



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**Metal Sales Manufacturing Corporation**  
**7800 State Road 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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. R-W, titled "PBR-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, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1, evidence submitted page(s) as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

*Helmy A. Makar*  
 06/02/2005



**NOA No 03-1210.03**  
**Expiration Date: 06/02/2010**  
**Approval Date: 06/02/2005**  
**Page 1**

**Metal Sales Manufacturing Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A, DRAWINGS**

1. *Drawing No. R-W, titled " PBR-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.  
Product Control Examiner  
NOA No 03-1210.03  
Expiration Date: 06/02/2010  
Approval Date: 06/02/2005

YOUSEF LAVI, P.E.

CONSULTING ENGINEER

9550 FOREST LANE, SUITE #108

DALLAS, TEXAS 75243

T: (214)340-0049 F: (214)340-0067

Approved as complying with the

Florida Building Code

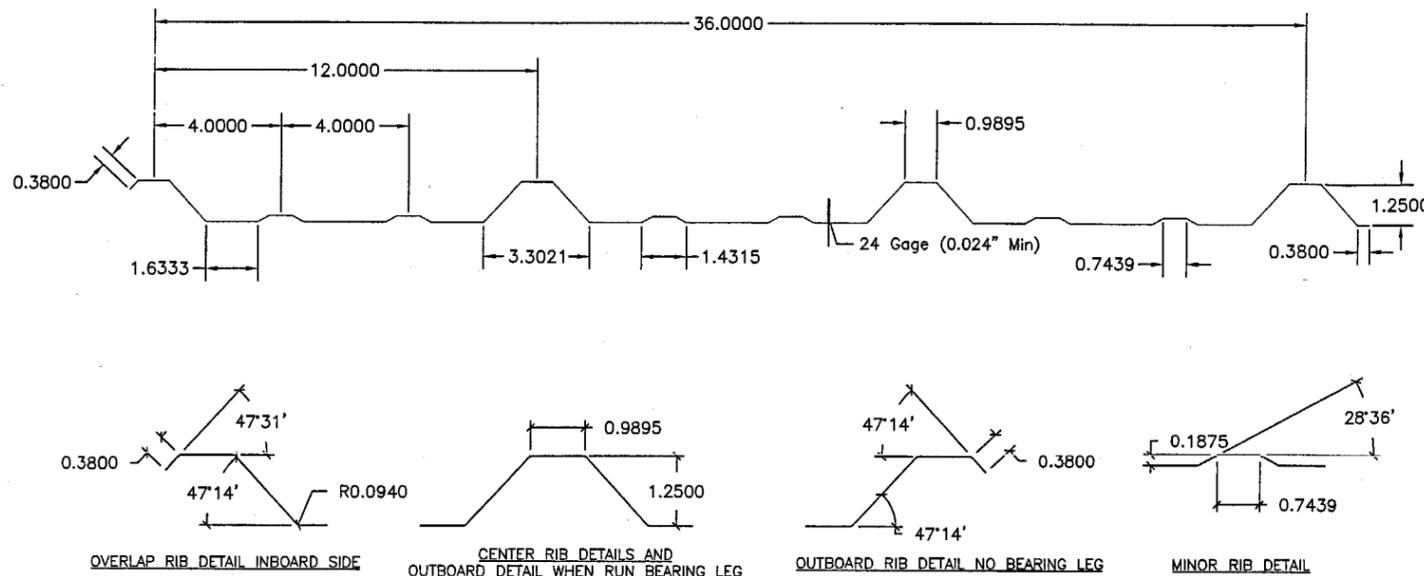
Date 06/02/2005

NOA# 03-1216.03

Miami Dade Product Control

Division

By Helmut H. Weber



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.-in<sup>2</sup>
4. Maximum allowable deflection of the roof panel = L/240.
5. Maximum support reaction = 236.5 lbs.

*Yousef Lavi*

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

MAY 04 2005

The structural Roof PBR-Panel shown on this Product Approval Document has been designed in accordance with the 2001 Edition of the Florida Building Code. Design wind loads shall be determined as per section 1619 of the above mentioned code, for a basic wind speed of 146 m.p.h., and in accordance w/ ASCE 7-98 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 Fy=53,270.00 PSI (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.

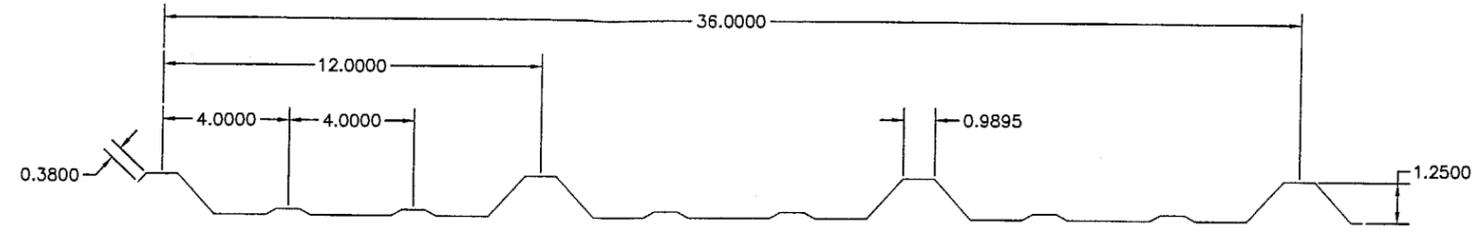
This Roof PBR-Panel's manufacturer's permanent label shall be placed at bottom of each panel.

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

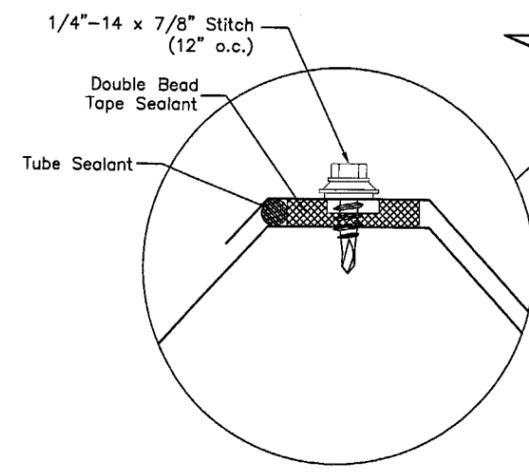
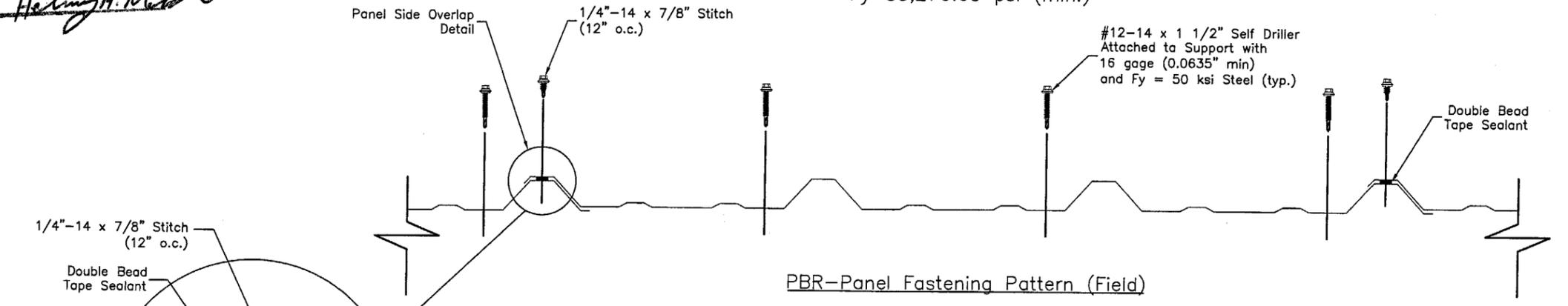
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Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 1 of 12	

