

(REF. DETAIL BIOFLEX NATURA - E-1)

FACTOR

EXPANSION JOINTS 1" TO 2" IN WIDTH AND MAX. 25% MOVEMENT ACCOMMODATION **FACTOR** (REF. DETAILS BIOFLEX NATURA - E-2)

BIOFLEX NATURA/VISCO

AT VERTICAL

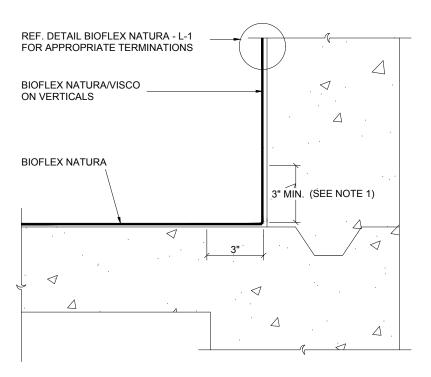
BIOFLEX NATURA

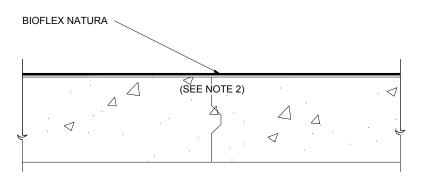
TRANSITIONS

NOTES: FOR EXPANSION JOINTS GREATER THAN 2", EXPANSION JOINTS ANTICIPATING GREATER THAN 25% MOVEMENT ACCOMMODATION FACTOR AND FOR SEISMIC EXPANSION JOINTS, THE USE OF PRE-FABRICATED, PROPRIETARY JOINT SYSTEMS SHOULD BE CONSIDERED.



Project: XXXXX			Sheet Number:	File Name:
Detail: General Concrete Crack & Joint Treatment				BIOFLEX NATURA - A-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/22/2022	Λ-1

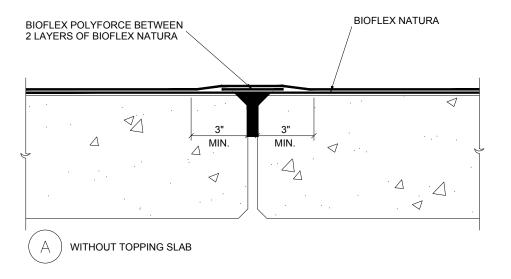


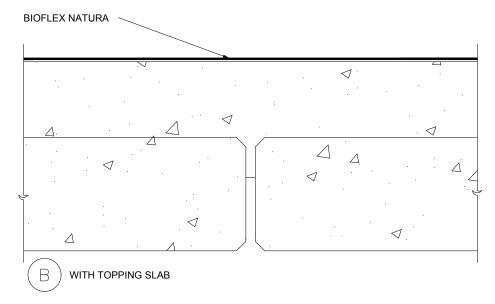


- 1. BIOFLEX NATURA/VISCO ARE EXTENDED AS A CONTINUOUS FLASHING AS HIGH AS THE OVERBURDEN LEVEL.
- 2. ADDITIONAL REINFORCEMENT NOT REQUIRED AT TYPICAL CONSTRUCTION/CONTROL JOINTS.

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Project: XXXXX			Sheet Number:	File Name:
Detail: Concrete Construction Joint				BIOFLEX NATURA - B-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/22/2022]

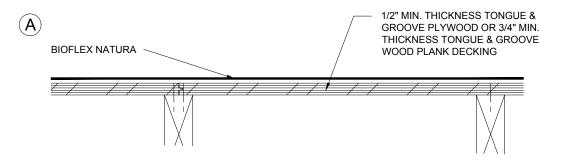


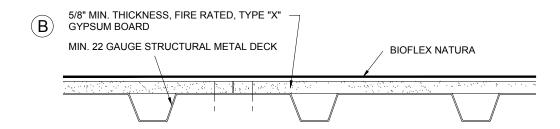


- 1. JOINTS MUST BE GROUTED OR CAULKED FLUSH
- 2. JOINT FILLING REQUIRED PRIOR TO APPLICATION OF MEMBRANE ASSEMBLY



Project: XXXXX			Sheet Number:	File Name:
Detail: Precast Concrete Plank/Panel Joint Treatment				BIOFLEX NATURA - C-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/15/2022	.

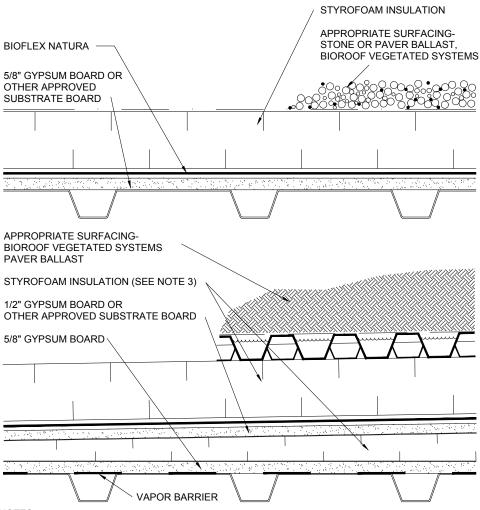




1. ADEQUATE STRUCTURAL SUPPORTS AND THE NUMBER AND TYPE OF FASTENERS REQUIRED TO COMPLY WITH APPLICABLE CODES, SHOULD BE DETERMINED AND VERIFIED BY PROJECT ARCHITECT/ENGINEER.



