



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)

Metal Sales Manufacturing Corporation
7800 Highway 60
Sellersburg, IN 47172

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.024" (min.) Galvanized Structural Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. MS, titled "PBR-Panel Profile", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated November 28, 2023, signed and sealed by Yoosef Lavi, P.E., on November 28, 2023 bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, Jacksonville, FL and the 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 **revises and renews** NOA #20-0331.03 and consists of this page 1, evidence submitted pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
04/24/25

NOA No. 23-1214.05
Expiration Date: 04/22/2030
Approval Date: 04/24/2025
Page 1

Metal Sales Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-1210.03

A. DRAWINGS

1. *Drawing No. R-W, titled "PER-Panel Profile ", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated April 13, 2005, signed and sealed by Yoosef Lavi, P.E. on May 04, 2005.*

B. TEST

1. *Test report on Uniform Static Air Pressure test and Air & Water Infiltration tests on Roof Panels over Galvanized Steel supports prepared by Farabaugh Engineering and Testing, Inc., report No. T270-02, dated November 5, 2002, signed and sealed by Daniel G. Farabaugh, P.E.*
2. *Test report on Uniform Static Air Pressure test and Air & Water Infiltration tests on Roof Panels over Galvanized Steel supports prepared by Farabaugh Engineering and Testing, Inc., report No. T301-02, dated November 5, 2002, signed and sealed by Daniel G. Farabaugh, P.E.*
3. *Test report on Large Missile Impact test on Roof Panels over Galvanized Steel supports prepared by Farabaugh Engineering and Testing, Inc., report No. T298-02, dated November 17, 2002, signed and sealed by Daniel G. Farabaugh, P.E.*
4. *Susceptibility to leakage test in accordance with Protocol PA 114 Appendix G, prepared by Farabaugh Engineering and Testing, Inc., report No. T303-02, dated December 20, 2002, signed and sealed by Daniel G. Farabaugh, P.E.*
5. *Test report on Salt Spray Testing of Coating 1000 hours per ASTM B117-95, prepared by Valspar, dated 05/14/2001, signed by A. N Dunlop.*
6. *Test report on Accelerated Weathering Testing of Coating 2000 hours per ASTM G23, prepared by Valspar, dated 05/14/2001, signed by A. N Dunlop.*
7. *Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof System, prepared by Architectural Testing, Test Report No. 01-44143.01, dated April 04, 2003, signed and sealed by Joseph A. Reed, P.E.*

C. CALCULATIONS

1. *Panel allowable calculation and Fasteners verification prepared by John M Dahdah, P.E., 4 pages, dated February 16, 2004.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION

1. *Tensile test report of metal panel, prepared by Architectural Testing, Test Report No. 01-44143.01, dated April 04, 2003, signed and sealed by Joseph A. Reed, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1214.05
Expiration Date: 04/22/2030
Approval Date: 04/24/2025

Metal Sales Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #10-0427.04

A. DRAWINGS

1. *Drawing No. MS, titled "PBR-Panel Profile", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated March 24, 2010, signed and sealed by Yoosef Lavi, P.E. on March 24, 2010.*

B. TEST

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #15-0318.02

A. DRAWINGS

1. *Drawing No. MS, titled "PBR-Panel Profile", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated April 24, 2015, signed and sealed by Yoosef Lavi, P.E. on May 05, 2015.*

B. TEST

1. *Test report on Uniform Static Air Pressure test on Roof Panels over Galvanized Steel supports per TAS 125-03 (ASTM E1592), prepared by Farabaugh Engineering and Testing, Inc., report No. T125-15, dated March 03, 2015, signed and sealed by Daniel G. Farabaugh, P.E.*

C. CALCULATIONS

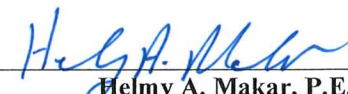
1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County department of Regulatory and economic Resources.*

E. MATERIAL CERTIFICATION

1. *Tensile test report of metal panel, Farabaugh Engineering and Testing, Inc., report No. T125-15, dated March 03, 2015, signed and sealed by Daniel G. Farabaugh, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1214.05
Expiration Date: 04/22/2030
Approval Date: 04/24/2025

Metal Sales Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #15-0601.02

A. DRAWINGS

1. *Drawing No. MS, titled "PER-Panel Profile", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated May 22, 2015, signed and sealed by Yoosef Lavi, P.E. on July 06, 2015.*

B. TEST

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County department of Regulatory and economic Resources.*

E. MATERIAL CERTIFICATION

1. *None.*

5. EVIDENCE SUBMITTED UNDER NOA #18-0131.04

A. DRAWINGS

1. *Drawing No. MS, titled "PER-Panel Profile", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated December 08, 2017, signed and sealed by Yoosef Lavi, P.E. on December 30, 2017.*

B. TEST

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County department of Regulatory and economic Resources.*

E. MATERIAL CERTIFICATION

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1214.05
Expiration Date: 04/22/2030
Approval Date: 04/24/2025

Metal Sales Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. EVIDENCE SUBMITTED UNDER NOA #20-0331.03

A. DRAWINGS

1. *Drawing No. MS, titled " PER-Panel Profile ", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated December 08, 2017, signed and sealed by Yoosef Lavi, P.E. on December 30, 2017.*

B. TEST

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County department of Regulatory and economic Resources.*

E. MATERIAL CERTIFICATION

1. *None.*

7. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. MS, titled "PBR-Panel Profile", sheet 1 through 12 of 12, prepared by Yoosef Lavi, P.E., dated November 28, 2023, signed and sealed by Yoosef Lavi, P.E., on November 28, 2023.*

B. TEST

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County department of Regulatory and economic Resources.*