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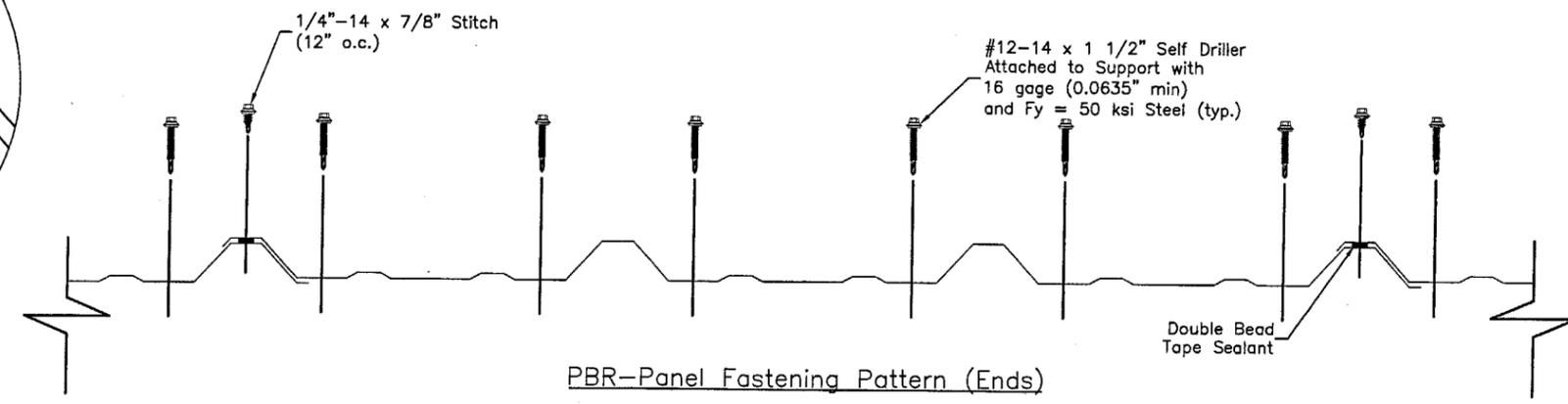
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 NOA# 03-1210-03  
 Miami Dade Product Control  
 Division  
 By: *Helmut A. Weber*



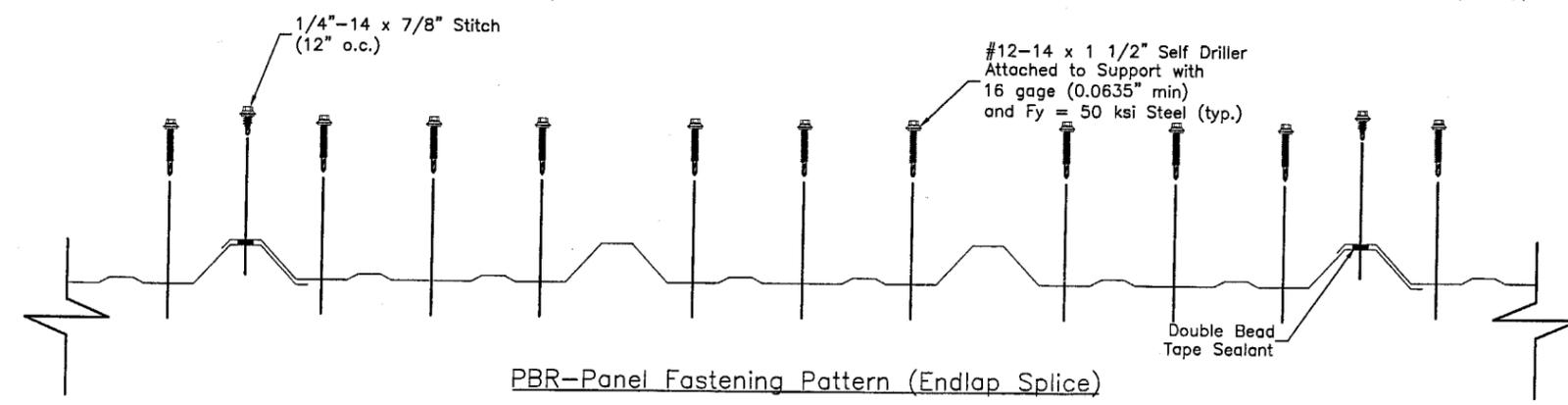
PBR-Panel Profile  
 $t=0.024"$  (min.)  
 $F_y=53,270.00$  psi (min.)



Panel Side Overlap Fastening and Sealant Detail



PBR-Panel Fastening Pattern (Ends)



PBR-Panel Fastening Pattern (Endlap Splice)

*Yousef Lavi*

MAY 04 2005

Drawing Name: <b>PBR-Panel Profile</b>		<b>metal sales</b> manufacturing corporation 
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 2 of 12	

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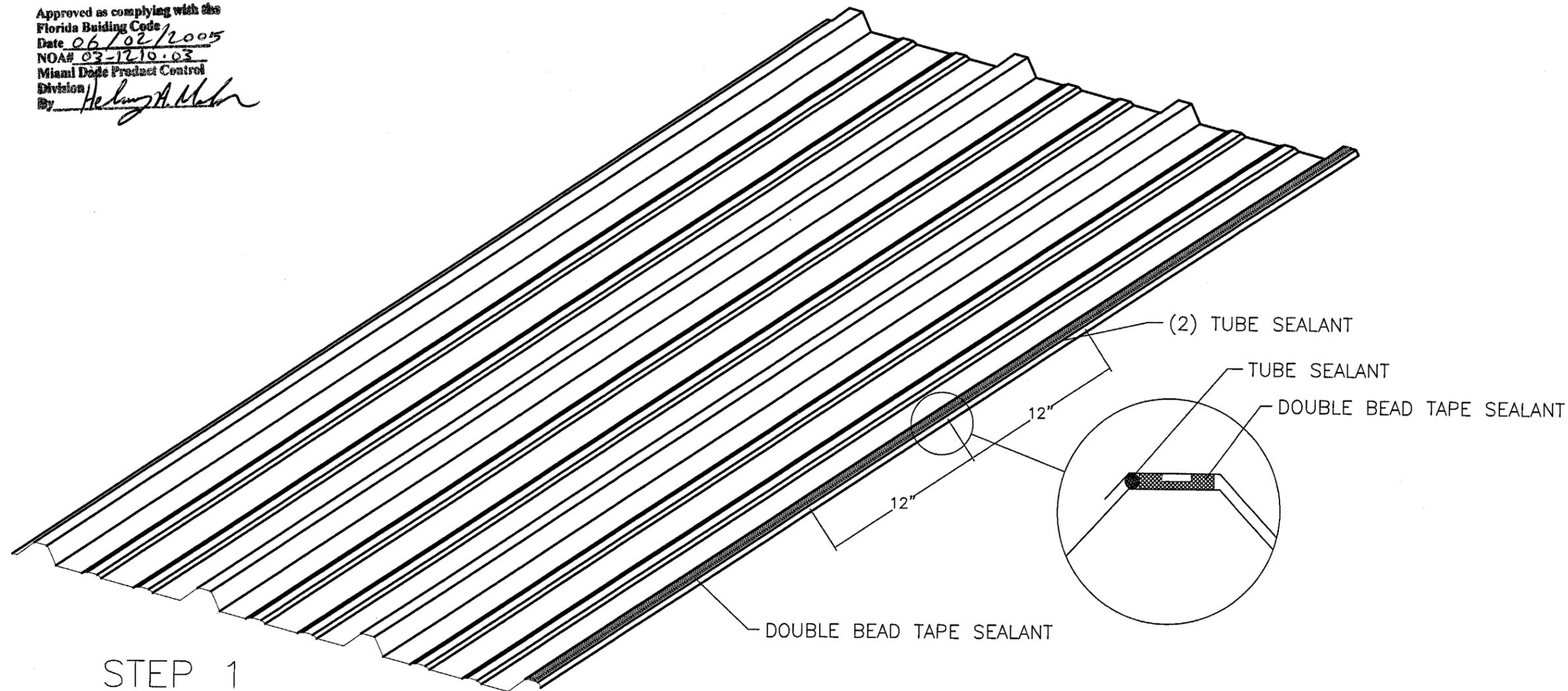
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Date 06/02/2005

