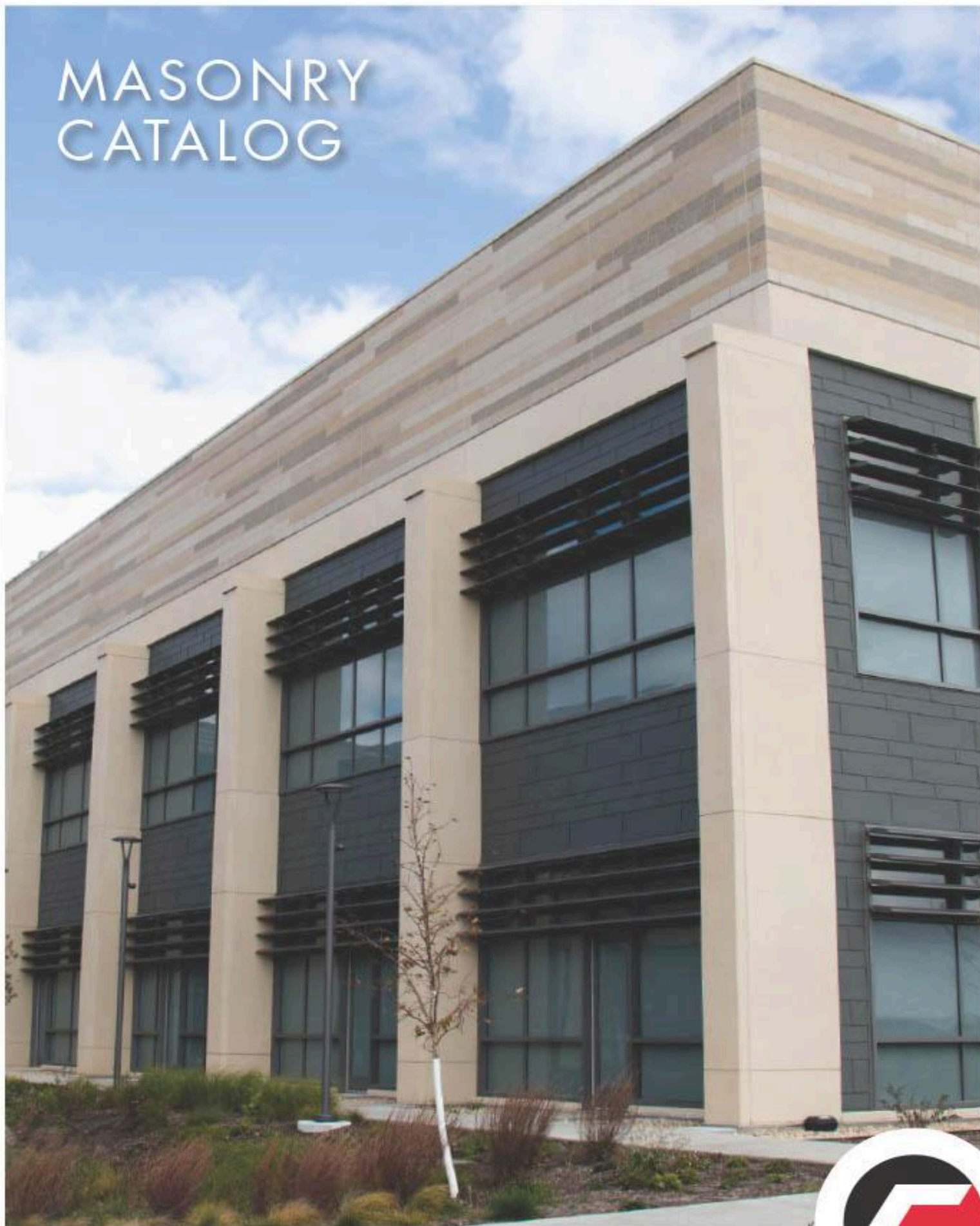


MASONRY CATALOG



Oversized 32" CONCRETE MASONRY UNIT



Achieve ultimate efficiency with an evolutionary concrete masonry solution.



12" x 8" x 32"
Scored and Smooth CMUs
(Also available in 8" x 8" x 32"
Scored and Smooth CMUs)

With the use of 8" x 8" x 32" or 12" x 8" x 32" CMUs, even the tightest of construction schedules can be met without sacrificing strength or durability. Units may be customized with a center score to provide the appearance of two 16" units.

Technical Specifications

Unit Size (Nominal)	Unit Weight	Units/Pallet
8" x 8" x 32"	77 lbs.	36
12" x 8" x 32"	95 lbs.	24

Economic Solution

Maximize construction schedules while saving on materials and labor costs with County Materials' Oversized 32" CMUs.

- Increase efficiency with the power to lay the equivalent of two units at once
- Reduce labor costs, as units drastically cut installation time
- Maintain schedules as CMUs are consistently manufactured and delivered to meet project expectations, even when schedule changes arise

Consider the Advantages

- 32" unit is interchangeable to complement our company's extensive manufactured CMU product line. County Materials offers a complete solution.
- Block is engineered to be used with a masonry hoist system or 2-man installation.
- Hoist systems extend the careers of masons and appeal to younger generations by minimizing heavy lifting.
- Hoist System Technology lifts block at a consistent pace, further reducing installation time.
- Fire Rating: 2 hours for both 8" x 8" x 32" and 12" x 8" x 32" units.

Also available in Light weight and Medium weight.

Oversized 32" Concrete Masonry Unit



12" X 32" CMU (scored)

Unit Masonry SHAPES AND SIZES



Discover the possibilities of concrete masonry.
We offer a comprehensive collection of masonry unit shapes and sizes.

Unit Masonry Shapes and Sizes



Standard Masonry Sizes: 2", 3", and 4"

SHAPES AND SIZES



2 In. Brick (Common) 150100 Concrete (1 Hr.)	2 In. Solid/Soap 150135 Concrete	3 In. Solid 150150 Concrete 150152 Lightweight	4 In. Regular** 040000 Concrete 040200 Lightweight (1 Hr.)
4 In. Two Qtr. / Half Block 040002 Concrete 040202 Lightweight (1 Hr.)	4 In. Three Qtr. 040003 Concrete 040203 Lightweight (1 Hr.) (Alternate - 12" One Qtr.)	4 In. 5 High (Starter) 040006 Concrete 040206 Lightweight (1 Hr.)	4 In. Half High 040008 Concrete 040208 Lightweight (1 Hr.)
4 In. L-Corner*** 040010 Concrete 040210 Lightweight (1 Hr.)	4 In. Solid 040054 Concrete 040254 Lightweight (2 Hr.)	4 In. Single Bullnose* 044001 Concrete 044201 Lightweight (1 Hr.)	4 In. Two Qtr. / Half Block Single Bullnose* 044006 Concrete 044206 Lightweight (1 Hr.)
4 In. Double Bullnose* End 044010 Concrete 044210 Lightweight (1 Hr.)	4 In. Double Bullnose* Face 044012 Concrete 044212 Lightweight (1 Hr.)	4 In. Two Qtr. / Half Block Double Bullnose* 044016 Concrete 044216 Lightweight (1 Hr.)	

Standard Masonry Sizes: 6"

SHAPES AND SIZES



6 In. Regular** 060000 Concrete 060200 Lightweight (1 Hr.)	6 In. Two Qtr. / Half Block 060002 Concrete 060202 Lightweight (1 Hr.)	6 In. 5 High (Starter) 060006 Concrete 060206 Lightweight (1 Hr.) (May be available as a solid)	6 In. Half High 060008 Concrete 060208 Lightweight (1 Hr.) (May be available as a solid)
6 In. L-Corner 060010 Concrete 060210 Lightweight (1 Hr.)	6 In. Bay Block (45° Corner) 060012 Concrete 060212 Lightweight (1 Hr.)	6 In. Bond Beam 060015 Concrete (1 Hr.) 060215 Lightweight (1 Hr.)	6 In. Utility Knockout 060020 Concrete 060220 Lightweight (1 Hr.) 060018 (Substitute for 6" Utility)
6 In. Solid 060054 Concrete 060254 Lightweight (4 Hr.)	6 In. Single Bullnose* 064001 Concrete 064201 Lightweight (1 Hr.)	6 In. Two Qtr. / Half Block Single Bullnose* 064006 Concrete 064206 Lightweight (1 Hr.)	6 In. Double Bullnose* End 064010 Concrete 064210 Lightweight (1 Hr.)
6 In. Double Bullnose* Face 064012 Concrete 064212 Lightweight (1 Hr.)	6 In. Two Qtr. / Half Block Double Bullnose* 064016 Concrete 064216 Lightweight (1 Hr.)	6 In. Knockout Bond Beam (Flow Through) 060017 Concrete (1 Hr.) 060217 Lightweight (1 Hr.)	6 In. 2 Hour 060040 Concrete (2 Hr.) 060240 Lightweight (2 Hr.)

Standard Masonry Sizes: 8"

SHAPES AND SIZES



8 In. Regular/Stretcher** 080000 Concrete 080004 1" Web (2 Hr.) 080004 Medium weight (2 Hr.) 080200 Lightweight (2 Hr.)	8 In. One Quarter 080001 Concrete 080201 Lightweight (4 Hr.) (Alternate - 4" Two Qtr.)	8 In. Two Qtr. / Half Block 080002 Concrete 080202 Lightweight (2 Hr.)	8 In. Three Quarter 080003 Concrete 080203 Lightweight (2 Hr.) (Alternate - 12" Two Qtr.)
8 In. 5 High (Starter) 080006 Concrete 080206 Lightweight (2 Hr.)	8 In. Half High 080008 Concrete 080208 Lightweight (2 Hr.) (Available as Double Flush Jamb Sash and 2 Sash)	8 In. Bay Block** (45° Corner) 080012 Concrete 080212 Lightweight (2 Hr.)	8 In. Flow Through Bond Beam (2 Holes) 080014 Concrete 080214 Lightweight (2 Hr.)
8 In. Bond Beam 080015 Concrete 080215 Lightweight (2 Hr.) (8" Half-High Bond Beam Available)	8 In. Flow Through Bond Beam (1 Hole) 080016 Concrete (2 Hr.)	8 In. Knockout Bond Beam (Flow Through) 080017 Concrete 080217 Lightweight (2 Hr.)	8 In. Lintel (Horsecollar) 080018 Concrete 080218 Lightweight (2 Hr.)
8 In. FHA*** Special Knockout Bond Beam 080019 Concrete (2 Hr.)	8 In. Utility Knockout 080020 Concrete 080220 Lightweight (2 Hr.)	8 In. Jamb Sash 080025 Concrete 080225 Lightweight (2 Hr.)	8 In. Double Flush** 080027 Concrete 080227 Lightweight (2 Hr.)