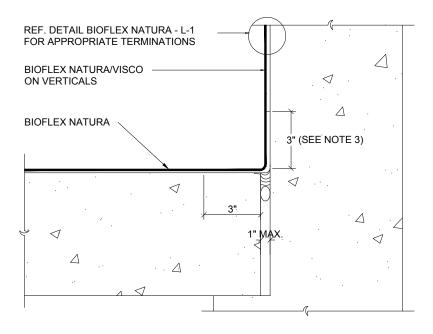
Project: XXXXX			Sheet Number:	File Name:
Detail: Alternate Substrate Applications				BIOFLEX NATURA - D-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/10/2022	5 '

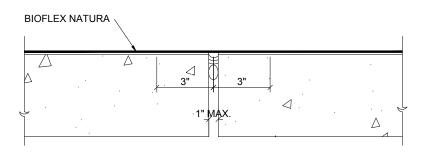


- ADEQUATE STRUCTURAL SUPPORTS AND THE NUMBER AND TYPE OF FASTENERS
 REQUIRED TO COMPLY WITH APPLICABLE CODES, SHOULD BE DETERMINED AND VERIFIED
 BY PROJECT ARCHITECT/ENGINEER.
- 2. WHEN INSULATION IS INSTALLED BOTH ABOVE AND BELOW THE MEMBRANE, THE R VALUE OF THE INSULATION ABOVE MUST BE GREATER THAN THE LOWER LAYER.
- 3. THE NEED FOR A VAPOR BARRIER BETWEEN THE SUBSTRATE BOARD AND THE METAL DECK SHOULD BE DETERMINED AND VERIFIED BY PROJECT ARCHITECT/ENGINEER.



Project: XXXXX			Sheet Number:	File Name:
Detail: Alternate Substrate Applications				BIOFLEX NATURA - D-2
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/15/2022	52

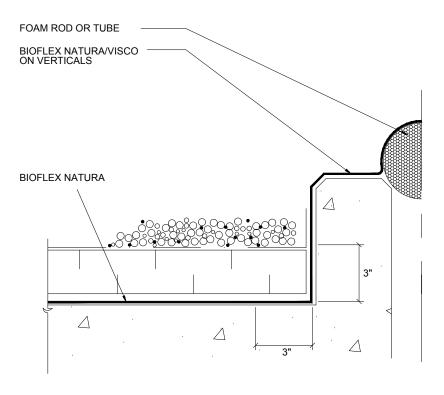




- 1. DETAIL DESIGNED FOR JOINTS WITH MAX. MOVEMENT ACCOMMODATION FACTOR OF 25%.
- BACKER ROD AND SEALANT ARE REQUIRED IN JOINT PRIOR TO BIOFLEX NATURA INSTALLATION.
- 3. BIOFLEX NATURA/VISCO IS EXTENDED AS A CONTINUOUS FLASHING AS HIGH AS THE OVERBURDEN LEVEL.



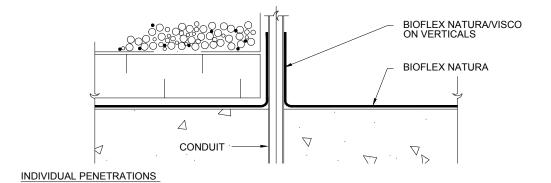
Project: XXXXX			Sheet Number:	File Name:
Detail: Expansion Joints Up To 1" As-Built Width				BIOFLEX NATURA - F-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/22/2022	'



- 1. DETAIL DESIGNED FOR JOINTS WITH MAX. MOVEMENT ACCOMMODATION FACTOR OF 25%.
- 2. TREATED WOOD BLOCKING, CONCRETE MASONRY UNITS, ETC., CAN BE SUBSTITUTED FOR P.I.P. CONCRETE CURB.
- 3. DIAMETER OF FOAM ROD OR TUBE SHOULD BE 1" LARGER THAN MAXIMUM AS-BUILT JOINT OPENING.

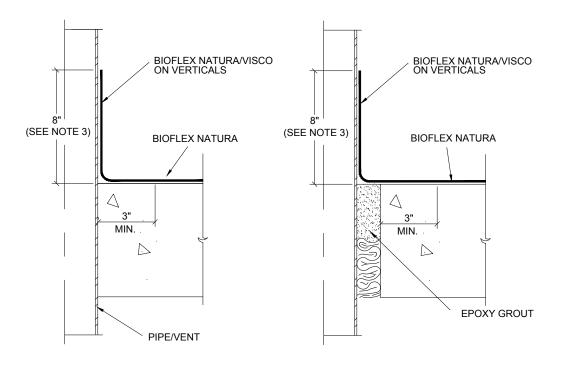


	Project: XXXXX			Sheet Number:	File Name:
Detail: Field Expansion Joints 1" - 2" Max. As-Built Widths				BIOFLEX NATURA - E-2	
	This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	





