25581 Hillman Highway Abingdon, VA 24210 Certified Paint Shop	http://www.bigrbridge.com/en/home/default.aspx	----
BRIDS 15	Bridge Deck Solutions, LLC, 298 Cherry Hill Drive, Latrobe, PA 15650 Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings.</i>	http://bridgedecksolutions.com/	----
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 Certified Paint Shop	http://www.dsbrown.com/	----
CANAM 15	Canam Steel Corporation, 4010 Clay Street, P.O. Box 285, Point of Rocks, MD 21777 Certified Paint Shop	http://www.canam-construction.com/en/	2013-228



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

Last Revised: 8/27/2020

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	Product	Name	Ref. No.
CBSSI 15	Casco Bay Steel Structures, Inc., One Wallace Avenue, South Portland, ME 04106 Certified Paint Shop <i>Casco Bay Steel Structures, Inc. is approved for the following two paint shop facilities: 1st Facility: One Wallace Avenue, South Portland, ME 04106 2nd Facility: 1156 Broadway, South Portland, ME 04106</i>		2016-209Q
CI AFC 15	Cianbro Fabrication & Coating Corporation, 605 Pittman Road, Baltimore, MD 21226 Certified Paint Shop	http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx	2010-213
CI ANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 <i>Formerly Foster Precise Structural Products (FOSPR).</i> Certified Paint Shop	http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx	----
COLOR 15	Color Works Painting, Inc., 251 Edward Avenue, New Castle, DE 19720 Certified Paint Shop	http://www.colorworkspainting.com/	2007-176Q
CON13 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Fort Payne, AL Certified Paint Shop	http://www.conteches.com/	2001-154
CONSV 15	Con-Serv, Inc., 2963 Interstate Parkway, Brunswick, OH 44212 Certified Paint Shop	http://www.con-servinc.com/	----
CORN L 15	Cornell & Company, Inc., P. O. Box 807, Woodbury, NJ 08096 Certified Paint Shop	http://www.cornellcraneandsteel.com/	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
COSME 15	Cosmec Inc., 1501 Rocky Ridge Road, Athens, TX 75751 Certified Paint Shop	http://www.cosmecinc.com/	----
CPMP1 15	Carney's Point Metal Processing, Inc., 351 North Virginia Avenue, Carneys Point, NJ 08069 Certified Paint Shop		2016-102Q
DECKI 15	Cameron Bridge Works LLC, 1051 South Main Street, Elmira, NY 14904 <i>Formerly Echo Bridge, Inc. / Decker Inc.</i> Certified Paint Shop	http://www.cameronbridgeworks.com/	2016-094Q
DUNGV 15	Duncan Galvanizing, 69 Norman Street, Everatt, MA 02149 Certified Paint Shop	http://www.duncangalvanizing.com/	2017-243Q
DURAB 15	Dura-Bond Steel Corporation, 2658 Puckety Drive, Export, PA 15632 Certified Paint Shop	http://www.dura-bond.com/	----
DURBD 15	Dura-Bond Pipe, LLC, 2716 South Front Street, Steelton, PA 17113 Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings.</i>	http://www.dura-bond.com/	2014-179
EAGMC 15	Eagle Manufacturing Company, Inc., 13 Homonick Road, Colchester, CT 06415 Certified Paint Shop	http://eagle-mfg.com/Default.aspx	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
EPACI 15 Plant	EPacoat, Inc, 4500 Oakleys Lane, Richmond, VA 23231 4500 Oakleys Lane Richmond, VA 23231 Certified Paint Shop		2012-004Q
ESAFE 15 Plant	Envirosafe Stripping, Inc., 785 Arch Street, Carnegie, PA 15106 785 Arch Street Carnegie, PA 15106 Certified Paint Shop	https://envirosafeindustrial.com/	2009-130Q
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 Certified Paint Shop	http://futurefabricating.com/	2018-273Q
GATEW 15 Plant	Gateway Industrial Services, 805 Harrison Street, Allentown, PA 18103 805 Harrison Street Allentown, PA 18103 Certified Paint Shop	http://www.gatewayis.com/index1.htm	2013-139Q
GRENR 15	Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 Certified Paint Shop	http://greinerindustries.com/	----
HABSI 15	Haberle Steel, Inc., 1946 East Cherry Lane, Souderton, PA 18964 Certified Paint Shop	http://haberlesteel.com/	2011-096
HASSC 15	Harris Structural Steel Company, Inc., 1640 New Market Ave., South Plainfield, NJ 07080 Certified Paint Shop	http://www.harrissteelco.com/	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 <i>Formerly Brownsville Marine Products</i> Certified Paint Shop	https://www.hl-fabrication.com/	2018-220Q
HIGH1 15	High Steel Structures, Inc., 1915 Old Philadelphia Pike,, P.O. Box 10008, Lancaster, PA 17605-0008 Certified Paint Shop	http://www.highsteel.com/	----
HIGH2 15	High Steel Structures, Inc., 3501 W 4th Street, Williamsport, PA 17701 Certified Paint Shop	http://www.highsteel.com/	----
HIR01 15	W&W AFCO STEEL Hirschfeld Division, 9035 West Market Street, Colfax, NC 27235 Certified Paint Shop	http://hirschfeld.wwafcosteel.com/	----
HIR02 15	W&W AFCO STEEL Hirschfeld Division, Nash County Plant,, 241 Corbett Road, Nashville, NC 27856 Certified Paint Shop	http://hirschfeld.wwafcosteel.com/	----
HIR03 15	W&W AFCO STEEL Hirschfeld Division, Abingdon Plant, 15083 Industrial Park Road, Bristol, VA 24201 Certified Paint Shop	http://hirschfeld.wwafcosteel.com/	----
INDPS 15 Plant	Industrial Painting Specialists, 5858 152nd Street North, Hugo, MN 55038 5858 152nd Street North Hugo, MN 55038 Certified Paint Shop		2012-007Q
INDS1 15	Industrial Steel Construction, Inc., 86 North Bridge Street, Gary, IN 46404 Certified Paint Shop	http://www.iscbridge.com/	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
INDS2 15	Industrial Steel Construction, Inc., 6120 River Road, Hodgkins, IL 60525 Certified Paint Shop	http://www.iscbridge.com/	2008-094
KARDW 15	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865 Certified Paint Shop		2010-228Q
KIN-1 15	Kinsley Manufacturing, 1100 East Princess Street, York, PA 17403 Certified Paint Shop	http://www.kinsleymanufacturing.com/	----
KIN-2 15	Kinsley Manufacturing, 3900 E. Market Street, York, PA 17402 Certified Paint Shop	http://www.kinsleymanufacturing.com/	----
L&MF2 15 Facility	L&M Fabrication and Machine, Inc., 6814 Chrisphalt Drive, Bath, PA 18014 7230 Beth-Bath Pike Bath, PA 18014 Certified Paint Shop	http://www.lmfab.com/	2017-347Q
LITEL 15	Littell Steel Company, 100 Fallston Street, New Brighton, PA 15066 Certified Paint Shop	https://www.littellsteel.com/	----
MCIWK 15	MC Ironworks, Inc., P.O. Box 20431, Lehigh Valley, PA 18002-0431 Certified Paint Shop	http://www.mcironworks.com/	2006-022
MISUF 15	Missouri Fabricators, 3226 County Road 257, Fulton, MO 65251-3101 Certified Paint Shop	http://www.occimofab.com/	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
NIAGC 15	Niagara Coatings Services, Inc., 8025 Quarry Road, Niagara Falls, NY 14304 Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings.</i>	http://niagaracoatings.com/	----
OESTE 15 Plant	Oesterling's Sandblasting & Painting, 686 Glenwood Way, Butler, PA 16001 686 Glenwood Way Butler, PA 16001 Certified Paint Shop	http://www.oesterlingssandblasting.com/	-
OHSTR 15 Plant	Ohio Structures, Inc., 4030 Boardman Canfield Road, Suite 200 D, Canfield, OH 44406 6120 Pricetown Road Berlin Center, OH 44401 Certified Paint Shop <i>Approved for Shop Application Metalizing.</i>	https://www.ohiostructures.com/	2001-168Q
PDMB1 15	Veritas Steel, 2800 Melby Street, Eau Claire, WI 54703 Certified Paint Shop	http://www.veritassteel.com/	----
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Certified Paint Shop	http://peletwelding.com/	2012-029Q
PIOBR 15	Pioneer Bridges, Division of Bailey Bridges, Inc., 119 40th. Street N.E., Fort Payne, AL 35967 Certified Paint Shop	http://pioneerbridges.com/	2010-215
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 Certified Paint Shop	https://www.pmwi.net/	2018-218Q