NOA# 03-1210-03

Miami Dade Product Control

Division  
By Helmut A. Meier



STEP 1

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

*Yousef Lavi*

MAY 04 2005

Drawing Name: PBR-Panel Profile		<b>metal sales</b> manufacturing corporation 
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 3 of 12	

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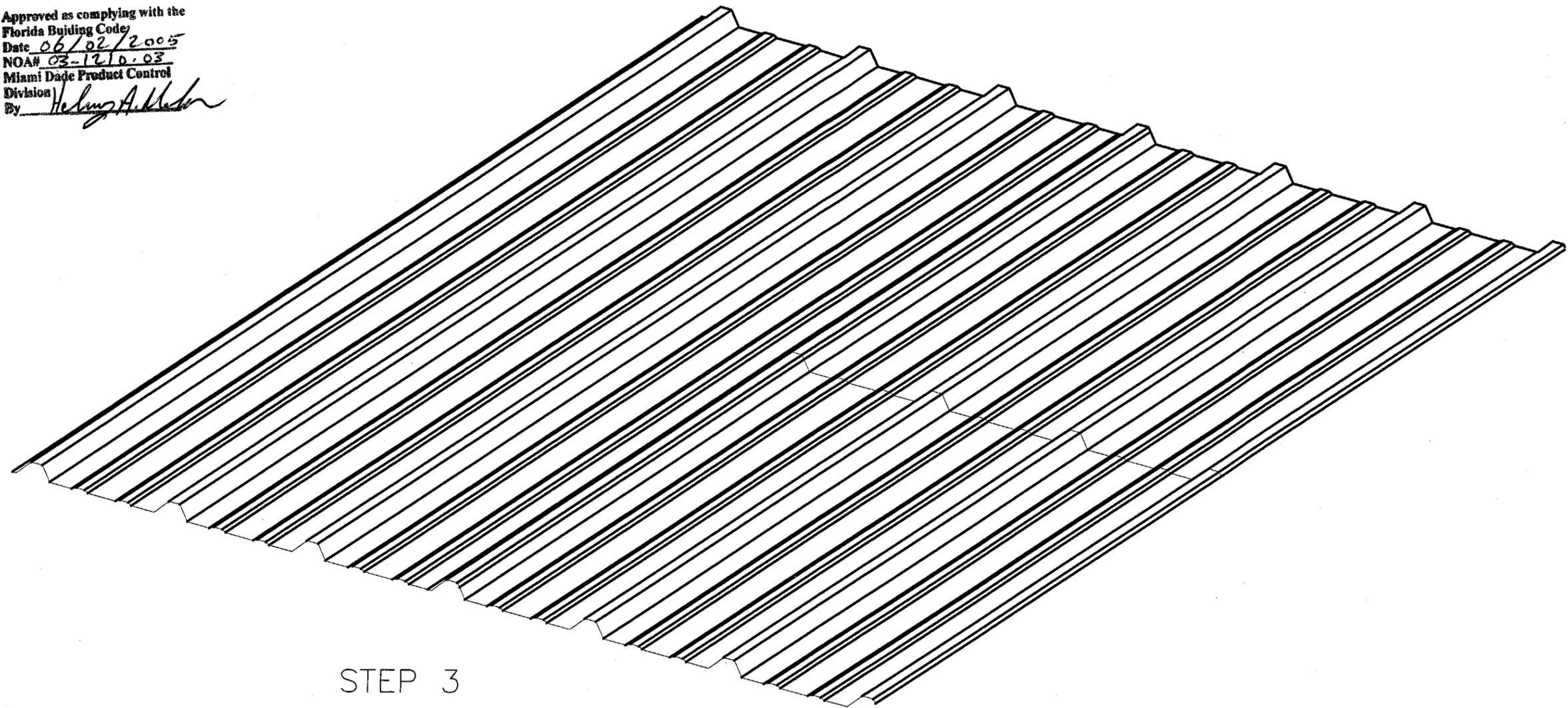
Date 06/02/2005

NOAH 03-1210-03

Miami Dade Product Control

Division

By Heber A. Heber



STEP 3

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

*Yousef Lavi*

MAY 04 2005

Drawing Name: PBR-Panel Profile		<b>metal sales</b> manufacturing corporation 
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 5 of 12	

