



**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.miamidade.gov

**Varco Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, NC 27284**

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.) 3" x 24" Steel Structural Roof Panel

APPROVAL DOCUMENT: Drawing No. FLVPHWR1, titled "VP HWR Panel (24" wide x 24 GA. Steel), sheets 1 through 4 of 4, including 2.1, 2.2, 3.1, 3.2, prepared by Varco Pruden Buildings, Inc., signed and sealed by Larry L. Boozer, P.E., on November 25, 2009, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the 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, Jackson, TN 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 E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
01/20/2010

**NOA No. 09-0917.10
Expiration Date: 01/20/2015
Approval Date: 01/20/2010**

Varco Pruden Buildings, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. FLVPHWR1, titled "VP HWR Panel (24" wide x 24 GA. Steel), sheets 1 through 4 of 4, including 2.1, 2.2, 3.1, 3.2, prepared by Varco Pruden Buildings, Inc., signed and sealed by Larry L. Boozer, P.E., on November 25, 2009.*

B. TESTS

1. *Susceptibility to Leakage Test in accordance with FM 4471, Appendix G, prepared by Force Engineering and Testing, Inc., Report No. 201-0254T-09L, dated September 09, 2009, signed and sealed by Terrence E. Wolfe, P.E.*
2. *Uniform Static Air Pressure Test in accordance with ASTM E 1592, prepared by Force Engineering and Testing, Inc., Report No. 201-0254T-09D-F, dated September 01, 2009, signed and sealed by Terrence E. Wolfe, P.E.*
3. *Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems Test in accordance with TAS 100-95, prepared by Farabaugh Engineering and Testing, Inc., Report No. T220-09, dated September 07, 2009, signed and sealed by Daniel G. Farabaugh, P.E.*
4. *Large Missile Test per TAS 201, prepared by Farabaugh Engineering and Testing, Inc., Report No. T199REV1-09, dated June 11, 2009, signed and sealed by Daniel G. Farabaugh, P.E.*

C. CALCULATIONS

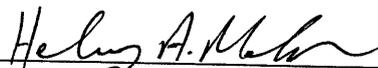
1. *Calculation titled Varco-Pruden Buildings "VP HWR Panel (24" wide x 24 GA. Steel), 25 sheets, dated 09/14/09, prepared and signed and sealed by Larry L. Boozer, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Tensile Test Report # W0910025, prepared by Building Research Systems, Inc., dated August 24, 2009.*