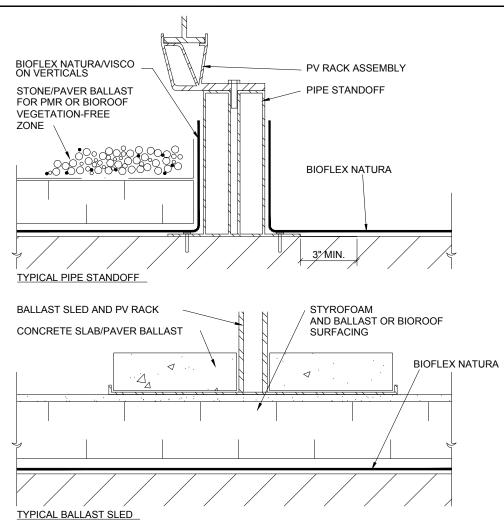
Project: XXXXX			Sheet Number:	File Name:
Detail: Typ. Conduit Penetration & Pitch Pocket				BIOFLEX NATURA - F-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/15/2022	· ·



- 1. PENETRATION MUST BE PROPERLY SECURED TO STRUCTURE TO PREVENT VERTICAL OR LATERAL MOVEMENT. EXPOSED DECK CLAMPS ARE NOT APPROPRIATE.
- 2. ALL PIPE MATERIALS (PVC, COPPER, BRASS) REQUIRE ROUGHENING/SANDING, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA. METAL PIPES MUST BE FREE OF ALL OIL AND RUST.
- IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD EXTENDED AS HIGH AS
 POSSIBLE. FLASHING MUST BE TERMINATED AT OVERBURDEN LEVEL AND NO LESS THAN 8"
 ABOVE SUBSTRATE.



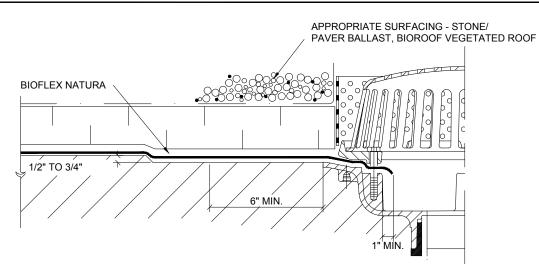
Project: XXXXX			Sheet Number:	File Name:
Detail: Typ. Round Penetrations (Pipe, Vent, Etc.)				BIOFLEX NATURA - F-2
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/16/2022	

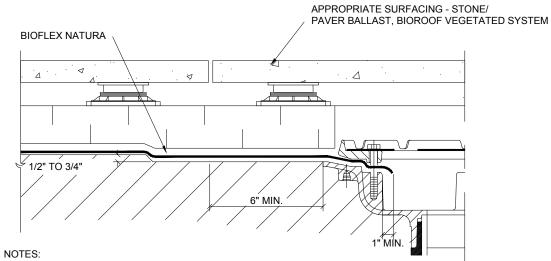


- PENETRATION MUST BE PROPERLY SECURED TO STRUCTURE TO PREVENT VERTICAL OR LATERAL MOVEMENT.
- ALL PIPE MATERIALS (PVC, COPPER, BRASS) REQUIRE ROUGHENING/SANDING, IN ADDITION
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 PIPES MUST BE FREE OF ALL OIL AND RUST.
- IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD EXTENDED AS HIGH AS
 POSSIBLE. FLASHING MUST BE TERMINATED AT OVERBURDEN LEVEL AND NO LESS THAN 8"
 ABOVE SUBSTRATE.
- 4. PV PANEL OR SUPPORT RACK SUPPLIER MUST BE CONSULTED FOR PROPER INSTALLATION AND ACCESSORY INFORMATION.



Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Photovoltaic Panel Rack Installation Options				BIOFLEX NATURA - F-3
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	. 9

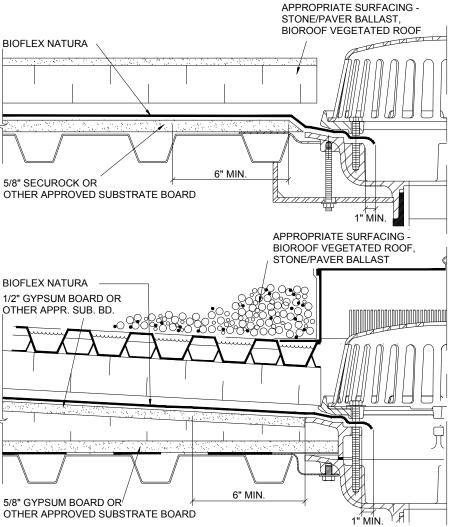




- AREA AROUND DRAIN SHOULD BE DEPRESSED/SUMPED TO PROMOTE POSITIVE WATER DRAINAGE.
- ALL DRAINS ARE REQUIRED TO HAVE FLASHING CLAMPING RING ASSEMBLIES. CONSULT SPECIFIC DRAIN MANUFACTURER FOR ADDL. ACCESSORIES (i.e., DEBRIS SCREENS, LOW-PROFILE DOMES, EXTENSIONS, ETC.)