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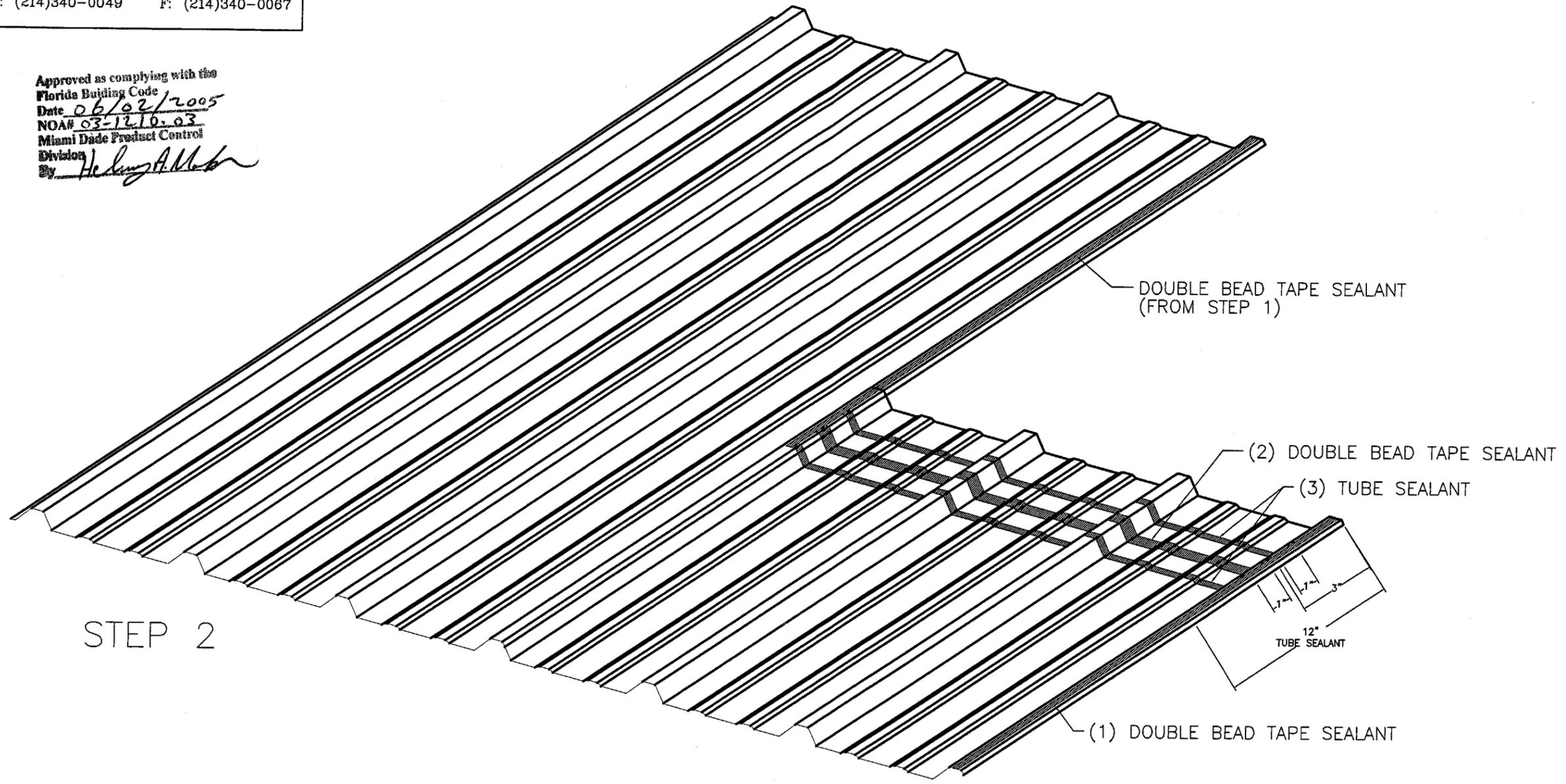
Date 06/02/2005

NOA# 03-1210-03

Miami Dade Product Control

Division

By Heinz A. M. M.



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)

*Yousef Lavi*

MAY 04 2005

Drawing Name: PBR-Panel Profile	
Date: 04/13/05	Scale: None
Dwg. No.: R-W	Sheet No.: 4 of 12

**metal sales**  
manufacturing corporation

**ms**

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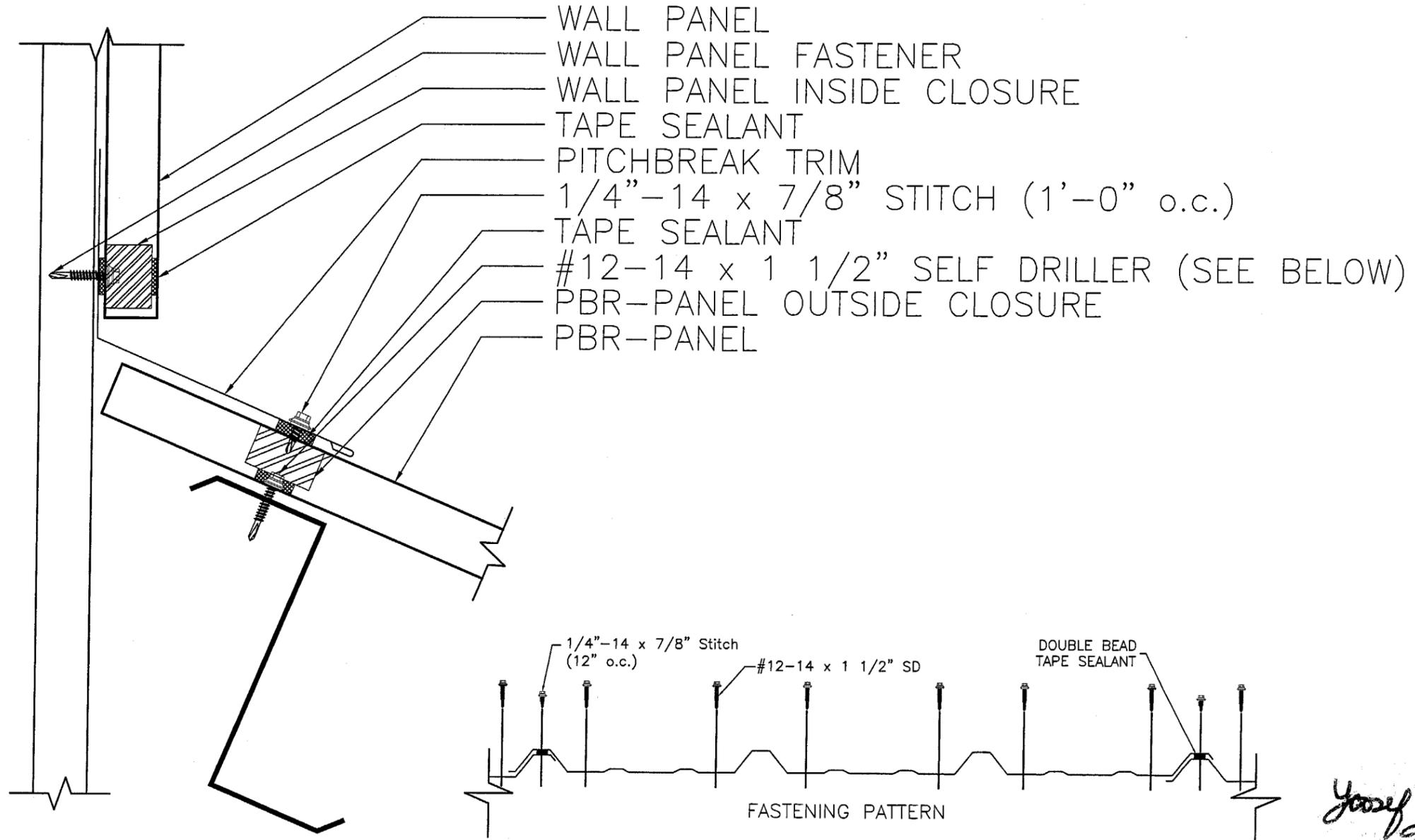
Date 06/02/2005

NOAH 03-1210-03

Miami Dade Product Control

Division

By Helmut A. Mahr



MAY 04 2005

Drawing Name: <b>PBR-Panel Profile</b>	
Date: 04/13/05	Scale: None
Dwg. No.: R-W	Sheet No.: 6 of 12