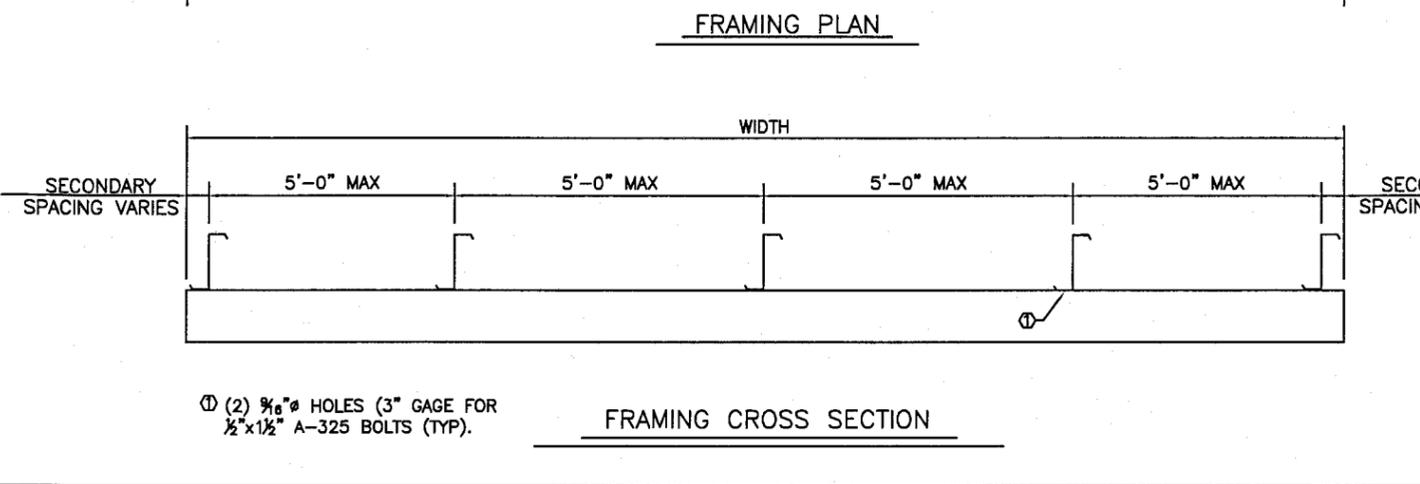
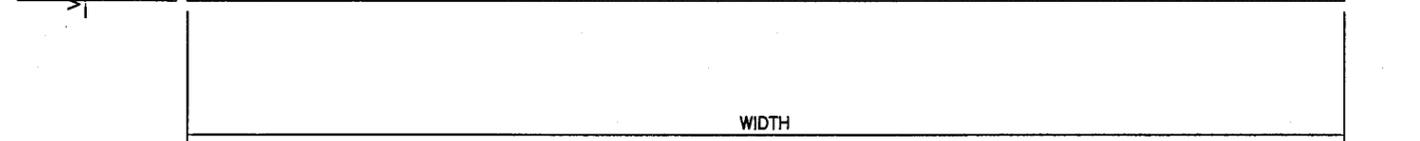
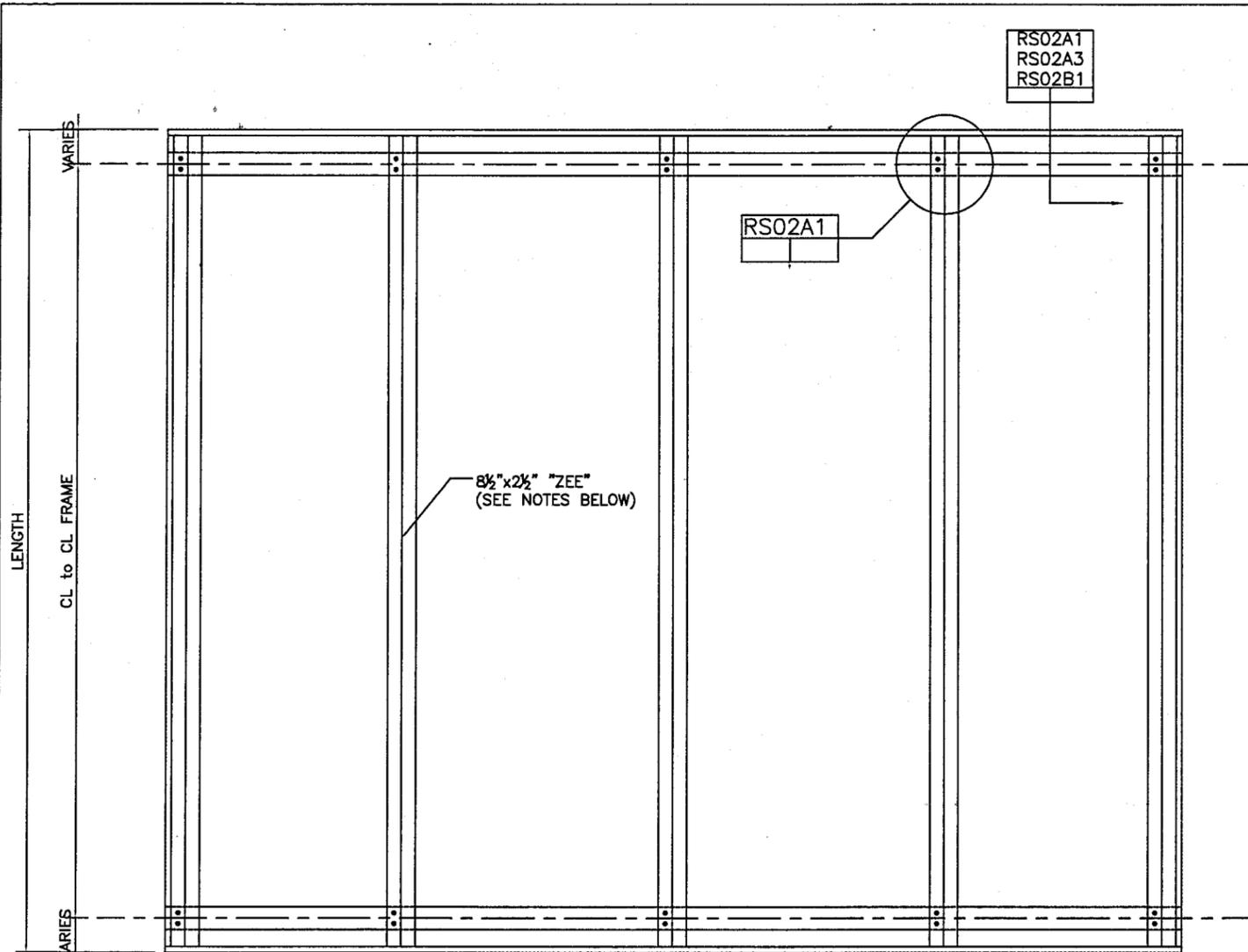


Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner

NOA No. 09-0917.10

Expiration Date: 01/20/2015

Approval Date: 01/20/2010

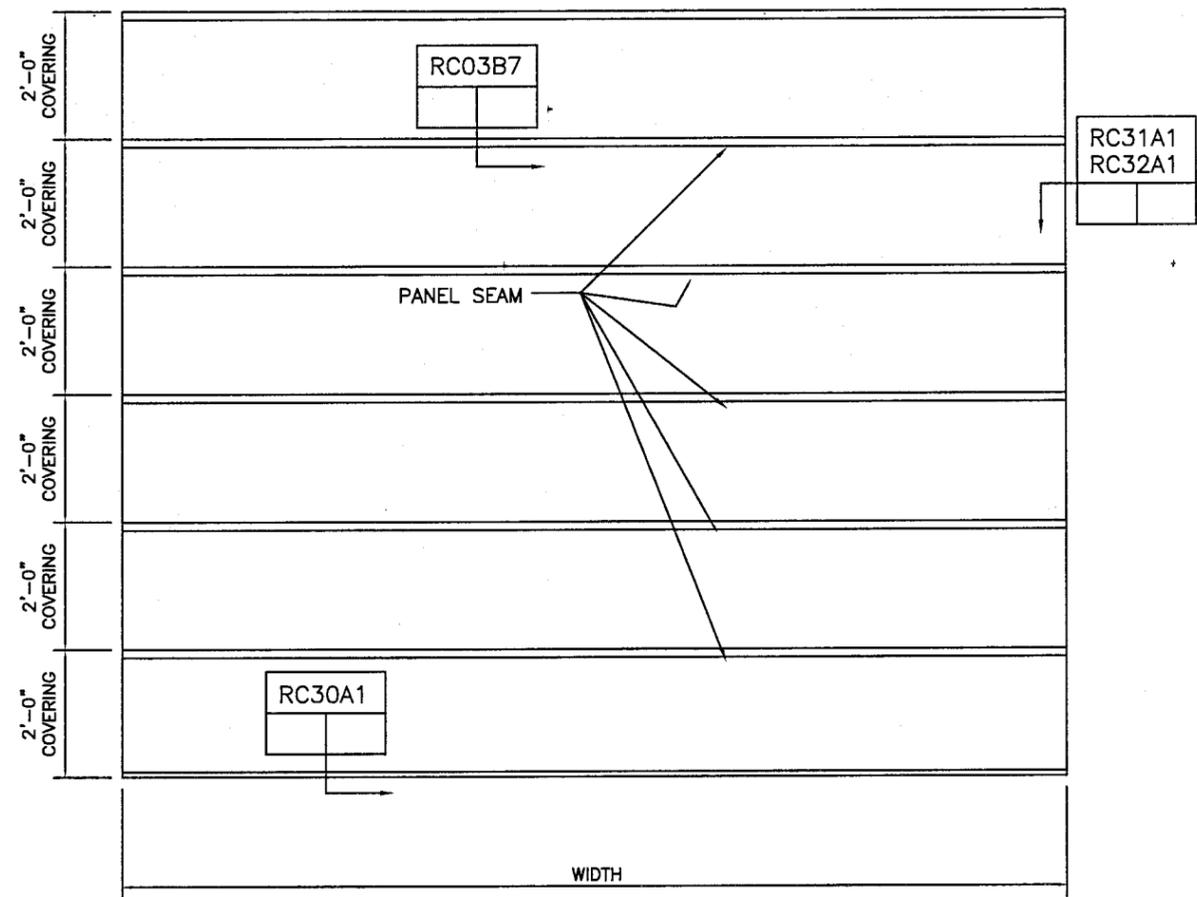


NOTE: THIS PANEL SHALL BE USED FOR ROOF CONSTRUCTION ONLY. FRAMING AND DETAILS SHOWN REPRESENT ACTUAL CONSTRUCTION DETAILS IN FIELD AND FOR TEST SPECIMENS USED IN TAS125-03 STANDARD REQUIREMENTS FOR METAL ROOF SYSTEMS. SIZES OF TEST APPARATUS VARY, REFER TO SPECIFIC TEST FOR SAMPLE SIZE. EACH ACTUAL ROOF PROJECT SHALL BE CONSTRUCTED USING THE SAME DETAILS SHOWN ON THESE DRAWINGS. INCLUDING: A) DETAILS OF ALL VP HWR SECTIONS WITH DIMENSIONS AND THICKNESS; B) ASSEMBLY DETAILS INCLUDING ALL CONNECTIONS; C) FASTENER DIAGRAM WITH THE SIZE AND LOCATION; D) PANEL MATERIAL CHARACTERISTICS.

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FOR PANEL MAXIMUM ALLOWABLE LOAD, SPAN AND INSTALLATION DETAILS, PAGES 1-4

PANEL STRENGTHS AS FOLLOWS:

ALLOWABLE STRENGTHS FOR UPLIFT LOADS W/8\"/>

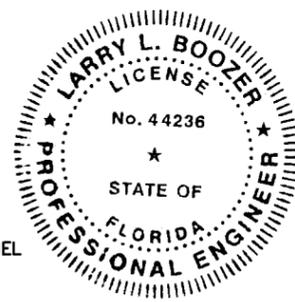
PANEL BENDING AT SUPPORTS OUTSIDE OF PANEL IN COMPRESSION MA=2149 LB-IN PER FT WIDTH OF PANEL
 PANEL BENDING BETWEEN SUPPORTS INSIDE OF PANEL IN COMPRESSION MA=1550 LB-IN PER FT WIDTH OF PANEL
 PANEL SHEAR VA = 203 LB
 INTERIOR PANEL REACTION PA INT =382 LB
 EXTERIOR PANEL REACTION PA EXT =131 LB
 DEFLECTION BASED ON EIX MIN = 641750LB-IN² (MAXIMUM DEFLECTION = L/240)
 MIN PURLIN THICKNESS = .059"