8 In. 2 Hour 080040 Concrete (2 Hr.) 080240 Lightweight (2 Hr.)	8 In. 75% Solid 080045 Concrete (3 Hr.) 080245 Lightweight (4 Hr.)	8 In. Solid / 4 Hour 080055 Concrete (4 Hr.) 080254 Lightweight (4 Hr.)	8 In. Open Cell 080400 Concrete (1 Hr.) Used for alignment of cores for rebar and grouting. Notches on the webs are available for rebar.
8 In. Single Bullnose* 084001 Concrete (2 Hr.) 084201 Lightweight (2 Hr.)	8 In. Two Qtr./Half Block Single Bullnose* 084006 Concrete (2 Hr.) 084206 Lightweight (2 Hr.)	8 In. Double Bullnose* End 084010 Concrete (2 Hr.) 084210 Lightweight (2 Hr.)	8 In. Double Bullnose* Face 084012 Concrete (2 Hr.) 084212 Lightweight (2 Hr.)
8 In. Two Qtr./Half Block Double Bullnose* 084016 Concrete (2 Hr.) 084216 Lightweight (2 Hr.)	8 In. 8x32 080000 Concrete (2 Hr.) *** Medium weight (2 Hr.) *** Lightweight (3 Hr.)		

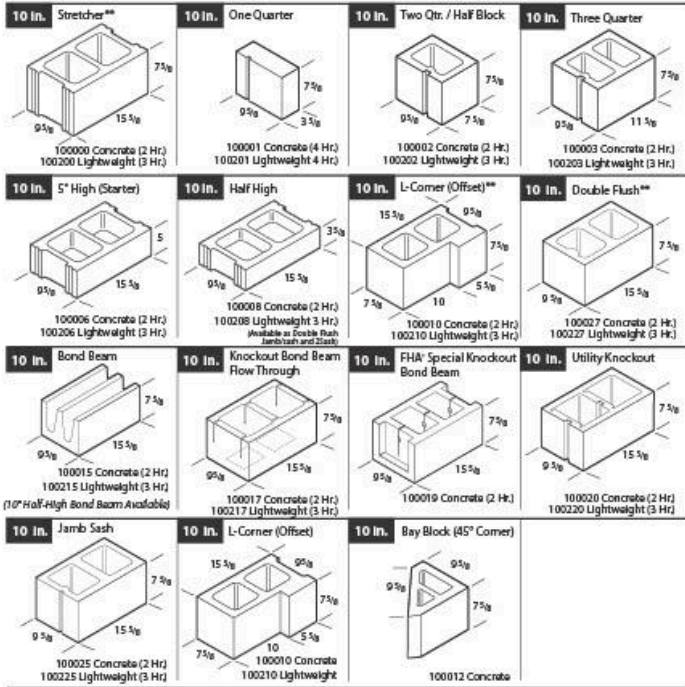
***FHA - Federal Housing Authority Approved

Notes: Not all block immediately available at all County Materials locations.
 ** Full 8" high units available in select markets. Contact your sales representative.
 All dimensions nominal.

Notes: Not all block immediately available at all County Materials locations.
 * All Bullnose have 1" radius.
 ** Full 8" high units available in select markets. Contact your sales representative.
 *** SPECIAL ORDER.
 2 Hr., 3 Hr. and 4 Hr. refer to the unit's Fire Rating.
 All dimensions nominal.

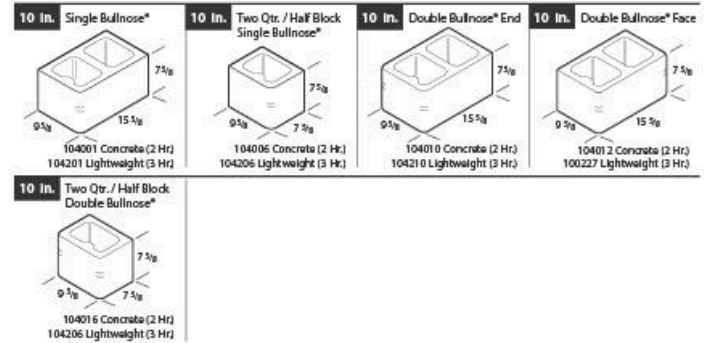
Standard Masonry Sizes: 10"

MASONRY UNITS



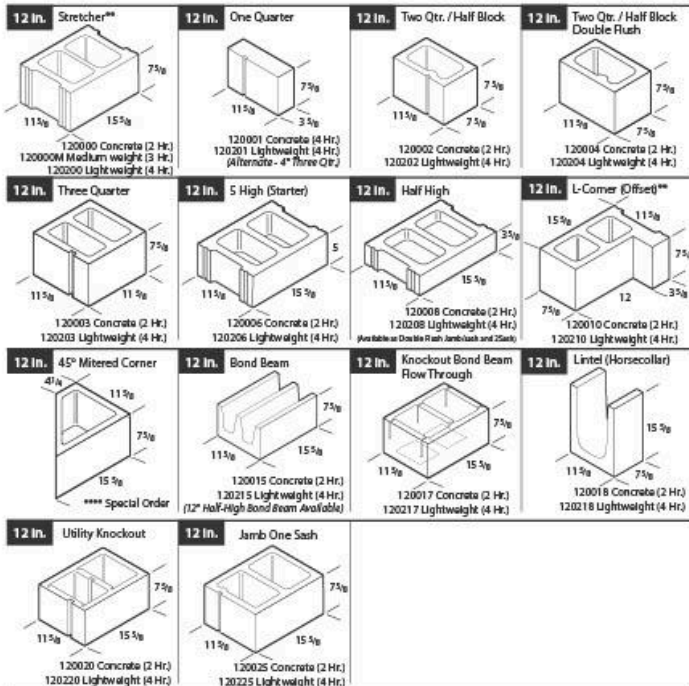
Standard Masonry Sizes: 10"

SHAPES AND SIZES



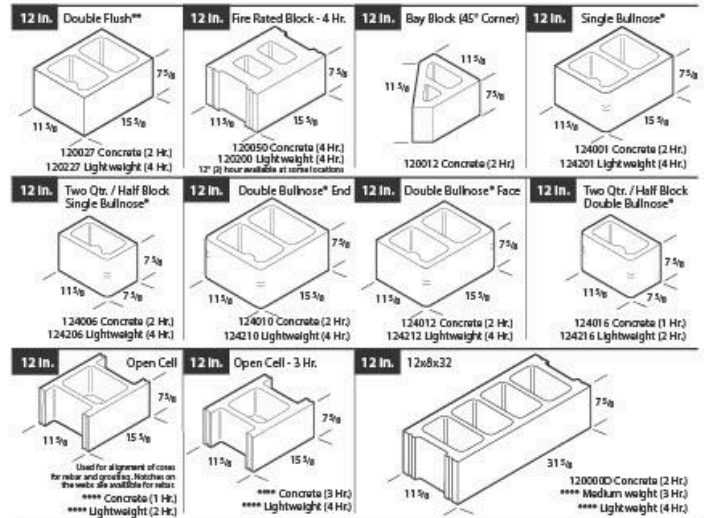
Standard Masonry Sizes: 12"

SHAPES AND SIZES



Standard Masonry Sizes: 12"

SHAPES AND SIZES



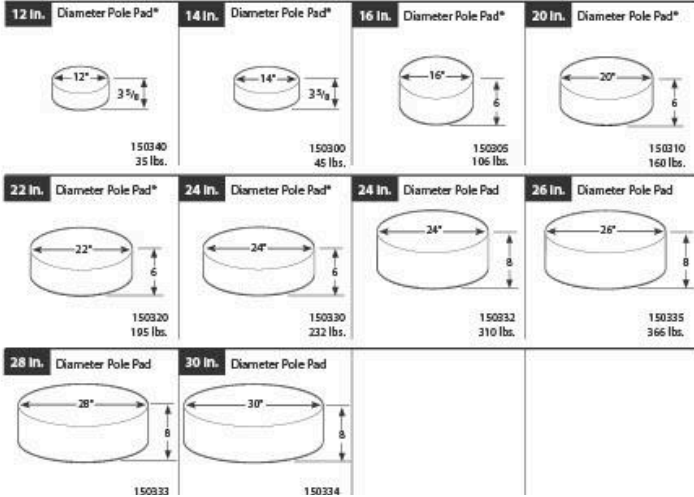
*** FHA = Federal Housing Authority Approved

Note: Not all block immediately available in all County Materials locations.
 *** Full 8" high units available in select markets. Contact your sales representative.
 *** SPECIAL ORDER.
 All dimensions nominal.

Note: Not all block immediately available in all County Materials locations.
 *** Full 8" high units available in select markets. Contact your sales representative.
 *** SPECIAL ORDER.
 All dimensions nominal.

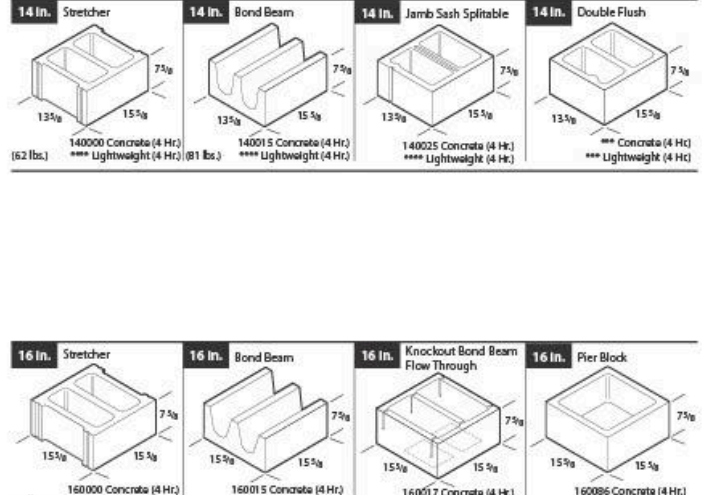
Special Block

SHAPES AND SIZES



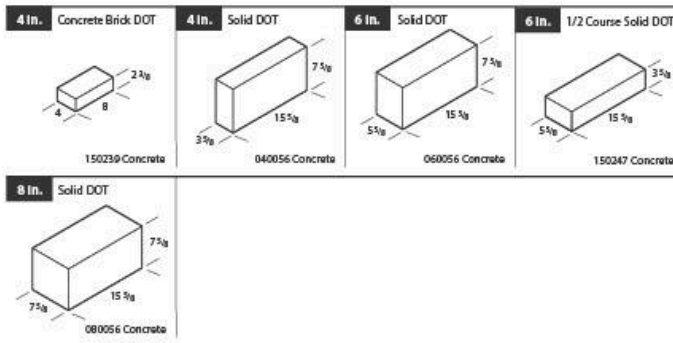
Standard Masonry Sizes: 14" and 16"

SHAPES AND SIZES



DOT Block

SHAPES AND SIZES



Open Cell Insulating Units

SHAPES AND SIZES



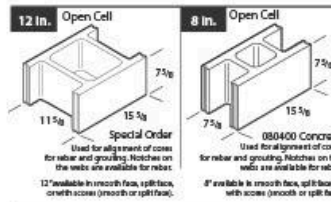
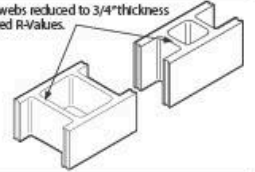
Block Type	Density - pcf	Weight lbs.	Percent Difference
8" Regular - (2) core	Normal Weight - 135 pcf	38	16%
8" Open Cell - (1) core	Normal Weight - 135 pcf	31.9	
12" Regular - (2) core	Normal Weight - 135 pcf	49	
12" Open Cell - (1) core	Normal Weight - 135 pcf	38.8	21%

OPEN CELL

Open Cell Single Core units installed with insulating core materials enhance R-values and result in better energy performance for CMU cavity wall construction. Open Cell units are manufactured with 3/4" webs that improve R-values, increase occupant comfort levels, and lower energy and equipment costs over the life cycle of the building.