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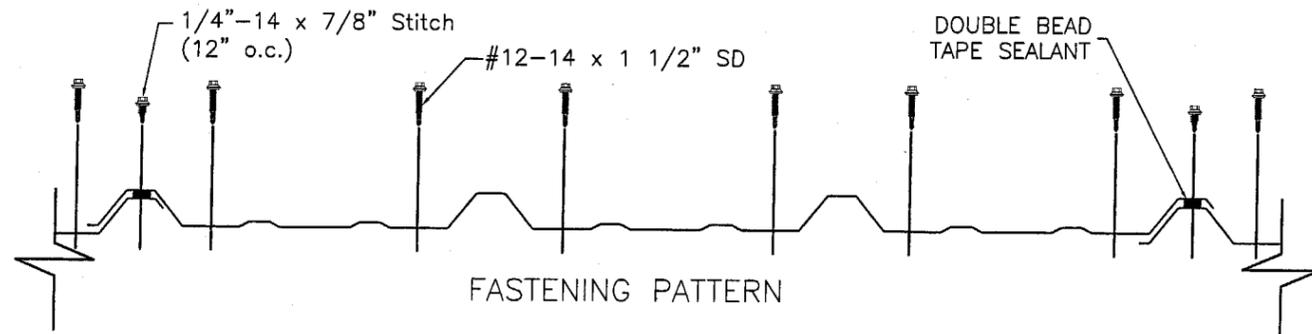
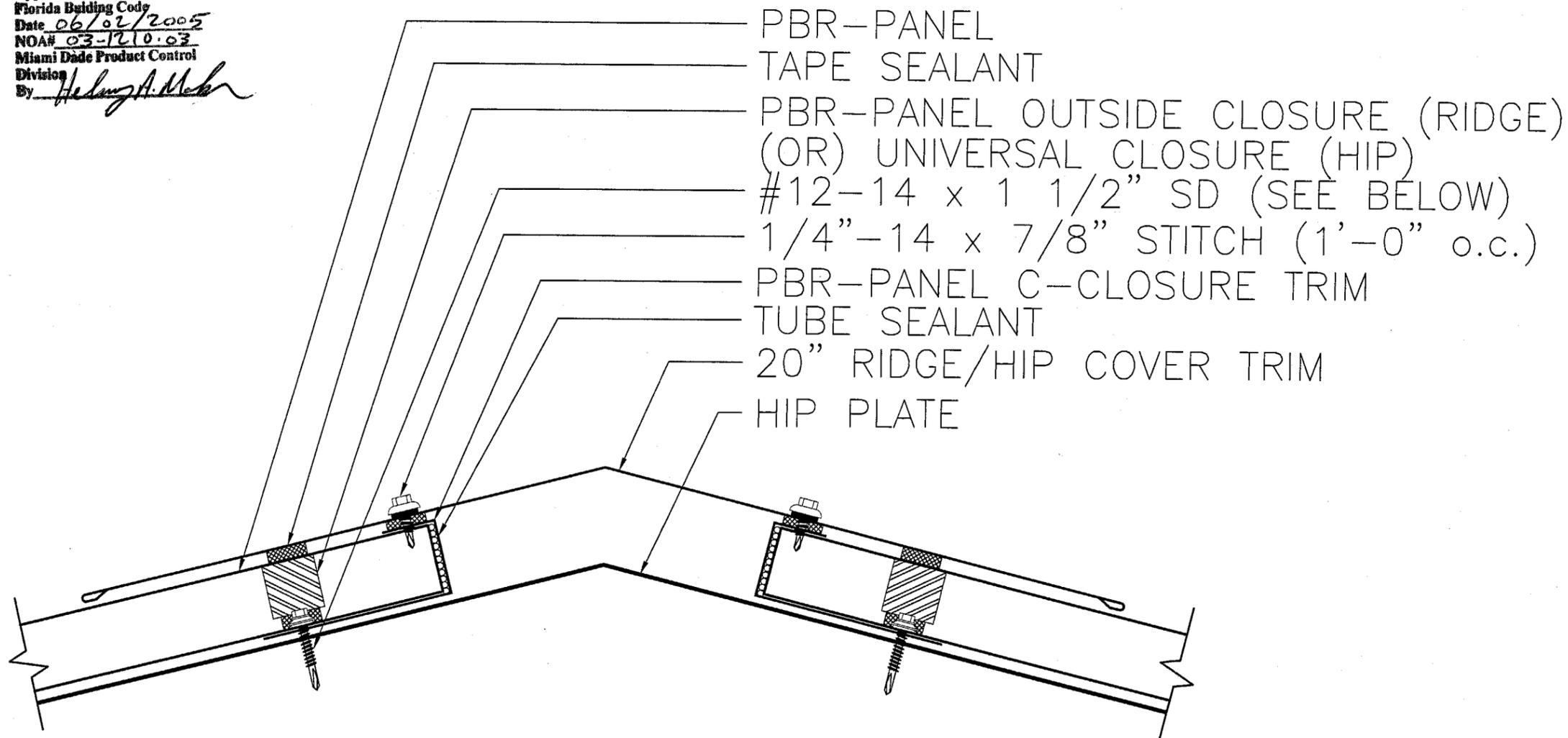
Date 06/02/2005