E. MATERIAL CERTIFICATION

1. *None.*

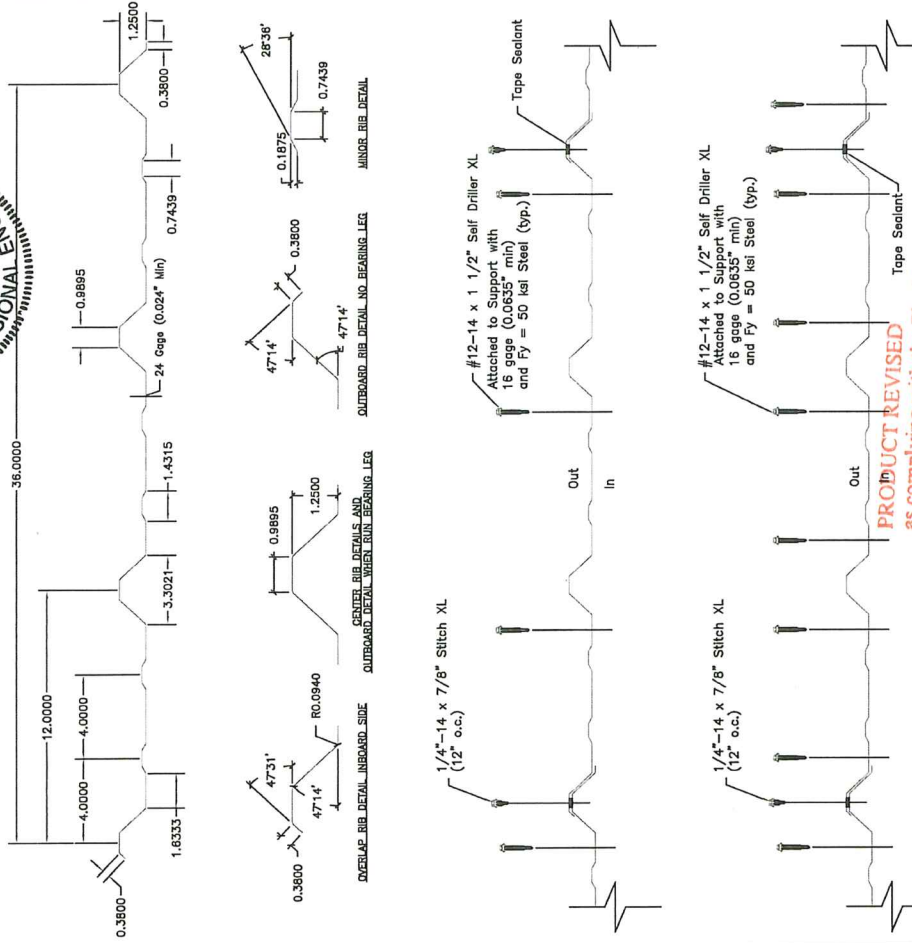
F. STATEMENTS

1. *FBC, 2023 Edition Compliance Letter issued by Metal Sales Manufacturing Corporation, dated November 29, 2023, signed and sealed by Yoosef Lavi, P.E., on November 28, 2023.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1214.05
Expiration Date: 04/22/2030
Approval Date: 04/24/2025

YOUSSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75008
T: (214)340-0049



The structural Roof PBR-Panel shown on this Product Approval Document has been designed in accordance with of the Florida Building Code 2023, 8th Edition. Design wind loads shall be determined as per Section 1609 of the above mentioned code and in accordance w/ ASCE 7-22 standard.

All steel sheet metal Roof PBR-Panels shall be 24 ga. (0.024" min.) and conforms to structural quality ASTM A792, Grade D, with $F_y=50$ ksi (minimum).

All screws to be Hex Head, Self-Drilling, Non Corrosive "Zac" Screws as manufactured by SFS Intec.

Installation of this Roof PBR-Panel shall be based on this Product Approval Document with NO deviation from the conditions detailed on this document.

Installation of this Roof PBR-Panel shall be onto purlins with 16 ga. (0.0635" min. thickness) with fasteners as shown on this Product Approval Document.

This Product Approval Document will be considered invalid if modified.

Site specific projects shall be prepared by a Florida Registered Engineer or Architect which will become the professional of record (P.O.R.) for the project and who will be responsible for the proper use of this P.A.D.

This Roof PBR-Panel's manufacturer's permanent label shall be placed at bottom of each panel.

The Permanent Label shall read as follows:
Metal Sales Manufacturing Corp.
Sellersburg, Indiana
Miami-Dade County Product Control Approved.

This 24 ga. (0.024" min.) Roof PBR-Panel shall be used for roof construction only. Every Roof PBR-Panel project shall be constructed using the same details shown on this drawing including:

1. Details of all panel material characteristics and sections with dimensions and thickness.
2. Assembly details including all connections and fastener diagram with size and location.
3. Panel maximum design pressure for the roof field, perimeter, and corner zones shall be equal to or less than the lowest pressure obtained from the panel allowables shown below.

The maximum uplift design pressure for this 24 ga. (0.024" min.) Roof PBR-Panel in the roof's field, perimeter, and corner zones shall be the lowest pressure calculated based on the following panels allowable:

1. Maximum allowable bending moment of panel at supports = 107.5 ft.-lbs.*
2. Maximum allowable bending moment of panel between supports = 86 ft.-lbs.*
3. El value of panel = 1,284,827 lbs.-in²
4. Maximum allowable deflection of the roof panel = L/240.
5. Maximum support reaction = 236.5 lbs.*

Maximum allowable Roof PBR-Panel's Span = 5.00 ft.

metal sales
manufacturing corporation



File Name: PBR-Panel Profile

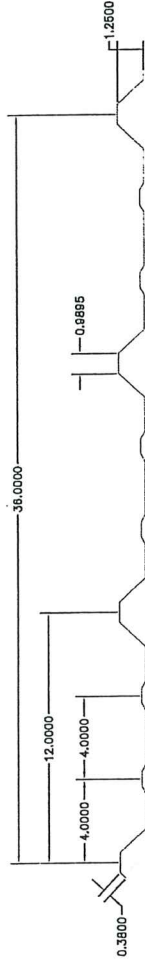
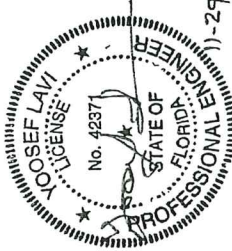
Date: 11/28/2023 Scale: None Dwg# 1 of 12