Open Cell units are NCMA & ASHRAE Approved Series Parallel (Isothermal Planes) R-Values

Now with webs reduced to 3/4" thickness for improved R-values.



- Benefits:**
- Reduced web thickness to 3/4"
 - Improved R-Value
 - Units pass energy code requirements
 - Lower weight (see chart above) increases efficiency for masons and reduces injury potential
 - Meets ASTM C90 requirement

Available in Decorative Finishes Split Face and Premier Ultra Burnished.

County Materials Corporation - Open Cell Unit with Reduced Webs													
Thermal R-Values, U-Values, and Heat Capacity (HC) Values													
Size Nominal width	Density lbs./cu.ft.	Core Material Makeup											
		Empty			Grouted Solid			Plastic Foam			Perlite		
		R	U	HC	R	U	HC	R	U	HC	R	U	HC
One Core; (1) 1-1/2" & (1) 1-1/4" Face Shells; (2) 3/4" Webs (Equivalent Thickness = 3.9")													
12"	135	3.08	0.325	8.76	2.05	0.489	26.54	10.28	0.097	9.03	8.18	0.109	8.92
	115	3.35	0.298	7.53	2.22	0.451	25.31	14.26	0.070	7.80	12.15	0.082	7.69
	105	3.46	0.289	6.92	2.29	0.436	24.70	16.01	0.062	7.18	13.37	0.075	7.08
One Core; (2) 1-1/4" Face Shells; (2) 3/4" Webs (Equivalent Thickness = 3")													
8"	135	2.24	0.447	7.34	1.84	0.610	23.01	6.40	0.156	7.58	5.76	0.174	7.48
	115	2.44	0.410	6.32	1.79	0.559	21.99	8.74	0.114	6.56	7.52	0.133	6.46
	105	2.53	0.396	5.81	1.85	0.538	21.48	9.77	0.102	6.05	8.25	0.121	5.95
Medium Weight Two Core; (2) 1 1/3" Face Shells, (3) 1" Webs (Equivalent Thickness = 4.8")													
12"	125	2.3	0.436	na	2.25	0.444	na	8.07	0.124	na	7.5	0.133	na
	115	2.2	0.455	na	2.16	0.463	na	6.87	0.146	na	6.47	0.155	na
Medium Weight Two Core; (2) 1 1/4" Face Shells, (3) 1" Webs (Equivalent Thickness = 3.9")													
8"	125	2.2	0.455	na	1.81	0.553	na	5.49	0.182	na	5.09	0.196	na
	115	2.09	0.478	na	1.73	0.579	na	4.72	0.211	na	4.45	0.225	na

Note: Not all blocks immediately available at all County Materials locations.
All dimensions nominal.

All dimensions nominal.

Thermal Block Insulating Units

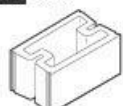
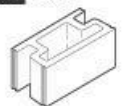
SHAPES AND SIZES



THERMAL BLOCK

THERMAL BLOCK have rigid insulating inserts installed in them during the manufacturing process to reduce jobsite labor. Additional thermal protection between units may be installed in the field. Note: These units are available in Splitface / Fullface Split / Premier Ultra Burnished / or Smoothface.



12 in. Thermal	10 in. Thermal	8 in. Thermal
		
120030 Special Order Required	100030 Special Order Required	080030 Special Order Required

FACTORY INSTALLED INSERT SIZE
1 1/2" x 7 1/2" x 11 5/8" - 152010

FIELD INSTALLED INSERT SIZE
1 1/2" x 6" x 16" - 8" & 12" - 152040
1 1/2" x 6" x 16" - 10" - Special Order

*Insert sizes vary by location

U-Values & Fire Ratings	BLOCK SIZE					
	12"		10"		8"	
SYSTEM USED	CONCRETE U-VALUE	LIGHT WEIGHT U-VALUE	CONCRETE U-VALUE	LIGHT WEIGHT U-VALUE	CONCRETE U-VALUE	LIGHT WEIGHT U-VALUE
Unfilled	0.301	0.215	0.318	0.235	0.4	0.305
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
One Factory Installed Insulation Insert	0.281	0.184	0.292	0.205	0.355	0.25
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
Two Factory Installed Insulation Inserts	0.261	0.16	0.267	0.182	-	-
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	-	-
One Factory & One 1 1/2" Field Installed	0.236	0.176	0.269	0.182	0.32	0.212
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
Two Factory & One 1 1/2" Field Installed	0.223	0.144	0.25	0.164	-	-
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	-	-
EPS Loose Fill Only - Field Installed	0.21	0.134	0.255	0.166	0.324	0.217
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
One Factory & EPS Loose Fill - Field Installed	0.209	0.132	0.254	0.165	0.322	0.213
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours

Castle Rock™ Block

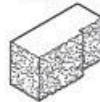
SHAPES AND SIZES



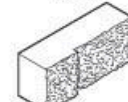
CASTLE ROCK™ BLOCK

CASTLE ROCK concrete masonry units bring your designs to life by producing four different shapes in each pair of block when laid in simple running bond. Sunlight or incandescent light showcases countless shadows and patterns on interior or exterior walls. CASTLE ROCK offers the ultimate blend of shadow and structure.

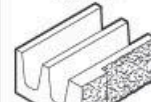
Special Corner



All Solid



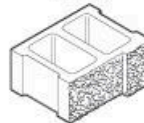
Bond Beam



FE/SS/Split



Stretcher



Unit Availability

CONFIGURATION	NOMINAL WIDTHS				
	4"	8"	12"	14"	16"
Stretcher	✓	✓	✓	✓	✓
Flush End/Sash/Splittable	✓	✓	✓	✓	✓
Bond Beam	✓	✓	✓	✓	✓
Double Flush End	✓	✓	✓	✓	✓
All Solid	✓	✓	✓	✓	✓
Corner Configurations	4" Corner	12" Long			

Contact your sales rep for: stocking and/or special order status, water repellent, integral color options, etc.

County Stone® Masonry Units

SHAPES AND SIZES



COUNTY STONE® MASONRY UNITS

COUNTY STONE® masonry units are crafted of concrete and offer a natural textured veneer with the timeless appeal of hand-cut stone.

COLOR AVAILABILITY

Units are available in solid colors and also in the Sussex™ blended color line, uniquely manufactured to produce blocks with integral color variations and marbling within each unit.

FULL VENEER PRODUCT PACKAGING

County Stone may be utilized in multiple patterns. This product is packaged and shipped with two different Layer Patterns (see Layer Pattern drawings). The designated installation pattern on the job site must be field assembled from the individual pallets. Any blending of multiple colors and sizes must be done on the job site by the contractor/mason.

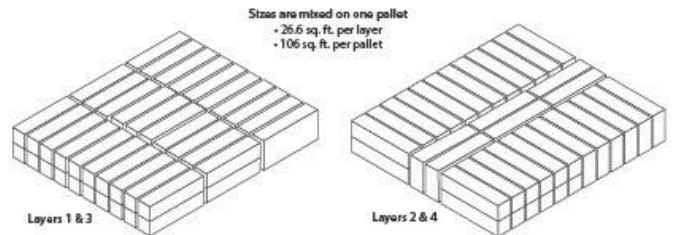
Also, depending on the chosen pattern and the project size, additional splitting may be required on the job site by the contractor/mason. Ask for information on calculating quantity of units needed per pattern.

County Stone® Masonry Units

SHAPES AND SIZES

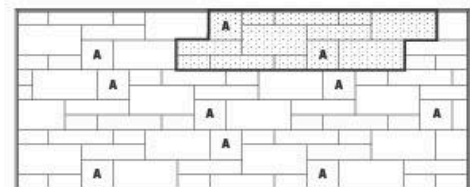


FULL VENEER PALLET LAYERS



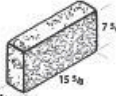
4) Full Sets of Pattern 2C (per layer)
plus (1) 8 x 16 & (2) 4 x 16

Random Pattern 2C



A = Field Cut

FULL VENEER UNITS

4" x 8" x 16" Regular Solid	4" x 4" x 16" Half Course Solid
	
7 1/2" 3 1/2" 15 1/2"	3 1/2" 15 1/2" 3 1/2"

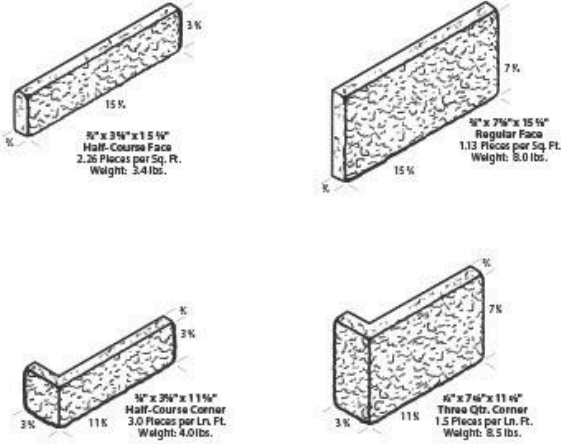
All supplied with water repellent.
Contact your local County Materials for product literature, samples and availability.
All dimensions nominal.

All dimensions nominal.

County Stone® Masonry Units

SHAPES AND SIZES

COUNTY STONE THIN VENEER UNITS

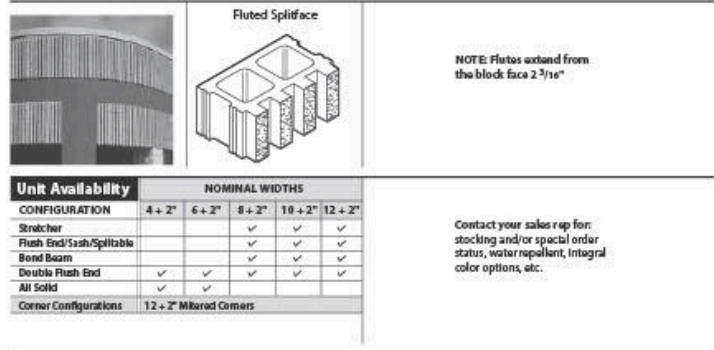


Fluted Block

SHAPES AND SIZES

FLUTED BLOCK

FLUTED concrete masonry units enhance exterior and interior walls with striking, vertical precast lines. The units emphasize major structural elements and richly elevate a large building to one that adds to and complements its surroundings. Unique to FLUTED units are the ribs that extend from the general wall surface to create increased projection and shadowing effect and give a building added distinction.