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
POWSC 15	Powell Steel Corporation, 625 Baumgardner Road, Lancaster, PA 17603 Certified Paint Shop		----
REGIC 15	Regal Industrial Corporation, 1st Street, Donora, PA 15033 http://regalindustrial.com/ Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings. Approved for shop application of metalizing.</i>		----
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Certified Paint Shop		----
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209 Certified Paint Shop		----
SCOUG 15	Scougal Rubber Corporation, 885 Denmark Dr. Ste. 103b, McCarran, NV 89434 http://www.scougalrubber.com/ Certified Paint Shop		2016-104
SECON 15 Plant	Secondary Service, 757 East Ferry, Buffalo, NY 14211 757 East Ferry Buffalo, NY 14211 Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings. Approved for shop application of metalizing.</i>		-



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
SEISM 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 518 Progress Way Athens, TX 75751 <i>(Formerly Seismic Energy Products, Inc.)</i> Certified Paint Shop	http://www.dsbrown.com/	2010-199
SHANE 15	Shane Felter Industries, P. O. Box 2022, Rt. 51, Uniontown, PA 15401 Certified Paint Shop	http://www.shanefelterindustries.com/	----
SRTSS 15	SRT Sales and Services, LLC, 4936 Southway Street SW, Canton, OH 44706 Certified Paint Shop	http://www.srtsands.com/	----
STRBR 15	Canam Bridges US, Inc., a Canam Group Business, 386 River Road, Claremont, NH 03743 <i>Formerly Structural Bridges, Div. of Canam Steel Corporation</i> Certified Paint Shop	https://www.canambridges.com/	2014-015
STSSI 15	STS Steel, Inc., 301 Nott Street, Building 304, Schenectady, NY 12305 Certified Paint Shop	http://stssteel.com/	2010-161QB
STUPP 15	Stupp Bridge Company, 445 Century Street, Bowling Green, KY 42101 Certified Paint Shop	http://www.stuppbridge.com/	----
TSFAB 15 Plant	Tuckerman Steel Fabricators, Inc., 256 Marginal St., East Boston, MA 02128 256 Marginal St. East Boston, MA 02128 Certified Paint Shop		-



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

Last Revised: 8/27/2020

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	Product	Name	Ref. No.
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 Certified Paint Shop	http://www.uisutah.com/uis2011/	2011-063QB
USBRG 15	U.S. Bridge, 201 Wheeling Avenue, P.O. Box 757, Cambridge, OH 43725 Certified Paint Shop	http://www.usbridge.com/	----
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 Valley, NE 68064 Certified Paint Shop	http://www.valmont.com/	----
VETS1 15 Plant	Veritas Steel, 2800 Melby Street, Eau Claire, WI 54703 2800 Melby Street Eau Claire, WI 54703 Certified Paint Shop	http://www.veritassteel.com/	----
VETS2 15 Plant	Veritas Steel, 3526 W. Sherman Street, Wausau, WI 54401 3526 W. Sherman Street Wausau, WI 54401 Certified Paint Shop	http://www.veritassteel.com/	----
WABST 15	Wabash Steel Company, LLC, 2007 Oliphant Drive, P.O. Box 117, Vincennes, IN 47591 Certified Paint Shop	http://www.wabashsteel.biz/	2008-079Q
WALPR 15	Walpar, Inc., 4200 Jefferson Ave., S.W., Birmingham, AL 35228 Certified Paint Shop	http://walpar.com/	----



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

Last Revised: 9/14/2020

In accordance with Section 1105, listed shops are eligible to manufacture and furnish indicated machining operations on products for the Department. All products must conform to PennDOT Specifications in Publication 408 and approved shop drawings.

	Product	Name	Ref. No.
AASCO 15	A588 & A572 Steel Company, 785 Arch Street, Carnegie, PA 15106 Cutting Operation	http://www.a588a572steel.com/	2010-192Q
ACCPR 15	AccuTrex Products, Inc., 112 Southpointe Blvd., Canonsburg, PA 15317 Bending Operation Cutting Operation Drilling or Punching Operation Grinding Operation Laser Cutting Operation	http://www.accutrex.com/	2012-241Q 2003-178Q 2003-178Q 2012-241Q 2012-241Q
	<i>Project by project approval by Chief Structural Materials Engineer. The Water Jet Cutting Operation approval is listed under the Washington, PA facility with a Supplier Code of ACCPS 15.</i>		
ACCPS 15 Facility	AccuTrex Products, Inc., 112 Southpointe Blvd., Canonsburg, PA 15317 75 Museum Road Washington, PA 15301 Water Jet Cutting Operation	http://www.accutrex.com/	2012-240Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>		
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 Bending Operation Cutting Operation Drilling or Punching Operation Grinding Operation	http://www.ackbay.com/	2018-282Q 2018-282Q 2018-282Q 2018-282Q
ACMGS 15	Acme Grinding Services, Inc., 126 East Niagara St., Tonawanda, NY 14150 Cutting Operation Drilling or Punching Operation Grinding Operation		2015-198Q 2015-198Q 2001-049Q



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

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Product	Name	Ref. No.
ACMMW 15	Acme Machine & Welding Company, 46 Anchor Inn Road, P.O. Box 1099, Punxsutawney, PA 15767 http://www.acmemw.com/	
Cutting Operation		2009-168Q
Drilling or Punching Operation		2009-168Q
Grinding Operation		2009-168Q
ACRMI 15	ACR Machine, Inc., 21 N. 10th Ave., Coatesville, PA 19320-3382 http://www.acrmachine.com/	
Cutting Operation		----
Drilling or Punching Operation		----
ADGFAB15	ADG Fabrication, 540 Sampson Street, New Castle, PA 16101	
Bending Operation		2019-091Q
Cutting Operation		2019-091Q
Drilling or Punching Operation		2019-091Q
Grinding Operation		2019-091Q
Laser Cutting Operation		2019-091Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/	
Bending Operation		2015-024Q
Cutting Operation		2015-024Q
Drilling or Punching Operation		2015-024Q
Grinding Operation		2015-024Q
ALTPS 15	Pechter, Inc. DBA Altoona Pipe and Steel, 1128 Ninth Ave., P.O. Box 112, Altoona, PA 16603 http://www.altoonapipeandsteel.com/	
Bending Operation		2012-051Q
Cutting Operation		2012-051Q
Drilling or Punching Operation		2012-051Q
Grinding Operation		2012-051Q



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	Product	Name	Ref. No.
AMCTC 15	A.M. Castle & Company, 26800 Miles Road, Bedford Heights, OH 44146 http://www.amcastle.com/		
	Bending Operation		2002-089Q
	Cutting Operation		2002-089Q
	Drilling or Punching Operation		2002-089Q
	Grinding Operation		2002-089Q
AMEPB 15	American Pipe Bending, Inc., Dawson Road, Tulsa, OK 74110 http://americanpipebending.co/		
	Cutting Operation		2011-157Q
	Induction Bending Operation		2011-157Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/		
	Bending Operation		2014-195QM
	Cutting Operation		2014-195QM
	Drilling or Punching Operation		2014-195QM
	Grinding Operation		2014-195QM
ASC-1 15	Alro Steel Corporation, 1800 W. Willow Road, Lansing, MI 48915 http://www.alro.com/		
	Bending Operation		2007-123Q
	Cutting Operation		2007-123Q
	Drilling or Punching Operation		2007-123Q
	Grinding Operation		2007-123Q
ASC-2 15	Alro Steel Corporation, 50 Ensminger Road, Tonawanda, NY 14150-6718 http://www.alro.com/		
	Cutting Operation		2007-197Q
	Grinding Operation		2007-197Q



