

Florida Building Code 8th Edition (2023)

High Velocity Hurricane Zone Uniform Roofing Application Form for Village of Pinecrest

Section A (General Information)

Master Permit Number: _____

Process Number: _____

Contractor's Name: URUTEC ROOFING INC

Job Address: 12715 Rolling Rd Dr, Miami, FL 33156

ROOF CATEGORY

- ☒ Low Slope ☐ Mechanically Fastened Tile ☐ Mortar / Adhesive Set Tile
☐ Asphaltic Shingles ☒ Metal Panel/ Shingles ☐ Wood Shingles / Shakes

ROOF TYPE

- ☒ New Roof ☐ Repair ☐ Maintenance ☐ Reroofing ☐ Recovering

ROOF SYSTEM INFORMATION

Low Slope Roof Area (ft²)
600 SQFT

Steep Sloped Roof Area (ft²)
9,600 SQFT

Total (ft²)
10,200 SQFT

Are there gas vents on the roof? Yes ☐ No ☒ If Yes what type? ☐ Natural ☐ LPX
Is there an existing roof top Solar System? ☐ Yes ☒ No If yes will it be reinstalled? ☐ Yes ☐ No

Section B (Roof Plan)

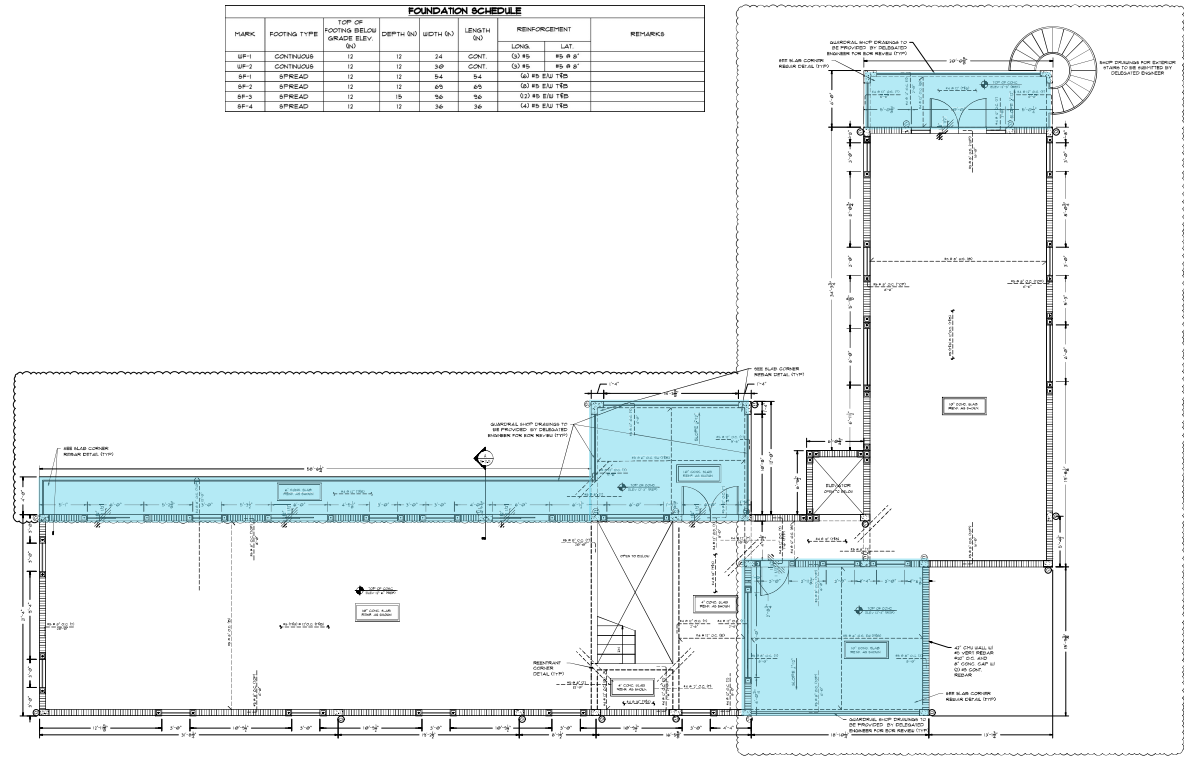
Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.

PLEASE SEE ATTACHED PLANS:

- ☒ FLAT ROOF WATERPROOFING SYSTEM
☒ NEW ROOF - TILE ROOF

COLUMN SCHEDULE					
MARK	COLUMN TYPE	DIMENSIONS (IN)	REINFORCEMENT		REMARKS
			VERTICAL	HORIZONTAL	
C1	CONCRETE	8" x 12"	(4) #6	(2) #8 @ 6"	C1 #5 TIES @ 8" O.C.
C2	CONCRETE	16" x 16" x 8"	(6) #6	(2) #8 @ 6"	
C3	CONCRETE	8" x 15 5/8"	(4) #6	(2) #8 @ 6"	
C4	CONCRETE	8" x 16"	(4) #6	(2) #8 @ 6"	
C5	CONCRETE	8" x 15 3/8"	(4) #6	(2) #8 @ 6"	C5 #5 TIES @ 8" O.C.
C6	CONCRETE	8" x 23"	(6) #6	(2) #8 @ 6"	
C7	CONCRETE	8" x 24"	(6) #6	(2) #8 @ 6"	

FOUNDATION SCHEDULE									
MARK	FOOTING TYPE	TOP OF FOOTING BELOW GRADE ELEV.	DEPTH (IN)	WIDTH (IN)	LENGTH (IN)	REINFORCEMENT			REMARKS
						LONG.	LAT.		
UF-1	CONTINUOUS	12	12	24	CONT.	(3) #6	#5 @ 8"		
UF-2	CONTINUOUS	12	12	36	CONT.	(3) #6	#5 @ 8"		
BF-1	SPREAD	12	12	54	54	(6) #6 @ 12"			
BF-2	SPREAD	12	12	65	65	(6) #6 @ 12"			
BF-3	SPREAD	12	15	56	56	(2) #6 @ 12"			
BF-4	SPREAD	12	12	36	36	(4) #6 @ 12"			



SECOND FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

PREPARED BY: A.A.

CHECKED BY: NAC

REV. DATE DESCRIPTION

1	01/15/2024	ISSUED FOR PERMIT
2	02/15/2024	REVISED AS SHOWN

SCALE: 3/16" = 1'-0"

JOB NO: 22-FR-0020

SHEET NO.	REV.
01	0



PREPARED BY: A.A.

CHECKED BY: NAC

REV	DATE	DESCRIPTION	DESIGNED FOR
1	01/15/24	ISSUED FOR PERMIT	
2	02/01/24	REVISED AS SHOWN	

SCALE: 3/16" = 1'-0"

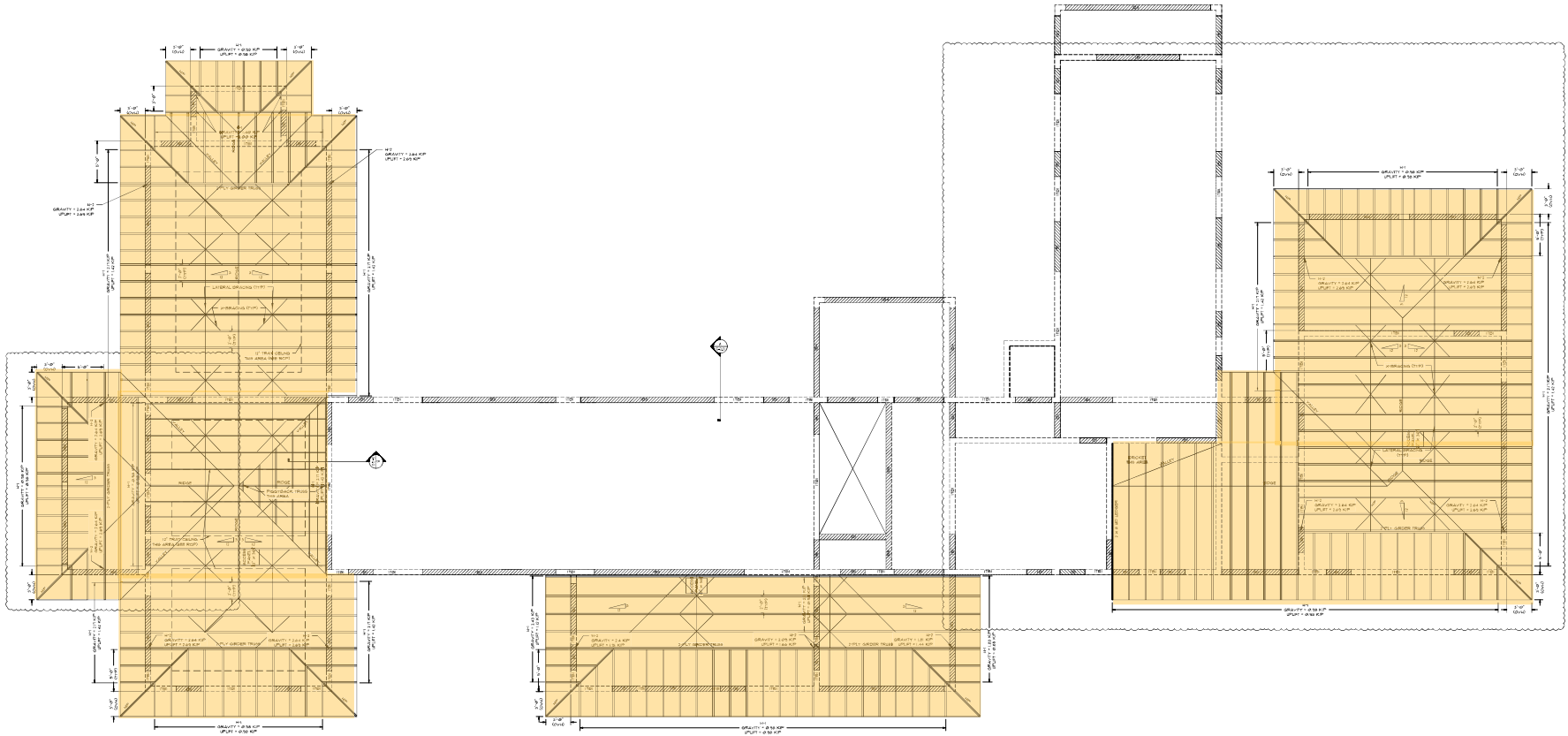
JOB NO: 22-FRD-0020

SHEET NO.	REV.
0-2 OF 0	1

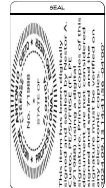
BEAM SCHEDULE									
MARK	BEAM TYPE	TOP OF BEAM ELEV. (FEET)	DIMENSIONS		REINFORCEMENT		REMARKS		
			WIDTH (IN)	HEIGHT (IN)	TOP	BOTTOM	STIRRUPS		
1B1	CONCRETE	17'-4"	8	12	Q1 #5	---	Q1 #5	#3 @ 48" O.C.	STIRRUPS 12" O.C. 48" FROM CORNERS
1B2	CONCRETE	17'-4"	8	12	Q1 #5	---	Q1 #5	#3 @ 48" O.C.	SEE DROP BEAM DETAIL
1B3	CONCRETE	17'-4"	8	18	Q1 #5	---	Q1 #1	#3 @ 48" O.C.	SEE DROP BEAM DETAIL
1B4	CONCRETE	17'-4"	8	20	Q1 #5	---	Q1 #5	#3 @ 48" O.C.	TWO LAYERS BOTTOM REIN.
1B5	CONCRETE	17'-4"	8	15	Q1 #5	---	Q1 #1	#3 @ 48" O.C.	

LEGEND	
	STIRRUPS BEYOND BEAM
	CONCRETE TO BEAT BELOW
	NO ROOF TRUSS

CONNECTOR SCHEDULE									
MARK	MANUFACTURER	PART NO.	PRODUCT APPROVAL NO.	TO WATERTIGHTNESS	TO BEAM	TO CONCRETE	WEIGHT (LBS)	UPLIFT (LBS)	REMARKS
H1	BMPFON	DETAL20	FL # 1473	50) 10" X 11" NAIL	---	EMBEDDED	---	2400	2000
H2	BMPFON	FGTR	FL # 1473	50) 11/4" X 3" SDS	---	Q1 12 X 8" TITEN HD	---	3600	---



LOWER ROOF PLAN
SCALE 3/16" = 1'-0"



PREPARED BY: A.A.