Unit Availability	NOMINAL WIDTHS				
CONFIGURATION	4 + 2"	6 + 2"	8 + 2"	10 + 2"	12 + 2"
Stretcher					
Flush End/Splice/Splitface					
Bond Beam					
Double Flush End					
All Solid					
Corner Configurations	12 + 2" Mitered Corners				

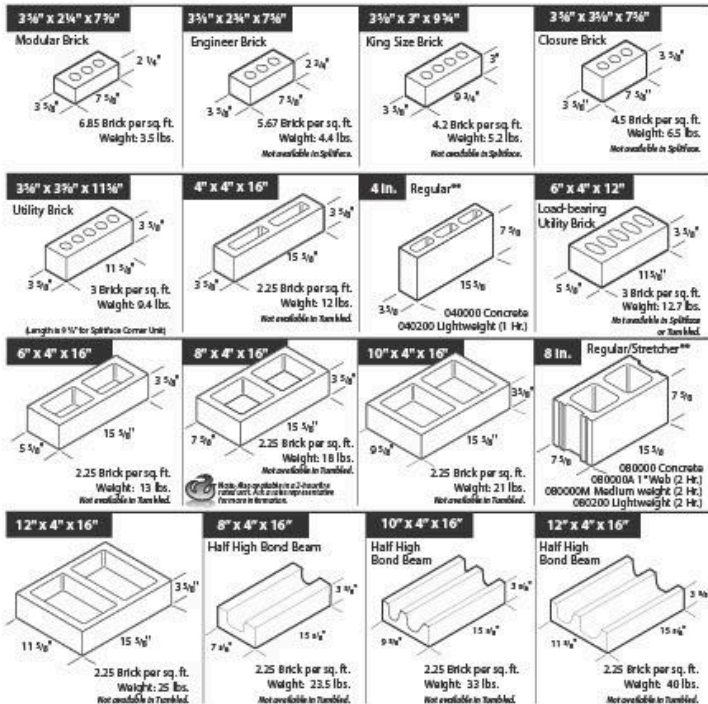
Contact your sales rep for:
stocking and/or special order
status, water repellent, integral
color options, etc.

Heritage Collection™ Designer Concrete Brick

SHAPES AND SIZES

HERITAGE COLLECTION™ LOAD-BEARING AND VENEER UNITS

Heritage Collection™ Designer Concrete Brick is available as either structural load-bearing or veneer units, and offer unmatched value by combining the aesthetics of brick with all the advantages of concrete masonry units.



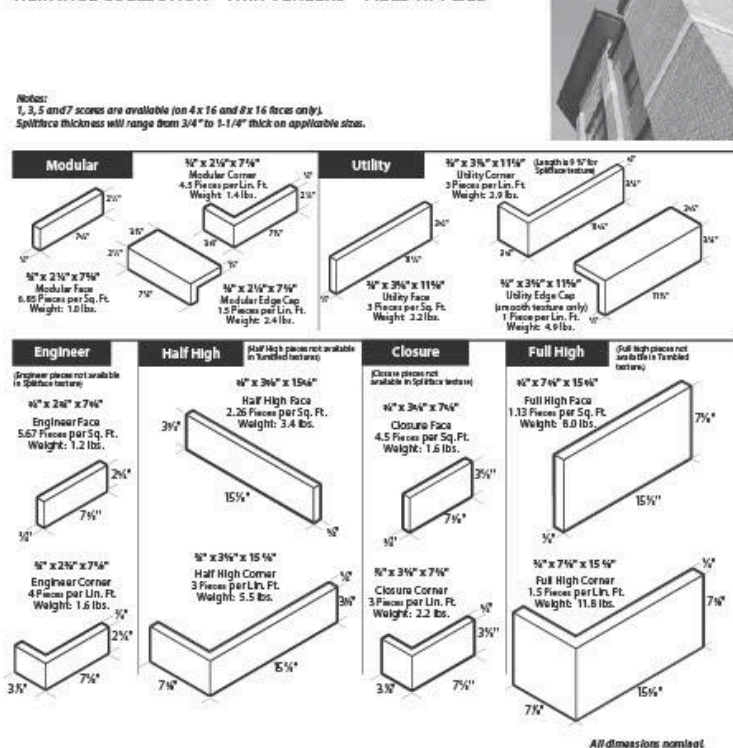
Available facing styles:
smooth, splitface
and tumbled

Contact your local County Materials for product literature, samples and availability.
Note: Not all brick immediately available at all County Materials locations.
All dimensions nominal.

Heritage Collection™ Designer Concrete Brick

SHAPES AND SIZES

HERITAGE COLLECTION™ THIN VENEERS – FIELD APPLIED



All dimensions nominal

Premier Ultra® Burnished Masonry Units

SHAPES AND SIZES

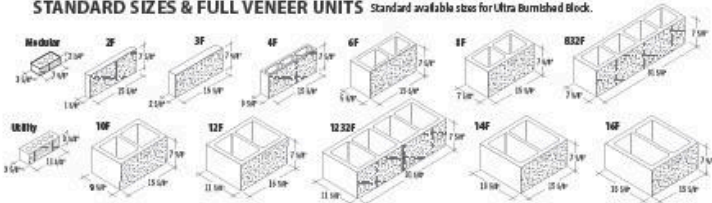


PREMIER ULTRA® BURNISHED MASONRY UNITS

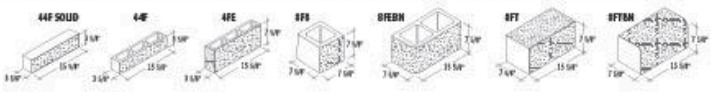
Premier Ultra Burnished Masonry Units provide design flexibility, superior performance, durability, and cost and time savings that replicate the appearance of polished stone or granite at a fraction of the cost.

STANDARD SIZES & FULL VENEER UNITS

Standard available sizes for Ultra Burnished Block.



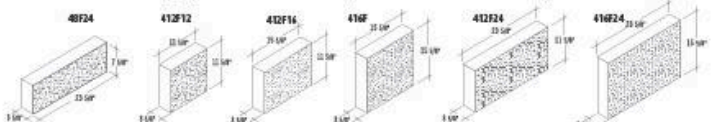
The following shapes, finishes, color arrangements, etc. are available for the standard sizes (2", 3", 4", 6", 8", 10", 12", 14" and 16") for the Ultra Burnished Block shown above.



The following shapes and finishes are available only for the sizes indicated, or as noted below the block.



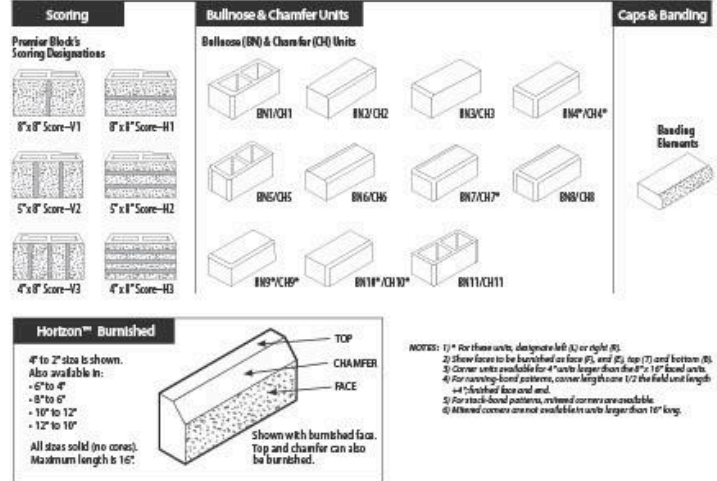
The following shapes are available with burnished tops and ends. A bullnose can be added (at top or end).



NOTES: 1) * For these units, designate left (L) or right (R).
2) Show face to be burnished on face (F), and (S), top (T) and bottom (B).
3) Corner units available for 4" units larger than the 4" x 16" bond units.
4) For running bond patterns, corner lengths are 1/2 the field unit length.
5) For stack bond patterns, corner lengths are 1/2 the field unit length.
6) Bullnose corners are not available in units larger than 16" long.

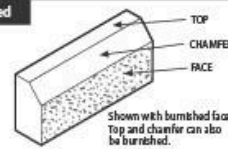
Premier Ultra® Burnished Masonry Units

SHAPES AND SIZES



Horizon™ Burnished

4" to 2" size is shown.
Also available in:
• 6" to 4"
• 8" to 6"
• 10" to 8"
• 12" to 10"
All sizes solid (no cores).
Maximum length is 16".



NOTES: 1) * For these units, designate left (L) or right (R).
2) Show face to be burnished on face (F), and (S), top (T) and bottom (B).
3) Corner units available for 4" units larger than the 4" x 16" bond units.
4) For running bond patterns, corner lengths are 1/2 the field unit length.
5) For stack bond patterns, corner lengths are 1/2 the field unit length.
6) Bullnose corners are not available in units larger than 16" long.

Ultra
BURNISHED MASONRY UNITS



All dimensions nominal.

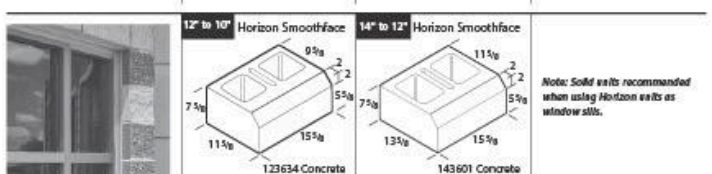
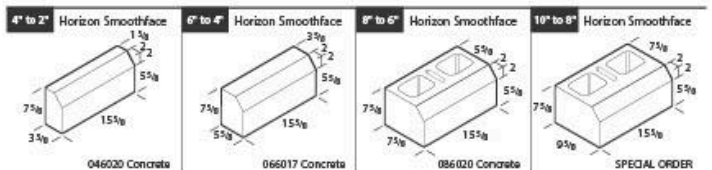
Horizon™ Smoothface Block

SHAPES AND SIZES



HORIZON™ SMOOTHFACE BLOCK

HORIZON's chamfered edging offers bold, dramatic accents and architectural interest to interior and exterior walls. Striking effects are achieved when Horizon units are utilized in designing water tables, wainscots, wall bases, cornices, sills and caps.



Note: Solid units recommended when using Horizon units as window sills.

Unit Availability	NOMINAL WIDTHS					
	4" to 2"	6" to 4"	8" to 6"	10" to 8"	12" to 10"	14" to 12"
Stretcher						
Flush End/Sash/Spillable						
Bond Beam*						
Double Flush End						
All Solid						
Corner Configurations	Field Mitred Corners					

Contact your sales rep for:
stocking and/or special order
status, water repellent, integral
color options, etc.

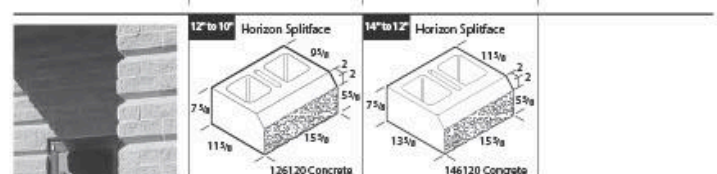
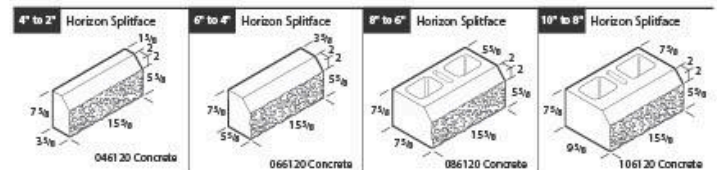
Horizon™ Splitface Block

SHAPES AND SIZES



HORIZON™ SPLITFACE BLOCK

HORIZON Splitface Block are a dramatic option for walls, corner detailing and column elements. Striking effects are also achieved when HORIZON Splitface block are incorporated into signage and entrance designs, or stacked with their bottom surfaces together to create a log cabin appearance.