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Miami Dade Product Control

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By Helmut A. Mehn



*Yousef Lavi*

MAY 04 2005

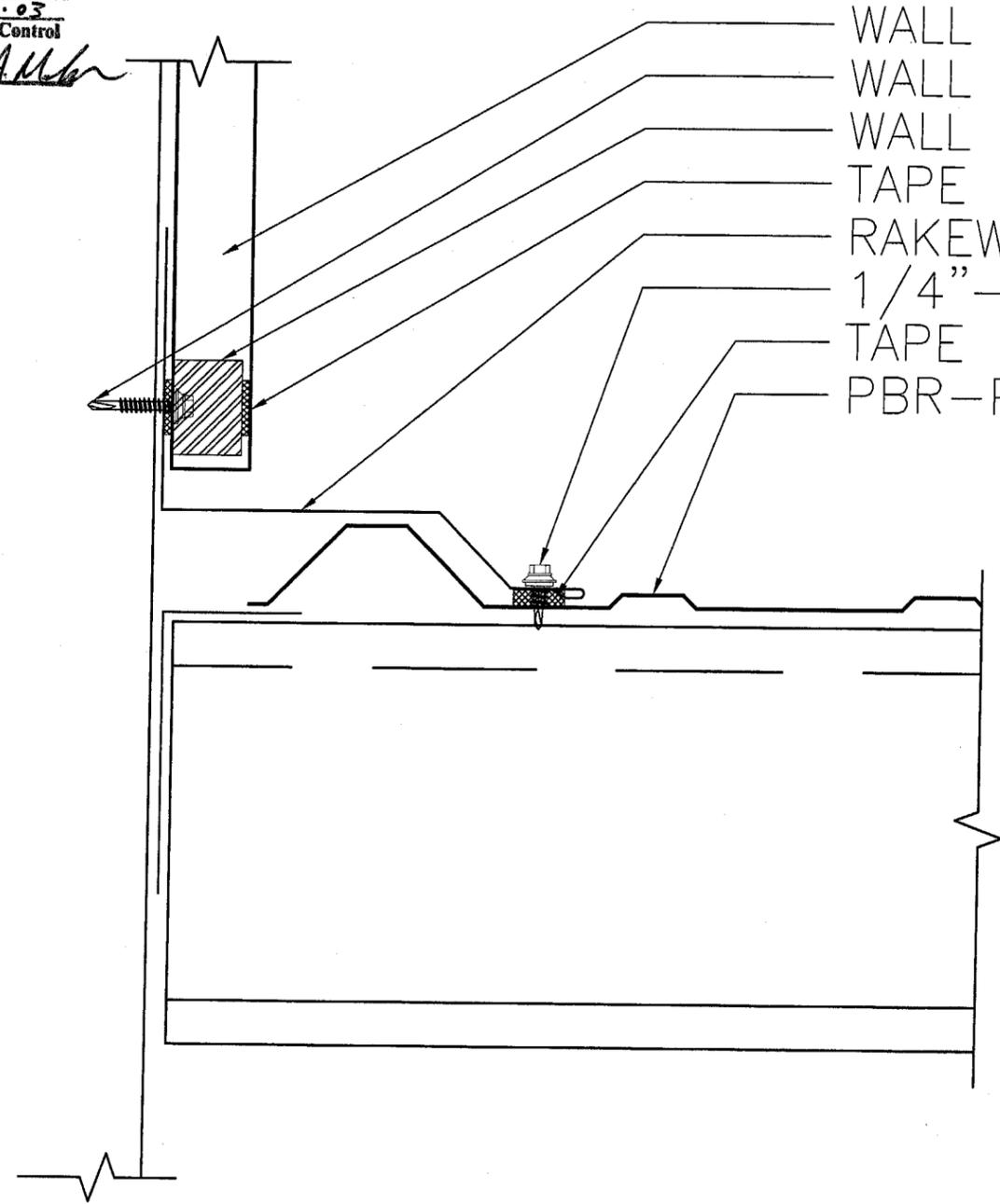
Drawing Name: PBR-Panel Profile	
Date: 04/13/05	Scale: None
Dwg. No.: R-W	Sheet No.: 7 of 12

metal sales  
manufacturing corporation

**MS**

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 Date 06/02/2005  
 NOAH 03-1210-03  
 Miami Dade Product Control  
 Division  
 By Helmy A. Matar



- WALL PANEL
- WALL PANEL FASTENER
- WALL PANEL INSIDE CLOSURE
- TAPE SEALANT
- RAKEWALL TRIM
- 1/4"-14 x 7/8" STITCH (1'-0" o.c.)
- TAPE SEALANT
- PBR-PANEL

*Yoosef Lavi*

MAY 04 2005

Drawing Name: <b>PBR-Panel Profile</b>		<b>metal sales</b> <small>manufacturing corporation</small> 
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 8 of 12	

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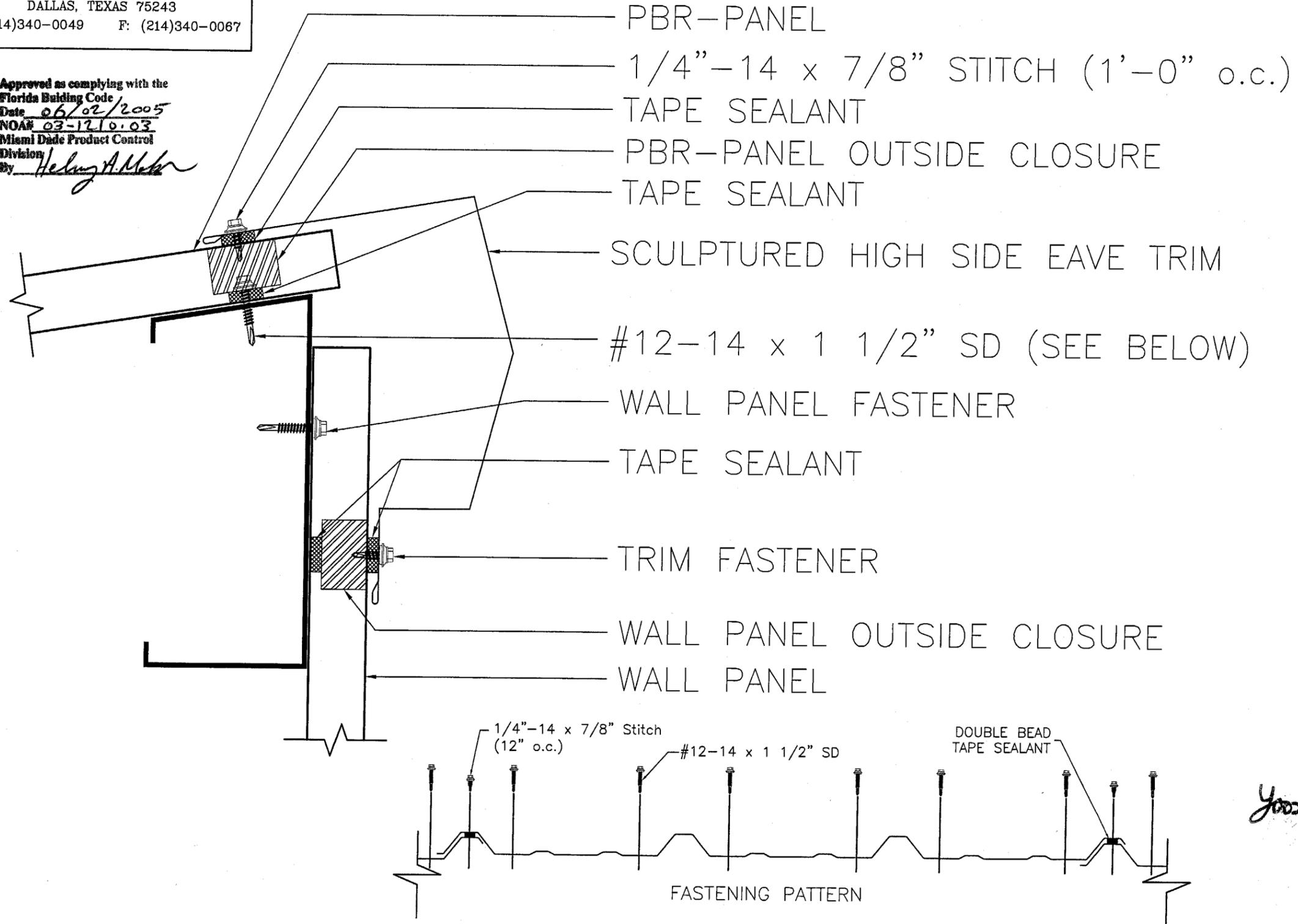
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Miami Dade Product Control

Division

By Helmy A. Mahr



*Yousef Lavi*

MAY 04 2005

Drawing Name: <b>PBR-Panel Profile</b>		<b>metal sales</b> manufacturing corporation <b>MS</b>
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 9 of 12	