PRODUCT REVISED
as complying with the Florida
Building Code

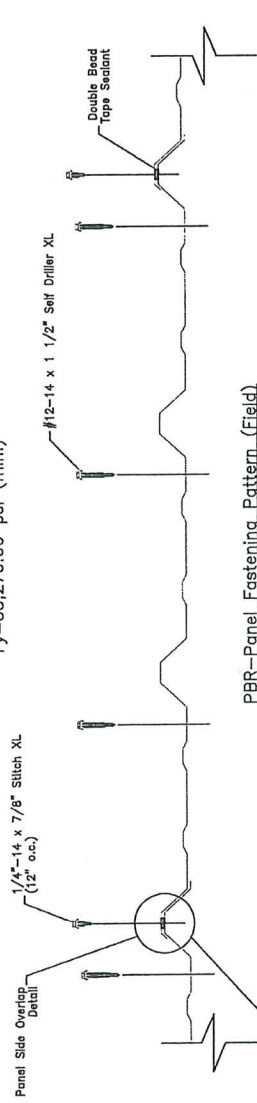
Acceptance No 23-1214.05
Expiration Date 04/22/2030

By Hedy A. Melan
Miami Dade Product Control

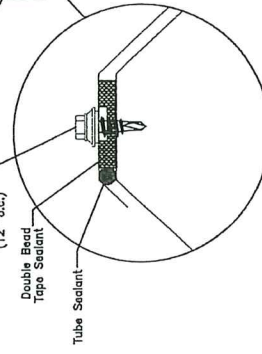
YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75008
T: (214)340-0049



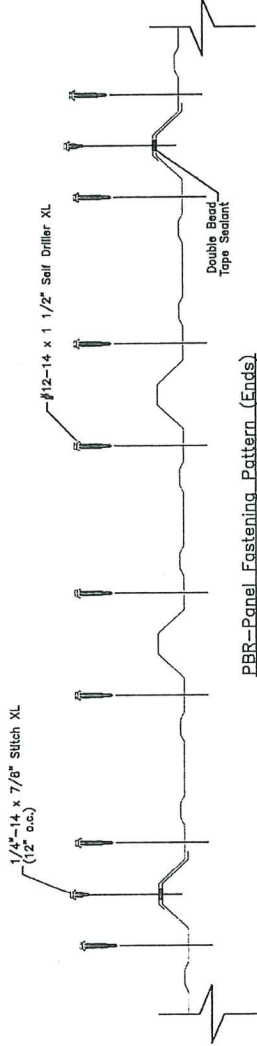
PBR-Panel Profile
t=0.024" (min.)
Fy=53,270.00 psi (min.)



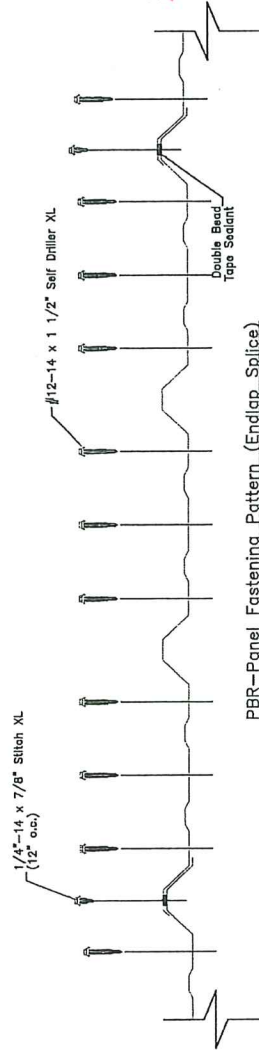
PBR-Panel Fastening Pattern (Field)



Panel Side Overlap Fastening and Sealant Detail



PBR-Panel Fastening Pattern (Ends)



PBR-Panel Fastening Pattern (Endlap Splice)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1214.01
Expiration Date 04/22/2030
By *Heidi A. Miller*
Miami Design Product Control

metal sales
manufacturing corporation
MS

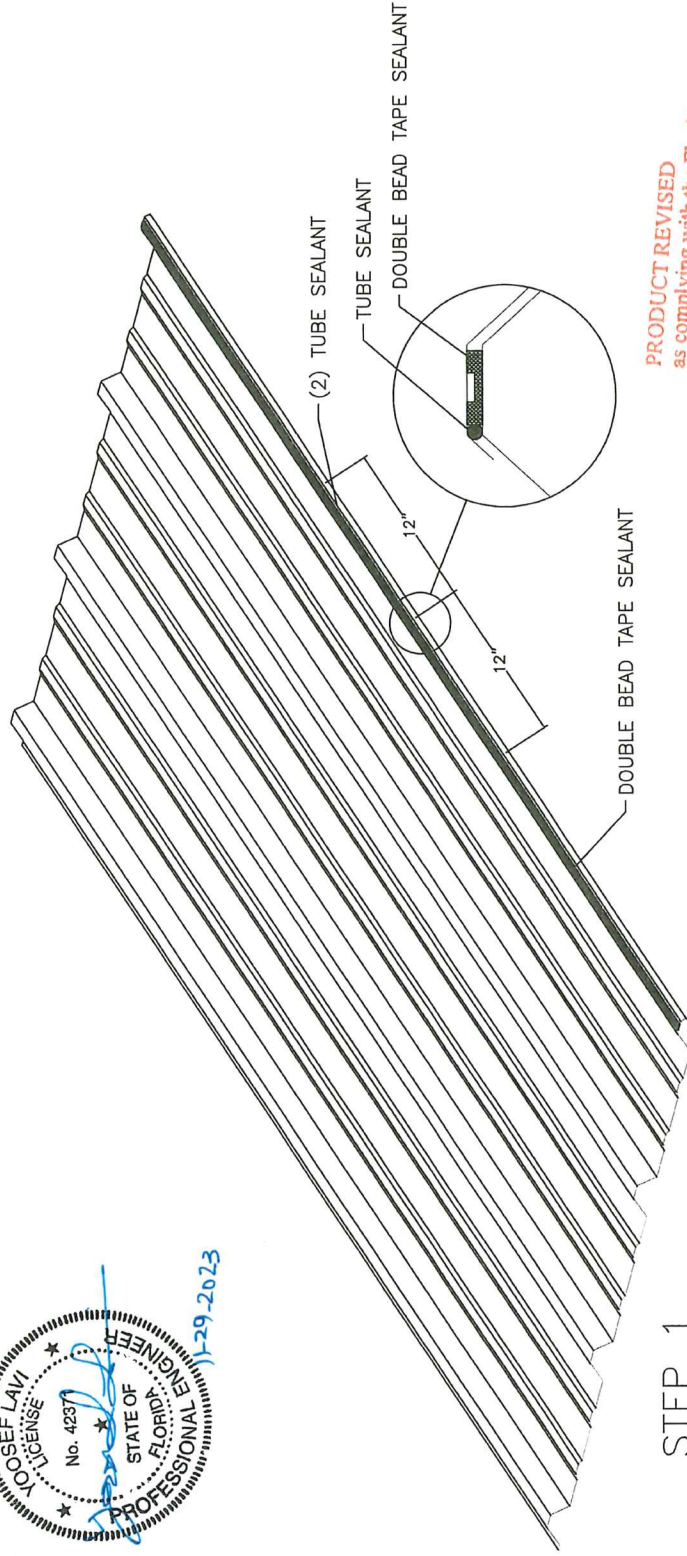
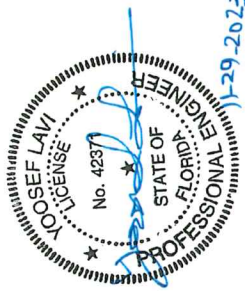
File Name: PBR-Panel Profile