CHECKED BY: NAC

REV.	DATE	DESCRIPTION
1	01/15/24	ISSUED FOR PERMIT
2	02/01/24	REVISED AS SHOWN

SCALE: 3/8" = 1'-0"

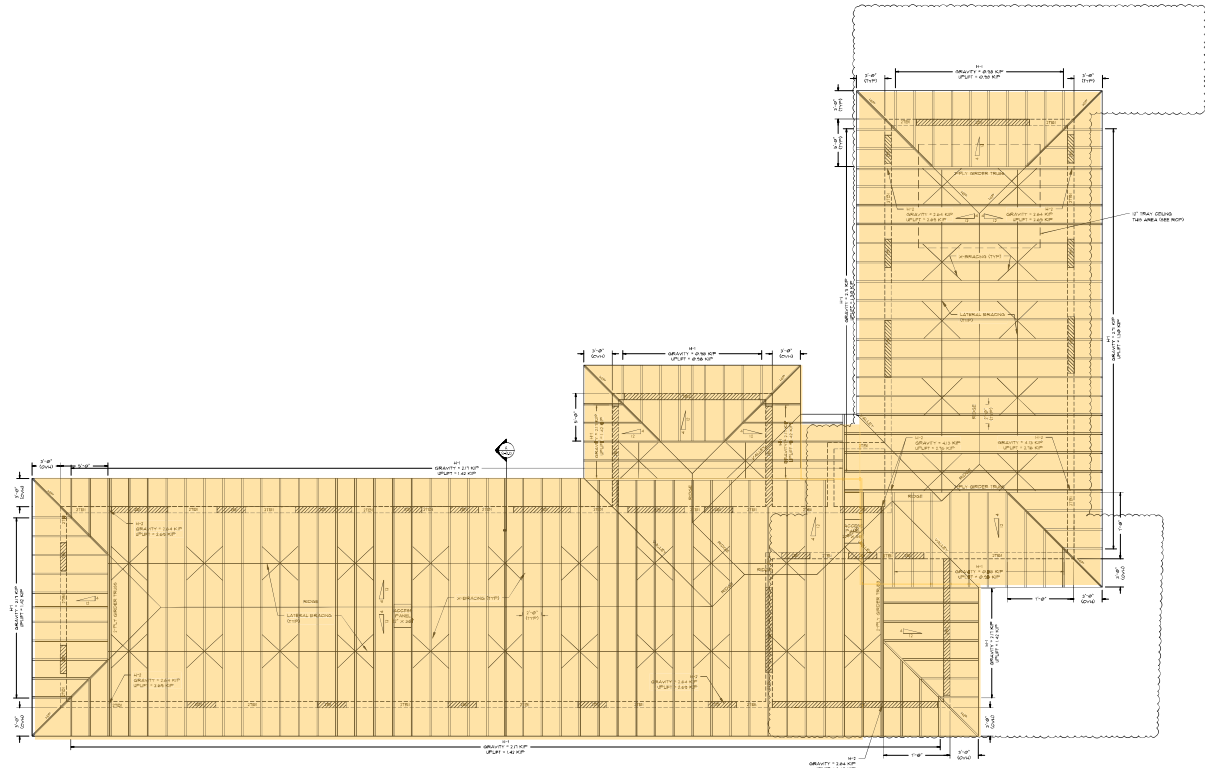
JOB NO: 22-FR-0008

SHEET NO.	REV.
8/21	1

BEAM SCHEDULE									
MARK	BEAM TYPE	TOP OF BEAM ELEV. (FEET)	DIMENSIONS		REINFORCEMENT				
			WIDTH (IN)	HEIGHT (IN)	TOP	HD	BOTTOM	STIRRUPS	REMARKS
1B1	CONCRETE	22'-6"	8	14	Ø 16	---	Ø 16	#3 @ 6" O.C. 45°	SEE DROP BEAM DETAIL
2B2	CONCRETE	22'-6"	8	16	Ø 16	---	Ø 16	#3 @ 6" O.C. 45°	
2B3	CONCRETE	22'-6"	8	12	Ø 16	---	Ø 16	#3 @ 6" O.C. 45°	

LEGEND	
	INTERIOR BEAM DETAIL
	CONCRETE TIE BEAM DETAIL
	HD ROOF TRUSS

CONNECTOR SCHEDULE									
MARK	MANUFACTURER	PART NO.	PRODUCT APPROVAL NO.	TO RAFTER/JOIST			CAPACITY (LBS)		
				TO BEAM	TO CONCRETE	GRAVITY	UPLIFT	F1	F2
H11	SPRISON	DETAL2P	PL # 11473	Ø3 180 X 1 1/2" NAILS	---	EMBEDDED	---	2480	2000
H13	SPRISON	DETAL	PL # 11473	Ø3 114" X 3" SWS	---	Ø3 13 X 9" TIEB HD	---	3635	---



HIGH ROOF PLAN
SCALE: 3/8" = 1'-0"

Florida Building Code 8th Edition (2023)
High Velocity Hurricane Zone Uniform Roofing Application Form for Village of Pinecrest

Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Product Control Number: _____

Minimum Design Wind Pressures, From Applicable RAS 127 Table or Calculations:

Zone 1: _____ Zone 2: _____ Zone 3: -104

Slope Range: $\geq 2:12$ to $\leq 4:12$ $> 4:12$ to $\leq 6:12$ $> 6:12$ to $\leq 12:12$

Roof Shape: All Hip Roof Gable Roof or Partial Gable/Hip Roof

Deck Type:

Underlayment Type:

Roof Slope:

_____: 12

Insulation:

Fire Barrier:

Ridge Ventilation?

Fastener Type & Spacing:

Cap Sheet Type:

Mean Roof Height: _____

Cap Sheet Attachment:

Roof Covering:

Drip Edge Type & Size:

Note: We are enhancing our systems and you may notice duplicate entries/missing/outdated data. During this interim period, please contact our Customer Service at <https://www.ul.com/about/locations>.

Roofing Systems

COMPANY

Roofing Experts Manufacturers Corp.
12144 SW 117 Ct
Miami, FL 33186 United States

R40985

OTHER SYSTEMS

Class A

1. **Deck:** C-15/32 **Incline:** Unlimited **Impact:** 4

Underlayment: — One layer GAF "VersaShield Underlayment", mechanically fastened.
Ply Sheet: — One layer Type 30 base sheet or GAF "VersaShield", mechanically fastened.
Panels: — Steel roofing panels, designated "REM 1.5", mechanically fastened.

2. **Deck:** C-15/32 **Incline:** Unlimited **Impact:** 4

Underlayment: — One or more plies GAF "VersaShield Underlayment" mechanically fastened.
Panels: — Steel roofing panels, designated "REM 1.5", mechanically fastened.

3. **Deck:** C-15/32 **Incline:** Unlimited **Impact:** 4

Barrier Board: — Minimum ¼ inch thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck Prime® Roofboard", or "DensDeck DuraGuard™ Roofboard" with all butt joints staggered a minimum of 6 inches from the plywood roof deck joints.
Insulation (Optional): — Fiberglass, polyisocyanurate, perlite or wood fiber, any thickness.

Membrane: — Any UL Classified modified bitumen system, BUR system or CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO or TRE membrane system suitable for use with any roof insulation.
Panels: — Steel roofing panels, designated "REM 1.5", mechanically fastened.

4. **Deck:** C-15/32 **Incline:** Unlimited **Impact:** 4

Underlayment: — Two or more plies GAF "VersaShield® Fire-Resistant Roof Deck Protection" or GAF "VersaShield® Underlayment", mechanically fastened.
Panels: — Steel roofing panels, designated "REM 1.5", mechanically fastened.

5. **Deck:** C-15/32 **Incline:** Unlimited **Impact:** 4

Underlayment: — One or more plies GAF "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.
Panels: — Steel roofing panels designated "REM 1.5", mechanically fastened.

6. **Deck:** C-15/32 or spaced sheathing

Incline: Unlimited

Base Sheet (Optional): — Minimum one ply Type 15 or Type 30 asphalt saturated felt or Type G1 or Type G2 asphalt saturated glass mat or Polyglass USA Inc "PolyAnchor UDL 40" mechanically fastened or "Polystick XFR", "Polystick MTS", "Polystick MTS Plus", "Polystick MU-X" self-adhered.

Underlayment: — One ply Polyglass USA Inc "Polystick XFR" self-adhered.

Insulation (Optional): — Any UL Classified polyisocyanurate, perlite, wood fiber or polyisocyanurate/perlite board, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.

Ply Sheet (Optional): — Minimum one ply Type 15 or Type 30 asphalt saturated felt or Type G1 or Type G2 asphalt saturated glass mat or Polyglass USA Inc "PolyAnchor UDL 40" mechanically fastened or "Polystick XFR", "Polystick MTS", "Polystick MTS Plus", "Polystick MU-X" self-adhered.

Surfacing: — Steel roofing panels designated "REM 1.5", mechanically fastened.

7. **Deck:** C-15/32 or spaced sheathing

Incline: Unlimited

Base Sheet (Optional): — Minimum one ply Type 15 or Type 30 asphalt saturated felt or Type G1 or Type G2 asphalt saturated glass mat or Polyglass USA Inc "PolyAnchor UDL 40" mechanically fastened or "Polystick XFR", "Polystick MTS", "Polystick MTS Plus", "Polystick MU-X" self-adhered.

Underlayment: — Two plies Polyglass USA Inc "Polystick XFR" self-adhered.

Insulation (Optional): — Any UL Classified polyisocyanurate, perlite, wood fiber or polyisocyanurate/perlite board, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.

Ply Sheet (Optional): — Minimum one ply Type 15 or Type 30 asphalt saturated felt or Type G1 or Type G2 asphalt saturated glass mat or Polyglass USA Inc "PolyAnchor UDL 40" mechanically fastened or "Polystick XFR", "Polystick MTS", "Polystick MTS Plus", "Polystick MU-X" self-adhered.

Surfacing: — Steel roofing panels designated "REM 1.5", mechanically fastened, mechanically fastened.

Class B

1. **Deck:** C-15/32

Incline: Unlimited **Impact:** 4

Underlayment: — One or more plies GAF "VersaShield® Fire-Resistant Roof Deck Protection" or GAF "VersaShield® Underlayment", mechanically fastened.

Panels: — Steel roofing panels designated "REM 1.5", mechanically fastened.

Last Updated on 2023-06-28

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Roofing Experts Manufacturers Corp
12144 SW 117 Ct
Miami, FL. 33186

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas, where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: REM 1.5 Steel Panel over Wood Deck

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 5.

The submitted documentation was reviewed by Alex Tigera.



NOA-No.: 22-1208.01
Expiration Date: 04/13/28
Approval Date: 04/13/23
Page 1 of 5

ROOFING SYSTEM APPROVAL:

Category: Roofing
Sub-Category: Metal, Panels (Non-Structural)
Material: Steel
Deck Type: Wood
Maximum Design Pressure -153.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
REM 1.5 Steel Panel	Length: various Height: 1-1/2" Width: 16" Min. Thickness 24 ga Min. Yield Strength: 57.8 ksi.	TAS 110	Corrosion resistant, galvalume, preformed, standing seam. Coated, prefinished panels.
2" Fixed Clip	Length: 2" Height: 1-9/16" Width: 13/16" (base) Min. Thickness 24 ga.	TAS 110	Corrosion resistant, Min. 24 ga. steel clip or Min. 24 ga. stainless steel clip.
Trim Pieces	Length: various Width: various Min. Thickness: 0.0276"	n/a	Corrosion resistant, galvalume, preformed coated, pre-finished, trim pieces.

MANUFACTURING LOCATION:

1. Miami, FL.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Intertek	N2585.01-450-1 R0	TAS 125	12/05/22
	N2585.02-450-18 R1	TAS 100	04/11/23
	N2585.03-450-18 R0	ASTM E2140	12/05/22
PRI Construction Materials Technologies LLC	1272T0003	ASTM B 117	09/11/19
	1272T0006	ASTM G 23	09/24/19



NOA-No.: 22-1208.01
Expiration Date: 04/13/28
Approval Date: 04/13/23
Page 2 of 5

APPROVED ASSEMBLIES:

System:	REM 1.5 Steel Panel over Plywood
Deck Type:	Wood, Non-insulated
Deck Description:	¹⁹ / ₃₂ " or greater plywood or wood plank with span rating of 32/16, CDX, 4-ply.
Slope Range:	1": 12" or greater
Maximum Uplift Pressure:	See Table A below

Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 ¹ / ₄ " annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll or any approved underlayment having a current NOA.
Fire Barrier:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with the current published installation instructions and details in Roofing Experts Manufacturers Corp's Installation Manual.
Metal Panels and Accessories:	Install the "REM 1.5 Steel Panel" including flashing penetrations, valleys, end laps and accessories in compliance "Roofing Experts Manufacturers Corp's" current, published installation instructions and in compliance with the minimum requirements detailed in Roofing Application Standard RAS 133. Panels shall be secured along the male rib with approved clips and two corrosion resistant #10 x 1" pancake head screws of sufficient length to penetrate through the sheathing a minimum of ³/₁₆". The panel clips were placed at a spacing listed in Table A below.

The female rib of panel is installed over the male rib of panel. Panels are seamed 90° degrees.

TABLE A
MAXIMUM DESIGN PRESSURES

Roof Areas	Field	Perimeter and Corner ¹
Maximum Design Pressures	-82.25 psf	-153.5 psf
Maximum Clip Spacing	24" o.c.	12" o.c.
Sealant	Optional	Required ²
1. Extrapolation shall not be allowed		
2. Apply a bead of Miami-Dade Approved Sealant on the top of the male leg of the panel		



LIMITATIONS

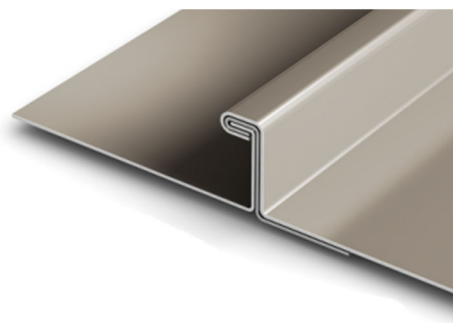
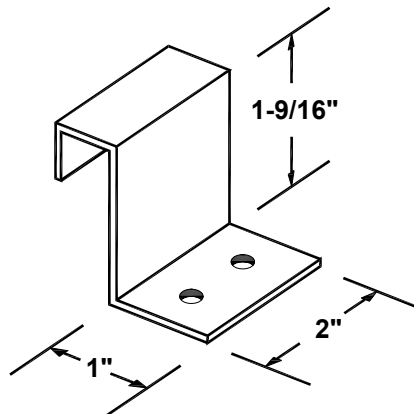
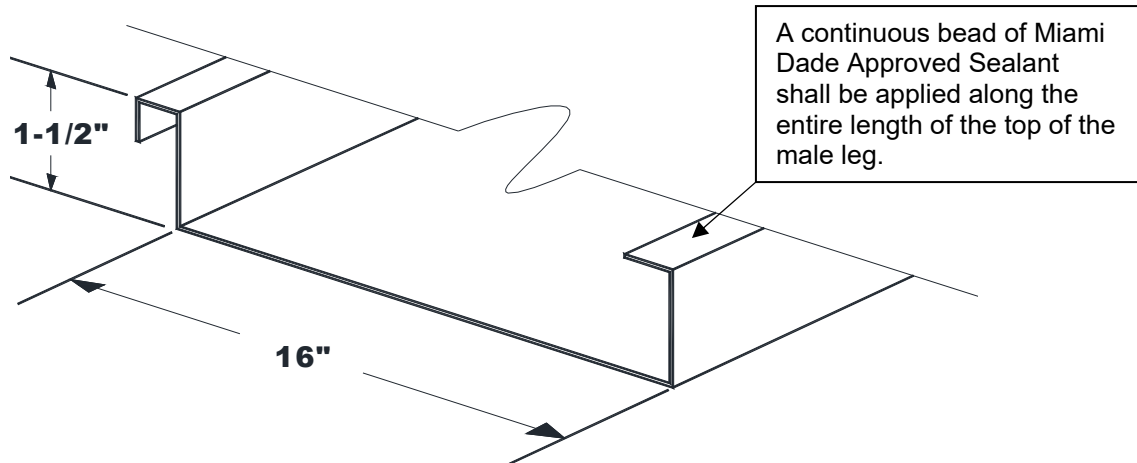
1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e., field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners and corners).
3. Panels may be rolls formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Roofing Application Standard RAS 133.
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, city, state, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below. All clips shall be permanently labeled with the manufacturer's name and/or logo, and/or model.