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	Product	Name	Ref. No.
ASC-3 15	Alro Steel Corporation, 4787 State Road, Cuyahoga Falls, OH 44223-3555 http://www.alro.com/		
	Cutting Operation		2007-199Q
	Drilling or Punching Operation		2007-199Q
	Grinding Operation		2007-199Q
ASC-4 15	Alro Steel Corporation, 3003 Airport Highway, Toledo, OH 43609 http://www.alro.com/		
	Bending Operation		2007-124Q
	Cutting Operation		2007-124Q
	Drilling or Punching Operation		2007-124Q
	Grinding Operation		2007-124Q
ASC-5 15	Alro Steel Corporation, 140 Solar Drive, Imperial, PA 15126 http://www.alro.com/		
	Cutting Operation		2007-198Q
ASC-6 15	Alro Steel Corporation, 5859 Alro Park Dr, Pottersville, MI 48876-8795 http://www.alro.com/		
	Cutting Operation		2011-115Q
	Laser Cutting Operation		2015-076Q
ASC-7 15	Alro Steel Corporation, 130 Keeney Lane, York, PA 17406 http://www.alro.com/		
	Cutting Operation		2013-196Q
ASC-8 15	Alro Steel Corporation, 18881 Sherwood Avenue, Detroit, MI 48234 http://www.alro.com/		
	Water Jet Cutting Operation		2013-240Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>		



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Product	Name	Ref. No.
ATFAB 15	American Tank & Fabricating Co. (AT&F), 12314 Elmwood Avenue, Cleveland, OH 44111 http://www.atfco.com	
Bending Operation		2015-152Q
Cutting Operation		2015-152Q
Drilling or Punching Operation		2015-152Q
Grinding Operation		2015-152Q
Laser Cutting Operation		2015-152Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Press Brake (Tubular)		2015-152Q
Water Jet Cutting Operation		2015-152Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
ATLMW 15	Atlas Machining & Welding, Inc, 777 Smith Lane, Northampton, PA 18067 http://www.atlasmw.com/	
Bending Operation		2010-292Q
Cutting Operation		2010-292Q
Drilling or Punching Operation		2010-292Q
Grinding Operation		2010-292Q
ATLRC 15	Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/	
Cutting Operation		2015-002Q
AXSAC 15	A & X Steel and Aluminum Company, 2825 Annapolis Road, Baltimore, MD 21230	
Bending Operation		2013-155Q
BACWM 15	Bachle Welding & Machine, Inc., 1685 Turkey Bottom Road, Muncy, PA 17756 http://www.bachlewelding.com/	
Cutting Operation		2007-145Q
Drilling or Punching Operation		2007-145Q



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Product	Name	Ref. No.
BARMM 15	Bartley Machine & Manufacturing Company, Inc., 35 Water Street, Amesbury, MA 01913 http://www.bartleymachine.com/	
Bending Operation		2014-172Q
Cutting Operation		2014-172Q
Drilling or Punching Operation		2014-172Q
Grinding Operation		2014-172Q
Press Brake (Tubular)		2014-172Q
Water Jet Cutting Operation		2014-172Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
BEAES 15	Bearing Engineered Solutions, 430 Morgan Ave., Akron, OH 44311 http://bearingengineeredolutions.com/	
Drilling or Punching Operation		2011-131Q
BENNE 15	Bennett Bolt Works, Inc., 12 Elbridge Street, P. O. Box 922, Jordan, NY 13080 http://www.bennettboltworks.com/	
Bending Operation		2015-144Q
Cutting Operation		2015-144Q
Drilling or Punching Operation		2015-144Q
Grinding Operation		2015-144Q
Laser Cutting Operation		2015-144Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
BENS1 15	Benjamin Steel Company, Inc., 777 Benjamin Dr., Springfield, OH 45502 http://www.benjaminsteel.com/	
Cutting Operation		2010-189Q
Drilling or Punching Operation		2010-189Q
BENS2 15	Benjamin Steel Company, Inc., 15 Mansfield Ind. Pkwy., Mansfield, OH 44903 http://www.benjaminsteel.com/	
Cutting Operation		2010-279Q



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	Product	Name	Ref. No.
BENS3 15	Benjamin Steel Company, Inc., 1825 Kuntz Road, Dayton, OH 45404 http://www.benjaminsteel.com/		
	Bending Operation		2010-298Q
	Cutting Operation		2010-298Q
	Grinding Operation		2010-298Q
BENS4 15	Benjamin Steel Company, Inc., 3111 St. Johns Road, Lima, OH 45804 http://www.benjaminsteel.com/		
	Bending Operation		2010-280Q
	Cutting Operation		2010-280Q
	Drilling or Punching Operation		2010-280Q
	Grinding Operation		2010-280Q
BENTC 15	BendTec, Inc., 366 Garfield Avenue, Duluth, MN 55802 http://www.bendtec.com/		
	Bending Operation		2013-087QA
	Cutting Operation		2013-087QA
	Drilling or Punching Operation		2013-087QA
	Grinding Operation		2013-087QA
	Induction Bending Operation		2013-087QA
BERMF 15	Bear Ridge Machine & Fabrication, Inc., 10 Eleanor Avenue, Frackville, PA 17931 http://brmf.net/		
	Bending Operation		2002-113Q
	Cutting Operation		2002-113Q
	Drilling or Punching Operation		2002-113Q
	Grinding Operation		2002-113Q
	Stud Welding of Embed Plates Only		2015-181Q
	Water Jet Cutting Operation		2015-177Q

Project by project approval by Chief Structural Materials Engineer.



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	Product	Name	Ref. No.
BLALP 15	Black Lion Products, LLC, 3710 Henricks Road, Youngstown, OH 44515		
	Bending Operation		2014-213Q
	Cutting Operation		2014-213Q
	Drilling or Punching Operation		2014-213Q
	Grinding Operation		2014-213Q
BREWF 15	S. R. Bressler Welding & Fabrication, 558 Lake Drive, Curwensville, PA 16833 http://www.srbressler.com/		
	Bending Operation		2013-119Q
	Cutting Operation		2013-119Q
	Drilling or Punching Operation		2013-119Q
	Grinding Operation		2013-119Q
BRIDS 15	Bridge Deck Solutions, LLC, 298 Cherry Hill Drive, Latrobe, PA 15650 http://bridgedecksolutions.com/		
	Bending Operation		2011-190Q
	Cutting Operation		2011-190Q
	Drilling or Punching Operation		2011-190Q
	Grinding Operation		2011-190Q
CBSSI 15	Casco Bay Steel Structures, Inc., One Wallace Avenue, South Portland, ME 04106		
	Bending Operation		2016-210
	Cutting Operation		2016-210
	Drilling or Punching Operation		2016-210
	Grinding Operation		2016-210
<p><i>The following Casco Bay Steel Structures, Inc. facilities are approved for bending, cutting, drilling/punching, and grinding operations:</i></p> <p><i>1st Facility: One Wallace Avenue, South Portland, ME 04106</i></p> <p><i>2nd Facility: 1156 Broadway, South Portland, ME 04106</i></p> <p><i>3rd Facility: 75 Spring Hill Road, Saco, ME 04072</i></p>			



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Product	Name	Ref. No.
CEDLLC15	Cutting Edge Design, LLC, 46861 McDonald Street, East Liverpool, OH 43920 http://cuttingedgedesignllc.com/	
	Cutting Operation	2019-176Q
	Drilling or Punching Operation	2019-176Q
	Grinding Operation	2019-176Q
CHASC 15	Chapel Steel Company, 191 South Keim Street, Pottstown, PA 19464 http://chapelsteel.com/	
	Cutting Operation	2001-196Q
	Drilling or Punching Operation	2001-196Q
CONS0 15	Consolidated Steel Services, Inc., 632 Glendale Valley Blvd., Fallentimber, PA 16639 http://csteel.com/	
	Cutting Operation	2003-093Q
	Drilling or Punching Operation	2003-093Q
CONSV 15	Con-Serv, Inc., 2963 Interstate Parkway, Brunswick, OH 44212 http://www.con-servinc.com/	
	Bending Operation	2006-060Q
	Cutting Operation	2006-060Q
	Drilling or Punching Operation	2006-060Q
	Grinding Operation	2006-060Q
CUMPS 15	Pechter Inc. DBA Cumberland Pipe & Steel Supply, 11901 Upper Potomac Ind. Park, P.O. Box 1320, Cumberland, MD 21501	
	Bending Operation	2012-052Q
	Cutting Operation	2012-052Q
	Drilling or Punching Operation	2012-052Q
	Grinding Operation	2012-052Q