Date: 11/28/2023

Scale: None

Dwg # 2 of 12

YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1244.01
Expiration Date 09/22/2030
By: H. S. M. J.
Miami Data Product Control

STEP 1

1. ATTACH PANEL AND APPLY DOUBLE BEAD TAPE SEALANT ON PANEL SIDELAPS
2. APPLY 1/4" TUBE SEALANT 12" ALONG PANEL SIDELAPS

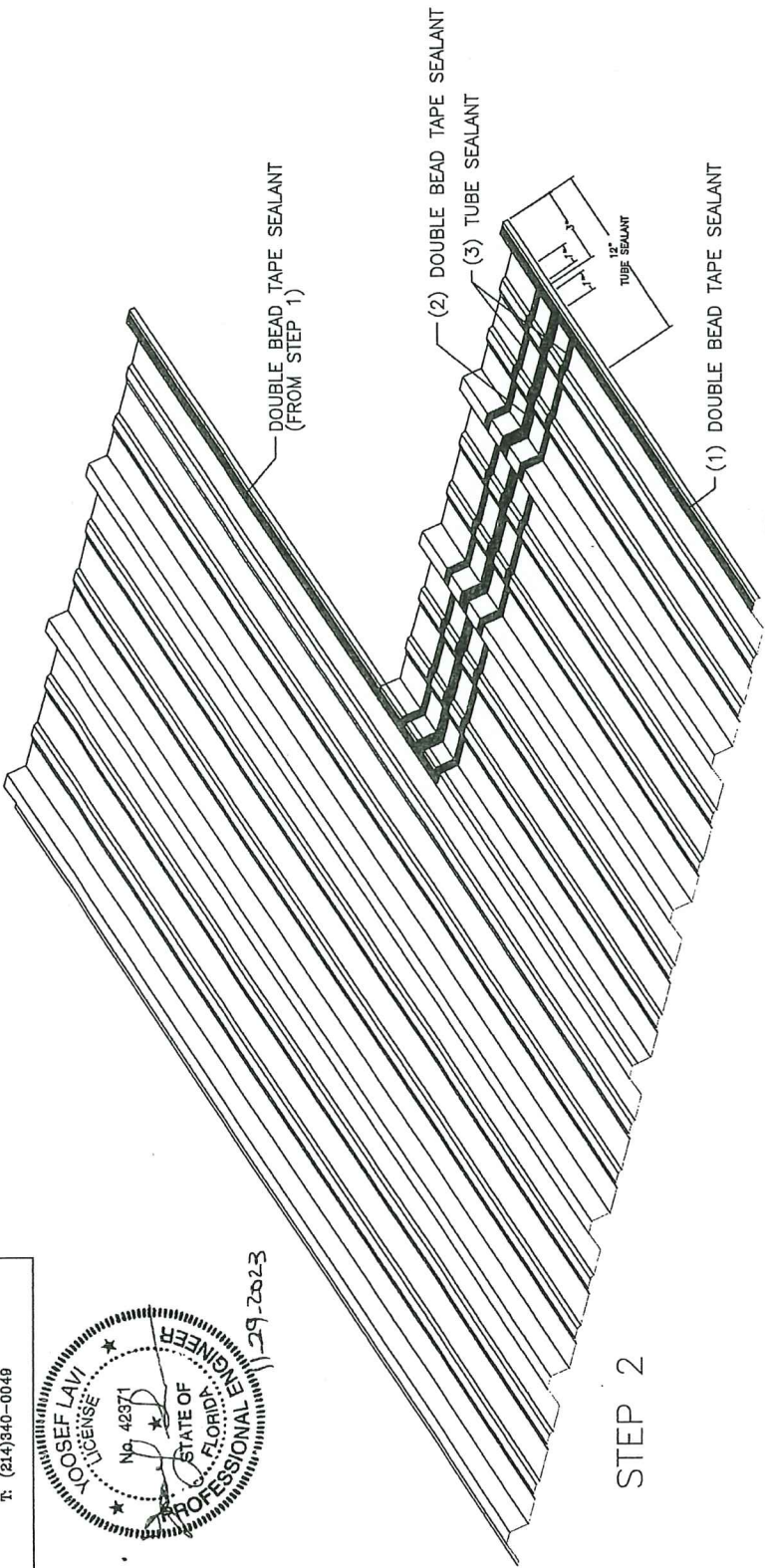
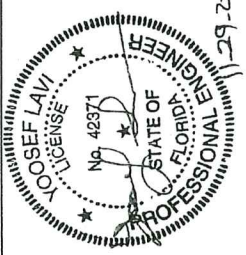
metal sales
manufacturing corporation

ms

File Name: Endlap Detail - Step 1

Date: 11/28/2023 Scale: None Dwg # 3 of 12

YOUSEF LAVI, P.E.
 3306 Wiley Post Road #102
 Carrollton, Texas 75008
 T: (214)340-0049