ALLOWABLE STRENGTHS FOR UPLIFT LOADS W/12\"/>

PANEL BENDING AT SUPPORTS OUTSIDE OF PANEL IN COMPRESSION MA=2631 LB-IN PER FT WIDTH OF PANEL
 PANEL BENDING BETWEEN SUPPORTS INSIDE OF PANEL IN COMPRESSION MA=1897 LB-IN PER FT WIDTH OF PANEL
 PANEL SHEAR VA = 248 LB
 INTERIOR PANEL REACTION PA INT =468 LB
 EXTERIOR PANEL REACTION PA EXT =161 LB
 DEFLECTION BASED ON EIX MIN = 642267LB-IN² (MAXIMUM DEFLECTION = L/240)
 MIN PURLIN THICKNESS = .082" 2' < SPAN < 5'
 MIN PURLIN THICKNESS = .059" SPAN < 2'

VP HWR PANEL SHEETING PLAN

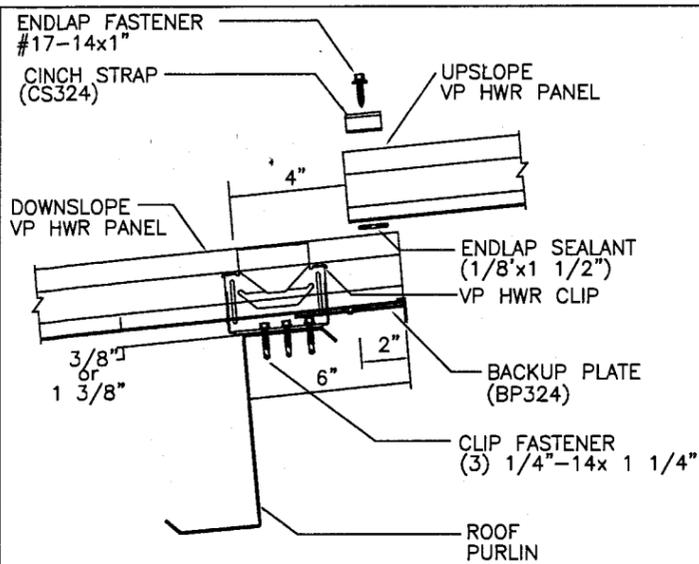
Approved as complying with the Florida Building Code
 Date 01/20/2010
 NOA# 09-0917-10
 Miami Dade Product Control
 Division
 By *Healy A. Hester*



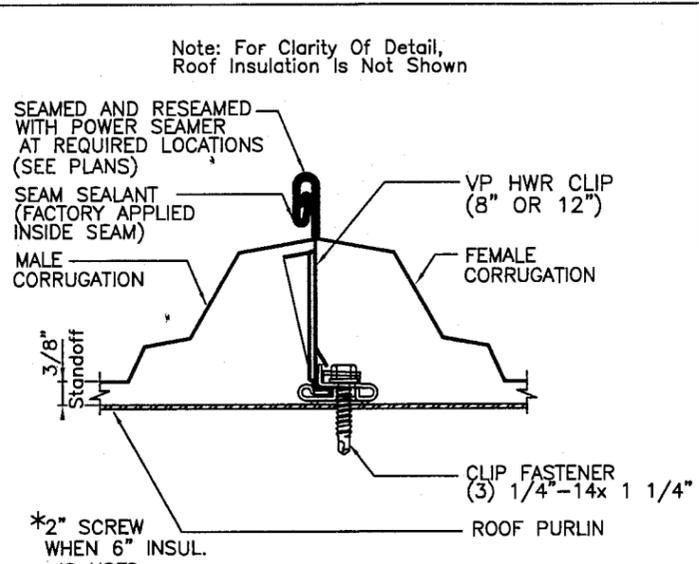
Larry L. Boozer
 LARRY L. BOOZER PE
 No. 44236
 VP BUILDINGS
 1140 W. MOUNTAIN STREET
 KERNERSVILLE, NC 27284

Varco Pruden Buildings, a division of BlueScope Buildings North America, Inc. 3200 Players Club Circle Memphis TN 38125				VP HWR PANEL (24" WIDE x 24 GA. STEEL)	
REV	DATE	BY	DESCRIPTION	BUILDER	DRAWING NO
				CUSTOMER	FLVPHWR1
				LOCATION	DATE
				PROJECT	09/01/09
				BUILDERS PO#	DRAWN/CHECK
					THL /
					PAGE 1 OF 4