Unit Availability	NOMINAL WIDTHS					
	4" to 2"	6" to 4"	8" to 6"	10" to 8"	12" to 10"	14" to 12"
Stretcher						
Flush End/Sash/Spillable						
Bond Beam*						
Double Flush End						
All Solid						
Corner Configurations	Field Mitred Corners					

Contact your sales rep for:
stocking and/or special order
status, water repellent, integral
color options, etc.

* Bond Beams only available with chamfer in the top pattern.

* Bond Beams only available with chamfer in the top pattern.

Reflection Stone® Masonry Units

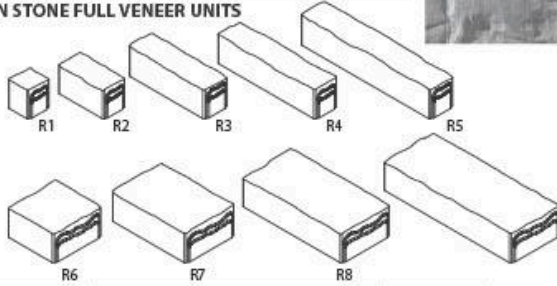
SHAPES AND SIZES



REFLECTION STONE® MASONRY UNITS

Reflection Stone mirrors the character and charm of natural stone, a timeless look that is still desired after centuries of use. Rich textures and alluring color blends impart an enchanting façade that affords the pure aesthetics of hand hewn stone.

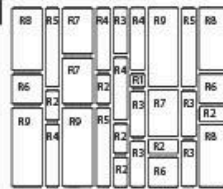
REFLECTION STONE FULL VENEER UNITS



Product	Size H x D x L (inches and mm)	Product	Size H x D x L (inches and mm)
Reflection Stone- R1	3 1/4 x 3 1/4 x 3 1/4 83 x 95 x 83	Reflection Stone- R6	7 x 3 1/4 x 7 178 x 95 x 178
Reflection Stone- R2	3 1/4 x 3 1/4 x 7 83 x 95 x 178	Reflection Stone- R7	7 x 3 1/4 x 10 1/4 178 x 95 x 273
Reflection Stone- R3	3 1/4 x 3 1/4 x 10 1/4 83 x 95 x 273	Reflection Stone- R8	7 x 3 1/4 x 14 1/2 178 x 95 x 369
Reflection Stone- R4	3 1/4 x 3 1/4 x 14 1/2 83 x 95 x 369	Reflection Stone- R9	7 x 3 1/4 x 18 1/4 178 x 95 x 464
Reflection Stone- R5	3 1/4 x 3 1/4 x 18 1/4 83 x 95 x 464		

SF/ Layer	SF/ Pallet	Lbs./ Pallet
13.5	81	3280

Pallet Layer

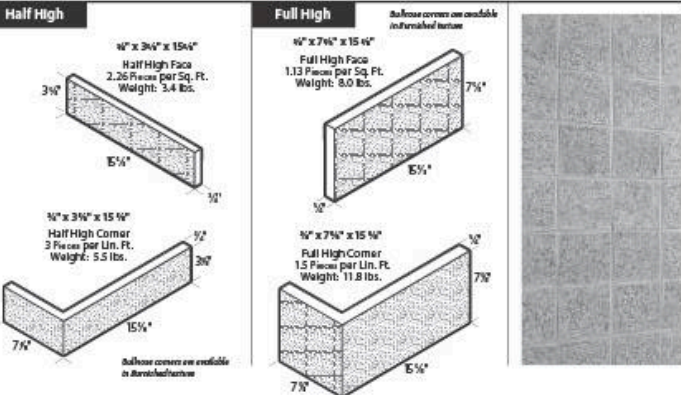


Premier Ultra® Burnished Masonry Units

SHAPES AND SIZES



PREMIER ULTRA® THIN VENEERS - FIELD APPLIED



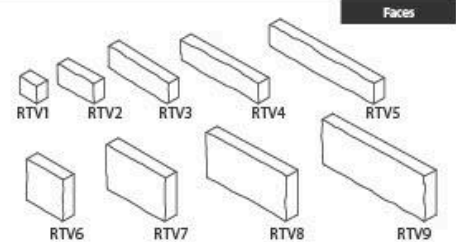
Reflection Stone® Masonry Units

SHAPES AND SIZES - FACES & CORNERS



REFLECTION STONE® THIN VENEERS - FIELD APPLIED

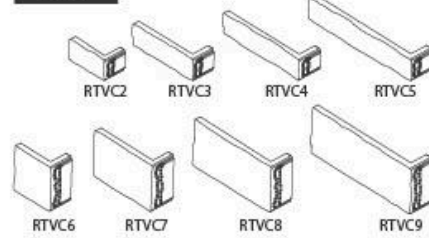
Product	Size H x D x L (inches and mm)
Reflection Stone Thin Veneer- RTV1	3 1/4 x 1 x 3 1/4 83 x 25 x 83
Reflection Stone Thin Veneer- RTV2	3 1/4 x 1 x 7 83 x 25 x 178
Reflection Stone Thin Veneer- RTV3	3 1/4 x 1 x 10 1/4 83 x 25 x 273
Reflection Stone Thin Veneer- RTV4	3 1/4 x 1 x 14 1/2 83 x 25 x 369
Reflection Stone Thin Veneer- RTV5	3 1/4 x 1 x 18 1/4 83 x 25 x 464
Reflection Stone Thin Veneer- RTV6	7 x 1 x 7 178 x 25 x 178
Reflection Stone Thin Veneer- RTV7	7 x 1 x 10 1/4 178 x 25 x 273
Reflection Stone Thin Veneer- RTV8	7 x 1 x 14 1/2 178 x 25 x 369
Reflection Stone Thin Veneer- RTV9	7 x 1 x 18 1/4 178 x 25 x 464



SF/ Layer	Layers/ Pallet	SF/ Pallet	Lbs./ Pallet
13.5	10	135	1474

* Reflection Stone GRAND thin veneer thickness will range from 3/4" to 1 1/4".

Corners



* Reflection Stone GRAND thin veneer thickness will range from 3/4" to 1 1/4".
** All Return Ends are 3 3/4" in depth.

LF/ Box	SF/ Box	Lbs./ Box
4.57	6.22	59

Product	Size H x D x L (inches and mm)
Reflection Stone Thin Veneer Corner- RTVC2	3 1/4 x 1 x 7 83 x 25 x 178
Reflection Stone Thin Veneer Corner- RTVC3	3 1/4 x 1 x 10 1/4 83 x 25 x 273
Reflection Stone Thin Veneer Corner- RTVC4	3 1/4 x 1 x 14 1/2 83 x 25 x 369
Reflection Stone Thin Veneer Corner- RTVC5	3 1/4 x 1 x 18 1/4 83 x 25 x 464
Reflection Stone Thin Veneer Corner- RTVC6	7 x 1 x 7 178 x 25 x 178
Reflection Stone Thin Veneer Corner- RTVC7	7 x 1 x 10 1/4 178 x 25 x 273
Reflection Stone Thin Veneer Corner- RTVC8	7 x 1 x 14 1/2 178 x 25 x 369
Reflection Stone Thin Veneer Corner- RTVC9	7 x 1 x 18 1/4 178 x 25 x 464

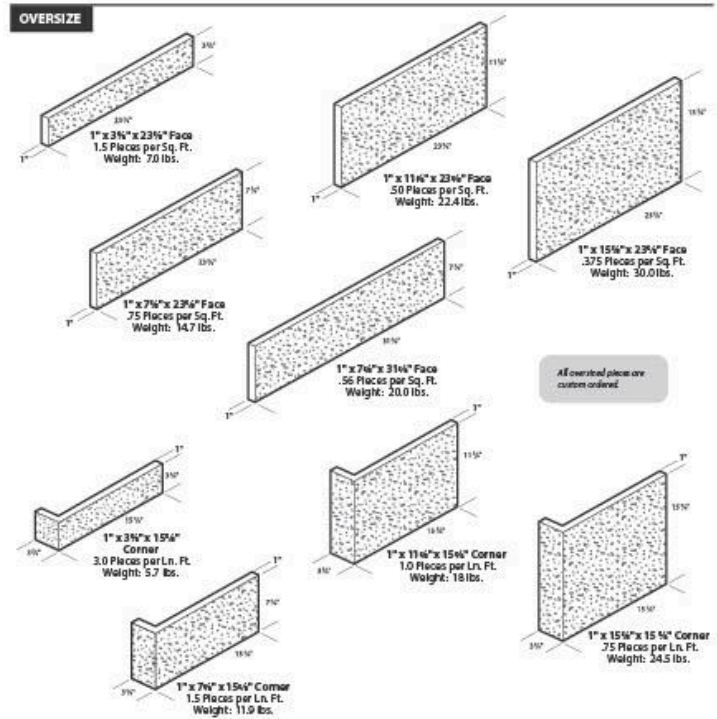
All dimensions are nominal.

Premier Ultra® Burnished Masonry Units

SHAPES AND SIZES



THIN VENEERS - FIELD APPLIED - OVERSIZE



All oversize pieces are custom ordered.

Reflection Stone GRAND® Masonry Units

SHAPES AND SIZES

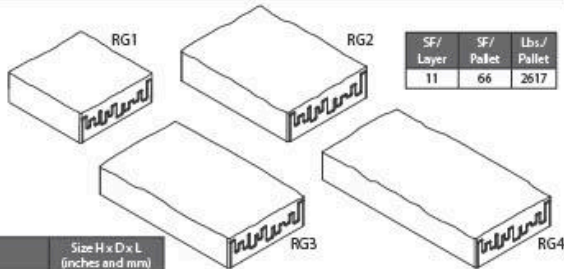


REFLECTION STONE GRAND® FULL VENEER



Left photo shown in GRAND only.
Right photo shows a combination of Reflection Stone® Masonry Units and Reflection Stone GRAND® Masonry Units with a random pattern.

Standard Units



SF/ Layer	SF/ Pallet	Lbs./ Pallet
11	66	2617

Product	Size H x D x L (inches and mm)
Reflection Stone GRAND- RG1	10 1/4 x 3 3/4 x 10 1/4 273 x 95 x 273
Reflection Stone GRAND- RG2	10 1/4 x 3 1/4 x 14 1/4 273 x 95 x 373
Reflection Stone GRAND- RG3	10 1/4 x 3 1/4 x 18 1/4 273 x 95 x 468
Reflection Stone GRAND- RG4	10 1/4 x 3 1/4 x 22 1/4 273 x 95 x 563

Pallet Layer



Reflection Stone GRAND® Masonry Units

SHAPES AND SIZES – FACES & CORNERS



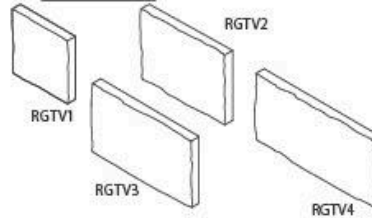
REFLECTION STONE GRAND® THIN VENEERS

Thin veneer pieces are custom order.
Contact your County Materials® representative for details.