5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule **61G20-3** of the Florida Administrative Code.



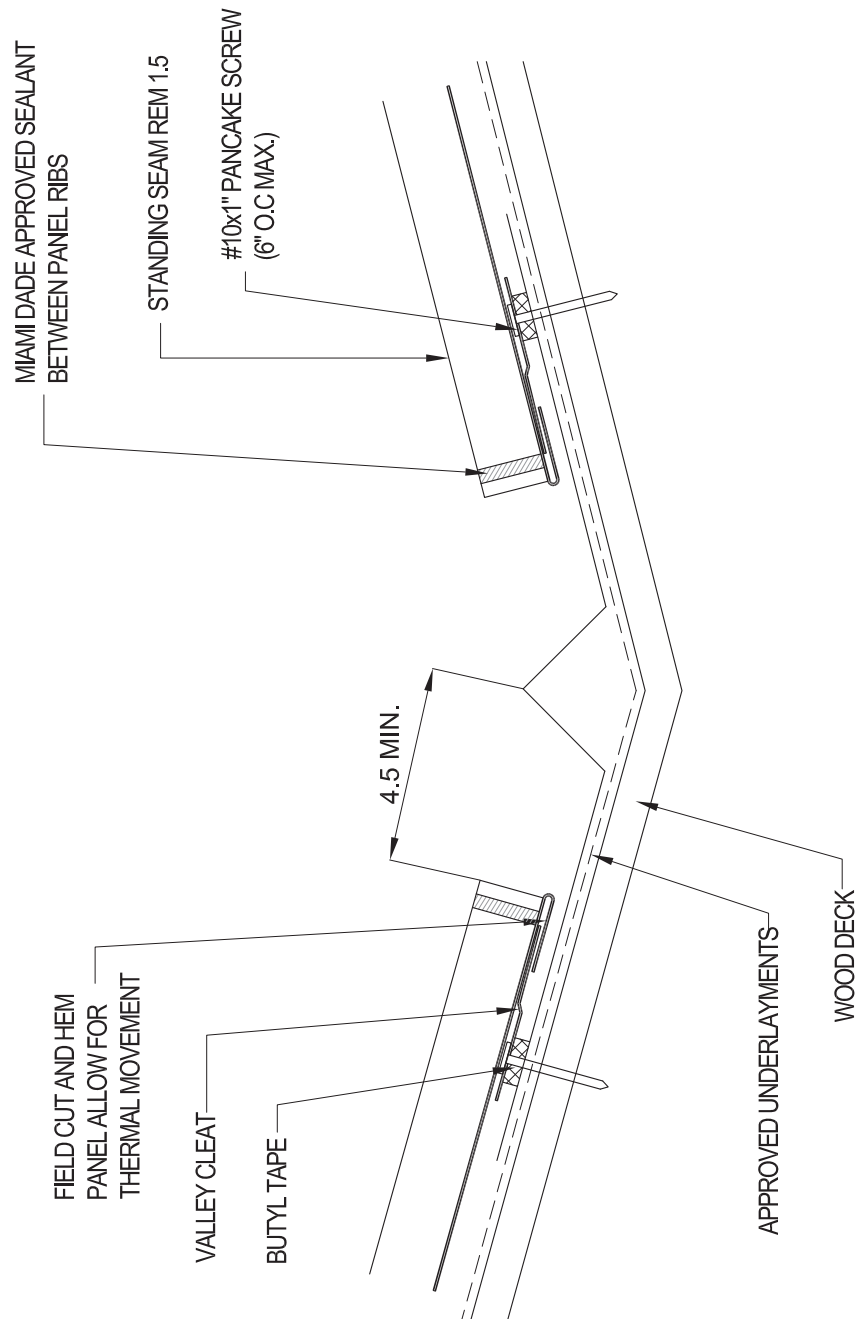
PROFILE DRAWINGS



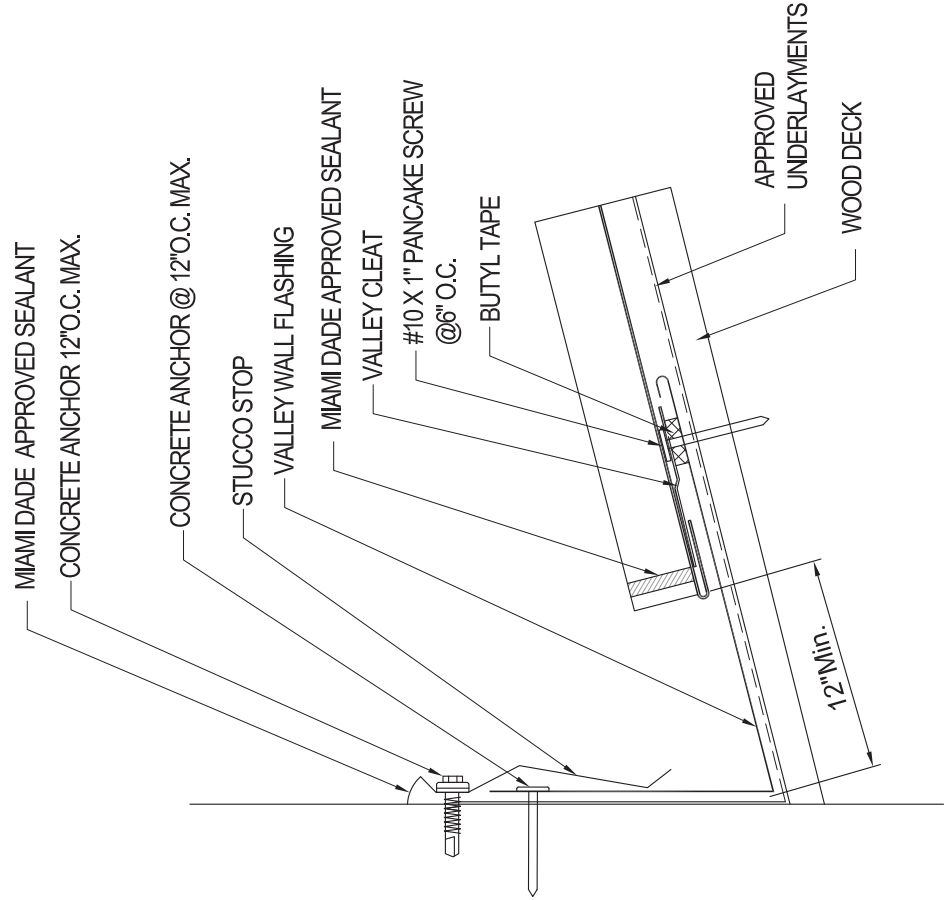
90° SINGLE LOCK

END OF THIS ACCEPTANCE

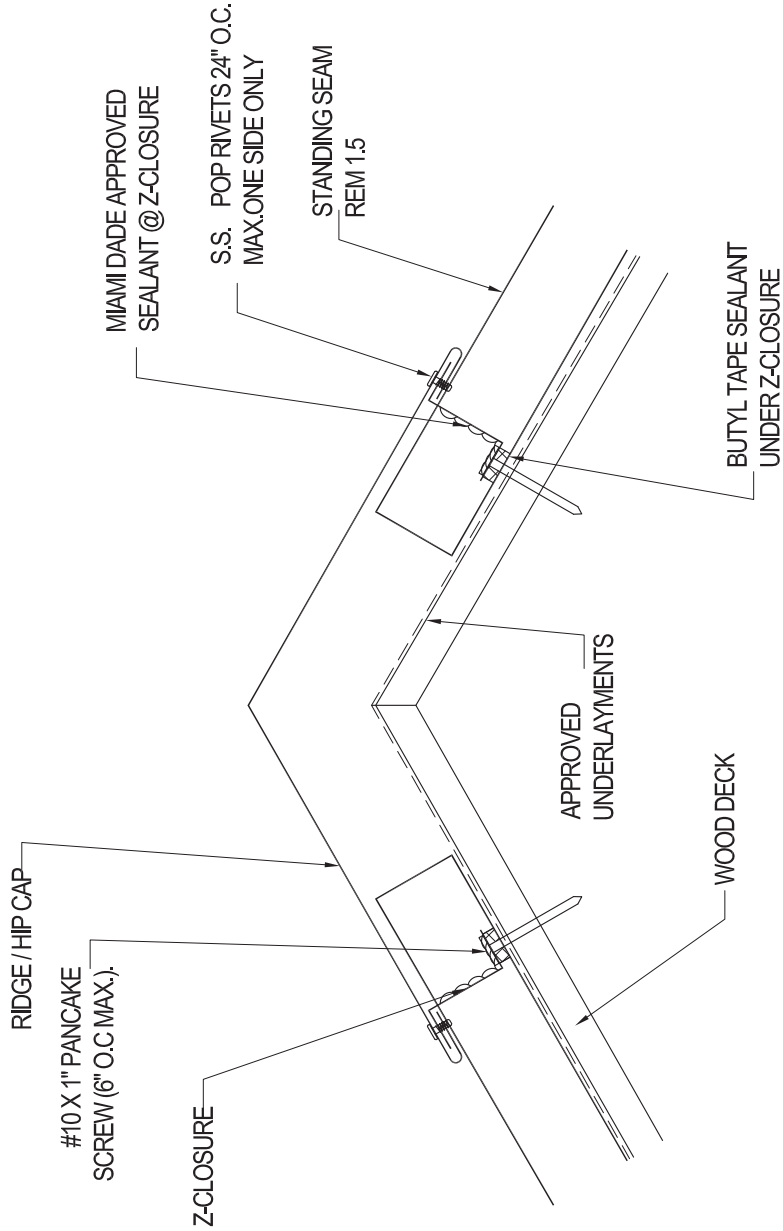
ROOF VALLEY DETAIL



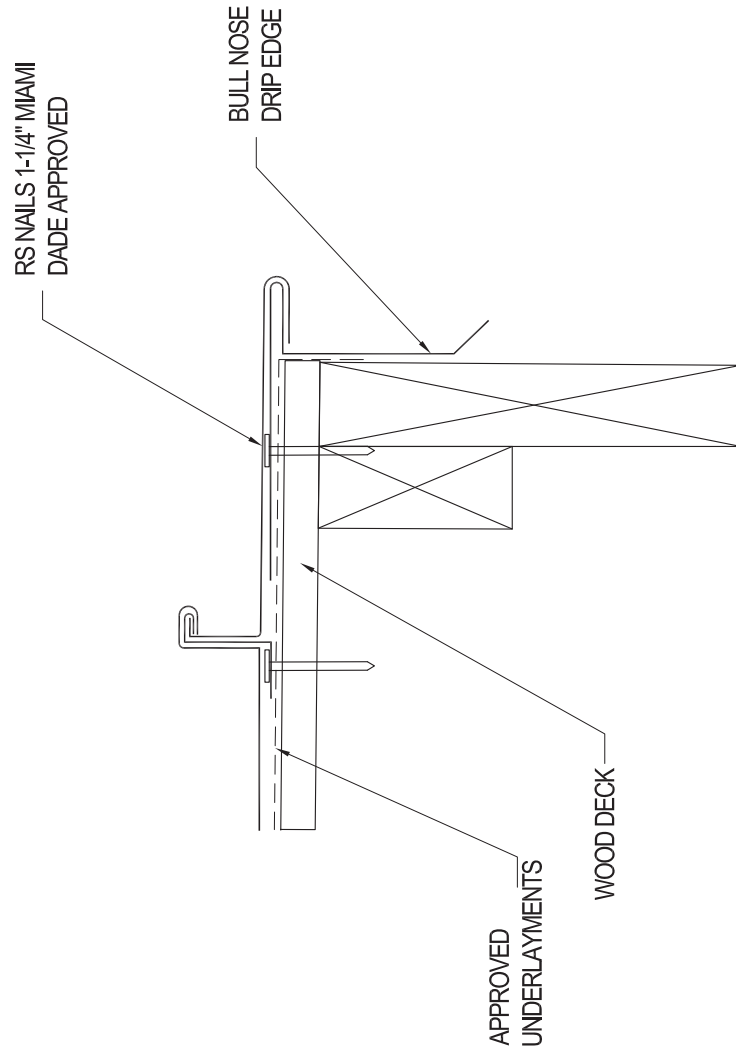
VALLEY WALL DETAIL



ROOF RIDGE/HIP DETAIL



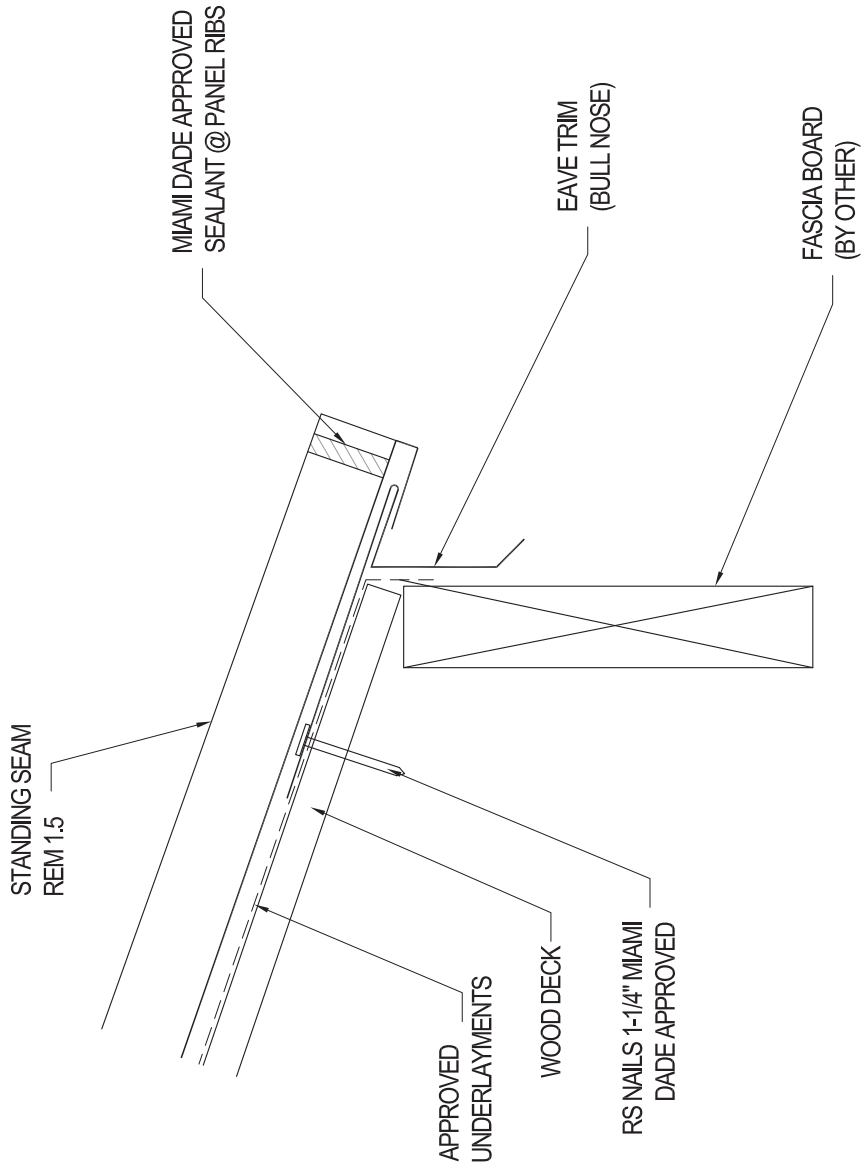
RAKE DETAIL



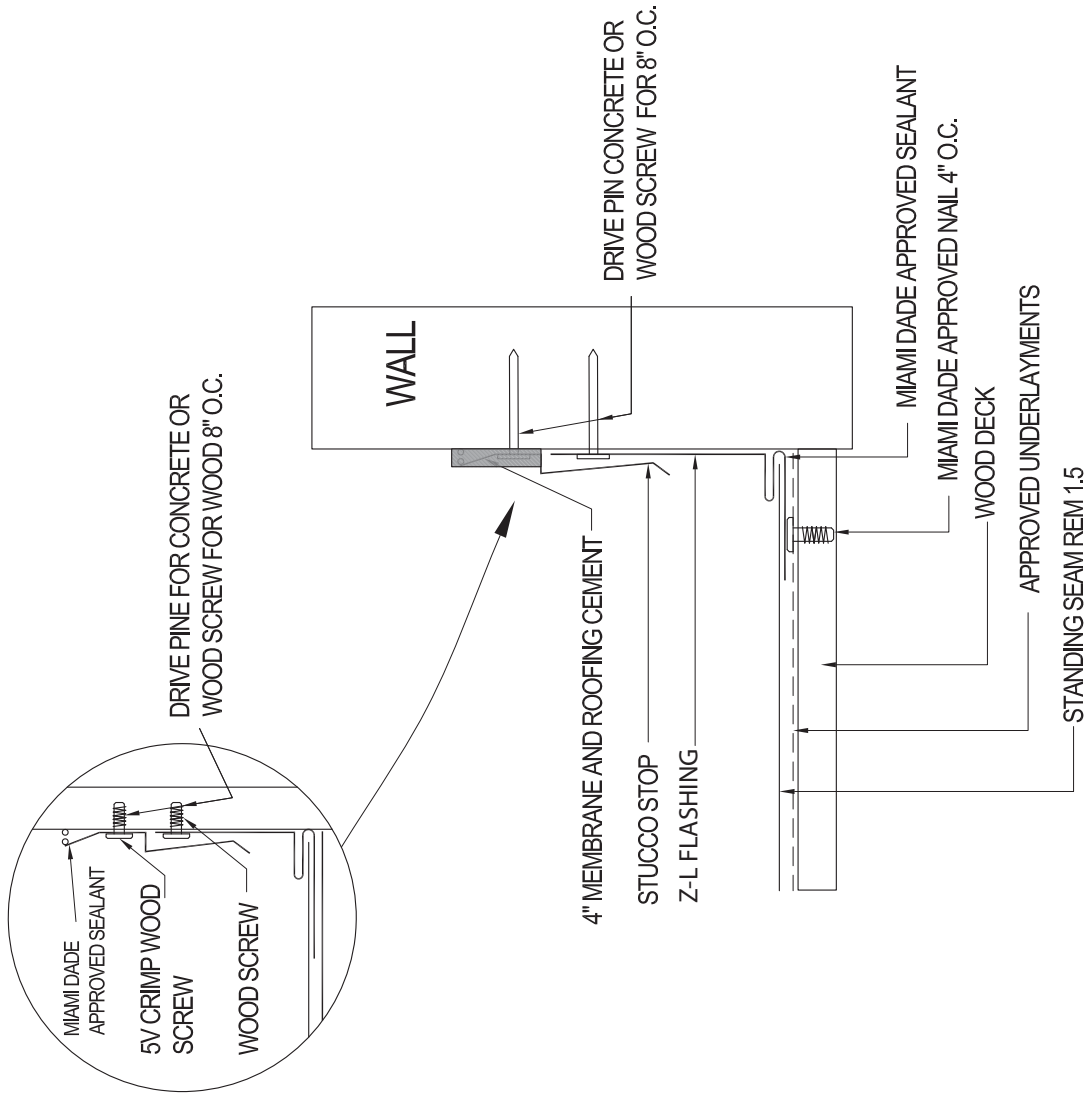
ROOFING EXPERTS MANUFACTURERS CORP



EAVE DETAIL