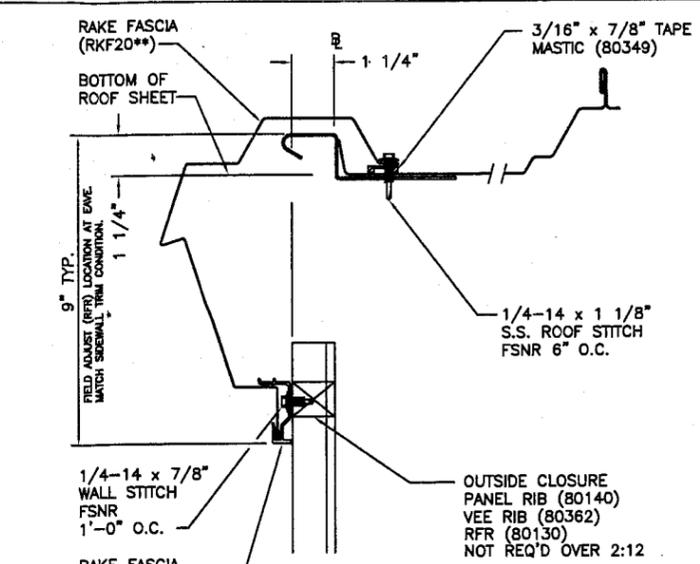




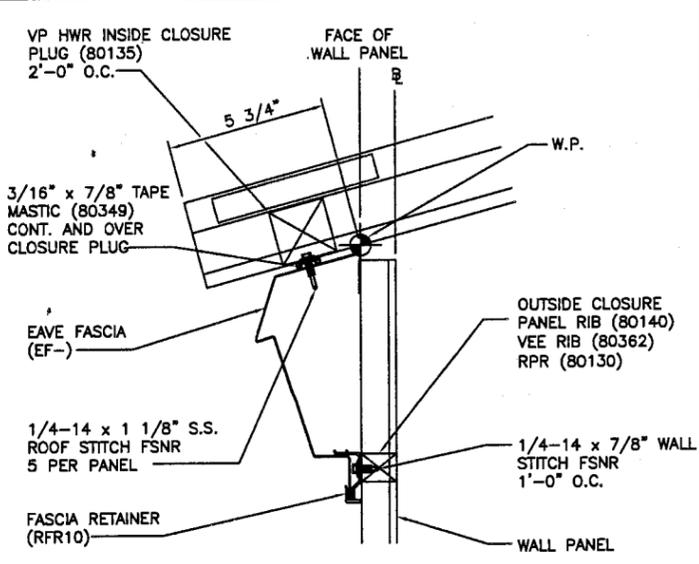
VP HWR ROOF PANEL ENDLAP
RC02B7
RC02B7V1 01/17/2005



VP HWR ROOF PANEL SIDELAP
RC03B7
RC03B7V1 01/17/2005



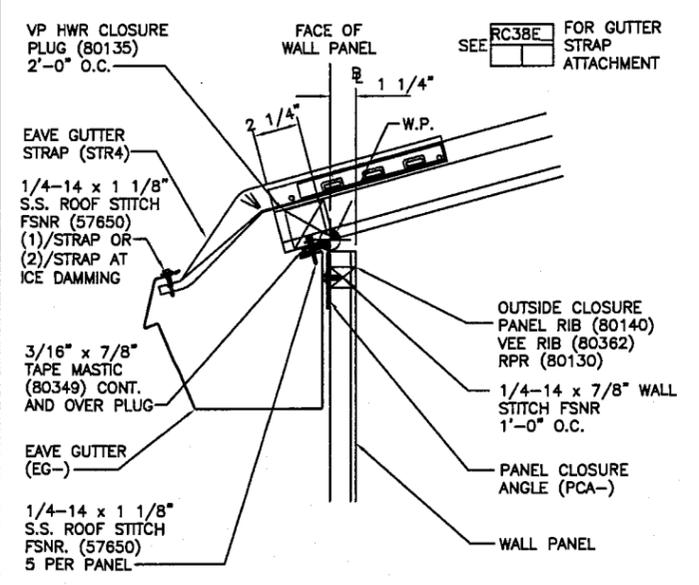
VP HWR ROOF RAKE TRIM
RC30A1
RC30A2V7 R 05/31/2005



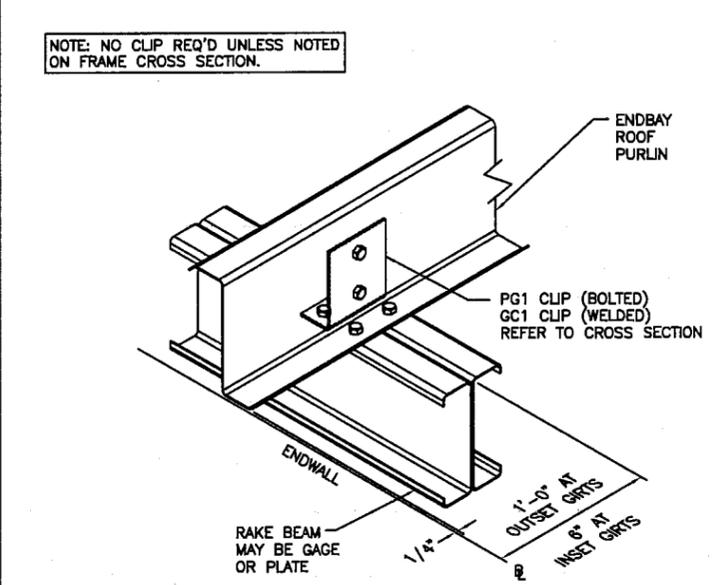
VP HWR ROOF W/ EAVE FASCIA
RC31A1
RC31A1V6 R 05/31/2005