Left photo shown in GRAND only.
Right photo shows a combination of Reflection Stone® Masonry Units and Reflection Stone GRAND® Masonry Units with a random pattern.

Faces

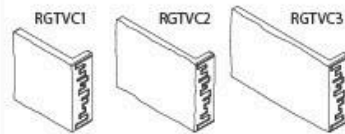


Product	Size H x D x L (inches and mm)
Reflection Stone GRAND Thin Veneer- RGTV1	10 1/4 x 1 x 10 1/4 273 x 25 x 273
Reflection Stone GRAND Thin Veneer- RGTV2	10 1/4 x 1 x 14 1/4 273 x 25 x 373
Reflection Stone GRAND Thin Veneer- RGTV3	10 1/4 x 1 x 18 1/4 273 x 25 x 468
Reflection Stone GRAND Thin Veneer- RGTV4	10 1/4 x 1 x 22 1/4 273 x 25 x 563

* Reflection Stone GRAND thin veneer thickness will range from 3/4" to 1 1/4".

SF/ Layer	Layers/ Pallet	SF/ Pallet	Lbs./ Pallet
11	10	110	1412

Corners



Product	Size H x D x L (inches and mm)
Reflection Stone GRAND Thin Veneer Corner- RGTVC1	10 1/4 x 1 x 10 1/4 273 x 25 x 273
Reflection Stone GRAND Thin Veneer Corner- RGTVC2	10 1/4 x 1 x 14 1/4 273 x 25 x 373
Reflection Stone GRAND Thin Veneer Corner- RGTVC3	10 1/4 x 1 x 18 1/4 273 x 25 x 468

* Reflection Stone GRAND thin veneer thickness will range from 3/4" to 1 1/4".

** All Return Ends are 3 3/4" in depth.

LF/ Box	SF/ Box	Lbs./ Box
5.53	8.69	90

Reflection Brick® Masonry Units

SHAPES AND SIZES



REFLECTION BRICK® FULL VENEER

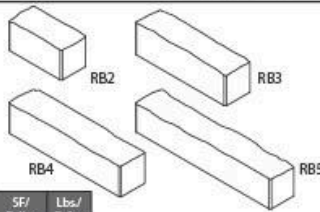
Thin veneer pieces are custom order.
Contact your County Materials® representative for details.



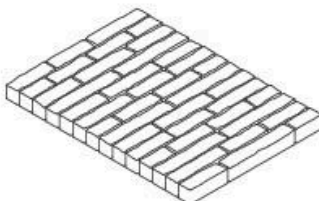
Standard Units

Product	Size H x D x L (inches and mm)
Reflection Brick- RB2	3 1/4 x 3 1/4 x 7 83 x 95 x 178
Reflection Brick- RB3	3 1/4 x 3 1/4 x 10 1/4 83 x 95 x 273
Reflection Brick- RB4	3 1/4 x 3 1/4 x 14 1/4 83 x 95 x 369
Reflection Brick- RB5	3 1/4 x 3 1/4 x 18 1/4 83 x 95 x 464

SF/ Layer	SF/ Pallet	Lbs./ Pallet
13.33	80	2940



Pallet Layer



All dimensions nominal

Scored Smooth Block

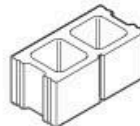
SHAPES AND SIZES



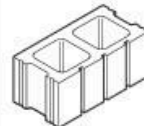
SCORED SMOOTH BLOCK

Whether they're used as horizontal accent bands or to clad exterior and interior walls, SCORED SMOOTH BLOCK lend a rich façade of uniformly clean, modern lines. When orchestrated in combination with highly textured Fullface Split masonry, the contrasting flat surfaces of SCORED SMOOTH BLOCK offer an attractive and interesting solution for commercial, industrial and residential architecture. Several score options are available, including: 3/8" square score, 3/8" small "V" score and 3/8" round score. Call for availability.

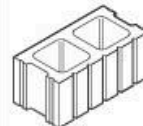
1 Score – 3/8" Square



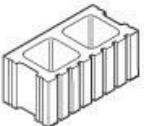
3 Score – 3/8" Square



5 Score – 3/8" Small V



7 Score – 3/8" Square



Unit Availability

CONFIGURATION	4"	6"	8"	10"	12"	14"	16"
Stretcher	✓	✓	✓	✓	✓	✓	✓
Flush End/Sash/Splitable	✓	✓	✓	✓	✓	✓	✓
Bond Beam	✓	✓	✓	✓	✓	✓	✓
Double Flush End	✓	✓	✓	✓	✓	✓	✓
All Solid	✓	✓	✓	✓	✓	✓	✓
Half Block – 8" Long	✓	✓	✓	✓	✓	✓	✓
Half High – 4" High	✓	✓	✓	✓	✓	✓	✓
Corner Configurations	8" Return corner	4" Corner	15 1/4" Long				

Random Score – 3/8" Square



Score Options

3/8" Square Score



Available Scores: 1, 3, 5, 7

3/8" Small V Score



Available Scores: 1, 3, 5, 7

3/8" Round Score



1/4" Deep Available Scores: 1
1/8" Deep Available Scores: 1, 3, 5

* Depth of scores vary by manufacturing location. Contact your local County Materials representative for information.
Contact your sales rep for: stocking and/or special order status, water repellent, integral color options, etc.

Note: Not all block immediately available at all County Materials locations. All dimensions nominal.

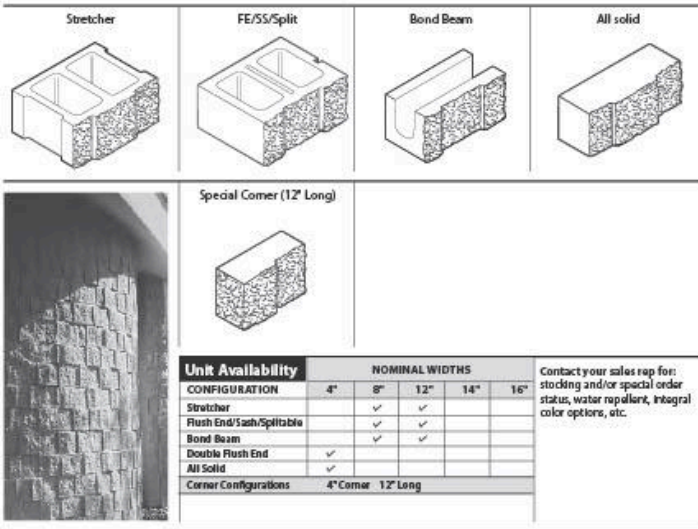
Shadow Stone™ Block

SHAPES AND SIZES



SHADOW STONE™ BLOCK

SHADOW STONE casts a vivid, rich texture on exposed exterior and interior settings. Non-uniform in shape when laid in simple running bond, SHADOW STONE conveys a rugged, stone-like appearance, reading like handcrafted masonry. Every two blocks produce six shape. Variable depth splitting produces the block's smaller scale to capture the exciting effects of sunlight and shadow.



Splitface Concrete Masonry Units

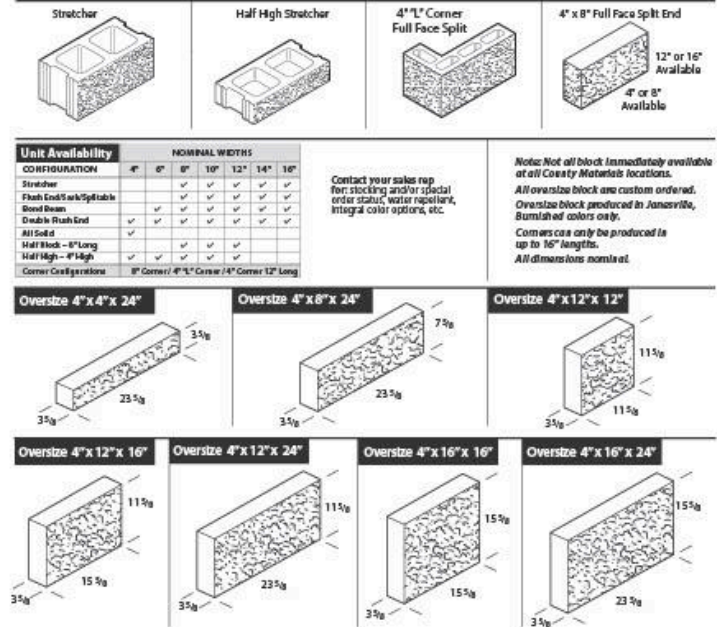
SHAPES AND SIZES



SPLITFACE CONCRETE MASONRY UNITS

SPLITFACE masonry units lend a refined beauty of hewn, chiseled stone to architecture – qualities that convey permanence and stability. The randomly textured face and rugged pattern of split units creates an ever-changing visual scenery on buildings throughout the day. SPLITFACE masonry is a durable yet versatile design option for commercial, industrial, institutional and residential construction.

SPLITFACE LOAD-BEARING & FULL VENEER UNITS



Splitface Concrete Masonry Units

SHAPES AND SIZES

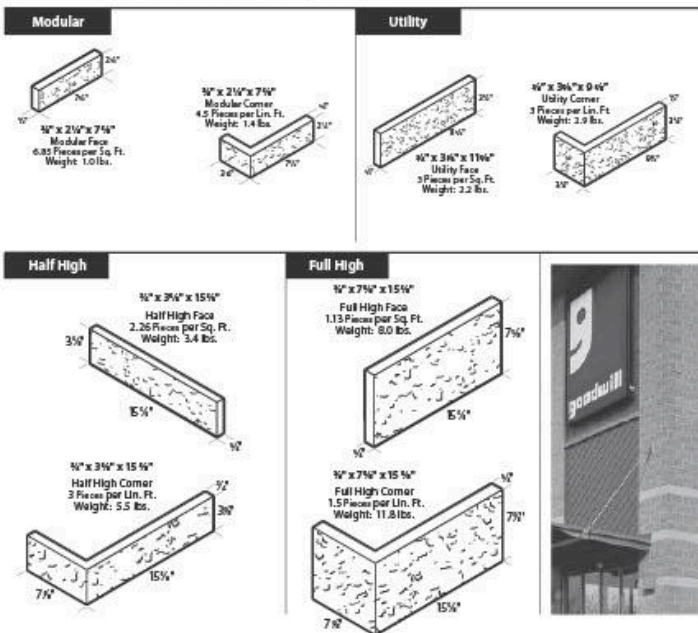


Splitface Concrete Masonry Units with Score(s)

SHAPES AND SIZES

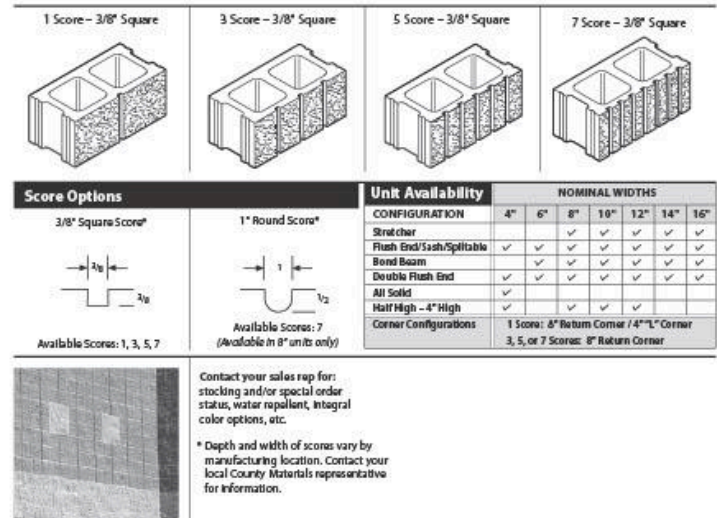


SPLITFACE THIN VENEERS – FIELD APPLIED



SPLITFACE / ROCKFACE BLOCK WITH SQUARE OR ROUND SCORE(S)

Present symmetrical lines and formality to walls with tooled scored splitface units. SCORED SPLITFACE are divided into 2, 4, 6 or 8 vertical split ribbed sections. These ribs are proportioned for vertical alignment in either a running or stacked bond placement. Call for availability.