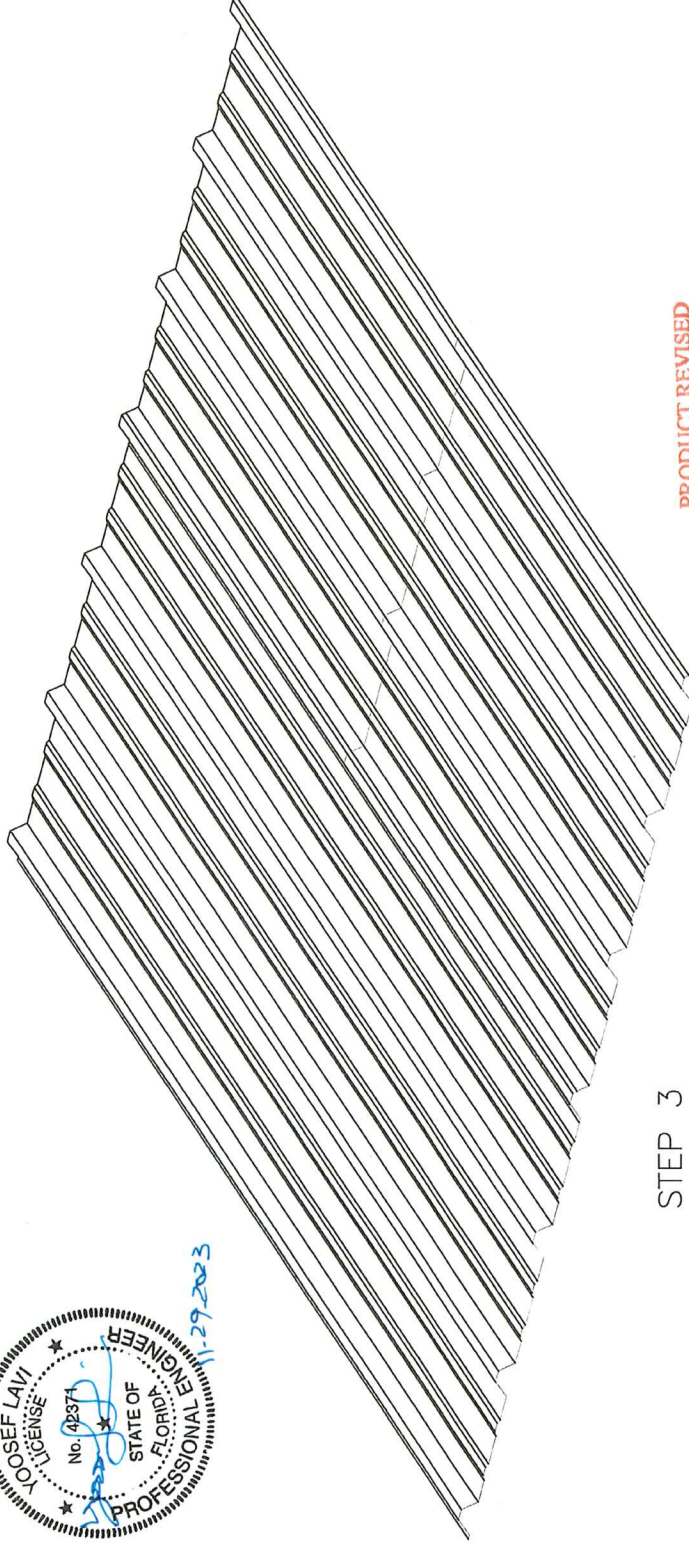
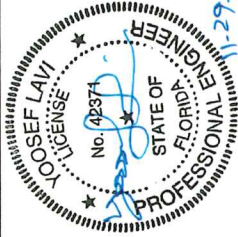
STEP 2

1. APPLY DOUBLE BEAD TAPE SEALANT ON PANEL SIDELAPS
2. APPLY DOUBLE BEAD TAPE SEALANT AT ENDLAP (3" FROM PANEL END)
3. APPLY 1/4" TUBE SEALANT 1" ON EACH SIDE OF TAPE
4. APPLY 1/4" TUBE SEALANT 12" ALONG SIDELAP RIBS
 (SEE SECTION CUT ON STEP 1 FOR TUBE SEALANT LOCATION)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 23-1214.01
 Expiration Date 08/22/2026
 By H. A. M. M.
 Miami Dade Product Control

metal sales manufacturing corporation ms		Dwg # 4 of 12	
File Name: Endlap Detail - Step 2			
Date:	11/28/2023	Scale:	None

YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75008
T: (214)340-0049



STEP 3

ATTACH PANELS / ENDLAP TO SUPPORT. SEE OVERALL
PANEL ENDLAP DETAIL FOR FASTENER SPACING

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1214.01
Expiration Date 09/22/2010
By Hedy A. Miller
Miami Dept. Product Control