MAXIMUM LENGTH: *****
TOLERANCES: DIM. ± .0313" (1/32")
ANGLES: ± 2°
ALL INSIDE RADIUS = .125" (1/8")

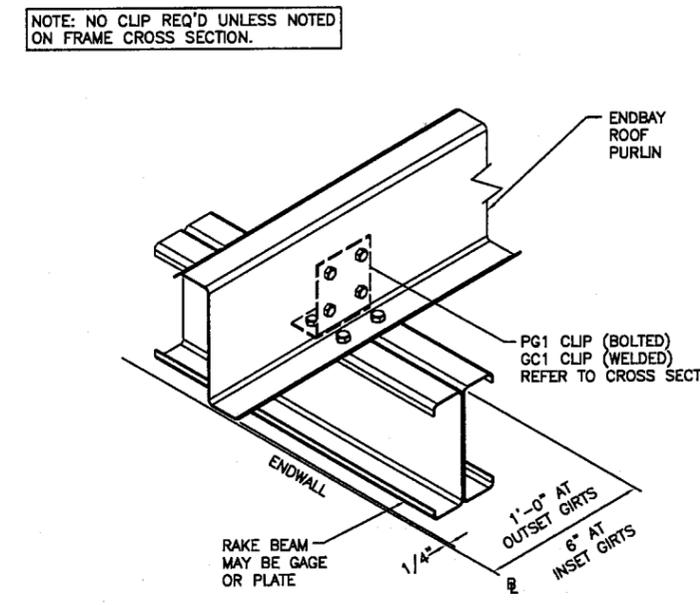
REFERENCE GAGE	THICKNESS	BLANK WIDTH	MATERIAL AND FINISH
24	0.024(MIN.)	****	REFER TO THE QUALITY CONTROL REFERENCE MANUAL



VP HWR ROOF W/ EAVE GUTTER
RC32A1
RC32A1V6 R 08/20/2007

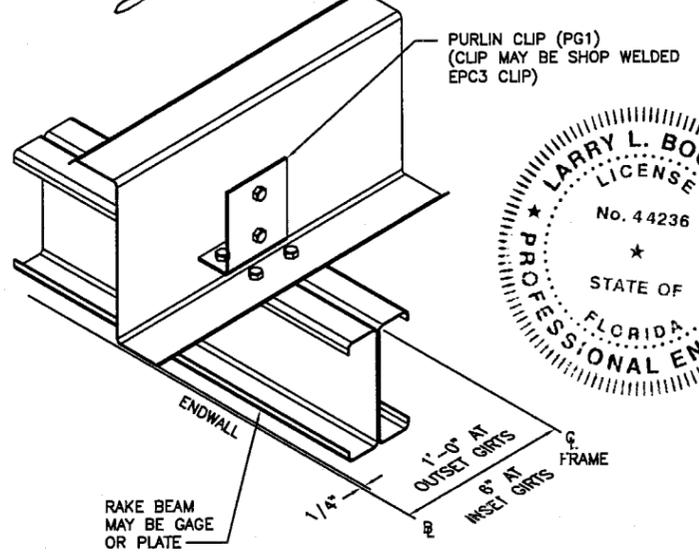


PURLIN CONN. TO END FRAME
RS02A1
RS02A1V6 R 11/27/2006



PURLIN CONN. TO END FRAME
RS02A3
RS02A3V6 R 11/27/2006

Approved as complying with the Florida Building Code
Date 01/20/2010
NOA# 09-0917.10
Miami Dade Product Control Division
By *Helmy A. Boozer*