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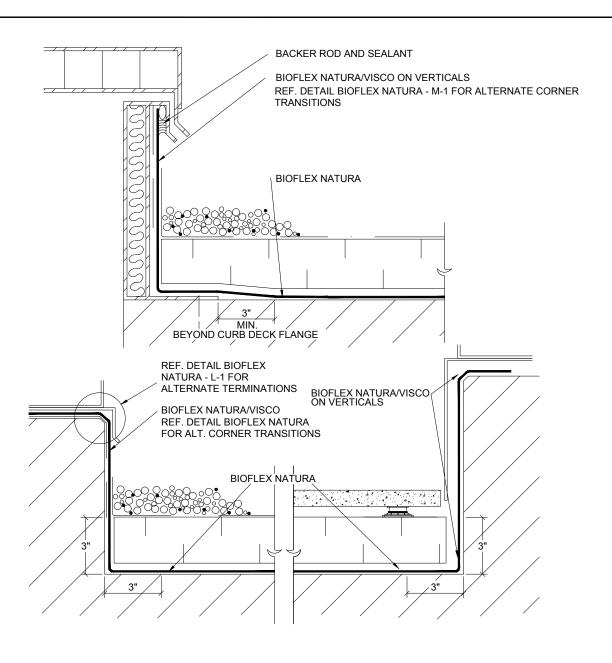
Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Drain Details				BIOFLEX NATURA - G-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/16/2022	O I



- AREA AROUND DRAIN SHOULD BE DEPRESSED/SUMPED TO PROMOTE POSITIVE WATER DRAINAGE.
- ALL DRAINS ARE REQUIRED TO HAVE FLASHING CLAMPING RING ASSEMBLIES. CONSULT SPECIFIC DRAIN MANUFACTURER FOR ADDL. ACCESSORIES (i.e., DEBRIS SCREENS, LOW-PROFILE DOMES, EXTENSIONS, ETC.)

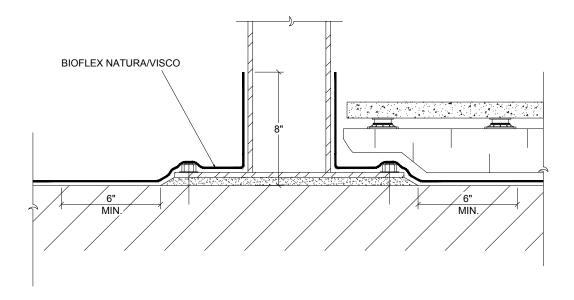


Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Drain Details				BIOFLEX NATURA - G-2
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/16/2022	





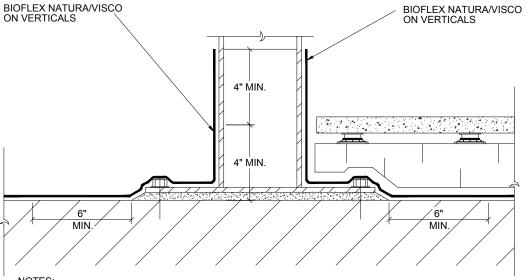
Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Curb Details				BIOFLEX NATURA -
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/22/2022	H-1



- 1. WHEN POSSIBLE, BIOFLEX NATURA SHOULD BE APPLIED UNDER PENETRATION BASE PLATE.
- 2. PENETRATION SURFACE MUST BE CLEAN AND FREE OF ALL RUST AND OTHER CONTAMINANTS, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA.
- IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD EXTENDED AS HIGH AS
 POSSIBLE. FLASHING MUST BE TERMINATED AT OVERBURDEN LEVEL AND NO LESS THAN 8"
 ABOVE SUBSTRATE.



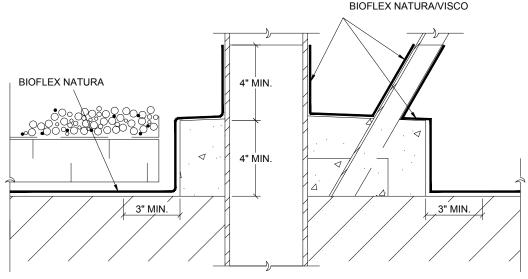
Project: XXXXX			Sheet Number:	File Name:
Detail: Round Shape Penetration With I	Base Plate			BIOFLEX NATURA -
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	



- 1. WHEN POSSIBLE, BIOFLEX NATURA SHOULD BE APPLIED UNDER PENETRATION BASE PLATE.
- 2. PENETRATION SURFACE MUST BE CLEAN AND FREE OF ALL RUST AND OTHER CONTAMINANTS, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA.
- 3. IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD EXTENDED AS HIGH AS POSSIBLE. FLASHING MUST BE TERMINATED AT OR ABOVE OVERBURDEN LEVEL AND NO LESS THAN 8" ABOVE SUBSTRATE.
- 4. BIOFLEX NATURA/VISCO SHOULD BE APPLIED DIRECTLY OVER BIOFLEX NATURA