metal sales
manufacturing corporation

ms

Dwg # 5 of 12

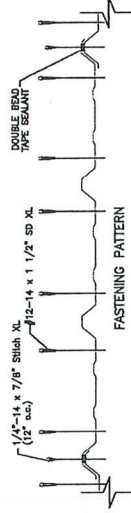
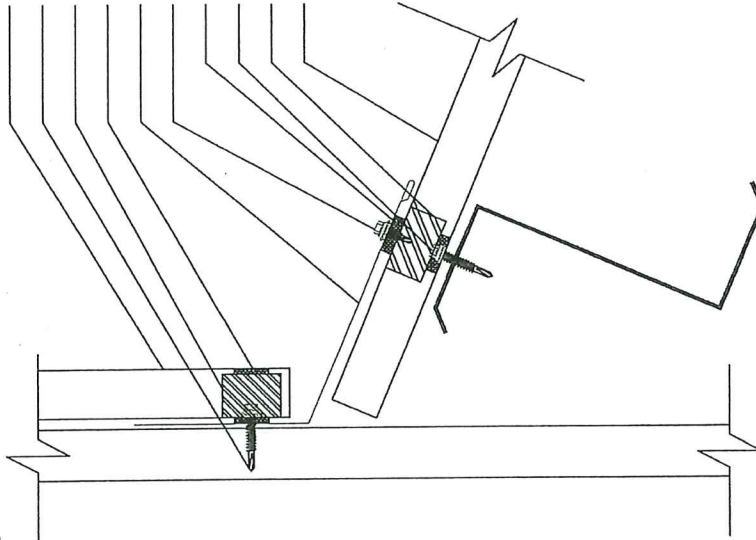
File Name: Endlap Detail - Step 3

Date: 11/28/2023 Scale: None

YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75008
T: (214)340-0049



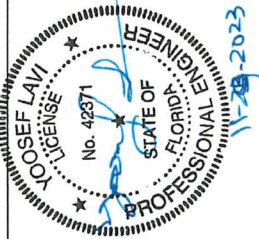
PBR-PANEL
#12-14 x 1 1/2" SELF DRILLER XL
PBR-PANEL INSIDE CLOSURE
DOUBLE BEAD TAPE SEALANT
PITCH BREAK
1/4"-14 x 7/8" STITCH XL (1'-0" o.c.)
DOUBLE BEAD TAPE SEALANT
#12-14 x 1 1/2" SELF DRILLER XL
PBR-PANEL INSIDE CLOSURE
PBR-PANEL



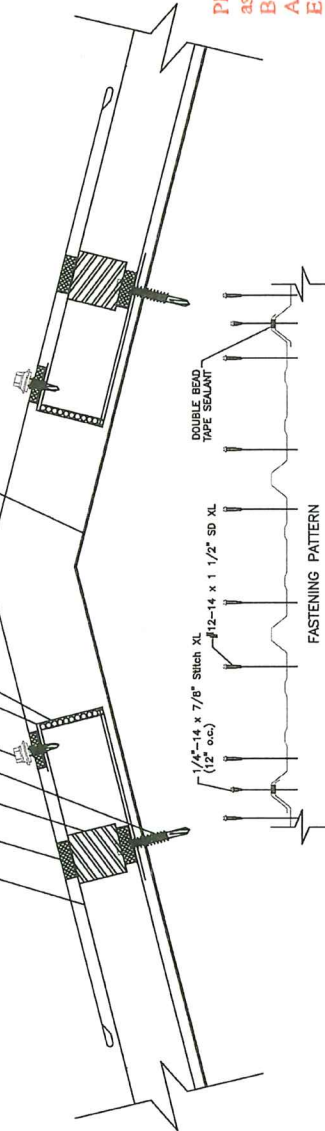
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1214.01
Expiration Date 09/22/2030
By *Heddy M. M. M.*
Miami Design Product Control

metal sales manufacturing corporation	
MS	
File Name: Endwall Detail	Dwg # 6 of 12
Date: 11/28/2023	Scale: None

YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



PBR-PANEL
DOUBLE BEAD TAPE SEALANT
PBR-PANEL OUTSIDE CLOSURE (RIDGE)
OR UNIVERSAL CLOSURE (HIP)
#12-14 x 1 1/2" SD XL (SEE BELOW)
1/4"-14 x 7/8" STITCH XL (1'-0" o.c.)
PBR-PANEL C-CLOSURE
TUBE SEALANT
20" RIDGE/HIP COVER
HIP PLATE



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1214.01
Expiration Date 04/22/2030
By: *Heidi M. M. M.*
Miami Dade Product Control

metal sales
manufacturing corporation

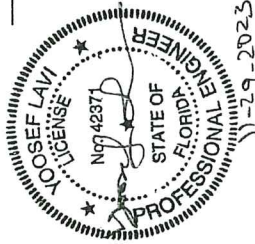
ms

File Name: Ridge / Hip Detail

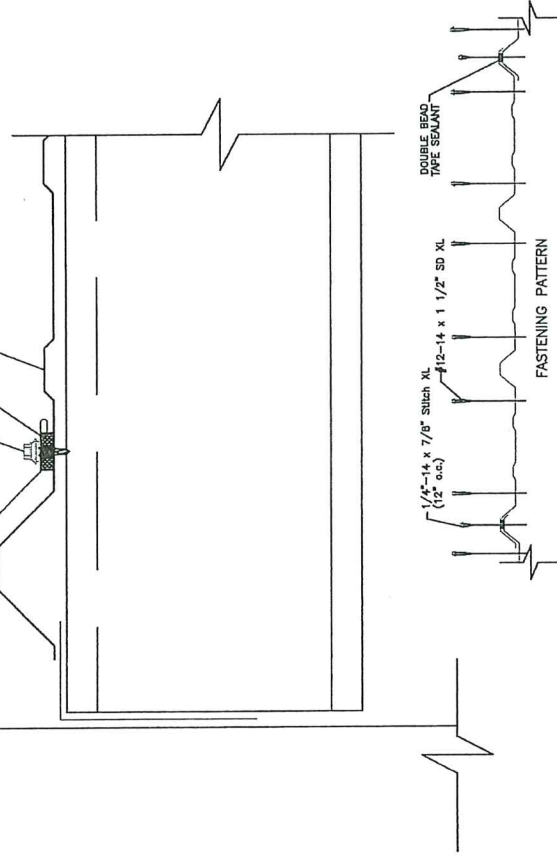
Date: 11/28/2023 Scale: None

Dwg # 7 of 12

YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



#12-14 x 1 1/2" SD XL (SEE BELOW)
PBR-PANEL INSIDE CLOSURE
DOUBLE BEAD TAPE SEALANT
RAKEWALL
1/4"-14 x 7/8" STITCH XL (1'-0" o.c.)
DOUBLE BEAD TAPE SEALANT
PBR-PANEL