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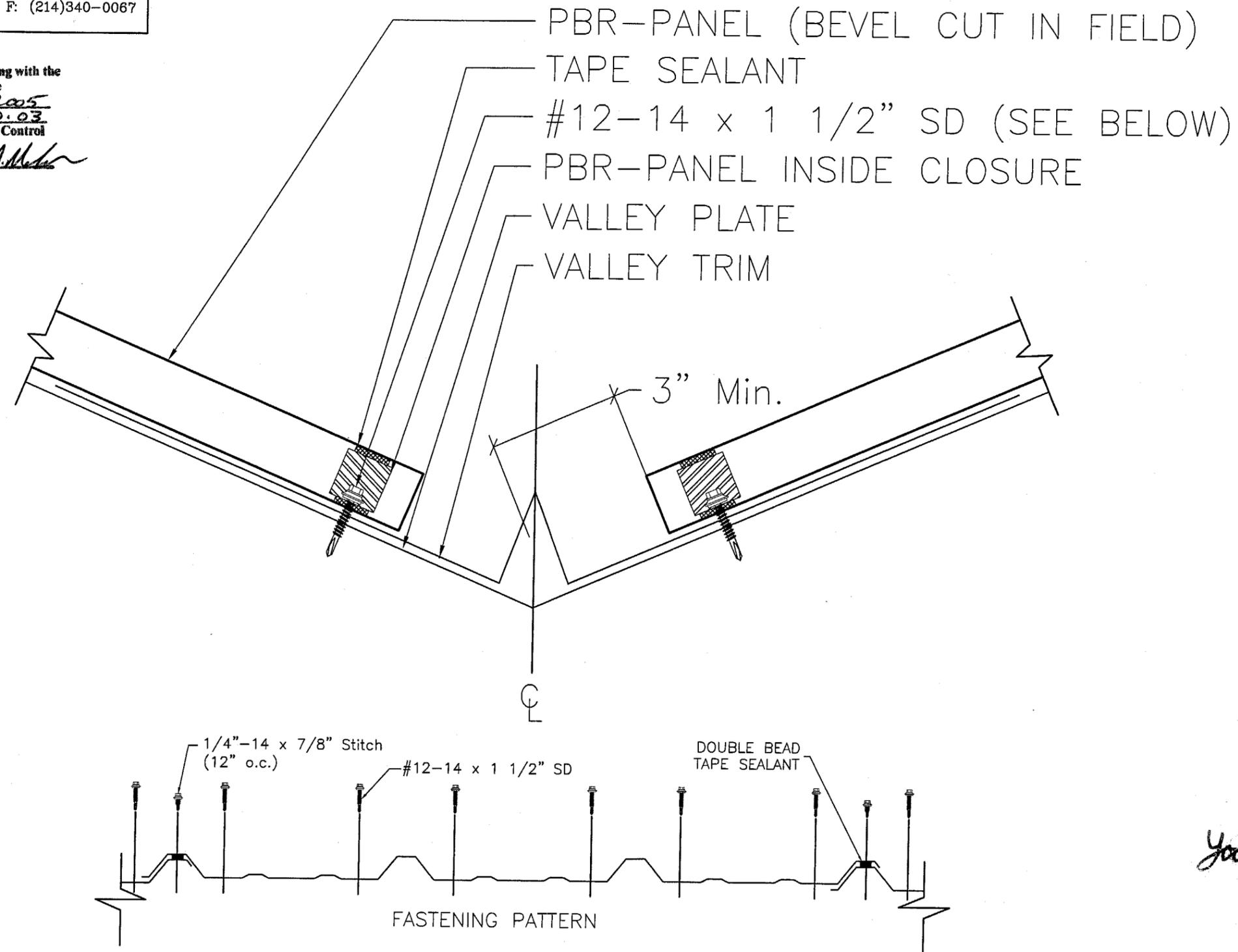
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NOAH 03-1210.03

Miami Dade Product Control

Division

By Helmy A. M. Helmy



*Yousef Lavi*

MAY 04 2005

Drawing Name: <b>PBR-Panel Profile</b>		<b>metal sales</b> manufacturing corporation 
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 10 of 12	

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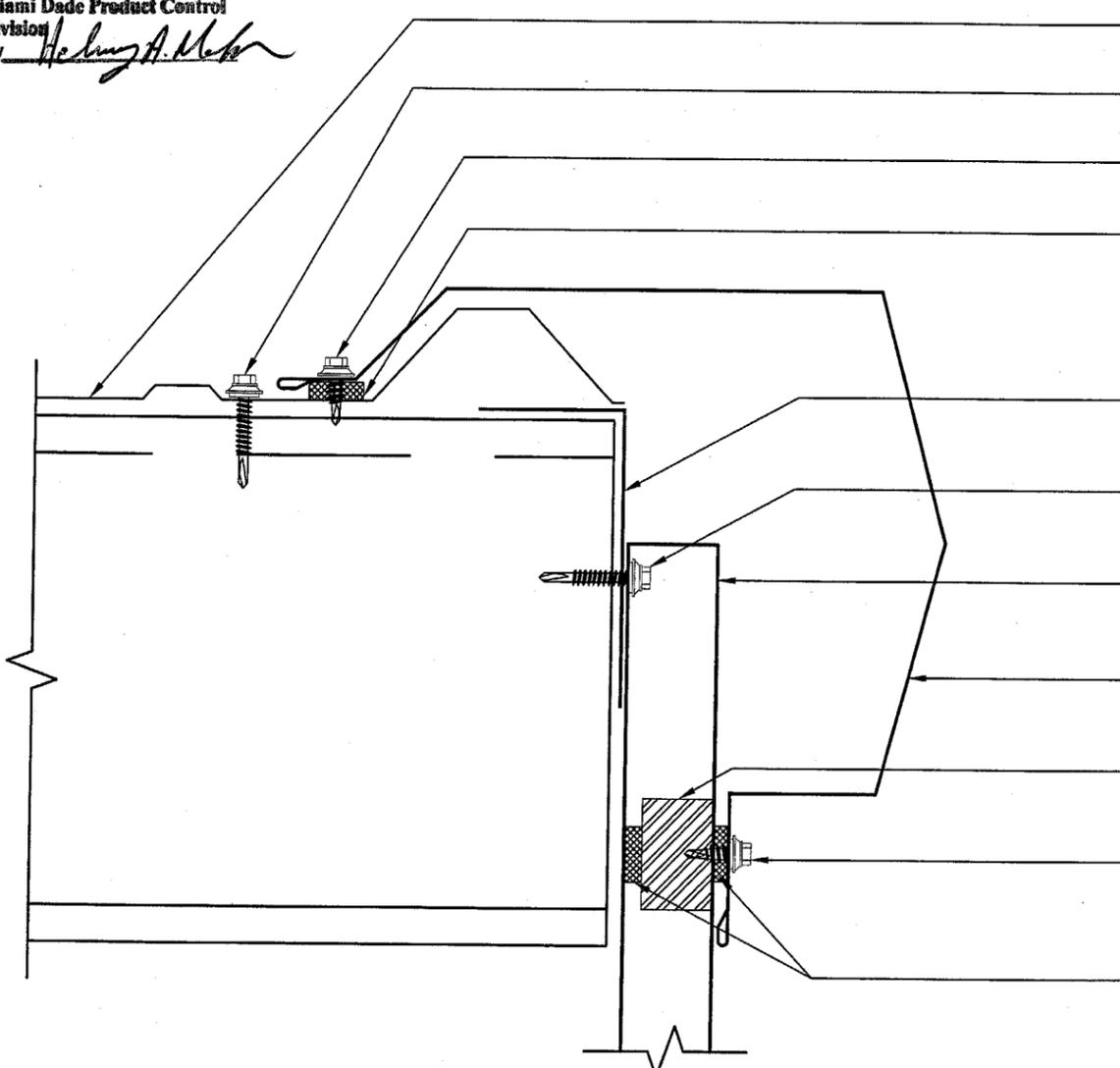
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NOA# 03-1210-03

Miami Dade Product Control

Division  
By: Helmy A. M. M.