Mortar and Cement Mixes



ALL TABLES PROVIDED ARE INTENDED AS A "RULE OF THUMB" ONLY.

MORTAR MIX & USE SELECTION:

1 PART MORTAR, 3 PARTS MASON SAND OR
9 BAGS OF MORTAR TO ONE CUBIC YARD OF MASON SAND

Number of Block per Bag of Mortar:

45 to 50 concrete block	(4" or 6" regular)
35 to 40 concrete block	(8" regular)
35 to 40 concrete block	(12" regular)

Number of Modular Brick per Bag of Mortar:
Approximately 125 brick

DO NOT use Masonry Cements for producing concrete.

C 270- 14a

TABLE X1.1 Guide for the Selection of Masonry Mortars

Mortar Type			
Location	Building Segment	Recommended	Alternative
Exterior, above grade	Load-bearing wall	N	S or M
	Non-load-bearing wall	O*	N or S
Exterior, at or below grade	Parapet wall	N	S
	Foundation wall, retaining wall, manholes, sewers, pavements, walks, and patios	S*	M or N*
Interior	Load-bearing wall	N	S or M
	Non-load-bearing partitions	O	N
Interior or Exterior	Tuckpointing	Refer to C270-14a (Appendix X3)	

A. This table does not provide for many specialized mortar uses, such as chimney, reinforced masonry, and acid-resistant mortars.
B. Type O mortar is recommended for use where the masonry is unlikely to be frozen when saturated, or unlikely to be subjected to high winds or other significant lateral loads. Type N or S mortar should be used in other cases.
C. Masonry exposed to weather in a nominally horizontal surface is extremely vulnerable to weathering. Mortar for such masonry should be selected with due caution.

TYPICAL STUCCO MIXES: Measured in Parts

	Portland Cement	Hydrated Lime	Plaster Sand
Scratch Coat	1	1	6
Brown Coat	1	1	7.5
Finish Coat	1	2	9

(1) CUBIC FOOT BAG WEIGHTS

Portland Cement	(94 lb. bag)
Lime	(50 lb. bag)
M =	80 lbs.
S =	75 lbs.
N =	70 lbs.

DO NOT use Masonry Cements for producing concrete.

TYPICAL CONCRETE MIX:

Portland Cement	(94 lb. bag)
Concrete Sand	(235 lbs.)
3/4" to 1" Rock	(259 lbs.)

This concrete mix will yield 3.5 to 3.75 cubic feet of concrete (27 cubic feet = 1 cubic yard)

$$\text{Cubic Feet} = \text{Length (ft.)} \times \text{Width (ft.)} \times \left(\frac{\text{Thickness (in.)}}{12} \right)$$

Cubic Yards = $\frac{\text{Cubic Feet}}{27}$

• Do not use excessive water in your concrete mix! Excessive water will reduce the strength of the concrete and its durability.
• Curing of the concrete is very important and must be started immediately after the finishing of the surface.
• Sealing of the concrete surface is also important. Sidewalks, patios and driveways should be sealed to prevent surface deterioration. Contact County Materials Corporation for recommended curing and sealing products.

SAND & MORTAR CEMENT - VOLUMES/ RATIOS:

Yard/Cubic Foot Volume				
Mason Sand: (1) cu. yd. = 27 cu. ft. = approx. 2,700 lbs. = 1.35 Ton				
Mortar/Masonry Cements: (1) bag = (1) cu. ft.				
Mason sand ratio: and a minimum of 3-1/4 to a maximum of 3 times the volume of cement materials.				
Sand to Mortar				
1100 7 bags				
300 lbs. 1 bag				
Mortar Type Proportions (Cement : Lime : sand)				
M	S	N	O	K
1:0.25:3.75	1:0.5:4.5	1:1:6	1:2:9	1:3:12

Calculating Quantities



MORTAR PREMIX M,S,N

MORTAR ESTIMATING CHART FOR 80LB. BAG

Masonry Units	Yield Per 80 lb. Bag	No. of Bags Per 1,000 Units
Modular Brick	40	25
Queen Sized Brick	34	30
King Sized Brick	27	37
Utility Brick	16	63
4" Block	12	83
6" Block	12	83
8" Block	11	90
10" Block	11	90
12" Block	10	100

CORE FILL GROUT

Estimating Chart for 80lb. Bag

Masonry Units	Bags Required per 100 sq. ft.
4"	14
6"	35
8"	47
12"	80

NUMBER OF BLOCK PER (5) FT² BAG OF POLYSTYRENE BEADS:

	Compacted Block/Bag	Loose Block/Bag
8" Regular	18	23
8" Thermal	22	28
8" Thermal 1 Stuffer	37	40
12" Regular	11	15
12" Thermal	11	15
12" Thermal 1 Stuffer	14	19
12" Thermal 2 Stuffers	18	23

NUMBER OF CLAY BRICK PER SQ. FT.*:

	W x H x L in Inches	Sq. Ft. Mult. by
Modular	3 5/8 x 2 1/4 x 7 5/8	6.86
Standard	3 5/8 x 2 1/4 x 8	6.55
Roman	3 1/2 x 1 5/8 x 11 3/4	6.00
Oversize/Scotty/Queen/Engineer	3 1/2 x 2 3/4 x 7 5/8	5.76
Fitness, Builders Special	3 x 2 1/4 x 8 1/4	5.05
Kingsize	3 1/4 x 2 1/4 x 9 3/4	4.8
Norman	3 5/8 x 2 1/4 x 11 3/4	4.57
Engineer, Kingsize	3 x 2 3/4 x 9 3/4	4.52
Closure, Economy	3 5/8 x 3 5/8 x 7 5/8	4.55
Utility	3 5/8 x 3 5/8 x 11 3/4	3.00

NUMBER OF CONCRETE BLOCK PER SQ. FT.*:

	Square Feet Multiplied by
Concrete Block (8"x16" face)	1.125

HERITAGE COLLECTION DESIGNER SERIES:

CONCRETE BRICK* (see page 76)	W x H x L in Inches	No. Required per Sq. Ft.
Modular	3 5/8 x 2 1/4 x 7 5/8	6.85
Engineer	3 5/8 x 2 3/4 x 7 5/8	5.67
King	3 5/8 x 3 x 9 3/4	4.2
Closure	3 5/8 x 3 5/8 x 7 5/8	4.5
Utility	3 5/8 x 3 5/8 x 11 3/4	3
Half High	3 5/8 x 3 5/8 x 15 3/4	2.25

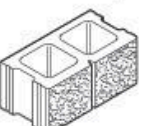
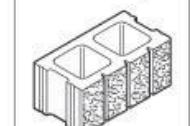
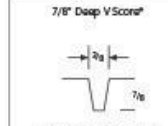
For metric conversions, refer to the tables on page 105.

* Includes mortar joint

Splitface Concrete Masonry Units with Score(s)



SPLITFACE / ROCKFACE BLOCK WITH DEEP V SCORE(S)

1 Score - 7/8" Deep V  Unit Availability <table> <tr> <th>CONFIGURATION</th> <th>4"</th> <th>6"</th> <th>8"</th> <th>10"</th> <th>12"</th> <th>14"</th> <th>16"</th> </tr> <tr> <td>Stretcher</td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>Flush End/Sash/Splitable</td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>Band Beam</td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>All Solid</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Corner Configurations</td> <td colspan="7"> 1 Score: 8" Return Corner / 4" x 16" Corner 3, 5, or 7 Scores: 8" Return Corner </td> </tr> </table>	CONFIGURATION	4"	6"	8"	10"	12"	14"	16"	Stretcher			✓		✓			Flush End/Sash/Splitable			✓		✓			Band Beam			✓		✓			All Solid	✓							Corner Configurations	1 Score: 8" Return Corner / 4" x 16" Corner 3, 5, or 7 Scores: 8" Return Corner							3 Score - 7/8" Deep V 	5 Score - 7/8" Deep V  Contact your sales rep for: stocking and/or special order status, water repellent, integral color options, etc. * Depth and width of scores vary by manufacturing location. Contact your local Country Materials representative for information.	Score Options 7/8" Deep V Score*  Available Scores: 1, 3, 5
CONFIGURATION	4"	6"	8"	10"	12"	14"	16"																																												
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Flush End/Sash/Splitable			✓		✓																																														
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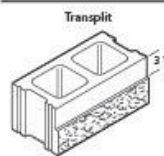
* Depth and width of score vary by manufacturing location. Contact your local County Materials representative for information.

Transplit® Block



TRANSPLIT® BLOCK

Fullface split and smooth face units are uniquely combined in one unit. TRANSPLIT BLOCK allow roof flashing to be installed against a smooth surface for water penetration integrity, while maintaining the aesthetic features of your building. TRANSPLIT BLOCK can also be used to create accent bands.



Unit Availability							
CONFIGURATION	4"	6"	8"	10"	12"	14"	16"
Stretcher			✓	✓	✓		
Flush End/Sash/Splitable			✓	✓	✓		
Band Beam			✓	✓	✓		
Double Flush End	✓	✓	✓	✓	✓		
Corner Configurations	Field Mixed Corners						

Contact your sales rep for: stocking and/or special order status, water repellent, integral color options, etc.