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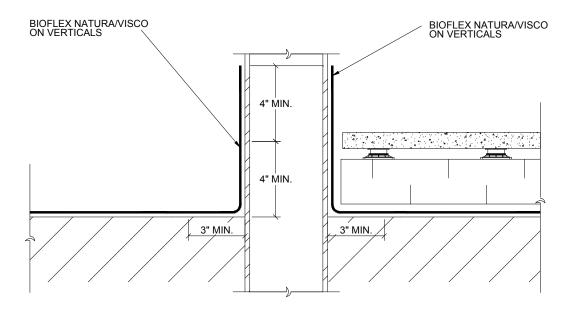
Project: XXXXX			Sheet Number:	File Name:
Detail: Irregular Shape Penetration With Base Plate				BIOFLEX NATURA - I-2
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	' -



- PENETRATION SURFACE MUST BE CLEAN AND FREE OF ALL RUST AND OTHER CONTAMINANTS, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA.
- IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD EXTENDED AS HIGH AS
 POSSIBLE. FLASHING MUST BE TERMINATED AT OR ABOVE OVERBURDEN LEVEL AND NO
 LESS THAN 8" ABOVE SUBSTRATE.
- 3. BIOFLEX NATURA/VISCO SHOULD BE APPLIED DIRECTLY OVER BIOFLEX NATURA
- 4. CAST-IN-PLACE CONCRETE CURBS MUST BE ALLOWED PROPER TIME TO CURE/DRY PRIOR TO THE APPLICATION OF BIOFLEX NATURA. (STR.WT. CONC.=28 DAYS, 14 DAYS MIN.; MODIFIED CONC. MATERIALS PER MANUFACTURER'S RECOMMENDATIONS)



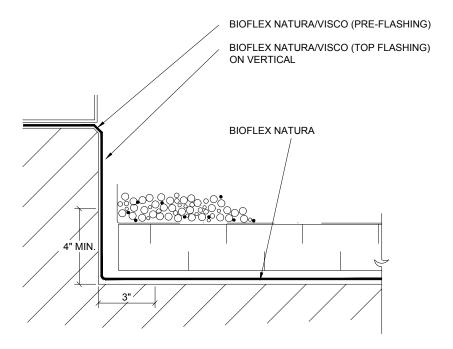
Project: XXXXX			Sheet Number:	File Name:
Detail: Complex Clustered Irregular Shaped Penetrations				BIOFLEX NATURA - I-4
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	



- PENETRATION SURFACE MUST BE CLEAN AND FREE OF ALL RUST AND OTHER CONTAMINANTS, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA.
- IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD EXTENDED AS HIGH AS
 POSSIBLE. FLASHING MUST BE TERMINATED AT OR ABOVE OVERBURDEN LEVEL AND NO
 LESS THAN 8" ABOVE SUBSTRATE.
- 3. BIOFLEX NATURA/VISCO SHOULD BE APPLIED DIRECTLY OVER BIOFLEX NATURA

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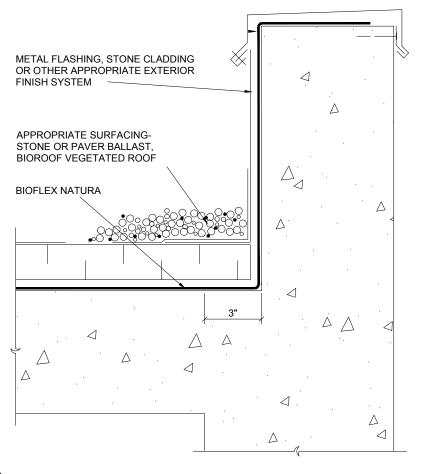
Project: XXXXX			Sheet Number:	File Name:
Detail: Irregular Shape Penetrations Cast Into Deck				BIOFLEX NATURA - I-3
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/22/2022	١٥



- 1. PENETRATION/CURB SURFACES MUST BE CLEAN AND FREE OF ALL RUST AND OTHER CONTAMINANTS.
- 2. FLASHING HEIGHTS AND CONTACT AREAS NOTED ARE MINIMUM REQUIREMENTS. GOOD ROOFING PRACTICE DICTATES THAT FLASHING TERMINATION POINTS EXTEND WELL ABOVE FINISHED BALLAST.

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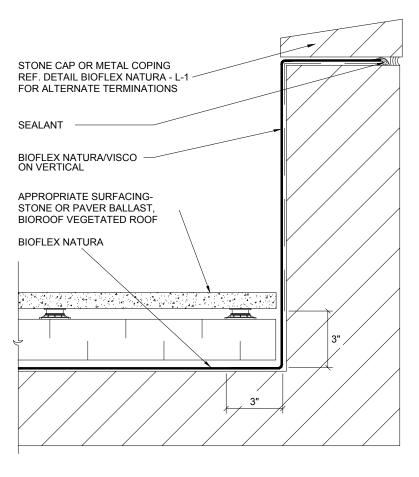
Project: XXXXX			Sheet Number:	File Name:
Detail: Pre-Flashing				BIOFLEX NATURA -
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	1.0