- PBR-PANEL
- ROOF FASTENER (SEE SHEET 2)
- 1/4"-14 x 7/8" STITCH (1'-0" o.c.)
- TAPE SEALANT
- RAKE ANGLE (BY OTHERS)
- WALL PANEL FASTENER
- WALL PANEL
- SCULPTURED RAKE TRIM
- WALL PANEL OUTSIDE CLOSURE
- TRIM FASTENER
- TAPE SEALANT

*Yousef Lavi*

MAY 04 2005

Drawing Name: <b>PBR-Panel Profile</b>		<b>metal sales</b> manufacturing corporation 
Date: 04/13/05	Scale: None	
Dwg. No.: R-W	Sheet No.: 11 of 12	

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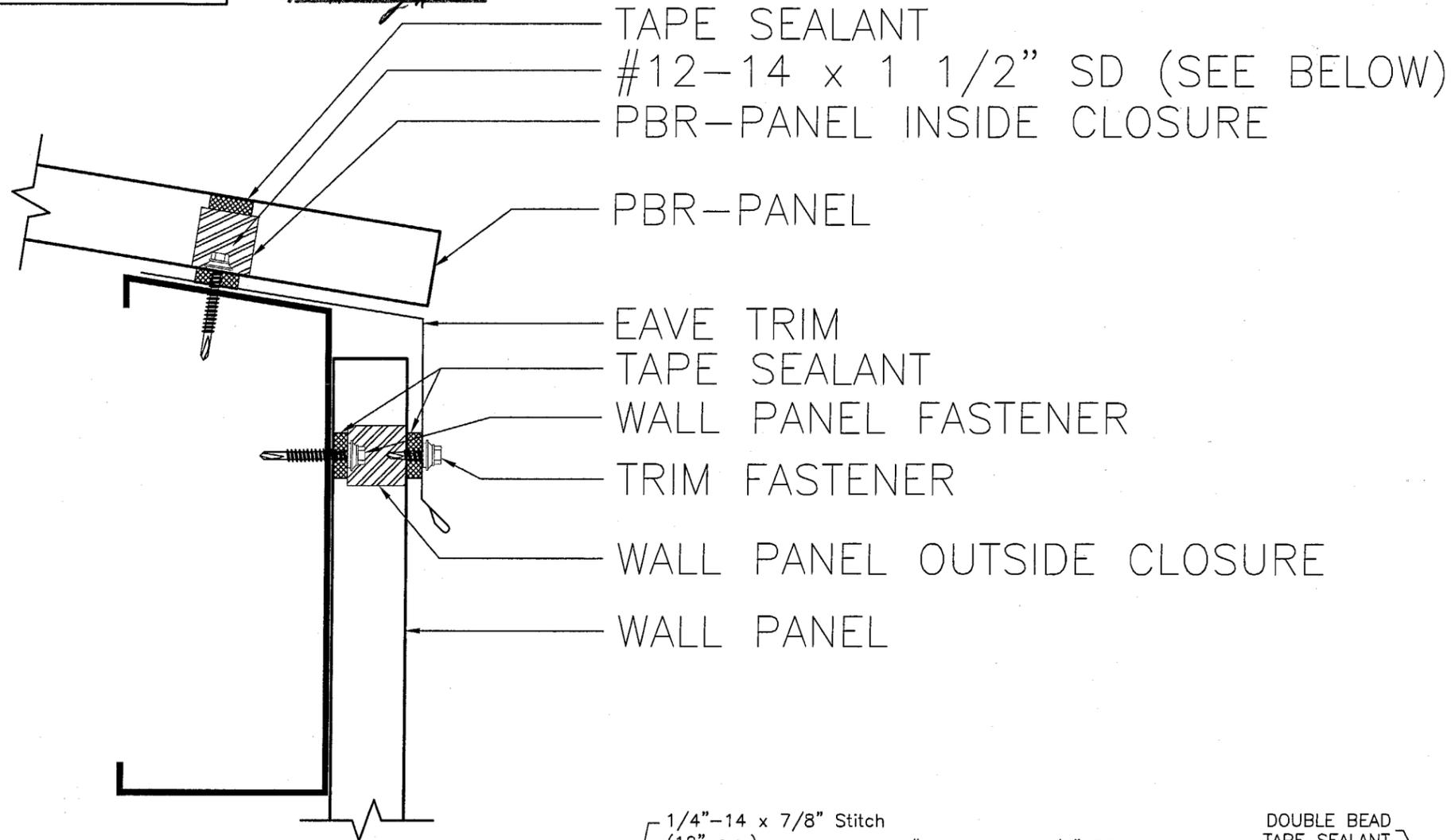
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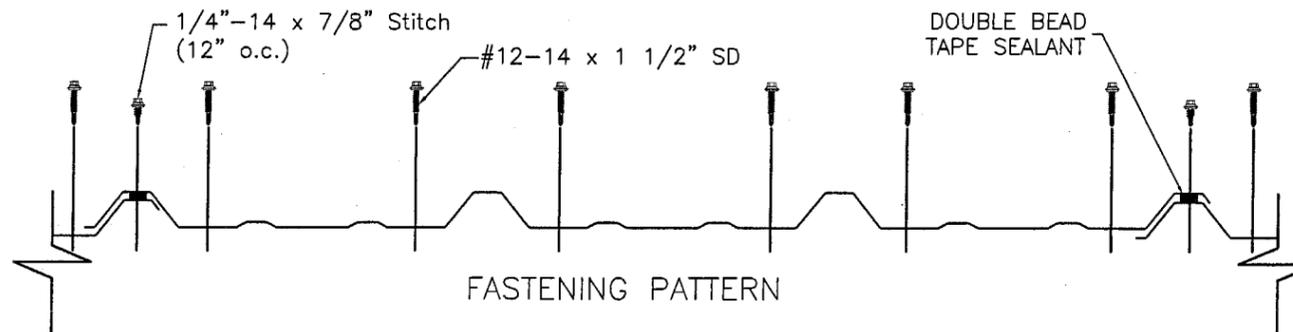
Miami Dade Product Control

Division

By Helmy A. Helmy



- TAPE SEALANT
- #12-14 x 1 1/2" SD (SEE BELOW)
- PBR-PANEL INSIDE CLOSURE
- PBR-PANEL
- EAVE TRIM
- TAPE SEALANT
- WALL PANEL FASTENER
- TRIM FASTENER
- WALL PANEL OUTSIDE CLOSURE
- WALL PANEL



*Yousef Lavi*

MAY 04 2005

Drawing Name:		PBR-Panel Profile		<b>metal sales</b> manufacturing corporation 
Date:	04/13/05	Scale:	None	
Dwg. No.:	R-W	Sheet No.:	12 of 12	