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Product	Name	Ref. No.
CUSMC 15	Custom Manufacturing Company, 5501 S. Lamar Street, Dallas, TX 75215 http://custommfgco.com/	
Bending Operation		2010-328Q
Cutting Operation		2010-328Q
Drilling or Punching Operation		2010-328Q
Grinding Operation		2010-328Q
DAVMC 15	Davis Machine Company, 180 Front Street, Leetonia, OH 44431 http://www.davismachineco.com/	
Bending Operation		2001-118Q
Cutting Operation		2001-118Q
Drilling or Punching Operation		2001-118Q
Grinding Operation		2001-118Q
DELT1 15	Delta Steel, Inc., 1585 Edgefield Way, Cedar Hill, TX 75104 https://www.deltasteel.com/	
Facility	1585 Edgefield Way Cedar Hill, TX 75104	
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
DIVMA 15	Diversified Manufacturing, Inc, 410 Ohio St., Lockport, NY 14094 http://www.dmimfg.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----



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Product	Name	Ref. No.
DMSMF 15	DMS Machining and Fabrication, P.O. Box 477, 10 Transport Drive, Barre, VT 05641 http://www.dmsmachine.com/	
Bending Operation		2015-047Q
Cutting Operation		2015-047Q
Drilling or Punching Operation		2015-047Q
Grinding Operation		2015-047Q
DOLAN 15	Dolan's Welding & Steel Fabricating, 118 Venture Street, Johnstown, PA 15909-4224	
Bending Operation		2017-167Q
Cutting Operation		2017-167Q
Drilling or Punching Operation		2017-167Q
Grinding Operation		2017-167Q
Laser Cutting Operation		2017-167Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
DSPSS 15	DS Pipe & Steel Supply LLC, P.O. Box 6367, 1301 Wicomico Street, Baltimore, MD 21230 http://www.dspipeandsteel.com	
Facility	P.O. Box 6367 1301 Wicomico Street Baltimore, MD 21230	
Cutting Operation		2016-067Q
Drilling or Punching Operation		2016-067Q
Grinding Operation		2016-067Q
Laser Cutting Operation		2016-067Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
DVS-1 15	Delaware Valley Steel, 2249 Manor Ave, Upper Darby, PA 19082 http://www.delawarevalleysteel.com/	
Cutting Operation		2017-355Q
Drilling or Punching Operation		2017-355Q



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	Product	Name	Ref. No.
DYNFC 15	Dyna-Fab Corporation, 3893 South S.R. 263, West Lebanon, IN 47991 http://dyna-fab.org/		
	Bending Operation		2008-105Q
	Cutting Operation		2008-105Q
	Drilling or Punching Operation		2008-105Q
	Grinding Operation		2008-105Q
DYSNC 15	Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 http://www.dysoncorp.com/index.html		
	Bending Operation		----
	Cutting Operation		----
	Drilling or Punching Operation		----
	Grinding Operation		----
EASCT 15	East Coast Threading Company, 1520 Manatawny Road, P.O. Box 347, Pine Forge, PA 19548 http://eastcoastthreading.com/		
	Cutting Operation		2016-271Q
	Drilling or Punching Operation		2016-271Q
	Grinding Operation		2016-271Q
EASSM 15	Eastern Shaft & Manufacturing, 160 Court St., Lancaster, NY 14086		
	Bending Operation		2000-330Q
	Cutting Operation		2000-330Q
	Drilling or Punching Operation		2000-330Q
	Grinding Operation		2000-330Q
EXC-0 15	Excalibur Machine, LLC, 9723 Hwy 322, P.O. Box 605, Conneaut Lake, PA 16316 http://www.excaliburmachine.com/		
	Bending Operation		2013-122Q
	Cutting Operation		2013-122Q
	Drilling or Punching Operation		2013-122Q
	Grinding Operation		2013-122Q



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	Product	Name	Ref. No.
EXC-1 15 Plant	Excalibur Machine, LLC, 9723 Hwy 322, P.O. Box 605, Conneaut Lake, PA 16316 9723 Hwy 322 P.O. Box 605 Conneaut Lake, PA 16316	http://www.excaliburmachine.com/	
	Bending Operation		2013-170Q
	Cutting Operation		2013-170Q
	Drilling or Punching Operation		2013-170Q
	Grinding Operation		2013-170Q
EXC-2 15 Plant	Excalibur Machine, LLC, 9723 Hwy 322, P.O. Box 605, Conneaut Lake, PA 16316 9723 Hwy 322 P.O. Box 605 Conneaut Lake, PA 16316	http://www.excaliburmachine.com/	
	Bending Operation		2013-171Q
	Cutting Operation		2013-171Q
	Drilling or Punching Operation		2013-171Q
	Grinding Operation		2013-171Q
EXTMF 15 Plant	Extreme Machine & Fabricating, Inc., 2340 Quality Lane, West Middlesex, PA 16159 Hermitage, PA 16148	http://extrememachine.net/	
	Bending Operation		2000-265Q
	Cutting Operation		2000-265Q
	Drilling or Punching Operation		2000-265Q
	Grinding Operation		2000-265Q
FASCM 15	Fastenal Company Manufacturing Division, 1801 Theurer Blvd., Winona, MN 55987	https://www.fastenal.com/home.ex	
	Bending Operation		2000-342Q
	Cutting Operation		2000-342Q
	Drilling or Punching Operation		2000-342Q
	Grinding Operation		2000-342Q



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	Product	Name	Ref. No.
FEMCO 15 Facility	FEMCO - Corporate Headquarters, 1000 Gamma Drive, Suite 600, Pittsburgh, PA 15238 http://femcomachine.com/		
	FEMCO - Pennsylvania 754 South Main Street Ext. Punxsutawney, PA 15767		
	Bending Operation		2019-141Q
	Cutting Operation		2019-141Q
	Drilling or Punching Operation		2019-141Q
	Grinding Operation		2019-141Q
FILCD 15	Dennis Filges Company, Inc., 238 Center Drive, Chicora, PA 16025 http://www.filgesco.com/		
	Bending Operation		2012-060Q
	Cutting Operation		2012-060Q
	Drilling or Punching Operation		2012-060Q
FLEMI 15	Fletcher Machine, Inc., 19537 U.S. Route 6, Weston, OH 43569 http://www.fletchermachine.com/		
	Bending Operation		2000-267Q
	Cutting Operation		2000-267Q
	Drilling or Punching Operation		2000-267Q
	Grinding Operation		2000-267Q
FLORJ 15	R/J Florig Industrial Company, Inc., 910 Brook Road, Conshohocken, PA 19428 http://www.rjflorig.com/		
	Bending Operation		----
	Cutting Operation		----
	Drilling or Punching Operation		----
FROST 15	Frontier Steel Company, 4990 Grand Avenue, Newville Island, PA 15225 http://www.frontiersteel.com/		
	Bending Operation		2009-183Q
	Cutting Operation		2006-085Q
	Drilling or Punching Operation		2009-183Q



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	Product	Name	Ref. No.
GILCR 15	Gilcher Machine LLC, 65671 Rabbit Road, Cambridge, OH 43725		
	Cutting Operation		2013-208Q
	Drilling or Punching Operation		2013-208Q
	Grinding Operation		2013-208Q
GLOFA 15	Gortech Global Fabrication, 215 Beaver Drive, Dubois, PA 15801		
	Bending Operation		2009-015Q
	Cutting Operation		2009-015Q
	Drilling or Punching Operation		2009-015Q
	Grinding Operation		2009-015Q
GRENR 15	Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/		
	Bending Operation		2009-060Q
	Cutting Operation		2009-060Q
	Drilling or Punching Operation		2009-060Q
	Grinding Operation		2009-060Q
	Induction Bending Operation		2017-278Q
HABSI 15	Haberle Steel, Inc., 1946 East Cherry Lane, Souderton, PA 18964 http://haberlesteel.com/		
	Bending Operation		2010-211Q
	Cutting Operation		2010-211Q
	Drilling or Punching Operation		2010-211Q
	Grinding Operation		2010-211Q