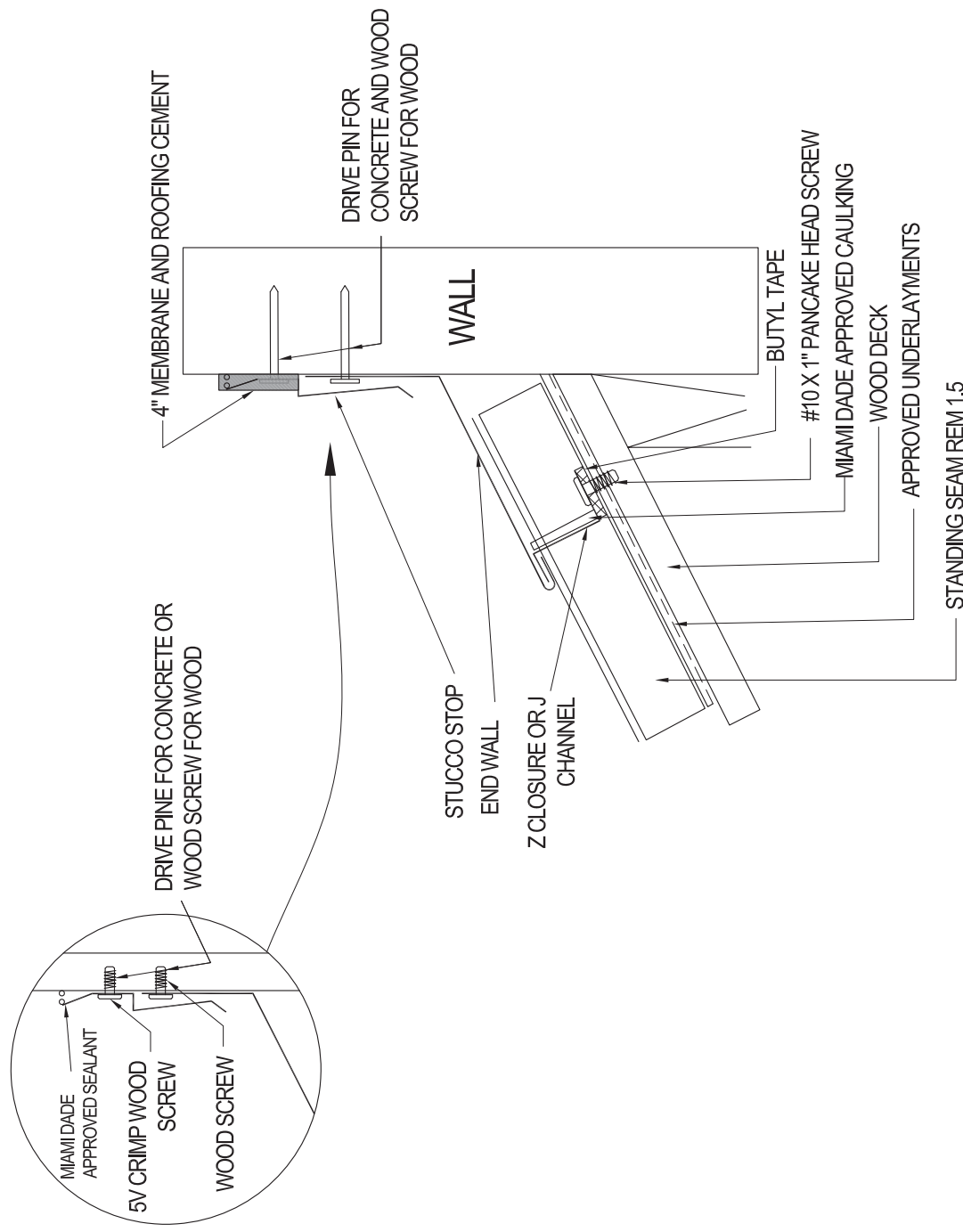


OPTION 2 SIDEWALL Z-L FLASHING DETAILS



END WALL DETAILS

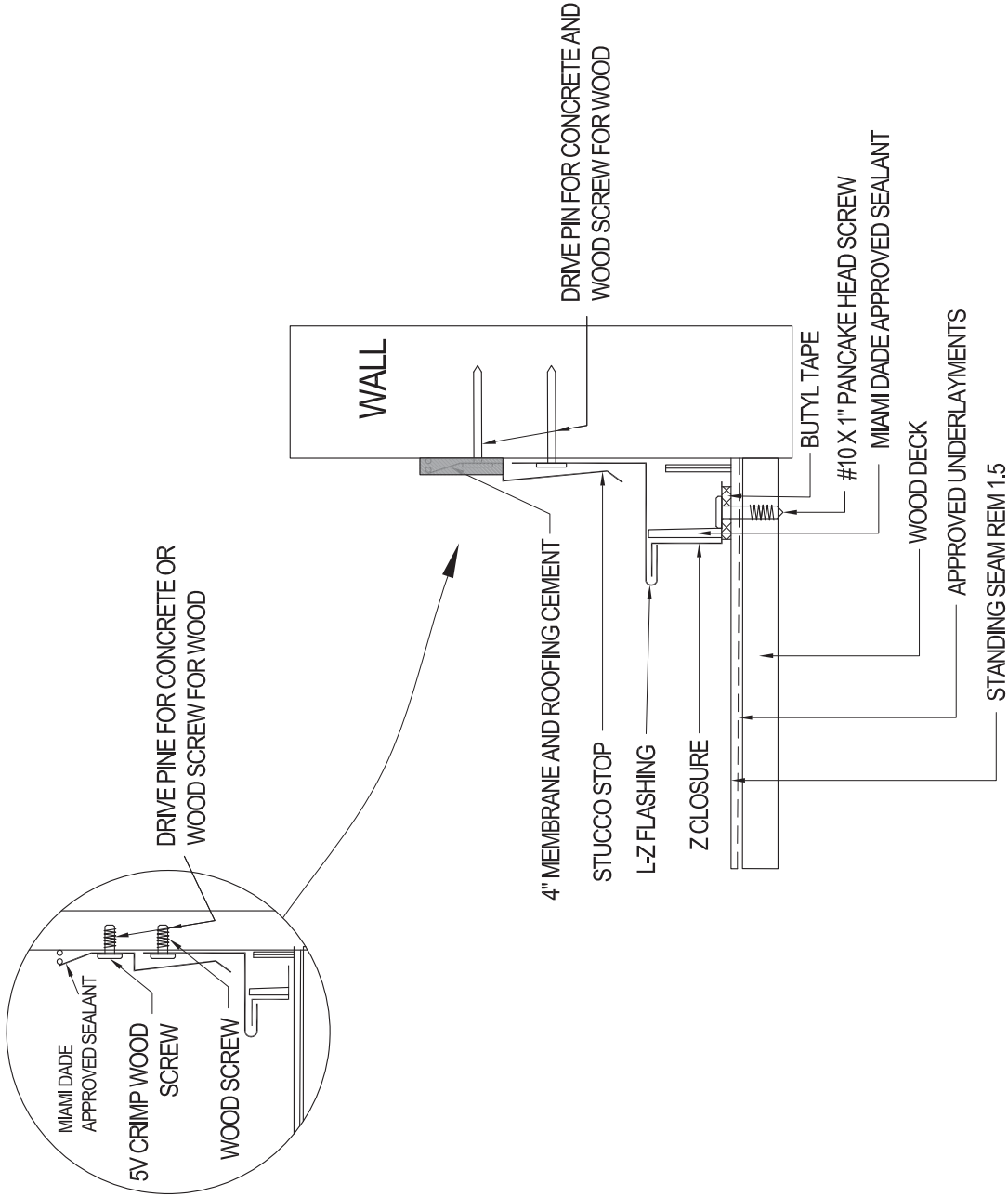
OPTION 2



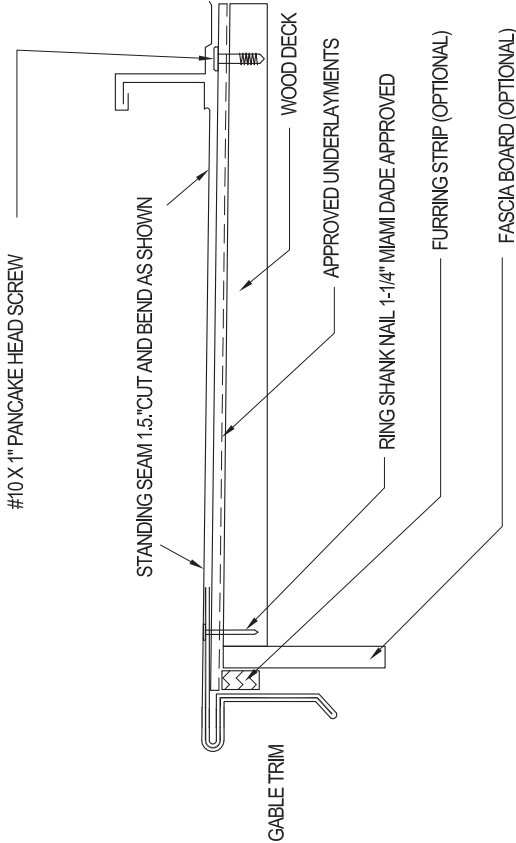
ROOFING EXPERTS MANUFACTURERS CORP

SIDE WALL DETAILS

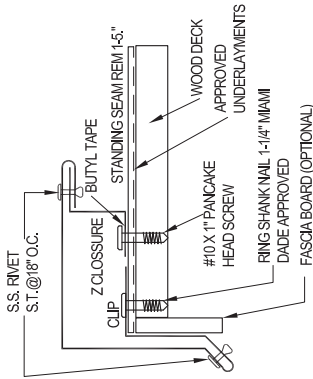
OPTION 2



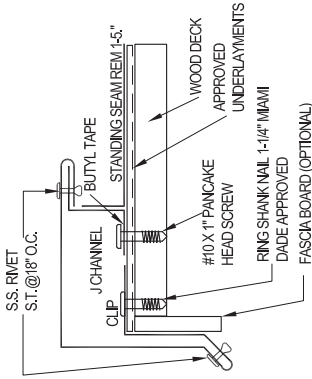
GABLE DETAIL



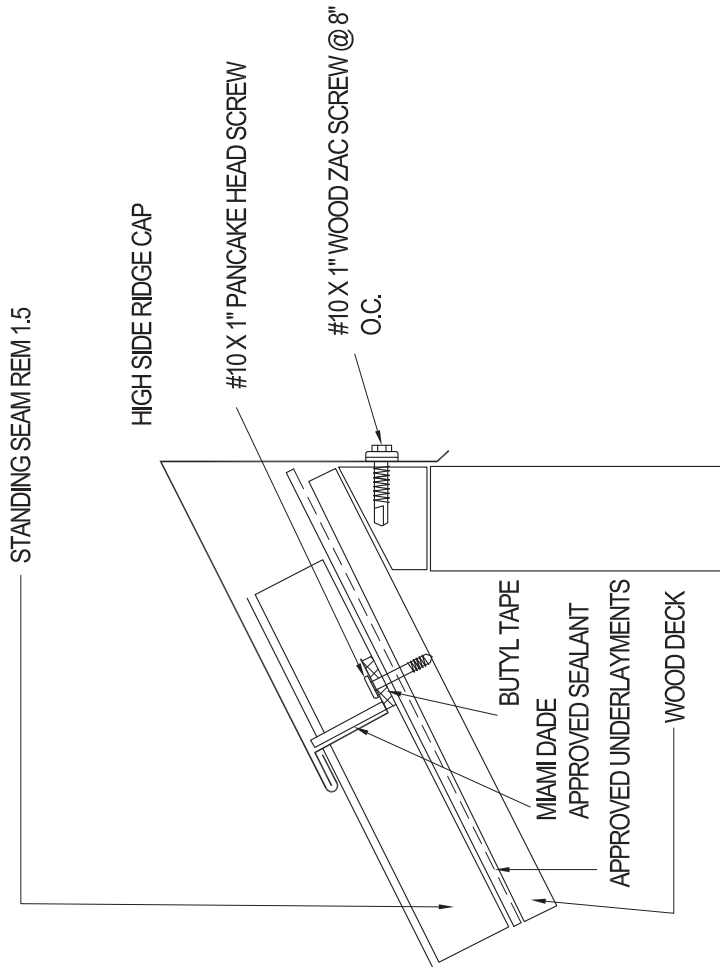
OPTION 1



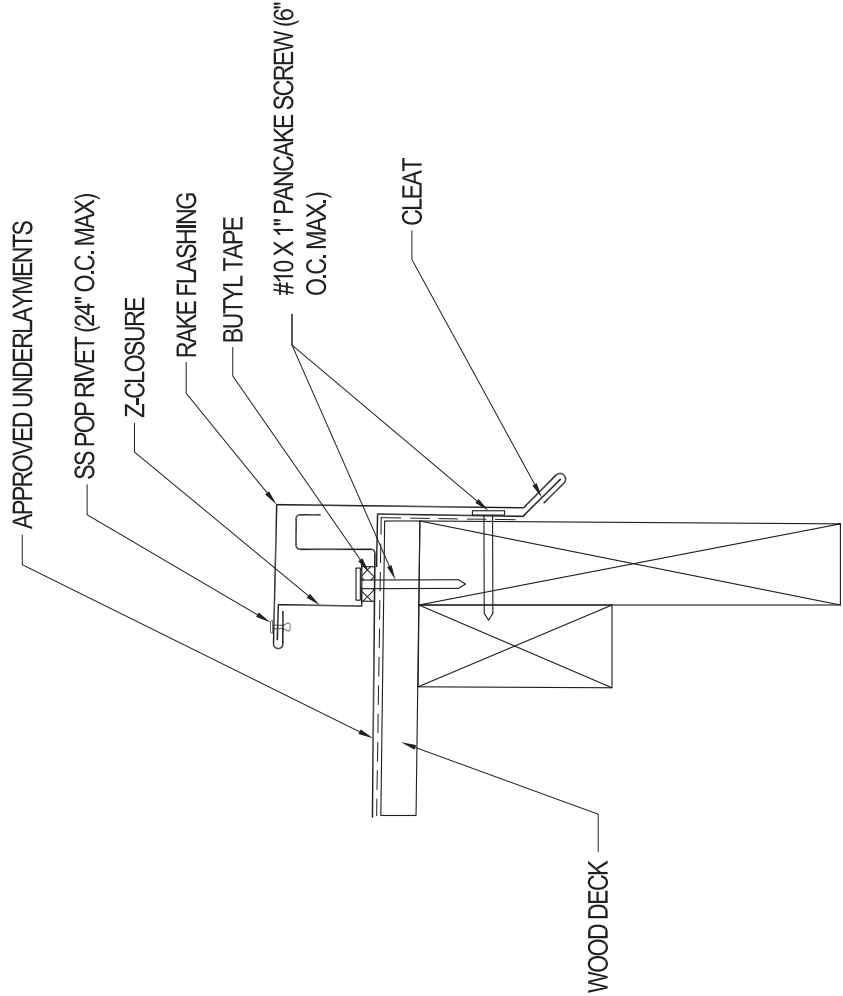
OPTION 2



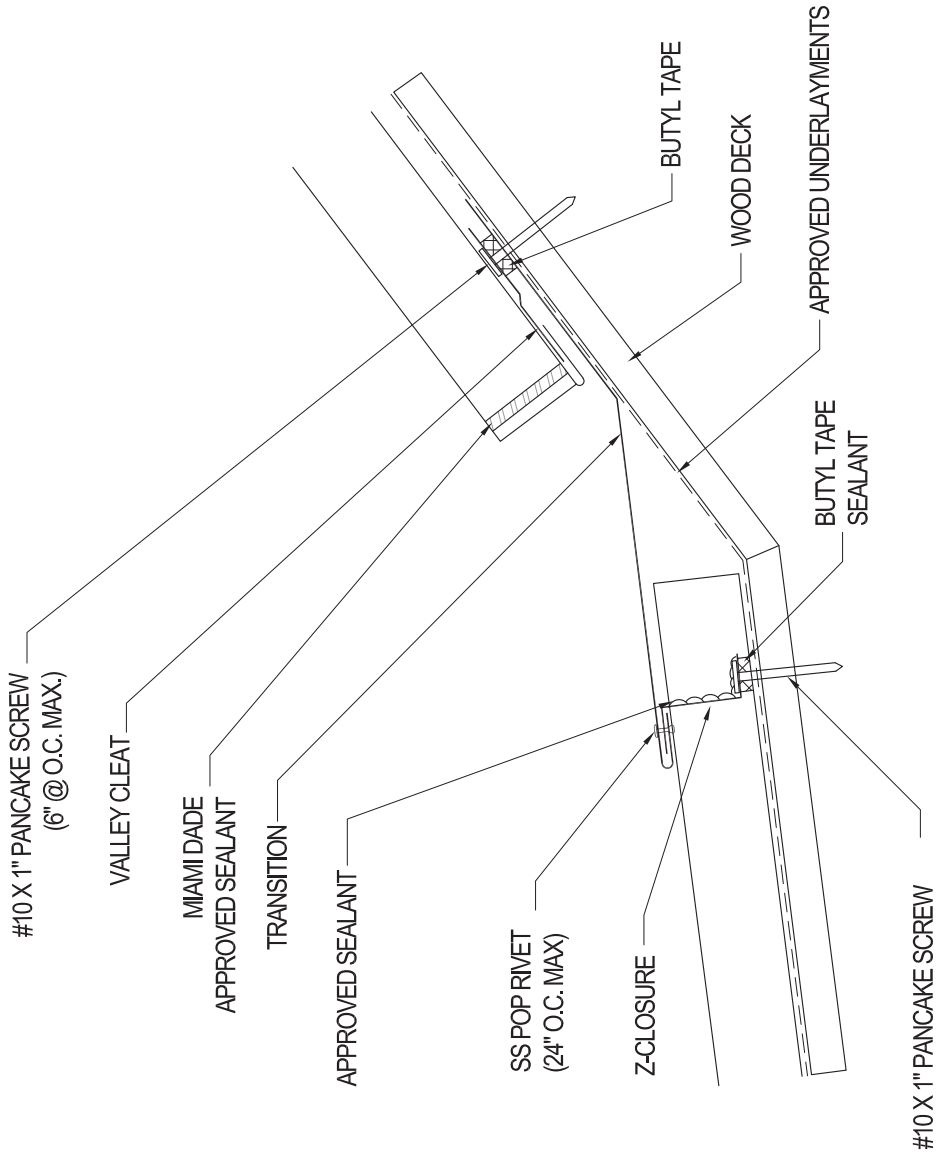
HIGH-SIDE RIDGE DETAIL



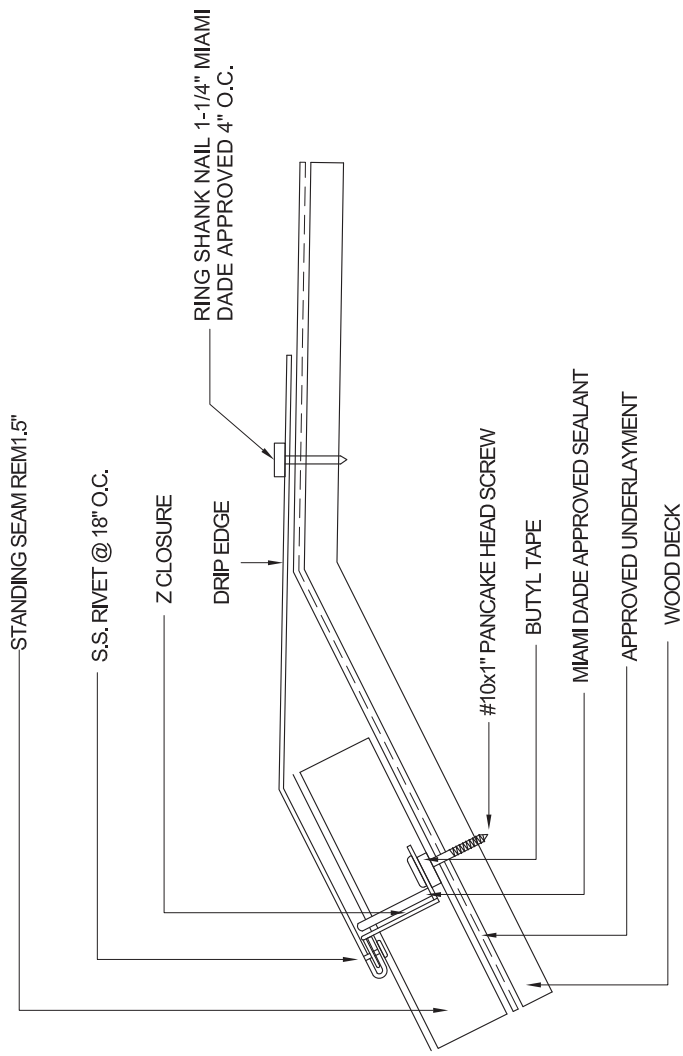