Technical and Delivery Data



NOMINAL BLOCK SIZE & DESCRIPTION width x height x length	STANDARD CONCRETE BLOCK				STANDARD LIGHTWEIGHT BLOCK			
	STOCK NO.	AVERAGE WT. PER BLOCK*	NO. BLOCK PER PALLET*	FIRE RATING*	STOCK NO.	AVERAGE WT. PER BLOCK*	NO. BLOCK PER PALLET*	FIRE RATING*
CONCRETE BRICK	150100	4	768	-	-	-	-	-
2 x 8 x 16 Solid (Soaps)	150135	15	225	-	-	-	-	-
3 x 8 x 16 Solid	150150	27	135	-	-	24	135	1 Hr.
4 x 8 x 16 REGULAR	040000	25	150	-	040200	18	150	1 Hr.
4 x 8 x 16 Solid	040054	35	120	1 Hr.	040254	26	120	2 Hrs.
4 x 4 x 16 Half Course	040008	12	341	-	040208	9	341	-
4 x 8 x 8 Half Block	040002	13	300	-	040202	10	300	-
6 x 8 x 16 REGULAR	060000	28	120	1 Hr.	060200	20	120	1 Hr.
6 x 8 x 16 Solid	060054	54	60	3 Hrs.	060254	40	60	4 Hrs.
6 x 4 x 16 Half Course	060008	14	260	-	060208	10	260	-
6 x 8 x 8 Half Block	060002	15	200	-	060202	11	200	-
8 x 8 x 16 REGULAR	080000	38	90	1 Hr.	080200	28	90	2 Hrs.
8 x 8 x 16 Medium	080000M	33	90	2 Hrs.	-	-	-	-
8 x 8 x 16 Special 2 Hr. Fire	080040	43	90	2 Hrs.	-	-	-	-
8 x 8 x 16 Solid	080055	78	45	4 Hrs.	-	-	-	-
8 x 8 x 16 Firewall 3 Hr. Fire	080045	56	60	3 Hrs.	-	-	-	-
8 x 8 x 16 - 75% Solid	-	-	-	-	080250	47	75	4 Hrs.
8 x 4 x 16 Half Course	080008	19	195	-	080208	14	195	-
8 x 8 x 4 Quarter Block	080001	19	210	-	080201	14	210	-
8 x 8 x 8 Half Block	080002	20	180	-	080202	16	180	-
8 x 8 x 12 Three Quarter Block	080003	33	120	-	080203	24	120	-
10 x 8 x 16 REGULAR	100000	45	78	2 Hrs.	100200	33	78	3 Hrs.
10 x 4 x 16 Half Course	100008	23	160	-	100208	17	160	-
10 x 8 x 4 Quarter Block	100001	24	182	-	100201	17	182	-
10 x 8 x 8 Half Block	100002	24	156	-	100202	18	156	-
10 x 8 x 12 Three Quarter Block	100003	36	102	-	100203	26	102	-
12 x 8 x 16 REGULAR	120000	50	60	2 Hrs.	120200	36	60	4 Hrs.
12 x 8 x 16 Medium	120000M	43	60	3 Hrs.	-	-	-	-
12 x 8 x 16 Firewall 3 Hr. Fire	120045	59	65	3 Hrs.	-	-	-	-
12 x 8 x 16 Firewall 4 Hr. Fire	120050	66	55	4 Hrs.	-	-	-	-
12 x 4 x 16 Half Course	120008	25	120	-	120208	18	120	-
12 x 8 x 4 Quarter Block	120001	26	140	-	120201	20	140	-
12 x 8 x 8 Half Block	120002	26	130	-	120202	20	130	-
12 x 8 x 12 Three Quarter Block	120003	40	60	-	120203	28	60	-
14 x 8 x 16 REGULAR	140000	60	54	3 Hrs.	***	46	54	4 Hrs.
16 x 8 x 16 REGULAR	160000	68	45	4 Hrs.	***	51	45	4 Hrs.

Conversions



LENGTH EQUIVALENTS

UNIT	MILLIMETERS	CENTIMETERS	INCHES	FEET	YARDS	METERS
1 MM =	1.00	.10	.03937	.003281	.001094	.001
1 CM =	10.00	1.00	.3937	.032808	.010936	.01
1 INCH =	25.4001	2.54001	1.00	.083333	.027778	.025400
1 FOOT =	304.801	30.4801	12.00	1.00	.333333	.304801
1 YARD =	914.402	91.4402	36.00	3.00	1.00	.914402
1 METER =	1000.00	100.00	39.37	3.28083	1.09361	1.00

WEIGHT EQUIVALENTS

UNIT	GRAINS	GRAMS	OUNCES (TROY)	OUNCES (AVOIR.)	POUNDS (TROY)	POUNDS (AVOIR.)	KILOGRAMS (AVOIR.)
1 GRAIN =	1.00	.064799	.002083	.002286	.000179	.000143	.000065
1 GRAM =	15.4324	1.00	.032151	.035274	.002268	.002205	.001
1 OUNCE (TROY) =	480.00	31.1035	1.00	1.09714	.083333	.068571	.031104
1 OUNCE (AVOIR.) =	437.5	28.3495	.911458	1.00	.075955	.0625	.028350
1 POUND (TROY) =	5,760.00	373.242	12.00	13.1657	1.00	.822857	.373242
1 POUND (AVOIR.) =	7,000.00	453.592	14.5833	16.00	1.21528	1.00	.453592
1 KILOGRAM =	15,432.4	1,000.00	32.1507	35.2740	2.67923	2.20462	1.00

VOLUME AND CAPACITY EQUIVALENTS

UNIT	CUBIC CENTIMETERS	CUBIC INCHES	LITERS	QUARTS (LIQUID)	QUARTS (DRY)	GALS (LIQUID)	GALS (DRY)	CUBIC FEET
1 CU. CENTIMETER =	1.00	.06102	.001	.00106	.00091	.00026	.00023	.00004
1 CU. INCH =	16.387	1.00	.01639	.01732	.01488	.00433	.00372	.00058
1 GILL =	118.29	7.2188	.11829	.125	.10742	.03125	.02686	.00418
1 PINT (LIQUID) =	473.18	28.875	.47318	.50	.42968	.125	.10742	.01671
1 PINT (DRY) =	550.62	33.600	.55062	.58182	.50	.14546	.125	.01945
1 LITER =	1,000.00	61.023	1.00	1.0567	.90608	.26417	.22702	.03531
1 QUART (LIQUID) =	946.36	57.75	.94636	1.00	.85937	.25	.21484	.03242
1 QUART (DRY) =	1,101.20	67.201	1.1012	1.1637	1.00	.29091	.25	.03889
1 GALLON (LIQUID) =	3,785.4	231.00	3.7854	4.00	3.4375	1.00	.85937	.13368
1 GALLON (DRY) =	4,404.9	268.80	4.4049	4.6546	4.00	1.1636	1.00	.15556
1 PECK =	8,809.8	537.61	8.8098	9.3092	8.00	2.3273	2.00	.31111
1 CU. FOOT =	28,317.0	1,728.00	28.317	20.922	25.714	7.4805	6.4285	1.00
1 BUSHEL =	35,239.3	2,150.4	35.239	27.237	32.00	9.3092	8.00	1.2445
1 BARREL =	119,241.2	7,276.5	119.24	126.00	108.20	31.50	27.070	4.2109
1 CU. YARD =	764,550.4	46,656.00	764.56	867.80	694.28	201.97	173.57	27.00
1 CU. METER =	1,000,000.00	61,023.4	1,000.00	1,056.7	908.08	264.17	227.02	35.314

Estimating Guides



ALL TABLES SHOWN BELOW ARE INTENDED AS A "RULE OF THUMB" ONLY.

REGULAR BLOCK	
UNIT QUANTITIES	APPROXIMATE VOLUME REQUIRED TO FILL CORE Voids IN BLOCK
Standard Block (8" high x 16" long) - (nominal dimensions) 1.125 block per square foot of wall area	6 x 8 x 16 2 core 0.19 cu. ft./block or 46% void
Concrete Brick Kings = 42 brick per square foot of wall area	8 x 8 x 16 2 core 0.27 cu. ft./block or 47% void
Utility = 3 brick per square foot of wall area	10 x 8 x 16 2 core 0.37 cu. ft./block or 52% void
Half-high Block (4" high x 16" long) 2.25 block per square foot of wall area	12 x 8 x 16 2 core 0.48 cu. ft./block or 56% void
	14 x 8 x 16 2 core 0.55 cu. ft./block or 55% void
	16 x 8 x 16 2 core 0.64 cu. ft./block or 55% void
Calculation example: 5,000 - 8" block to be filled: 5,000 x 0.27 = 1,350 cu. ft. ÷ 27 cu. ft. per cu. yard = 50 cu. yards	

BOND BEAM & LINTEL BLOCK																	
APPROXIMATE VOLUME OF GROUT REQUIRED TO FILL BOND BEAMS AND LINTELS																	
 6" BOND BEAM	 8" BOND BEAM																
 10" BOND BEAM	 12" BOND BEAM																
 6" LINTEL - K/O/OUTS	 8" LINTEL - K/O/OUTS																
 12" LINTEL - K/O/OUTS	<table> <tr> <th colspan="2">CUBIC FEET AND % VOID TO FILL ONE BLOCK</th></tr> <tr> <td>6" Bond Beam</td><td>0.16 cu. ft. / 39% void</td></tr> <tr> <td>8" Bond Beam</td><td>0.20 cu. ft. / 37% void</td></tr> <tr> <td>10" Bond Beam</td><td>0.27 cu. ft. / 39% void</td></tr> <tr> <td>12" Bond Beam</td><td>0.33 cu. ft. / 41% void</td></tr> <tr> <td>6" Lintel</td><td>0.19 cu. ft. / 47% void</td></tr> <tr> <td>8" Lintel</td><td>0.32 cu. ft. / 58% void</td></tr> <tr> <td>12" Lintel</td><td>0.56 cu. ft. / 67% void</td></tr> </table>	CUBIC FEET AND % VOID TO FILL ONE BLOCK		6" Bond Beam	0.16 cu. ft. / 39% void	8" Bond Beam	0.20 cu. ft. / 37% void	10" Bond Beam	0.27 cu. ft. / 39% void	12" Bond Beam	0.33 cu. ft. / 41% void	6" Lintel	0.19 cu. ft. / 47% void	8" Lintel	0.32 cu. ft. / 58% void	12" Lintel	0.56 cu. ft. / 67% void
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All dimensions nominal

Fire Resistance Ratings



INTERNATIONAL BUILDING CODE

Table 721.3.2
Minimum Equivalent Thickness (Inches) of Bearing or Nonbearing Concrete Masonry Walls ^{a, b, c, d}

TYPE OF AGGREGATE	FIRE-RESISTANCE RATING (hours)															
	1/2	3/4	1.0	1-1/4	1-1/2	1-3/4	2.0	2-1/4	2-1/2	2-3/4	3.0	3-1/4	3-1/2	3-3/4	4.0	4.5
Pumice or expanded slag	1.5	1.9	2.1	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.5	4.7	
Expanded shale, clay or slate	1.8	2.2	2.6	2.9	3.3	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	4.9	5.1	
Limestone, chert or unexpanded slag	1.9	2.3	2.7	3.1	3.4	3.7	4.0	4.3	4.5	4.8	5.0	5.2	5.5	5.7	5.9	
Calcium or siliceous gravel	2.0	2.4	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.8	6.0	6.2	

For St 1 inch - 2.54 mm

a. Values between those shown in the table can be determined by direct interpolation.

b. Where combustible members are framed into the wall, the thickness of solid material between the end of each member and the opposite face of the wall, or between members set in from opposite sides, shall not be less than 93 percent of the thickness shown in the table.

c. Requirements of ASTM C 55, ASTM C 73 or ASTM C 90 shall apply.

d. Minimum required equivalent thickness corresponding to the hourly fire-resistance rating for units with a combination of aggregate shall be determined by linear interpolation based on the percent by volume of each aggregate used in manufacture.

All dimensions nominal