1. PARAPETS/CURBS COMPOSED OF CONCRETE BLOCK (CMU) MUST BE FLASHED WITH BIOFLEX NATURA/VISCO. (SEE INSET DETAIL)

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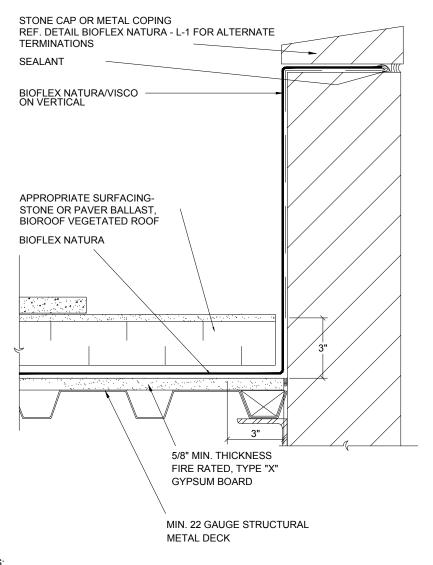
Project: XXXXX		Sheet Number:	File Name:
Detail: Typical Parapet Covered Flashing Conditions		BIOFLEX NATURA - J-1	
This detail is intended for conceptual purposes only. Drawn by: SB	Scale: None	Date: 2/17/2022	· .



- 1. REFERENCE GUIDELINE DETAIL BIOFLEX NATURA L-1 FOR ALTERNATIVE TERMINATIONS.
- 2. REFERENCE GUIDELINE DETAIL BIOFLEX NATURA K-1 FOR ALTERNATE CORNER TRANSITION DETAILS, TIE-IN WITH BIOFLEX NATURA.
- 3. BIOFLEX NATURA/VISCO MUST EXTEND 4" MIN. ONTO THE APPROVED SUBSTRATE BEYOND THE BIOFLEX NATURA TERMINATION.

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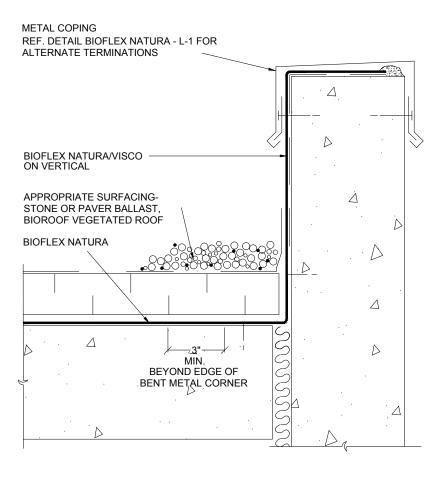
Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Parapet Exposed Flashing Conditions				BIOFLEX NATURA - .I-2
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	ÿ -



- 1. ADEQUATE STRUCTURAL SUPPORTS, NUMBER AND TYPE OF FASTENERS REQUIRED TO COMPLY WITH APPLICABLE CODES, SHOULD BE DETERMINED BY PROJECT A/E.
- 2. BIOFLEX NATURA/VISCO MUST EXTEND 4" MIN. ONTO THE APPROVED SUBSTRATE BEYOND THE BIOFLEX NATURA TERMINATION.

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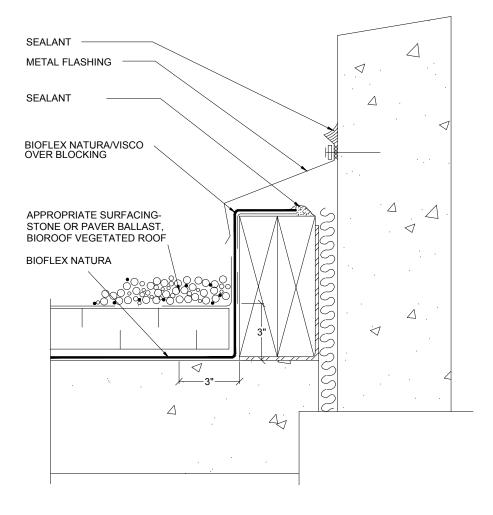
Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Parapet Gypsum Board Metal Deck				BIOFLEX NATURA - J-3
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	



- BENT SHEET METAL CORNER MUST BE OF SUFFICIENT GAUGE AND SECURED TO THE DECK AND WALL SUFFICIENTLY TO PREVENT BUCKLING.
- METAL SUBSTRATE REQUIRE ROUGHENING/SANDING, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA. ALSO, IT MUST BE FREE OF ALL OIL AND RUST.
- 3. BIOFLEX NATURA/VISCO MUST EXTEND 4" MIN. ONTO THE APPROVED SUBSTRATE BEYOND THE BIOFLEX NATURA TERMINATION.



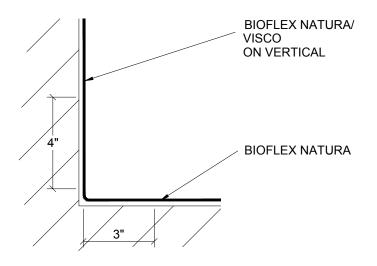
Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Parapet At Precast Wall				BIOFLEX NATURA - .I-4
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	.



- POURED-IN-PLACE CONCRETE OR CONCRETE BLOCK (CMU) MAY BE SUBSTITUTED FOR TREATED WOOD BLOCKING.
- 2. REFERENCE GUIDELINE DETAIL BIOFLEX NATURA K-1 FOR ALTERNATE CORNER TRANSITION DETAILS, TIE-IN WITH BIOFLEX NATURA.
- 3. BIOFLEX NATURA/VISCO MUST EXTEND 4" MIN. ONTO THE APPROVED SUBSTRATE BEYOND THE BIOFLEX NATURA TERMINATION.