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Product	Name	Ref. No.
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
HALL2 15	Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/	
Bending Operation		2002-011Q
Cutting Operation		2002-011Q
Drilling or Punching Operation		2002-011Q
Grinding Operation		2002-011Q
HALL3 15	Hall Industries, Inc., HGH Facility, 606 2nd Street, Ellwood City, PA 16117 http://hallindustries.com/	
Bending Operation		2017-029Q
Cutting Operation		2017-029Q
Drilling or Punching Operation		2017-029Q
Grinding Operation		2017-029Q
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/	
Bending Operation		2011-262Q
Cutting Operation		2011-262Q
Drilling or Punching Operation		2011-262Q
Grinding Operation		2011-262Q



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Product	Name	Ref. No.
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ Formerly Brownsville Marine Products	
Bending Operation		2013-095Q
Cutting Operation		2013-095Q
Drilling or Punching Operation		2013-095Q
Grinding Operation		2013-095Q
Press Brake (Tubular)		2013-095Q
HERSA 15	Herr and Sacco, Incorporated, 1831 Auction Road, Manheim, PA 17545 http://www.herrandsacco.com/index.html	
Bending Operation		2014-192Q
Cutting Operation		2014-192Q
Drilling or Punching Operation		2014-192Q
Grinding Operation		2014-192Q
Laser Cutting Operation		2014-192Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Water Jet Cutting Operation		2014-192Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
HIGH1 15	High Steel Structures, Inc., 1915 Old Philadelphia Pike,, P.O. Box 10008, Lancaster, PA 17605-0008 http://www.highsteel.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----



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	Product	Name	Ref. No.
HMSI1 15	HMS Industries, Inc., 1256 Route 22 Highway West, Blairsville, PA 15717 http://hmsindustries.com/		
	Bending Operation		2018-141Q
	Cutting Operation		2018-141Q
	Drilling or Punching Operation		2018-141Q
	Grinding Operation		2018-141Q
HREVA 15	HR Evans Steel Company, 193 N. James Street, East Palestine, OH 44413 http://www.hrevans.com/		
	Cutting Operation		2014-003Q
	Drilling or Punching Operation		2014-003Q
	Grinding Operation		2014-003Q
HWN-1 15	H. W. Nicholson Welding and Manufacturing Inc., 3899 Route 66, Apollo, PA 15613		
	Bending Operation		2016-270Q
	Cutting Operation		2016-270Q
	Drilling or Punching Operation		2016-270Q
	Grinding Operation		2016-270Q
IMHPI 15	IMH Products, Inc, 1121 East 46th Street, Indianapolis, IN 46205 http://www.imh.com/		
	Bending Operation		2013-113Q
	Cutting Operation		2013-113Q
	Drilling or Punching Operation		2013-113Q
	Grinding Operation		2013-113Q
INDGS 15	Industrial Gasket & Shim Company, Inc., 200 Country Club Rd., P.O. Box 368, Meadow Lands, PA 15347 http://www.igsind.com/		
	Bending Operation		2011-148Q
	Drilling or Punching Operation		2011-148Q



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	Product	Name	Ref. No.
INFR2 15	Infra-Metals Company, 1 Sturgills Way, New Boston, OH 45662		
	Cutting Operation		2016-150Q
	Drilling or Punching Operation		2016-150Q
INFRA 15	Infra-Metals Company, 1900 Bessemer Road, Petersburg, VA 23805 http://www.infra-metals.com/		
	Bending Operation		2012-190Q
	Cutting Operation		2012-190Q
	Drilling or Punching Operation		2012-190Q
	Grinding Operation		2012-190Q
	Press Brake (Tubular)		2012-190Q
INTSF 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411 https://interstatesafetyservice.com/		
	Bending Operation		2015-006Q
	Cutting Operation		2015-006Q
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
	Bending Operation		2015-006Q
	Cutting Operation		2015-006Q
J&RS2 15	J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	Cutting Operation		----
	Drilling or Punching Operation		----
JERMA 15	Jerl Machine, Inc., 11140 Avenue Road, Perrysburg, OH 43551 http://jerl.com/		
	Bending Operation		2000-266Q
	Cutting Operation		2000-266Q
	Drilling or Punching Operation		2000-266Q
	Grinding Operation		2000-266Q



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	Product	Name	Ref. No.
JHBTS 15	J. H. Botts, Inc., 253 East Bruce St., Joliet, IL 60432 http://www.jhbotts.com/products.htm		
	Bending Operation		2010-109Q
	Cutting Operation		2010-109Q
	Drilling or Punching Operation		2010-109Q
	Grinding Operation		2010-109Q
KARDW 15	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865		
	Bending Operation		2010-228Q
	Cutting Operation		2010-228Q
	Drilling or Punching Operation		2010-228Q
	Grinding Operation		2010-228Q
KDM-1 15	K.D.M. Die Company, Inc., 620 Elk Street, Buffalo, NY 14210-2237 http://www.kdmdie.com/		
	Cutting Operation		2019-020Q
	Drilling or Punching Operation		2019-020Q
	Grinding Operation		2019-020Q
KELBR 15	Kellner Brothers, Inc., 222 Chicago St., Buffalo, NY 14204-2249 http://kellnerbrosinc.com/		
	Cutting Operation		2003-115Q
	Drilling or Punching Operation		2003-115Q
KERMA 15	Kercher Machine Works, 920 Mechanic St., Lebanon, PA 17042 http://www.kercherindustries.com/		
	Bending Operation		----
	Cutting Operation		----
	Drilling or Punching Operation		----
	Grinding Operation		----



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Product	Name	Ref. No.
KEYSN 15	Keystone North, Inc., 310 South Main Street, Mansfield, PA 16933 http://keystonewelding.com/	
Bending Operation		2015-190Q
Cutting Operation		2015-190Q
Drilling or Punching Operation		2015-190Q
Grinding Operation		2015-190Q
KLENY 15	Klein Steel of Western New York, 1050 Military Road, Buffalo, NY 14217	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
KLESS 15	Klein Steel Service, Inc., 105 Vanguard Parkway, Rochester, NY 14606 http://www.kleinsteel.com/	
Cutting Operation		----
Drilling or Punching Operation		----
KLOMC 15	Kloeckner Metals Corporation, 2005 Grassland Parkway, Alpharetta, GA 30004 http://www.kloecknermetals.com/Home.aspx	
Cutting Operation		2001-126Q
Drilling or Punching Operation		2001-126Q
KLOMT 15	Kloeckner Metals - Temtco Steel Division, 500 Manchester Court, York, PA 17408 http://www.kloecknermetals.com/	
Bending Operation		2014-226Q
Cutting Operation		2014-226Q
Drilling or Punching Operation		2014-226Q
Grinding Operation		2014-226Q
Laser Cutting Operation		2014-226Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		



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Product	Name	Ref. No.
KOTMP 15	Kottler Metal Products, 1595 Lost Nation Road, Willoughby, OH 44094-4633 http://www.kottlermetal.com/	
Bending Operation		----
Cutting Operation		----
LAMTC 15	Lawruk Machine & Tool Company, 302 East 6th Ave., Altoona, PA 16602 http://lawrukmachine.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
LOGII 15	Logue Industries, Inc., 120 South Arch St., Montoursville, PA 17754 http://logueind.com/	
Bending Operation		2000-334Q
Cutting Operation		2000-334Q
Drilling or Punching Operation		2000-334Q
Grinding Operation		2000-334Q
LPRPR 15	LPR Precision, 108 Rome Street, Farmingdale, NY 11735 http://lprprecision.com/	
Bending Operation		2014-034Q
Drilling or Punching Operation		2014-034Q
Grinding Operation		2014-034Q
Laser Cutting Operation		2014-034Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Water Jet Cutting Operation		2014-034Q
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Product	Name	Ref. No.
LUBTC 15	Lubrite Technologies, 18649 Brake Shoe Road, Meadville, PA 16335-0458 http://www.usbfmi.com/lube1.htm	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
MADDEN15	Madden Bolt Corporation, 13420 Hempstead Road, Houston, TX 77040 https://maddenbolt.com/	
Bending Operation		2019-104Q
Cutting Operation		2019-104Q
Drilling or Punching Operation		2019-104Q
Grinding Operation		2019-104Q
MAFES 15	The Machine Fabricating and Weight Equipment Shop, 267 Coolspring Street, Uniontown, PA 15401 http://machfabshop.com/	
Bending Operation		2000-231Q
Cutting Operation		2000-231Q
Drilling or Punching Operation		2000-231Q
Grinding Operation		2000-231Q
MARII 15	Marstrand Industries, Inc., 12 Rutgers Road, P.O. Box 44089, Pittsburgh, PA 15205 http://www.marstrand.us/	
Bending Operation		2001-214Q
Cutting Operation		2001-214Q
Drilling or Punching Operation		2001-214Q
Grinding Operation		2001-214Q
MARKL 15	Marmon/Keystone, LLC, 4521 Willow Parkway, Cleveland, OH 44125 https://www.marmonkeystone.com/ecomm/servlet/HomepageServlet	
Bending Operation		2010-195Q
Cutting Operation		2010-195Q
Grinding Operation		2010-195Q