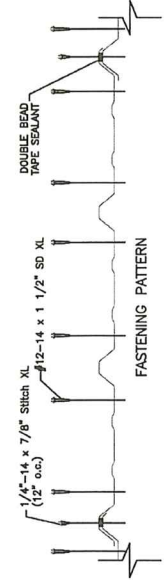
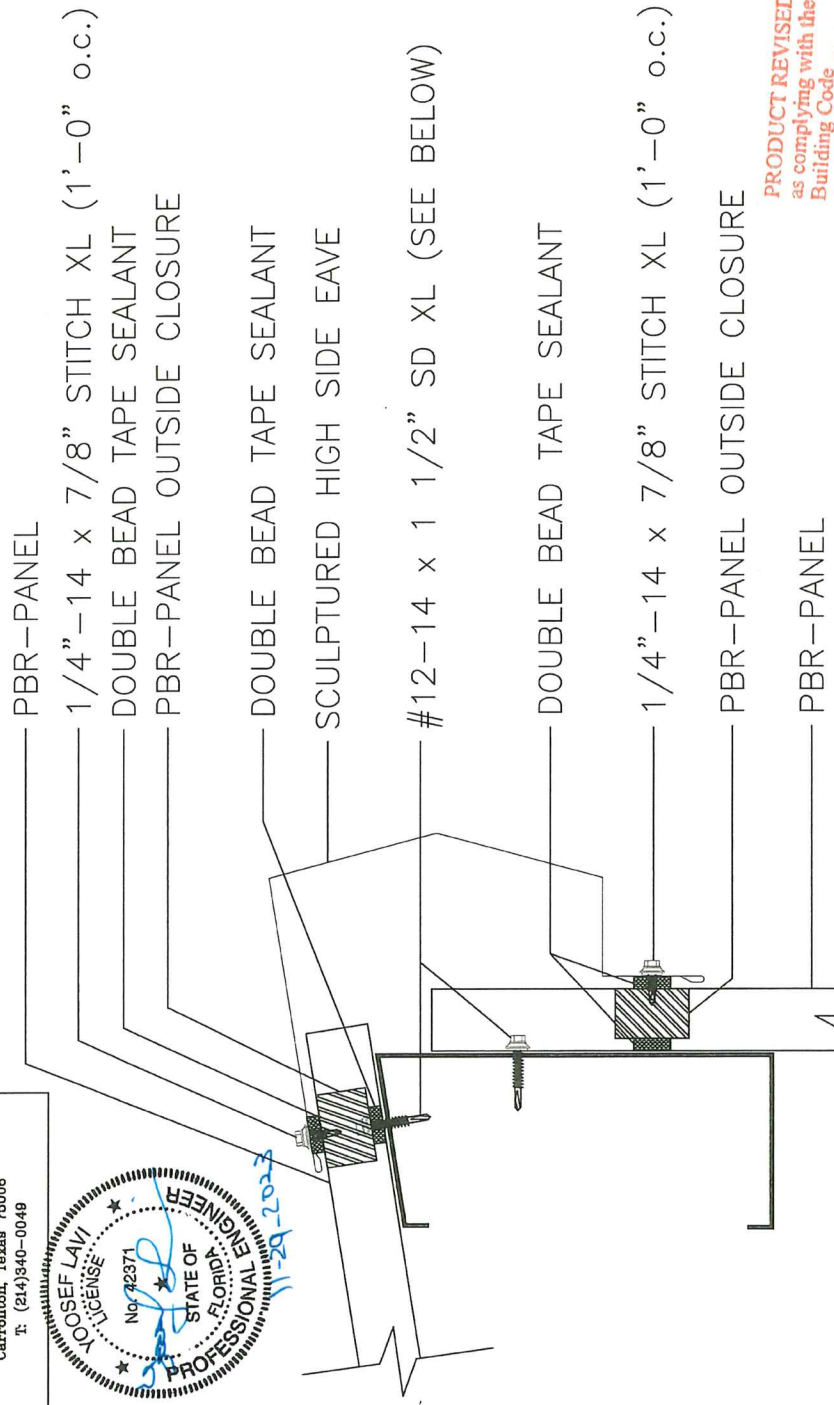
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1214.01
Expiration Date 09/22/2030
By H. H. H. H.
Miami Date Product Control

metal sales
manufacturing corporation
ms
Dwg # 8 of 12

File Name: Rakewall Detail

Date: 11/28/2023 Scale: None

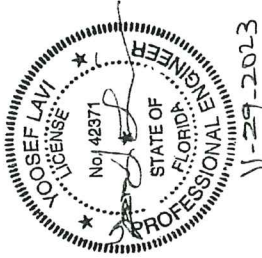
YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



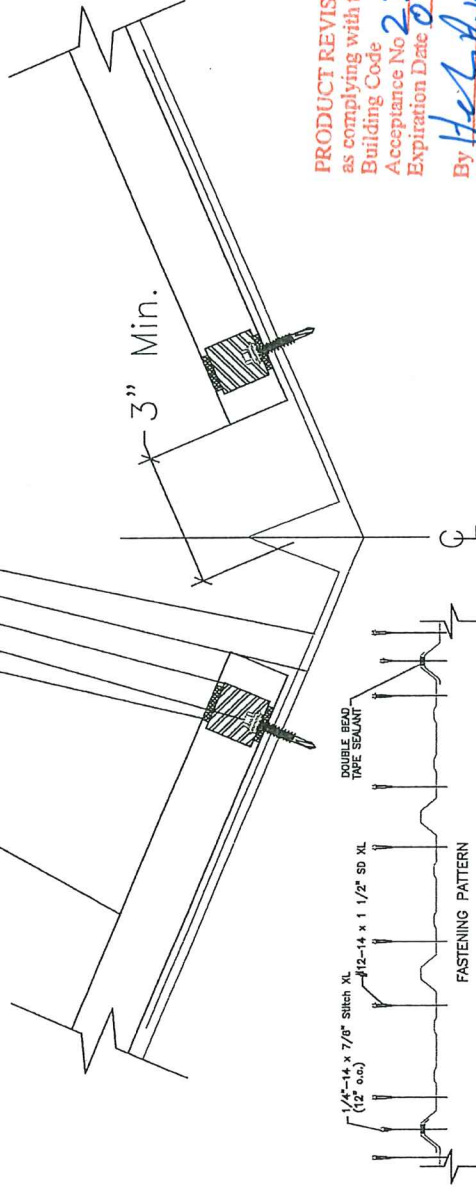
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1214.01
Expiration Date 04/22/2030
By: *[Signature]*
Miami Trade Product Control!