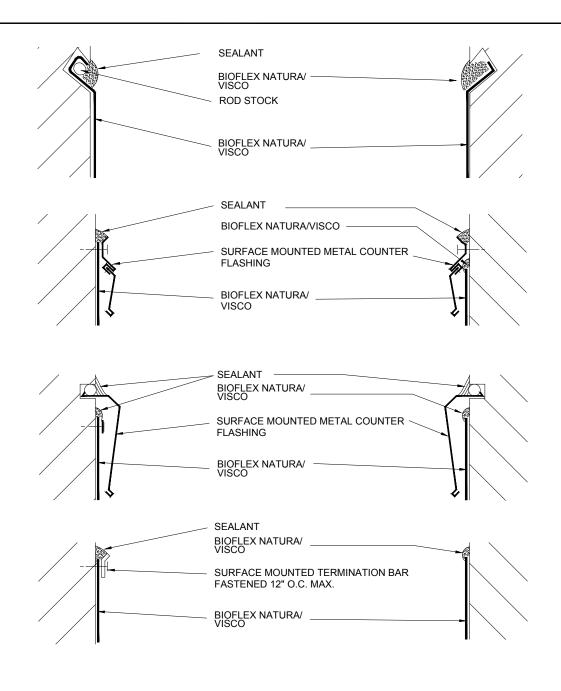
Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Parapet At Precast Wall				BIOFLEX NATURA -
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	J-5



1. BIOFLEX NATURA/VISCO MUST EXTEND 4" MIN. ONTO THE APPROVED SUBSTRATE BEYOND THE BIOFLEX NATURA TERMINATION.

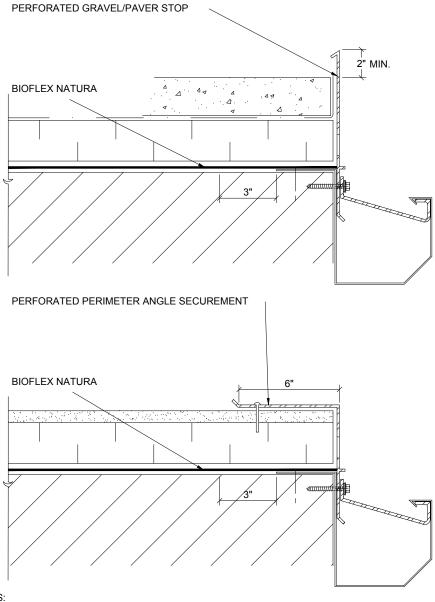
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Project: XXXXX			Sheet Number:	File Name:
Detail: Alternate Flashing Corner Transitions				BIOFLEX NATURA - K-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	





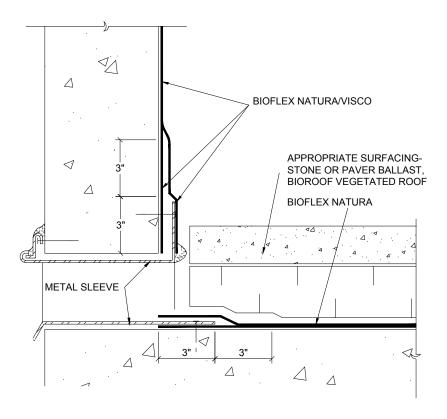
Project: XXXXX			Sheet Number:	File Name:
Detail: Alternate Flashing Termination				BIOFLEX NATURA -
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	



1. EMBED GUTTER/GRAVEL STOP DECK FLANGE IN BIOFLEX NATURA WHENEVER POSSIBLE.



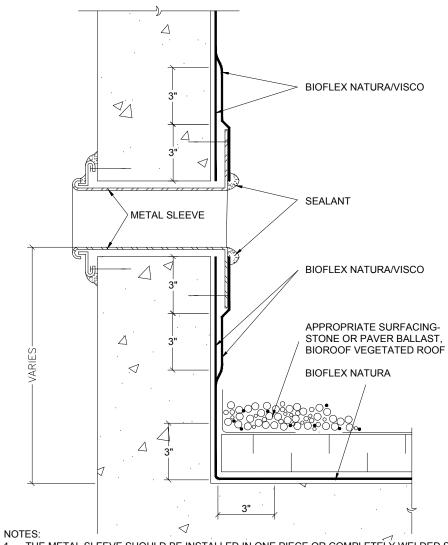
Project: XXXXX			Sheet Number:	File Name:
Detail: Roof Edge Termination Typical Gravel/Paver Stop				BIOFLEX NATURA - M-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/15/2022	l



- 1. THE METAL SLEEVE SHOULD BE INSTALLED IN ONE PIECE OR COMPLETELY WELDED SHUT TO MAINTAIN A WATERTIGHT DETAIL INSIDE THE SCUPPER
- METAL SUBSTRATE REQUIRE ROUGHENING/SANDING, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA. ALSO, IT MUST BE FREE OF ALL OIL AND RUST
- WHEN GRAVEL/STONE BALLAST IS USED, A FILTER FABRIC MUST BE INSTALLED BETWEEN THE BALLAST AND STYROFOAM INSULATION