PURLIN AT END FRAME
RS02B1
RS02B1V11 R 06/25/2007



LARRY L. BOOZER PE
No. 44236
VP BUILDINGS
1140 W. MOUNTAIN STREET
KERNERSVILLE, NC 27284

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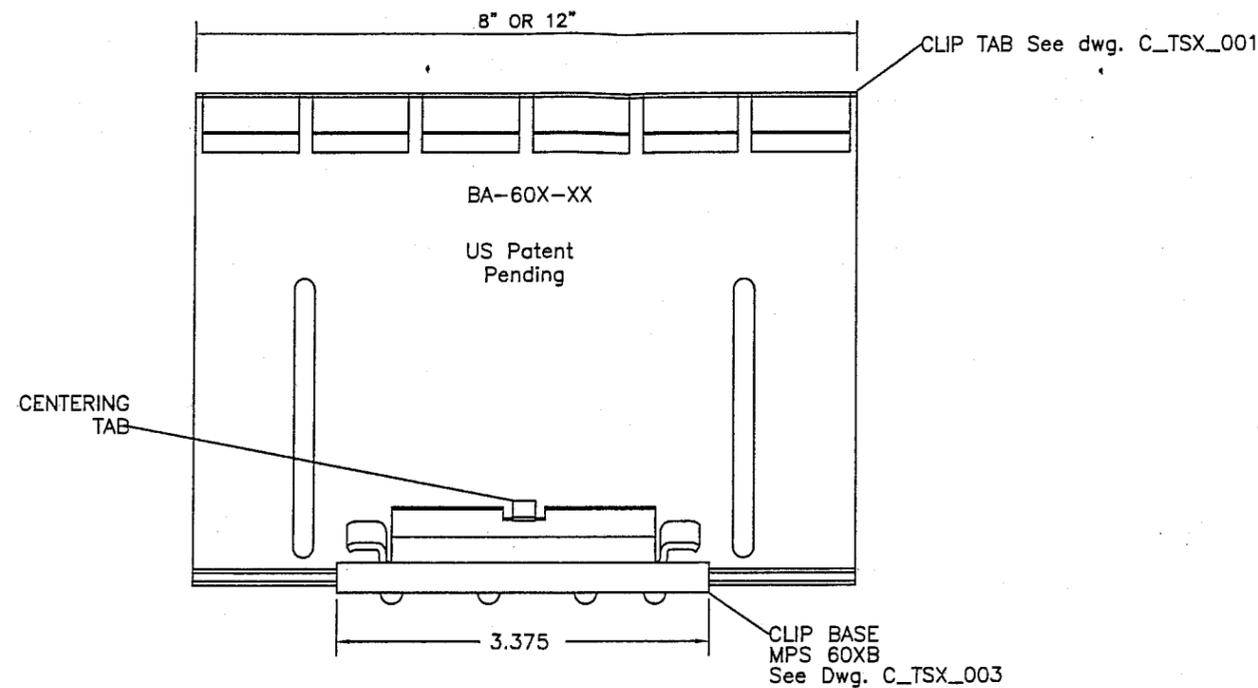
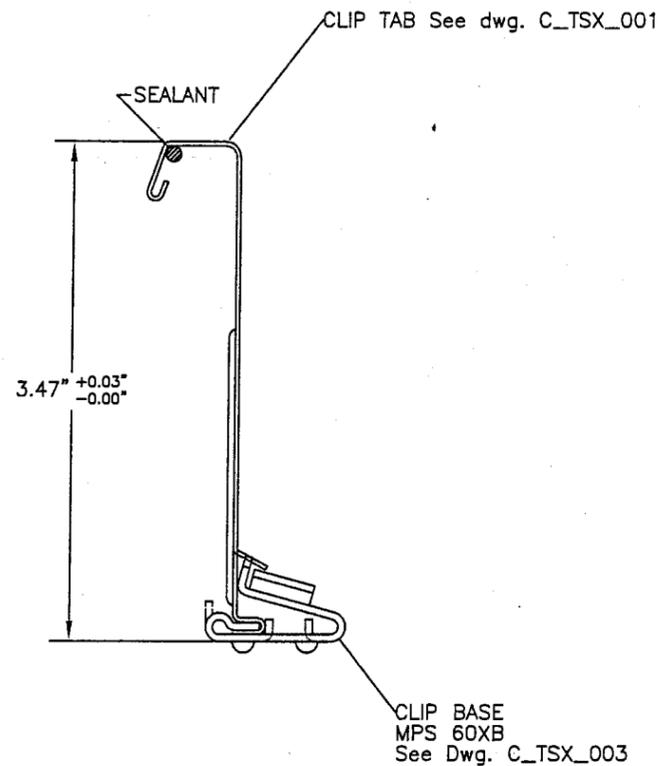
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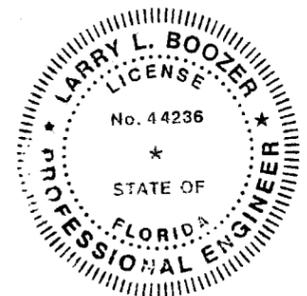
REV	DATE	BY	DESCRIPTION	BUILDER

VP HWR PANEL (24" WIDE x 24 GA. STEEL)		DRAWING NO. FLVPHWR1
		DATE 09/01/09
		DRAWN/CHECK THL /
		PAGE 2.1 OF 4





NOTE:
 MAT'L BASE G-90 GALVANIZED
 50 KSI MIN YLD .064 THICK
 MAT'L CLIP TAB G-90 GALVANIZED
 / GALVALUME 50 KSI MIN YLD
 .037 THICK.