GABLE RAKE DETAIL



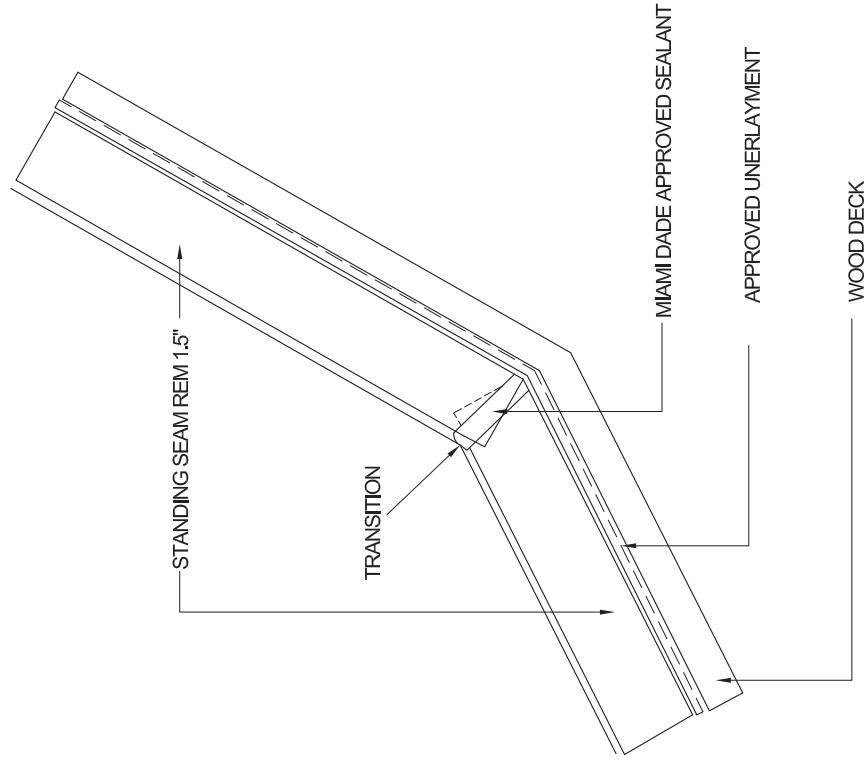
TRANSITION DETAIL



TRANSITION FLAT TO SLOPE DETAILS



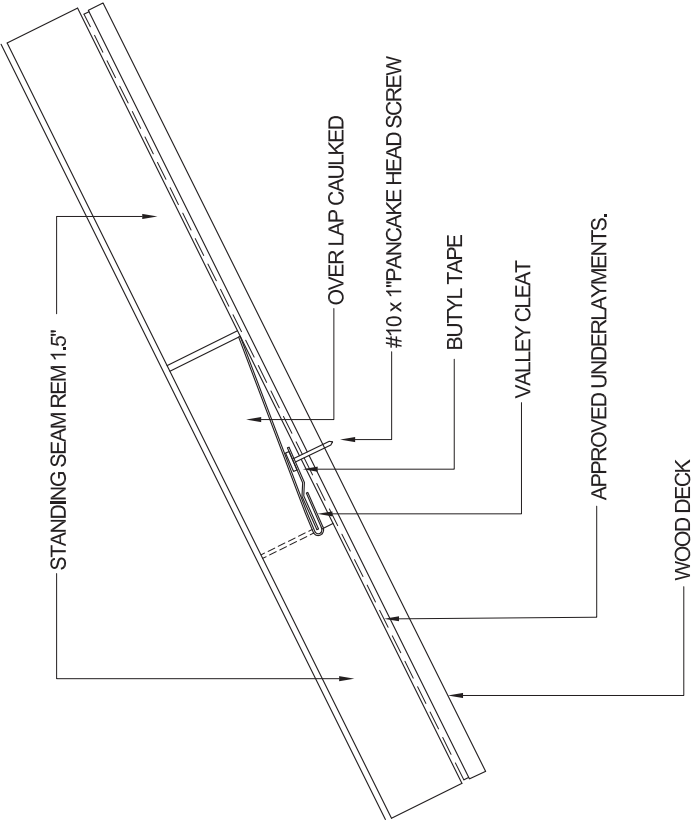
TRANSITION STEP TO LOW SLOPE DETAILS



ROOFING EXPERTS MANUFACTURERS CORP



PANEL SPLICE DETAILS

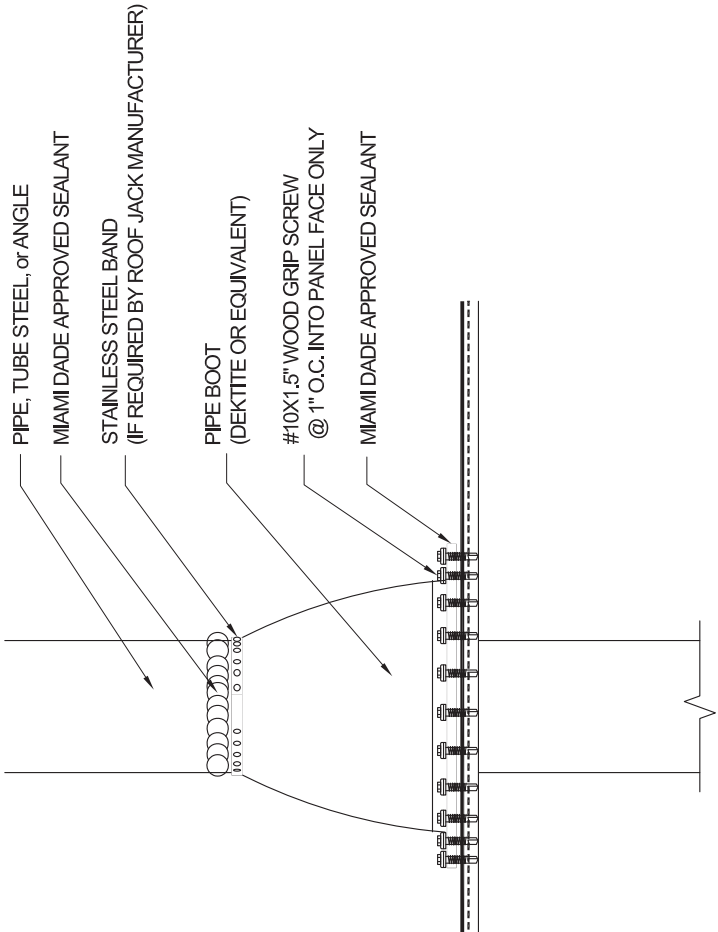


#10X1.5" WOODGRIP SCREW

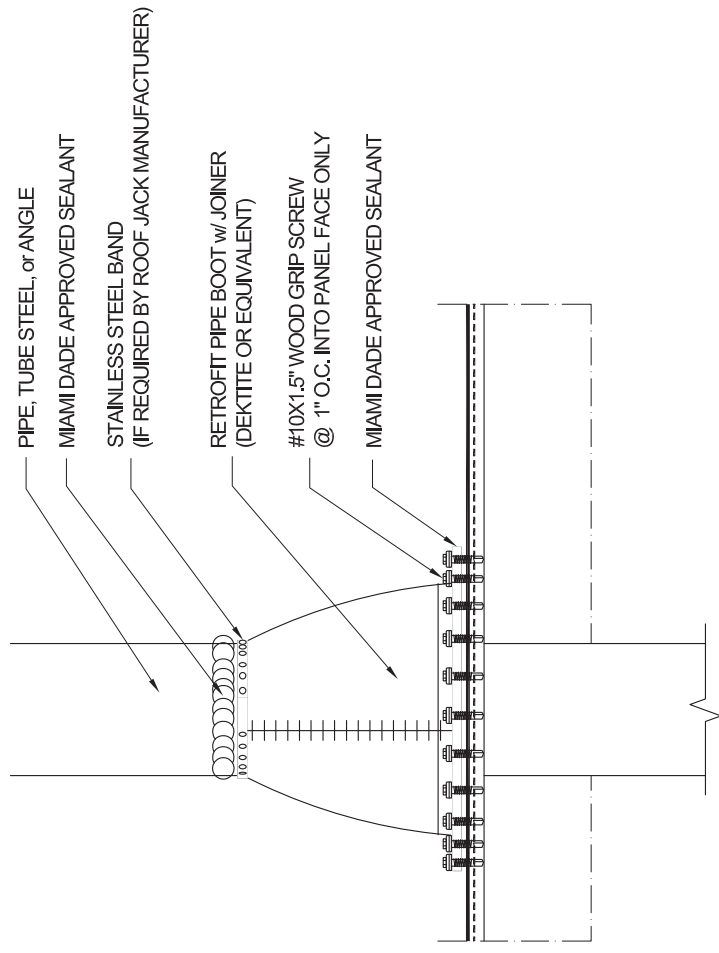
EMBED IN CAULK
TOP & BOTTOM



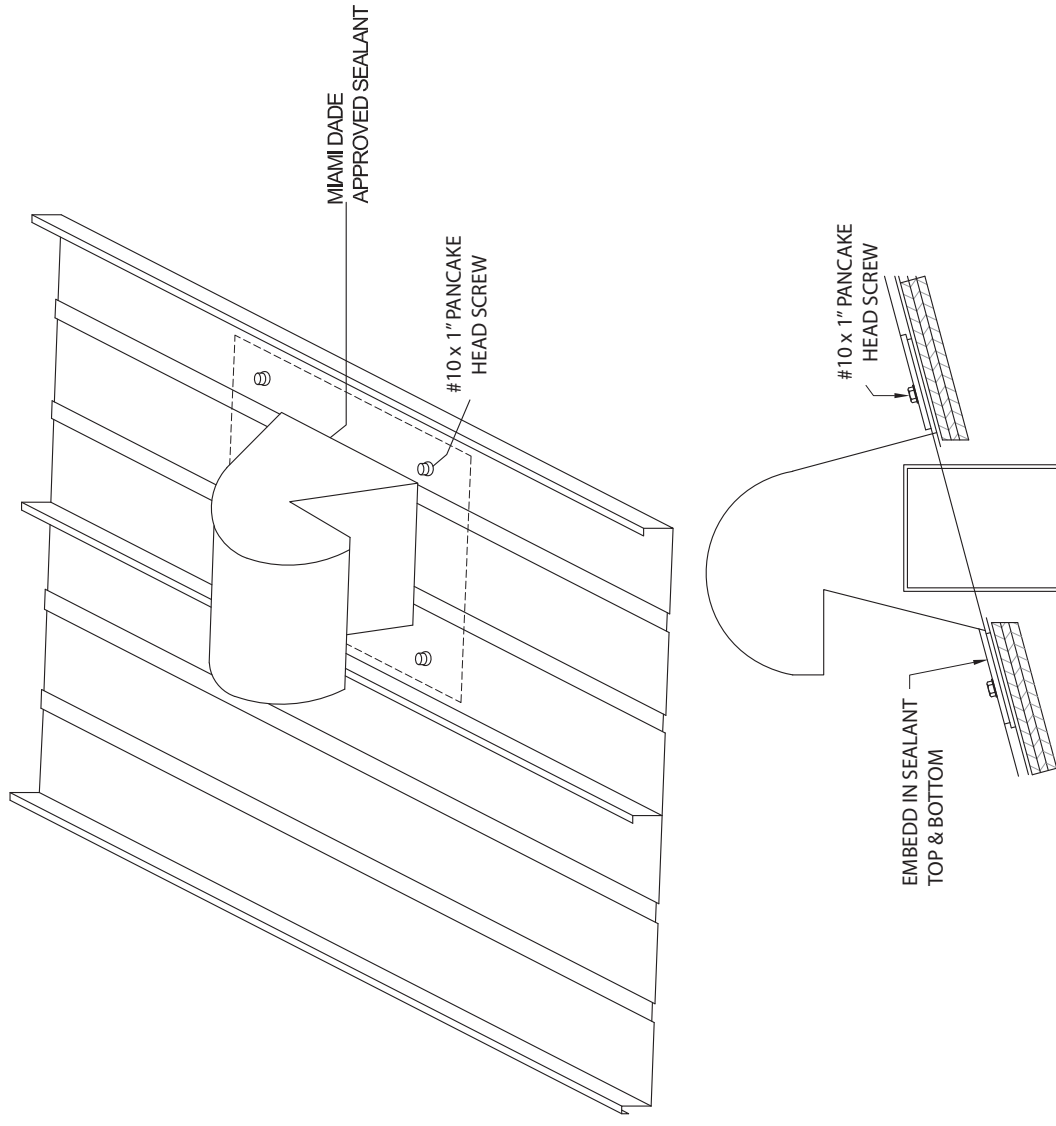
ROOF PENETRATION
PIPE BOOT



ROOF PENETRATION RETROFIR PIPE BOOT



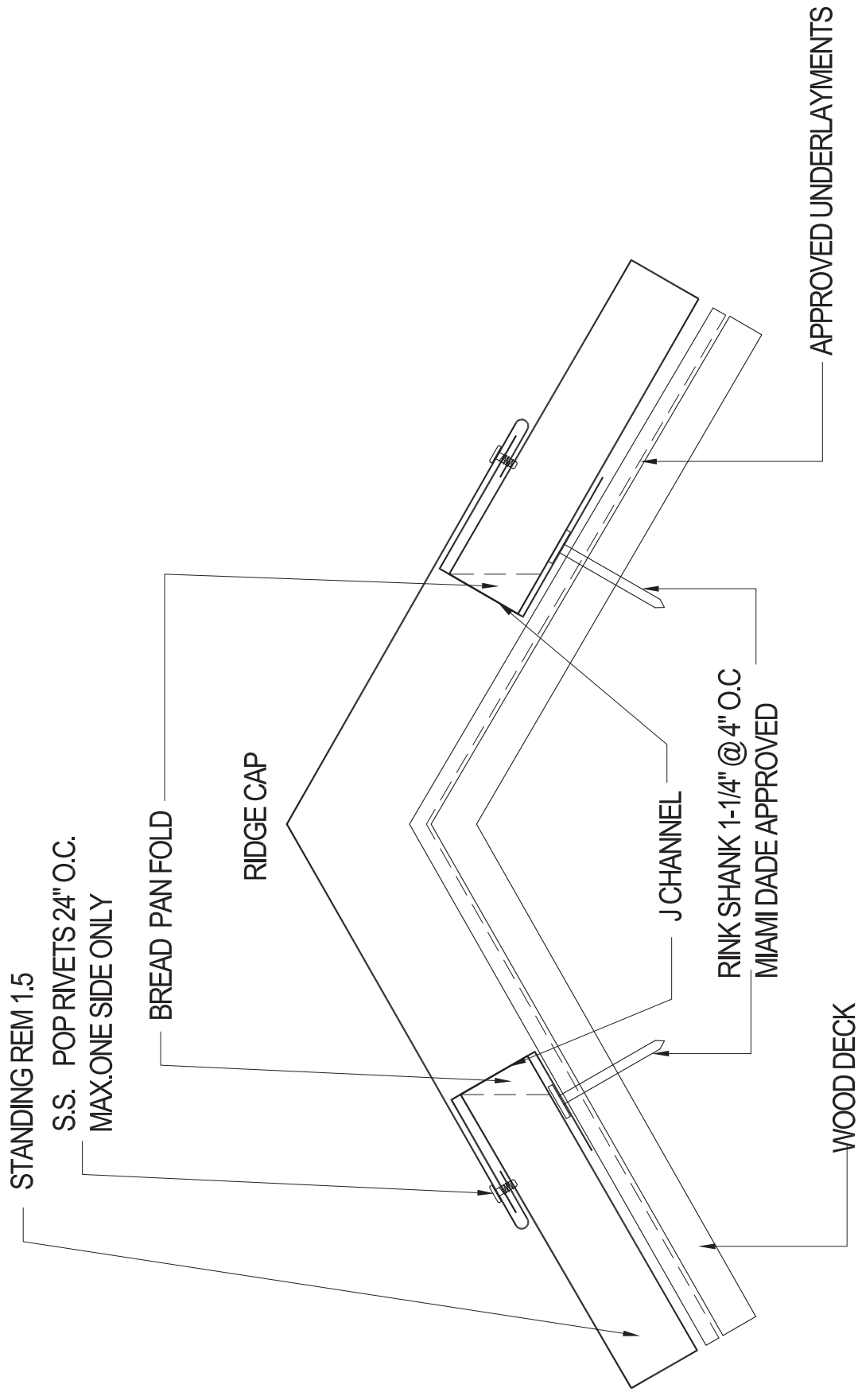