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	Product	Name	Ref. No.
MARMF 15	Martelli's Metal Fabrication, 4 Louise Drive, Ivyland, PA 18974 http://martellismetalfab.com/		
	Bending Operation		2015-001Q
	Cutting Operation		2015-001Q
	Drilling or Punching Operation		2015-001Q
	Grinding Operation		2015-001Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221		
	Bending Operation		2019-132Q
	Cutting Operation		2019-132Q
	Drilling or Punching Operation		2019-132Q
	Grinding Operation		2019-132Q
MDLM- 15	MDL Manufacturing Industries, Inc., 15 Commerce Court, Bedford, PA 15522 http://www.mdlmanufacturing.com/		
	Bending Operation		2014-059Q
	Cutting Operation		2014-059Q
	Drilling or Punching Operation		2014-059Q
	Grinding Operation		2014-059Q
	Laser Cutting Operation		2014-059Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Press Brake (Tubular)		2014-059Q	
MET-1 15	Metals USA, 50 Cabot Blvd., Langhorne, PA 19047 http://www.metalsusa.com/		
	Cutting Operation		----
	Drilling or Punching Operation		----



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	Product	Name	Ref. No.
MET-2 15	Metals USA, 81 Century Drive, Ambridge, PA 15003 http://www.metalsusa.com/		
	Cutting Operation		2002-077Q
	Drilling or Punching Operation		2002-077Q
MET-3 15	Metals USA, 6991 Freedom Avenue, N.W., North Canton, OH 44720 http://www.metalsusa.com/		
	Cutting Operation		2003-103Q
	Drilling or Punching Operation		2003-103Q
MET-4 15	Metals USA, 10 Tower Road, Seekonk, MA 02771 http://www.metalsusa.com/		
	Cutting Operation		----
MET-5 15	Metals USA, 1900 Kittyhawk Avenue, Building 57, Philadelphia, PA 19112 http://www.metalsusa.com/		
	Bending Operation		2001-026Q
	Cutting Operation		2001-026Q
	Press Brake (Tubular)		2001-026Q
MET-6 15	Metals USA, 75 Stonewood Road, York, PA 17402 http://www.metalsusa.com/		
	Cutting Operation		2010-247Q
MET-7 15	Metals USA, 201 South Washington Street, Pottstown, PA 19047 http://www.metalsusa.com/		
	Cutting Operation		2015-040Q
	Drilling or Punching Operation		2015-040Q
MGLOS 15 Facility	M. Glosser & Sons, Inc., 72 Messenger Street, Johnstown, PA 15902 https://www.glossersteel.com/ Glosser Steel 347 Pomroys Drive Windber, PA 15963		
	Cutting Operation		2012-219Q



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Product	Name	Ref. No.
MGLOSB15 Facility	M. Glosser & Sons, Inc., 72 Messenger Street, Johnstown, PA 15902 https://www.glossersteel.com/ Glosser Steel 3802 Industrial Park Road Camp Hill, PA 17011	
Cutting Operation		2020-030Q
MIDATL15	Mid-Atlantic Steel, LLC, 1144 River Road, New Castle, DE 19720	
Bending Operation		2017-327Q
Cutting Operation		2017-327Q
Drilling or Punching Operation		2017-327Q
Grinding Operation		2017-327Q
MILMF 15	Miller Metal Fabrication, Inc., 16356 Sussex Hwy, P.O. Box 249, Bridgeville, DE 19933 http://www.millermetal.com/	
Bending Operation		2007-096Q
Cutting Operation		2007-096Q
Drilling or Punching Operation		2007-096Q
Grinding Operation		2007-096Q
MINERD15	Minerd & Sons, Inc., 101 Red Nine Lane, Lawrence, PA 15055 http://www.minerdandsons.com/	
Bending Operation		2019-139Q
Cutting Operation		2019-139Q
Drilling or Punching Operation		2019-139Q
Grinding Operation		2019-139Q
MORGA 15	Morgan's Welding Inc. (Neenah Enterprises, Inc.), 1941 Camp Swatara Road, Myerstown, PA 17067 http://www.nfco.com/	
Bending Operation		2018-005Q
Cutting Operation		2018-005Q
Drilling or Punching Operation		2018-005Q



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Product	Name	Ref. No.
MTGFAB15	Manufacturing Technology Group, Inc., 85 Servistar Industrial Way, Westfield, MA 01085 http://www.mtgfab.com	
Bending Operation		2016-001Q
Cutting Operation		2015-170Q
Drilling or Punching Operation		2016-001Q
Grinding Operation		2015-170Q
Laser Cutting Operation		2015-170Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Water Jet Cutting Operation		2016-001Q
<i>Project by project approval by Chief Structural Materials Engineer</i>		
MUNMT 15	Muncy Machine & Tool Company, Inc., P. O. Box 205, Muncy, PA 17756 http://www.muncyindustries.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
NAMCO 15	Namasco Corporation, 3835 Singleton Blvd., Dallas, TX 75212	
Cutting Operation		2011-140Q
Drilling or Punching Operation		2011-140Q
Grinding Operation		2011-140Q
NIABR 15	Niagara Bridge & Rail, 2212 Cory Drive, Sanborn, NY 14132 http://nbrfab.com/	
Bending Operation		2009-076Q
Cutting Operation		2009-076Q
Drilling or Punching Operation		2009-076Q
Grinding Operation		2009-076Q



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	Product	Name	Ref. No.
NIAMC 15	Niagara Manufacturing Company, 2725 West 17th St., Erie, PA 16505 http://niagaramfg.com/		
	Bending Operation		1999-169Q
	Cutting Operation		1999-169Q
	Drilling or Punching Operation		1999-169Q
	Grinding Operation		1999-169Q
NIVERT15	Nivert Metal Supply, Inc., 1100 Marshwood Road, Throop, PA 18512 https://www.nivertmetal.com/		
	Cutting Operation		2017-273Q
OLYCD 15	Olympic Steel, Cleveland Division, 5080 Richmond Road, Bedford Heights, OH 44146 http://www.olysteel.com/		
	Cutting Operation		2003-057Q
	Drilling or Punching Operation		2003-057Q
ONL-1 15	O'Neal Steel LLC, 2975 Duss Ave., Ambridge, PA 15003 https://www.onealsteel.com/locations/pittsburgh-pa/		
	Bending Operation		2000-309Q
	Cutting Operation		2000-309Q
	Drilling or Punching Operation		2000-309Q
	Grinding Operation		2000-309Q
ONL-2 15	O'Neal Steel LLC, 11228 Hwy 14 East, New Haven, IN 46774 https://www.onealsteel.com/locations/fort-wayne-in/		
	Cutting Operation		2011-109Q
	Grinding Operation		2011-109Q
ONL-5 15	O'Neal Steel LLC, 4005 East I-30, Grand Prairie, TX 75050 https://www.onealsteel.com/locations/dallas-tx/		
	Cutting Operation		2011-199
	Grinding Operation		2011-199



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Product	Name	Ref. No.
ONL-6 15	O'Neal Steel LLC, 841 N Michigan Road, Shelbyville, IN 46176 https://www.onealsteel.com/locations/shelbyville-in/	
Bending Operation		2019-201Q
Cutting Operation		2019-201Q
Laser Cutting Operation		2019-201Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
PARTD 15	Paragon Tool & Die, 15439 Akron-Canfield Road, P.O. Box 102, Berlin Ctr., OH 44401 https://www.paragontd.com/	
Drilling or Punching Operation		2009-005Q
Grinding Operation		2009-005Q
PEIWF 15	Peirce Welding & Fabricating, 170 Airport Rd., P.O. Box 369, Bethel, PA 19507	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/	
Bending Operation		2012-109Q
Cutting Operation		2012-109Q
Drilling or Punching Operation		2012-109Q
Grinding Operation		2012-109Q
Water Jet Cutting Operation		2012-109QB
PERPV 15	Performance Processing Venture, LLC, 660 Martin Luther King Jr. Blvd., Farrell, PA 16121	
Cutting Operation		2009-136Q
Drilling or Punching Operation		2009-136Q