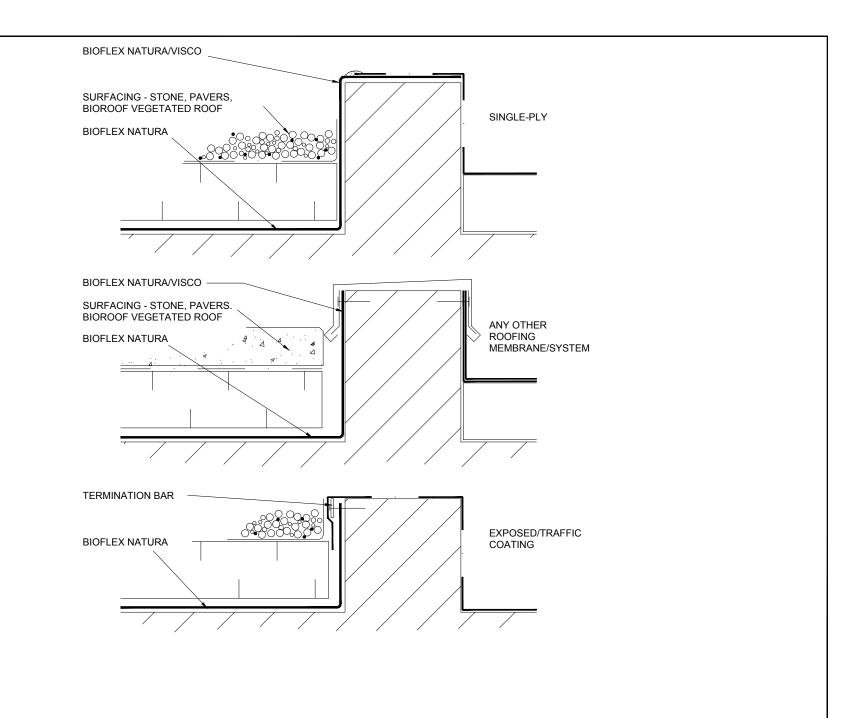
Project: XXXXX			Sheet Number:	File Name:
Detail: Thru-Wall Scupper Flashing				BIOFLEX NATURA - N-1
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	



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- METAL SUBSTRATE REQUIRE ROUGHENING/SANDING, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF BIOFLEX NATURA. ALSO, IT MUST BE FREE OF ALL OIL AND RUST
- 3. REFERENCE GUIDELINE DETAIL BIOFLEX NATURA K-1 FOR ALTERNATE CORNER TRANSITION DETAILS AND BIOFLEX NATURA L-1 FOR ALTERNATE TERMINATION DETAILS.

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Project: XXXXX			Sheet Number:	File Name:	
Detail: Overflow Cupper Flashing				BIOFLEX NATURA - N-2	
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Project: XXXXX
Detail: Typical Tie-In Details (Curbed)

This detail is intended for conceptual purposes only.

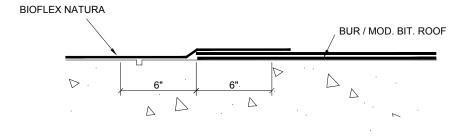
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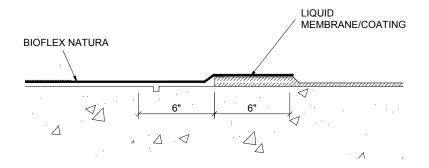
Sheet Number:

BIOFLEX NATURA P-1

P-1



SINGLE-PLY MEMBRANE 6" 6" 1/2"X1/2" REGLET

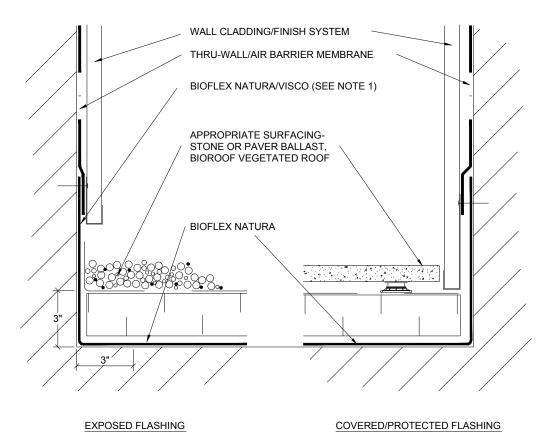


NOTES

1. CHECK WITH OTHER ROOFING MATERIAL SUPPLIER FOR SPECIFIC TIE-IN INSTRUCTIONS.



Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Tie-In Details (Horizonta	ıl Tie-In Details (Horizontal)			BIOFLEX NATURA - P-2
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/22/2022	



NOTES:

1. IF ANY PORTION OF THE MEMBRANE FLASHING DETAIL IS TO BE LEFT EXPOSED, BIOFLEX NATURA/VISCO MUST BE USED (DETAIL LEFT).



Project: XXXXX			Sheet Number:	File Name:
Detail: Typical Tie-In Details (Thru-Wall/Air Barrier)				BIOFLEX NATURA - P-3
This detail is intended for conceptual purposes only.	Drawn by: SB	Scale: None	Date: 2/17/2022	