metal sales manufacturing corporation		113	
File Name: Peak Detail		Dwg # 9 of 12	
Date: 11/28/2023	Scale: None		

YOUSEF LAVI, P.E.
3308 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



PBR-PANEL (BEVEL CUT IN FIELD)
DOUBLE BEAD TAPE SEALANT
#12-14 x 1 1/2" SD XL (SEE BELOW)
UNIVERSAL CLOSURE
VALLEY PLATE
VALLEY



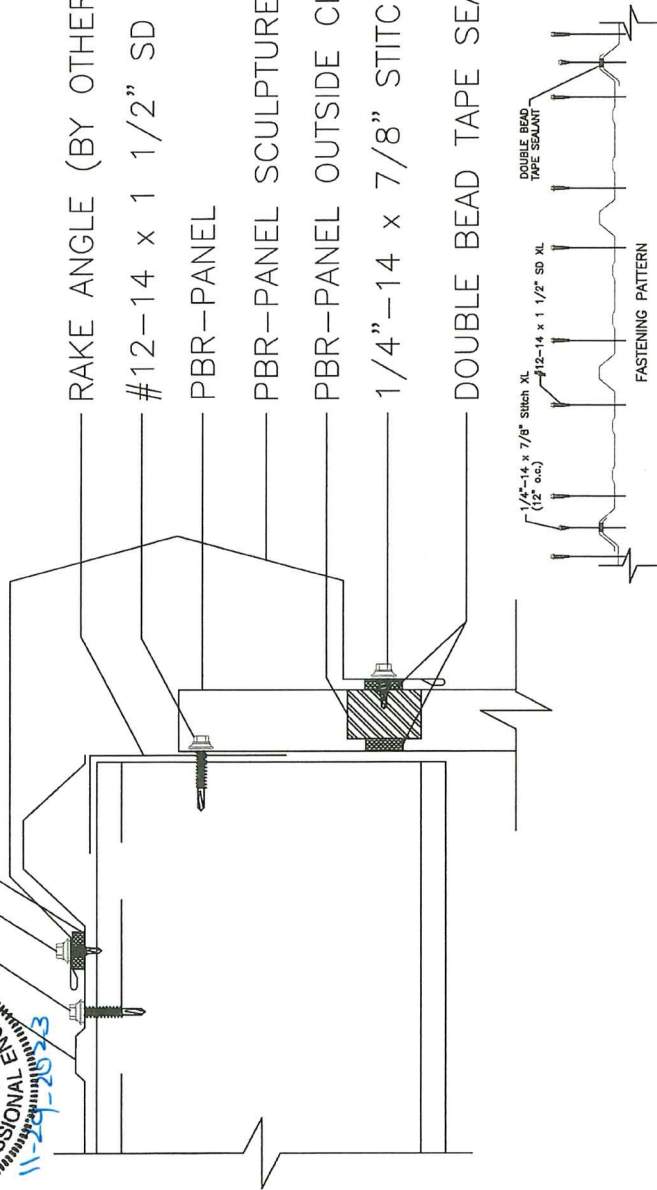
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1214.01
Expiration Date 09/22/2030
By *Heidi Miller*
Miami Dade Product Control

metal sales manufacturing corporation	
MS	
File Name: Valley Detail	Dwg # 10 of 12
Date: 11/28/2023	Scale: None

YOUSEF LAVI, P.E.
3306 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



PBR-PANEL
#12-14 x 1 1/2" SD XL (1'-0" o.c.)
1/4"-14 x 7/8" STITCH XL (1'-0" o.c.)
DOUBLE BEAD TAPE SEALANT
RAKE ANGLE (BY OTHERS)
#12-14 x 1 1/2" SD XL (SEE BELOW)
PBR-PANEL
PBR-PANEL SCULPTURED RAKE
PBR-PANEL OUTSIDE CLOSURE
1/4"-14 x 7/8" STITCH XL (1'-0" o.c.)
DOUBLE BEAD TAPE SEALANT



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1214-01
Expiration Date 09/22/2030
By *[Signature]*
Miami Door Product Control

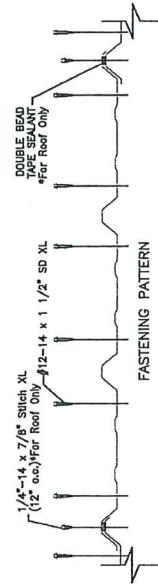
metal sales
manufacturing corporation
ms
Dwg # 11 of 12

File Name: Rake Detail
Date: 11/28/2023
Scale: None

YOUSEF LAVI, P.E.
3308 Wiley Post Road #102
Carrollton, Texas 75006
T: (214)340-0049



DOUBLE BEAD TAPE SEALANT
#12-14 x 1 1/2" SD XL (SEE BELOW)
PBR-PANEL INSIDE CLOSURE
PBR-PANEL
EAVE
DOUBLE BEAD TAPE SEALANT
#12-14 x 1 1/2" SD XL (SEE BELOW)
1/4"-14 x 7/8" STITCH XL (1'-0" o.c.)
PBR-PANEL OUTSIDE CLOSURE
PBR-PANEL



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1214.01
Expiration Date 04/22/2030
By: *H. G. Miller*
Miami Dade Product Control

metal sales
manufacturing corporation
ms
Dwg # 12 of 12

File Name: Eave Detail

Date: 11/28/2023
Scale: None