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	Product	Name	Ref. No.
PKMAC 15	P. K. Machine, 9 Brooks Ave., Willow Street, PA 17584 https://www.pkmachine.com/		
	Bending Operation		2001-165Q
	Cutting Operation		2001-165Q
	Drilling or Punching Operation		2001-165Q
	Grinding Operation		2001-165Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/		
	Bending Operation		2018-218Q
	Cutting Operation		2018-218Q
	Drilling or Punching Operation		2018-218Q
	Grinding Operation		2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/		
	Bending Operation		2016-204Q
	Cutting Operation		2016-204Q
	Drilling or Punching Operation		2016-204Q
	Grinding Operation		2016-204Q
PRESS 15	Precision Steel Services Inc., 31 E. Sylvania Ave., Toledo, OH 43616 http://precision-steel.com/		
	Cutting Operation		----
PRETC 15	Premium Tool Company, Inc., 1082 Penn Avenue, Jersey Shore, PA 17740		
	Cutting Operation		2002-043Q
	Drilling or Punching Operation		2002-043Q
PROMA 15	Professional Machine, 518 Maple Street, Holyoke, MA 01040 http://www.promach.biz/		
	Drilling or Punching Operation		2013-015Q
	Grinding Operation		2013-015Q



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	Product	Name	Ref. No.
PRSNY 15	Cataract Steel Industries, 3774 Lakeshore Rd., Blasdell, NY 14219 http://www.cataractsteel.com (Formerly: Private Systems of WNY, Inc.)		
	Drilling or Punching Operation		2010-177Q
	Grinding Operation		2010-177Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007		
	Bending Operation		2016-281
	Cutting Operation		2016-281
	Drilling or Punching Operation		2016-281
	Grinding Operation		2016-281
PTP-1 15	Pro Tech Precision LLC, 11 Saint Joseph Street, Lancaster, NY 14086 https://www.protechprecisionllc.com/		
	Bending Operation		2019-196Q
	Cutting Operation		2019-196Q
	Drilling or Punching Operation		2019-196Q
	Grinding Operation		2019-196Q
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/		
	Bending Operation		2013-049Q
	Cutting Operation		2013-049Q
	Drilling or Punching Operation		2013-049Q
	Grinding Operation		2013-049Q
QUAFC 15	Quality Flame Cutting, Inc., 828 Main St., Fremont, NH 03841 http://www.qcfllame.com/		
	Cutting Operation		2008-179Q
	Grinding Operation		2008-179Q



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	Product	Name	Ref. No.
RANIN 15	Ranor, Inc., 1 Bella Drive, Westminster, MA 01473 http://www.ranor.com/		
	Bending Operation		2001-151Q
	Cutting Operation		2001-151Q
	Drilling or Punching Operation		2001-151Q
	Grinding Operation		2001-151Q
REYMC 15	Reynolds Manufacturing Company, Inc., 621 Railroad Ave., Avonmore, PA 15618 http://www.reynoldsmfg.com/		
	Bending Operation		2013-084Q
	Cutting Operation		2013-084Q
	Drilling or Punching Operation		2013-084Q
	Grinding Operation		2013-084Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/		
	Bending Operation		2008-002Q
	Cutting Operation		2008-002Q
	Drilling or Punching Operation		2008-002Q
	Grinding Operation		2008-002Q
RICMT 15	Richard's Machine Tool Company, Inc., 3753 Walden Ave., Lancaster, NY 14086 http://richardscnc.com/		
	Bending Operation		2000-312Q
	Cutting Operation		2000-312Q
	Drilling or Punching Operation		2000-312Q
	Grinding Operation		2000-312Q



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Product	Name	Ref. No.
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/	
	Bending Operation	----
	Cutting Operation	----
	Drilling or Punching Operation	----
	Grinding Operation	----
RYER1 15 Facility	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com/ 43 Century Drive Ambridge, PA 15003	
	Cutting Operation	----
	Drilling or Punching Operation	----
RYER2 15 Facility	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com/ 3915 Walden Avenue Lancaster, NY 14086	
	Cutting Operation	2000-233Q
	Drilling or Punching Operation	2000-233Q
RYER3 15 Facility	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com/ 555 North Yearling Road Columbus, OH 43213	
	Cutting Operation	2015-052
	Drilling or Punching Operation	2015-052
	Grinding Operation	2015-052
RYER4 15 Facility	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com/ Ryerson Philadelphia, 20 Steel Road South Morrisville, PA 19067	
	Cutting Operation	2016-050Q
	Grinding Operation	2016-050Q



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Product	Name	Ref. No.
RYER5 15 Facility	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com 920 Old Brunerstown Road Shelbyville, KY 40065-9132	
	Cutting Operation	2016-133Q
	Grinding Operation	2016-133Q
SABAL 15	Sabre Alloys, 6039 Thomas Road, Building B, Houston, TX 77041 http://www.sabrealloys.com/Index.htm	
	Bending Operation	2012-117Q
	Cutting Operation	2012-117Q
	Drilling or Punching Operation	2012-117Q
	Grinding Operation	2012-117Q
SALFL 15	Salescorp of Florida, Inc., 3402C N.E. 37th Place, Wildwood, FL 34785 http://salescorpusa.com/	
	Fabrication of bearing and beveled plates only Fabrication of JJ-Hooks connector plate assembly only	2011-204Q 2011-204Q
SAMPS 15	Samuel Plate Sales, 250 Lake Ave., Blasdell, NY 14219	
	Cutting Operation Drilling or Punching Operation	2000-318Q 2000-318Q
SCHMC 15	Scheirer Machine Company, Inc., 3200 Industrial Blvd., Bethel Park, PA 15120-0670 http://scheirer.com/	
	Bending Operation	2000-192Q
	Cutting Operation	2000-192Q
	Drilling or Punching Operation	2000-192Q
	Grinding Operation	2000-192Q



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Product	Name	Ref. No.
SCHMI 15	Schaefer Machine, Inc., 727 Robinson Hwy, Route 980, McDonald, PA 15071 http://www.schaeferco.com/	
Bending Operation		2000-154Q
Cutting Operation		2000-154Q
Drilling or Punching Operation		2000-154Q
Grinding Operation		2000-154Q
SEISM 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/	
Plant	518 Progress Way Athens, TX 75751 (Formerly Seismic Energy Products, Inc.)	
Bending Operation		2010-198Q
Cutting Operation		2010-198Q
Drilling or Punching Operation		2010-198Q
Grinding Operation		2010-198Q
SOMERA15	Somerville Industries, Inc., 336 South Meadow Drive, Mineral Wells, WV 26150 https://www.somervilleindustries.com/contact	
Facility	Somerville Fabricators 336 South Meadow Drive Mineral Wells, WV 26150	
Bending Operation		2020-151Q
Cutting Operation		2020-151Q
Drilling or Punching Operation		2020-151Q
Grinding Operation		2020-151Q
SOMERB15	Somerville Industries, Inc., 336 South Meadow Drive, Mineral Wells, WV 26150 https://www.somervilleindustries.com/contact	
Facility	Somerville Manufacturing 15 Townhall Road Marietta, OH 45750	
Bending Operation		2020-150Q
Cutting Operation		2020-150Q
Drilling or Punching Operation		2020-150Q
Grinding Operation		2020-150Q



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Product	Name	Ref. No.
SPES 15	Specialty Steel Supply Company, Inc., 225 Lincoln Hwy, Fairless Hills, PA 19030 https://225steel.com/	
	Cutting Operation	2009-158Q
	Drilling or Punching Operation	2009-158Q
STAAR 15 Facility	STAAR Distributing, LLC, 560 Myrtle Street, Reynoldsville, PA 15851 http://www.staardistributing.com/ 130A Satterlee Road DuBois, PA 15801	
	Bending Operation <i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
	Cutting Operation <i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
	Drilling or Punching Operation <i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
	Grinding Operation <i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
	Press Brake (Tubular) <i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
STAMS 15	Stark Metal Sales, Inc., 432 E. Keystone St., Alliance, OH 44601 http://www.starkmetal.com/	
	Bending Operation	2011-126Q
	Cutting Operation	2011-126Q
	Drilling or Punching Operation	2011-126Q
	Grinding Operation	2011-126Q
STESE 15	Steel Services, Inc., 835 Boundary St., Salisbury, MD 21801 http://www.steel-services.com/	
	Cutting Operation	----