ROOF PENETRATION GOOSE NECK DETAIL



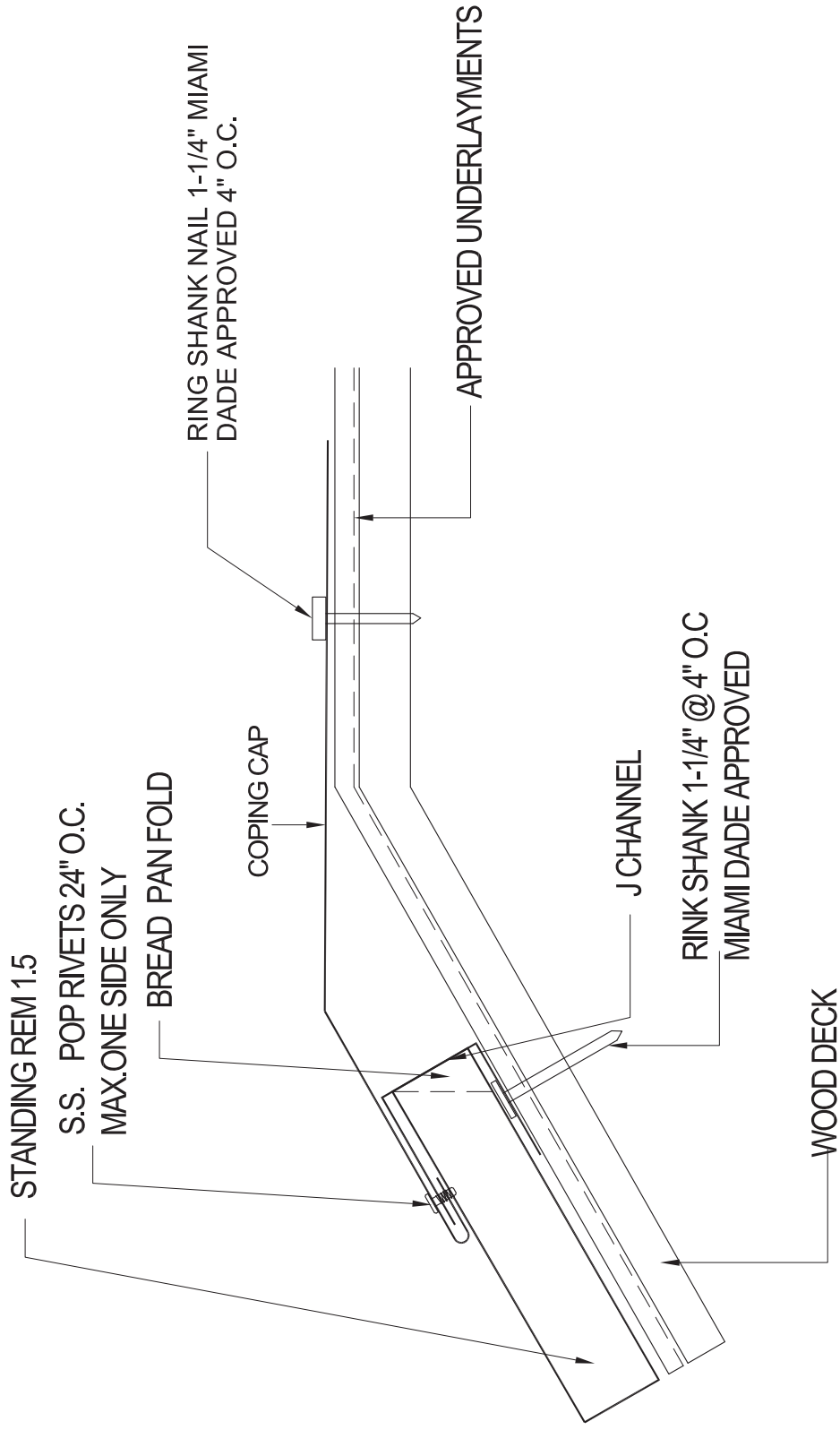
ROOFING EXPERTS MANUFACTURERS CORP



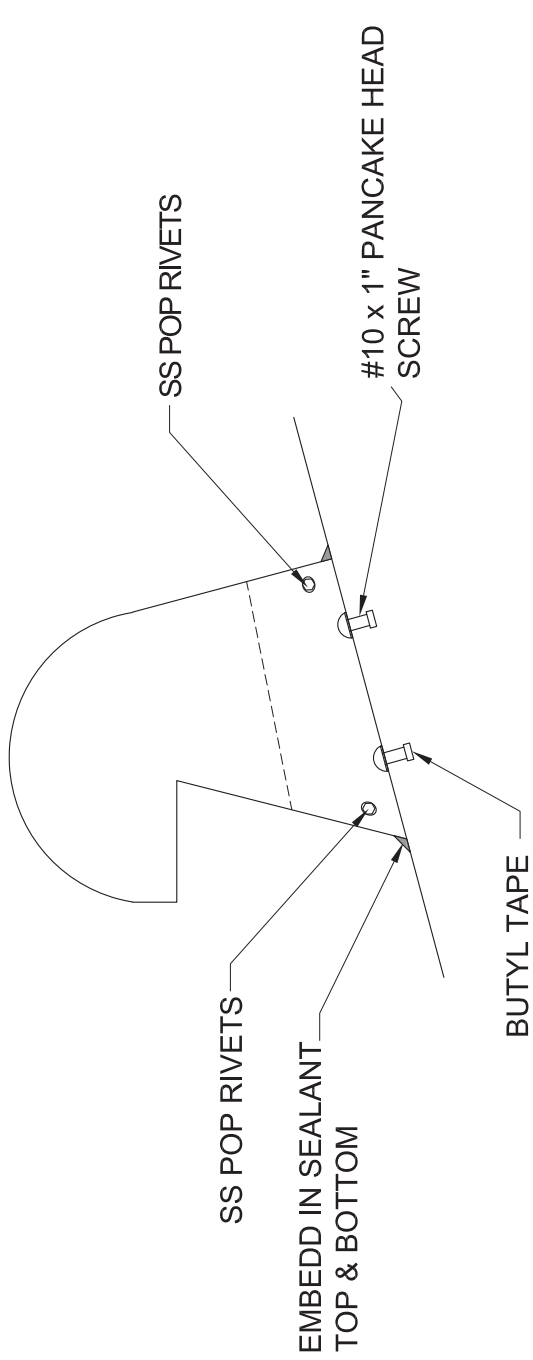
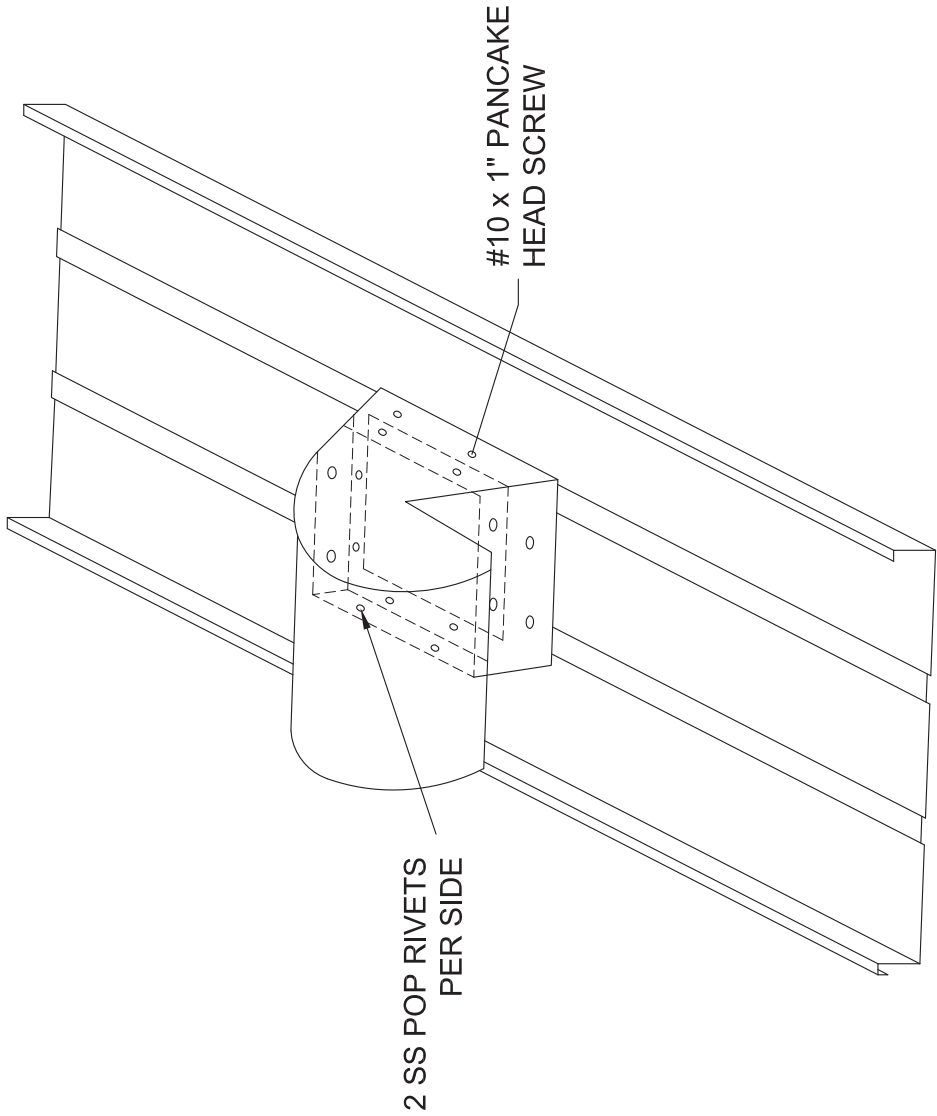
RIDGE/HIP WITH J CHANNEL DETAIL



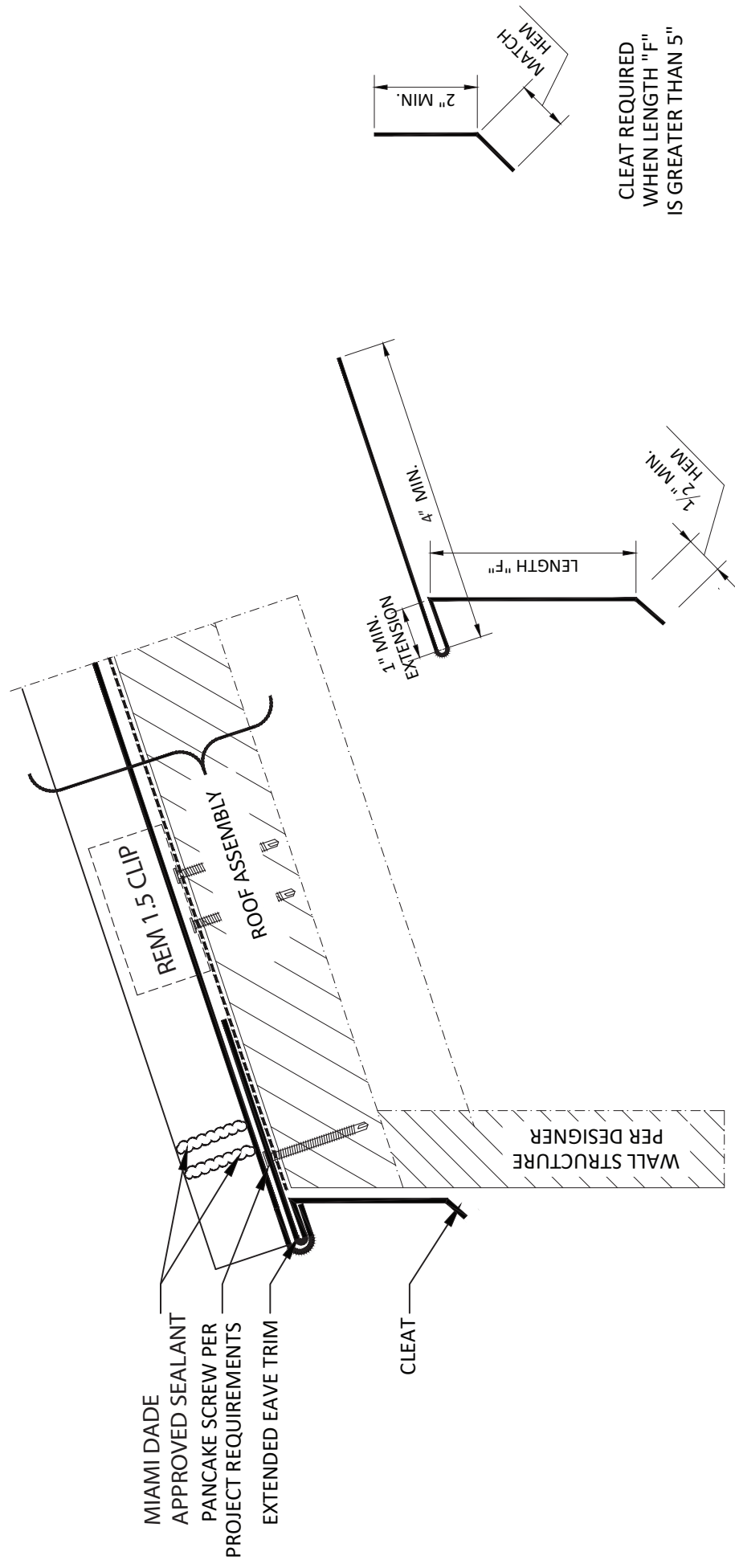
TRANSITION FLAT TO SLOPE WITH J CHANNEL DETAILS



ROOF PENETRATION
GOOSE NECK DETAIL



BULLNOSE DETAIL



HVHZ Electronic Roof Permit Form Waterproofing or Liquid Applied Roof Systems

***Denotes required user inputs. If an item does not apply enter n/a in that line.**

***Master Permit Number:**

***Job Address:**

***Application Date:**

***Process Number:**

***Waterproofing Manufacturer Name:**

***NOA Product Approval Number:**

Does this roof assembly comply with the requirements for a fire rating per section 1519.16.3 HVHZ Florida Building Code? * **Yes No**

Note: Submit current copies of the fire directory listing for the waterproofing assembly, manufacturer's installation details, and the current Miami-Dade County NOA Product Control Approval for review prior to issuing the waterproofing permit.