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	Product	Name	Ref. No.
STESH 15	Steel Shearing, Inc., 5300 Lakeside Ave East Suite 2, Cleveland, OH 44114		
	Cutting Operation		2003-104Q
	Drilling or Punching Operation		2003-104Q
STEWK 15	Steelworks, Inc., P.O. Box 390, 2335 Toledo Ave., Trenton, MI 48183		
	Bending Operation		2001-071Q
	Cutting Operation		2001-071Q
	Drilling or Punching Operation		2001-071Q
STRMS 15	Struthers Metal Service, Inc., 2800 Intertech Drive, Youngstown, OH 44509 http://struthersmetalserviceinc.com/		
	Cutting Operation		2014-242Q
SUMSM 15	Summit Steel & Manufacturing Company, 1005 Patriot Parkway, Reading, PA 19605 http://summitsteelinc.com/		
	Fabrication of JJ-Hooks connector plate assembly only		2011-049Q
SUSTR 15	Summit Utility Structures, 2027 South 12th Street, Bldg 504, Allentown, PA 18103 http://summitutilitystructures.com/		
	Bending Operation		2015-123Q
	Cutting Operation		2015-123Q
	Drilling or Punching Operation		2015-123Q
	Grinding Operation		2015-123Q
SVPRO 15	Steel Valley Processing, LLC, 3710 Hendricks Road, Youngstown, OH 44515		
	Bending Operation		2016-032Q
	Cutting Operation		2016-032Q
	Drilling or Punching Operation		2016-032Q
	Grinding Operation		2016-032Q



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	Product	Name	Ref. No.
TBRSA 15	T. Bruce Sales, 9 Carbaugh Street, West Middlesex, PA 16159	http://tbrucesales.com/tbrucesales_3_010.htm	
	Bending Operation		----
	Cutting Operation		----
TEKT1 15 Facility	Tektonics Design Group, LLC, 702 East 4th Street, Richmond, VA 23224 702 East 4th Street Richmond, VA 23224		
	Cutting Operation		2015-114Q
	Drilling or Punching Operation		2015-114Q
	Grinding Operation		2015-114Q
THOMC 15	Thompson Machine Company, 1128 N. Fourth Ave., Altoona, PA 16601		
	Bending Operation		----
	Cutting Operation		----
	Drilling or Punching Operation		----
	Grinding Operation		----
TIMMA 15	Time Machine, Inc., 1746 Pittsburgh Road, Polk, PA 16432	http://www.timemachinepa.com/	
	Bending Operation		2000-329Q
	Cutting Operation		2000-329Q
	Drilling or Punching Operation		2000-329Q
	Grinding Operation		2000-329Q
TOLSS 15	Toledo Steel Supply, Inc., 222 LaVoy Road, Erie, MI 48133	http://toledosteel.net/	
	Cutting Operation		2014-131Q
	Grinding Operation		2014-131Q
TRIM1 15	Metal Traders, Inc. DBA Triad Metals International, 1951 Bessemer Rd., Petersburg, VA 23805	http://metaltrader.com/	
	Cutting Operation		2009-062Q



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	Product	Name	Ref. No.
TRIM2 15	Metal Traders, Inc. DBA Triad Metals International, 3480 Grand Avenue, Pittsburgh, PA 15225-1508	http://triadmetals.com/triad-locations/pittsburgh-pa-campus/	
	Cutting Operation		----
	Drilling or Punching Operation		-
	Grinding Operation		-
TRISB 15	Tristate Bolt Company, 1110 Fuller Drive, Garrett, IN 46738	http://www.tristateboltinc.com/	
	Bending Operation		2012-249Q
	Cutting Operation		2012-249Q
	Drilling or Punching Operation		2012-249Q
	Grinding Operation		2012-249Q
UMCI1 15	Unverferth Manufacturing Co., Inc., P.O. Box 357, 601 S. Broad Street, Kalida, OH 45853	https://www.unverferth.com/	
	Cutting Operation		2018-245Q
	Drilling or Punching Operation		2018-245Q
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062	http://www.uisutah.com/uis2011/	
	Bending Operation		2011-063Q
	Cutting Operation		2011-063Q
	Drilling or Punching Operation		2011-063Q
	Grinding Operation		2011-063Q
VAL-2 15	Valmont Specialty Structures/Plymouth, 1545 Pidco Drive, Plymouth, IN 46563	http://www.valmont.com/	
	Bending Operation		2008-197Q
	Cutting Operation		2008-197Q
	Drilling or Punching Operation		2008-197Q
	Grinding Operation		2008-197Q



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	Product	Name	Ref. No.
VERIN 15	Vertech International, Inc., 420 Station Road, Quakertown, PA 18951 http://www.vertechinternational.com/		
	Bending Operation		2011-248Q
	Cutting Operation		2011-248Q
	Drilling or Punching Operation		2011-248Q
	Grinding Operation		2011-248Q
VICFC 15	Vicon Fabricating Company, 7200 Justin Way, Mentor, OH 44060 http://viconfab.com/		
	Bending Operation		2009-008Q
	Cutting Operation		2009-008Q
	Drilling or Punching Operation		2009-008Q
	Grinding Operation		2009-008Q
VOSMA 15	Voss Manufacturing, Inc., 2345 Lockport Road, Sanborn, NY 14132 http://vossmfg.com/		
	Bending Operation		----
	Cutting Operation		----
	Drilling or Punching Operation		----
	Grinding Operation		----
WALLO 15	Walter Long Manufacturing Company, Inc., 86 Walter Long Road, Finleyville, PA 15332 http://www.walterlongmanufacturing.com/index.html		
	Bending Operation		2003-010Q
	Cutting Operation		2003-010Q
	Drilling or Punching Operation		2003-010Q
	Grinding Operation		2003-010Q
WATSP 15	Watson Steel Products, Inc., 264 Mystic Ave., Buffalo, NY 14206 http://www.watsonsteelproducts.com/		
	Cutting Operation		2006-004Q
	Drilling or Punching Operation		2006-004Q



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	Product	Name	Ref. No.
WECAL 15	Wecall, Inc., 64 Penniman Road, Orwell, OH 44076 http://www.wecallinc.com/		
	Cutting Operation		2011-154Q
	Drilling or Punching Operation		2011-154Q
	Grinding Operation		2011-154Q
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 http://www.lcwhitford.com/		
	Cutting Operation		2017-120Q
	Drilling or Punching Operation		2017-120Q
	Grinding Operation		2017-120Q
WHIFB 15	White Fabrication, Inc., 724 Avenue W, Birmingham, AL 35214 http://whitefab.com/		
	Cutting Operation		----
	Drilling or Punching Operation		----
WILMI 15 Facility	Willbanks Metals, Inc., 1155 N. E. 28th Street, Fort Worth, TX 76106 http://www.willbanksmetals.com/		
	2678 Harvard Avenue Tulsa, OK 74115		
	Bending Operation		2014-170Q
	Cutting Operation		2014-170Q
	Press Brake (Tubular)		2014-170Q
WINME 15	Winchester Metals, Inc., 195 Ebert Road, Winchester, VA 22603 http://winchestermetals.com/		
	Fabrication of JJ-Hooks connector plate assembly only		2010-309Q
	Fabrication of JJ-Hooks connector plate assembly with attached welded reinforcement, including Deflection Limiter and Bolt Down Bar		2015-054Q
YOU-1 15	Youngstown Pipe & Steel, LLC, 4100 Lake Park Road, Youngstown, OH 44513 http://yopipe.com/		
	Cutting Operation		2002-114Q
	Drilling or Punching Operation		2002-114Q



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Product	Name	Ref. No.
YOU-2 15	Youngstown Pipe & Steel, LLC, 45 S Montgomery Ave., P.O. Box 3467, Youngstown, OH 44506 http://yopipe.com/	
Cutting Operation		2012-111Q
Drilling or Punching Operation		2012-111Q
Grinding Operation		2012-111Q