Note: This waterproofing assembly shall comply with all the requirements as listed in section 1519.16 Waterproofing located in the HVHZ section of the Florida Building Code.

* Plaza Deck * Parking Garage * Balcony * Other	*Deck Type: *Primer: ft²/gal *Insulation/Fire Barrier: *Number of Fasteners per Insulation Board P(1) Field: P(2) Perimeter: P(3) Corner: *Base Coat: *Slope: "/12" *Roof Mean Height: ft. *Roof Length: ft. *Roof Width: ft. *Maximum Design Pressure: psf *Estimated Value: \$
	*Coverage: ft²/gal *Membrane: *Intermediate Coat: *Coverage: ft²/gal *Top Coat: *Coverage: ft²/gal *Surfacing: *Overburden:

TGFU.R10845 - ROOFING SYSTEMS

Roofing Systems

See General Information for Roofing Systems

TREMCO INC

4475 E 175TH ST

CLEVELAND, OH 44128-3411 USA

R10845

1/2 in. thick (min) gypsum board or G-P Gypsum DensDeck® may be used in any existing noncombustible deck Classification. When this is done, the resulting roofing system is acceptable for use over combustible (15/32 in. min) roof decks. The joints in the gypsum board and overlayment board are offset 6 in. with the joints in the deck.

FLUID APPLIED COATING SYSTEMS**Class A****1. Deck: NC****Incline: 3****Primer:** — "No. 171", 250 sq ft/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 65 sq ft/gal.**Intermediate Coat:** — "No. 345", 100 sq ft/gal.**Aggregate:** — #24 mesh silicon carbide or silica sand, 10-15 lbs/100 sq ft.**Top Coat:** — "No. 346" or "451", 150 sq ft/gal.**System Identification:** — "Traffic Deck".**2. Deck: NC****Incline: 3****Primer:** — "No. 171", 250 sq ft/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 60 sq ft/gal.**Intermediate Coat:** — "No. 345", 100 sq ft/gal.**Aggregate:** — #24 mesh silicon carbide or silica sand, 10-15 lbs/100 sq ft.**Top Coat:** — "No. 346" or "451", 150 sq ft/gal.**System Identification:** — "Slope".**3. Deck: NC****Incline: 3****Primer:** — "No. 171", 250 sq ft/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 40 sq ft/gal.**Aggregate:** — Silica sand, 4-8 lbs/100 sq ft.**Top Coat:** — "No. 351", "451" or "Vulkem 351 White LV", 100 sq ft/gal.**System Identification:** — "Pedestrian".**4. Deck: NC****Incline: No Limitation****Primer:** — "No. 171", 125 sq ft/gal.**Top Coat:** — "No. 351", "451" or "Vulkem 351 White LV", 200 sq ft/gal.**Aggregate:** — Silica sand, 4-8 lbs/200 sq ft.**System Identification:** — "351".**5. Deck: NC****Incline: 1-1/2****Primer (Optional):** — "No. 171", 250 sq ft/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 55 sq ft/gal.**Top Coat:** — "Vulkem 351NF" or "346NF", 125 sq ft/gal.**Surfacing:** — Silica sand, 4-8 lbs/100 sq ft

System Identification: — "Pedestrian Deck".

6. Deck: NC

Incline: 1-1/2

Primer (Optional): — "No. 171", 250 sq ft/gal.

Base Coat: — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 65 sq ft/gal.

Intermediate: — "Vulkem 345NF", 100 sq ft/gal.

Top Coat: — "Vulkem 351NF" or "346NF", 200 sq ft/gal.

Surfacing: — Silica sand, 10-15 lbs/100 sq ft.

7. Deck: NC

Incline: 2

Primer (Optional): — "No. 171", 250 sq ft/gal.

Base Coat: — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 65 sq ft/gal.

Intermediate: — "Vulkem 950NF", 125 sq ft/gal.

Aggregate: — Silica sand, 20-30 mesh blend, 12 lb/100 sq ft

Top Coat: — "Vulkem 951NF", 125 sq ft/gal.

System Identification: — "Traffic Deck".

8. Deck: NC

Incline: 1

Primer (Optional): — "No. 171", 250 sq ft/gal.

Base Coat: — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 40 sq ft/gal.

Aggregate: — Silica Sand, 40-50 mesh blend, 4-6 lbs/100 sq ft.

Top Coat: — "Vulkem 950NF", 100 sq ft/gal.

System Identification: — "Pedestrian".

9. Deck: NC

Incline: 1

Membrane: — "TP6100", applied to a thickness of 125 to 215 mils.

Insulation: — Any UL Classified extruded or expanded polystyrene, any thickness.

Surfacing: — River bottom stone (3/4 to 1-1/2 in. diameter), 1000 lb/sq. concrete locks 10 lb/sq ft. min, spread not more than 1/4 in. apart or Lightguard panels surfaced with 5/16 in. min. concrete mortar, butted together.

10. Deck: NC

Incline: 2

Primer (Optional): — "No. 171", 250 sq ft/gal.

Base Coat: — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 40 sq ft/gal.

Aggregate: — Silica sand, 20-30 mesh blend, 12 lb/100 sq ft.

Top Coat: — "Vulkem 951NF", 125sq ft/gal.

System Identification: — "Traffic Deck".

11. Deck: NC

Incline: 2

Base Coat (Not UL Classified): — "TREMPrime Multi Surface Urethane Primer" applied at 100-400 sq ft/gal.

Top Coat: — "Vulkem OC 810" applied at 40-45 sq ft/gal.

Granules: — Rubber Aggregate 12-20 mesh, applied at 2.5-2.9 lbs/sq into the top coating.

12. Deck: NC

Incline: 1/2

Base Coat (Not UL Classified): — "Vulkem 191 Low VOC Primer" applied at 100-400 sq ft/gal.

Top Coat: — "Vulkem OC 810" applied at 40-45 sq ft/gal.

Granules: — Rubber Aggregate 12-20 mesh, applied at 2.5-2.9 lbs/sq into the top coating.

13. Deck: NC

Incline: 3

Primer Coat: — "Tremco PUMA Primer", applied at 17-20 mils.

Base Coat: — "Tremco PUMA BC" applied at 80 mils.

Intermediate Coat: — "Tremco PUMA WC" applied at 60-65 mils.

Aggregate: — Aluminum oxide or silica sand at 125 lbs/sq.

Top Coat: — "Tremco PUMA TC Tintable", "Tremco PUMA TC Clear", "Tremco PUMA TC Gray", "Tremco PUMA TC Slate Gray", "Tremco PUMA TC Decorative", or "Tremco PUMA TC White", applied at 12-20 mils.

14. Deck: NC

Incline: 3

Primer Coat: — "Tremco PUMA Primer", applied at 17-20 mils.

Base Coat: — "Tremco PUMA BC" applied at 60 mils.

Aggregate: — Aluminum oxide or silica sand at 80 lbs/sq.

Top Coat: — "Tremco PUMA TC Tintable", "Tremco PUMA TC Clear", "Tremco PUMA TC Gray", "Tremco PUMA TC Slate Gray", "Tremco PUMA TC Decorative", or "Tremco PUMA TC White", applied at 15-20 mils.

15. Deck: NC

Incline: 2

Base Coat: — "No. 350", applied at 40 ft²/gal

Intermediate Coat: — "No. 351", applied at 107 ft²/gal

Aggregate: — #40-50 mesh silica sand or aluminum oxide, applied at 12-18 lbs/100 ft².

16. Deck: NC

Incline: 1

Base Coat: — "No. 350", applied at 64 ft²/gal

Primer: — "Tremco Epoxy Primer", applied at 107 ft²/gal

Aggregate: — #20-30 mesh silica sand or aluminum oxide, applied at 12-18 lbs/100 ft².

Top Coat: — "No. 346", applied at 107 ft²/gal

17. Deck: NC

Incline: 1

Base Coat: — "No. 350", applied at 40 ft²/gal

Primer: — "Tremco Epoxy Primer", applied at 150 ft²/gal

Aggregate: — #20-40 mesh silica sand, applied at 10 lbs/100 ft².

Surfacing: — 1/4-in. thick ceramic tile, adhered in thin-set and grouted per the manufacturer's installation instructions (Not UL Classified).

Last Updated on 2019-09-23

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

Tremco, Inc.
23150 Commerce Park Dr.
Beachwood, OH 44122

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Vulkem 350NF / Tremco Epoxy Primer

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA# 15-0127.01 and consists of pages 1 through 4.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 20-0629.08
Expiration Date: 11/12/25
Approval Date: 08/13/20
Page 1 of 4

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing
Material Polyurethane
Deck Type: Concrete
Maximum Design Pressure -502.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Vulkem® 350NF	5 gal. pail or 55 gal. drums	ASTM C 836 ASTM C 957	One part, Low VOC polyurethane basecoat waterproofing membrane.
Tremco Epoxy Primer	1 and 5 gal. pails	ASTM D41	Two Part epoxy primer for use with Vulkem 350NF

PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Ceramic Tiles	Min. 6" x 6" x 0.375"	ANSI 137.1	Ceramic Floor Tile	Generic
Thin-Set Mortar	n/a	ANSI A118.4 and ANSI A118.11	Polymer modified thin-set mortar.	Generic
Unimin Aggregate	n/a	n/a	2040 (20-30 mesh size) Silicone Dioxide (Silica) Aggregate	Generic

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Product Date</u>
PRI Construction Materials	TRE-147-02-01	TAS 114-D	10/05/15
Technologies LLC	TRE-147-02-01	ASTM C 957	10/05/15



NOA No.: 20-0629.08
Expiration Date: 11/12/25
Approval Date: 08/13/20
Page 2 of 4

APPROVED APPLICATIONS:

Deck Type 3	Concrete Decks
Deck Description:	Min. 2500 psi, with ceramic tile
System Types F(1):	Vulkem® 350NF / Epoxy Primer
Substrate:	Structural concrete shall be water cured prior to application of membrane. Venting of pan decking from the underside is recommended to facilitate drying of the deck. The curing method must be a water cure, wet coverings, paper sheets, plastic sheets or approved liquid curing compound such as sodium silicate.
Substrate Preparation:	All surfaces must be dry and clean, free of depressions, spalled areas, honeycombs, or voids. Clean and free of any non-compatible curing compounds, release agents and other surface contaminants. Substrate shall be smooth with a hair broom finish. Preferably water cured.
Primer:	Primer not required. Refer to manufacturer's recommendation or code requirements.
Base Coat:	Apply 40 wet mils of Vulkem® 350NF to the entire area excluding expansion joints. Use a V-notched squeegee, followed by back rolling to evenly distribute coating and eliminate pinholes. Base coat shall be allowed to cure in accordance with manufacturer's instructions to a firm but tacky rubber. For control joints or cracks, refer to the manufacturer's instructions.
Top Coat:	Apply a top coat of Tremco Epoxy Primer to a minimum thickness of 10-12 wet mils by brush or short nap roller to the entire area. While wet, immediately broadcast 20-40 mesh silica aggregate into Tremco Epoxy Primer at a rate of 12.5 pounds per gallon* of Tremco Epoxy Primer. Allow to cure per manufacturers application instructions before proceeding. *The seeding of the aggregate shall be with an even, light broadcast just short of refusal. Any loose aggregate must be removed prior to proceeding.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	A representative of the membrane manufacturer, or Tremco Approved Inspection consultant, or Approved Tremco distributor Technical Representative shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Surfacing:	Minimum 6" x 6" x 0.375" thick ceramic tile shall be installed in thin-set. Thin-set shall be prepared as specified by thin-set manufacturer. Tile should then be carefully embedded in the thin-set and tapped in place to insure full solid bearing.
Maximum Design Pressure:	-502.5 psf. (See General Limitation #9)



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Required integrity flood testing report shall be provided to the Building Official for review at time of final inspection.
3. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by Tremco, Inc. Tremco, Inc., shall supply a list of approved applicators to the authority having jurisdiction.
4. Tremco, Inc., Vulkem 350NF shall not be exposed to the weather and shall be protected by a protection sheet or other approved protection method from traffic.
5. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by Tremco, Inc., shall be submitted to the Building Official for review.
6. Tremco, Inc., Vulkem 350NF shall not be installed without consultation with Tremco, Inc., if ambient or surface temperature is below 0°F. Do not apply to wet or frozen concrete surface.
7. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and the wind load requirements of applicable Building Code.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
11. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
12. All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below



END OF THIS ACCEPTANCE



NOA No.: 20-0629.08
Expiration Date: 11/12/25
Approval Date: 08/13/20
Page 4 of 4