VP HWR PANEL CLIP DETAILS AND SPECIFICATIONS

Approved as complying with the
 Florida Building Code
 Date 01/20/2010
 NOA# 09-0917.10
 Miami Dade Product Control
 Division
 By *Larry L. Boozer*

11/09/09 Larry L. Boozer
 LARRY L. BOOZER PE
 No. 44236
 VP BUILDINGS
 1140 W. MOUNTAIN STREET
 KERNERSVILLE, NC 27284

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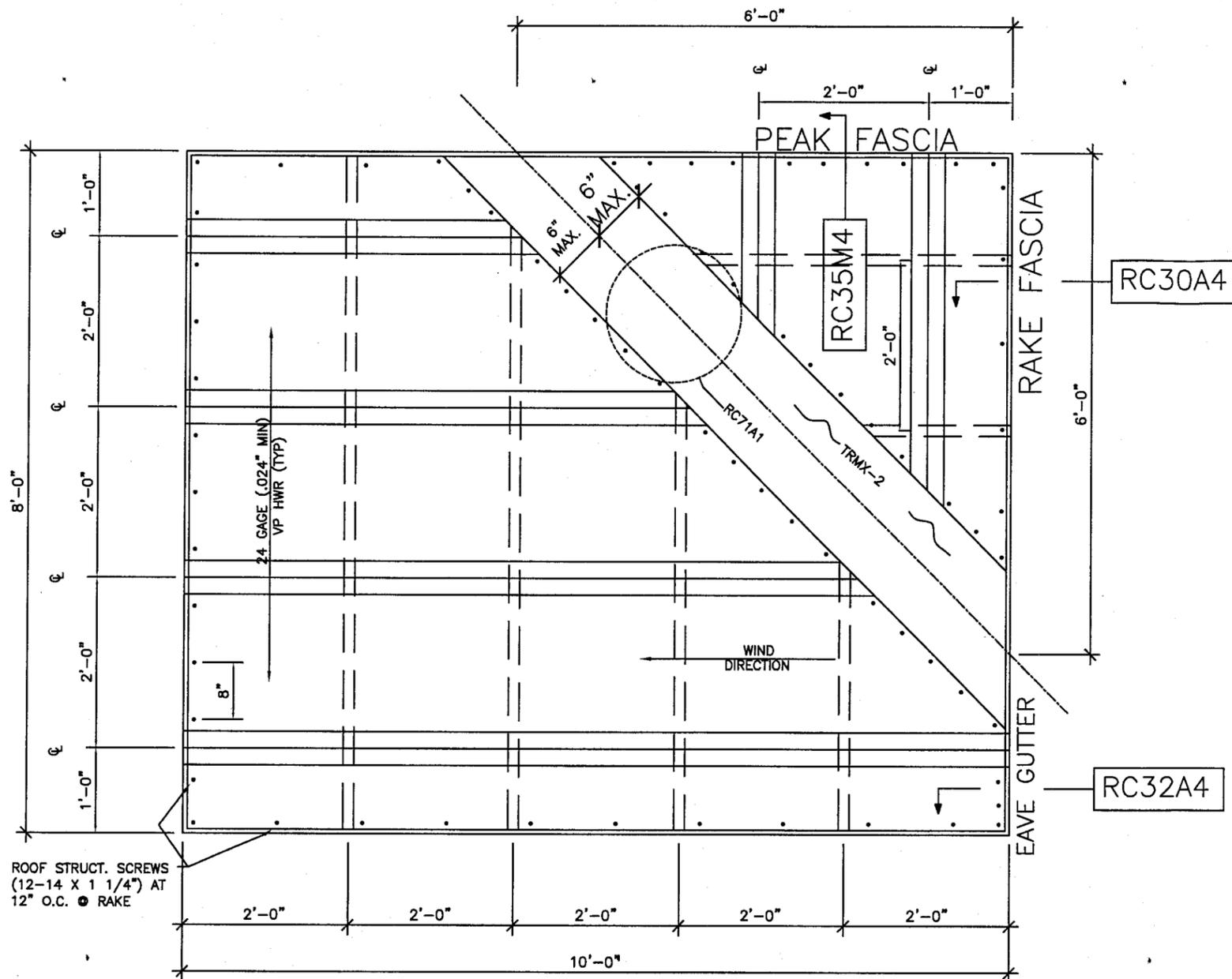
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Varco Pruden Buildings, a division of BlueScope Buildings North America, Inc. 3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

VP HWR PANEL (24" WIDE x 24 GA. STEEL)	
BUILDER	
CUSTOMER	
LOCATION	
PROJECT	
BUILDERS PO#	

DRAWING NO.	FLVPHWR1
DATE	09/01/09
DRAWN/CHECK	THL /
PAGE	2.2 OF 4

A BlueScope Steel Company
VFC VERSION: 7.1c



VP HWR systems consists of 0.024" (min.) 3" x 24" steel structural roof panel. VP HWR panels are factory-formed and field-machined seamed in place yielding a single unit membrane. Thermal compensating concealed clips connect the panels to secondary structural members which with sealants, mastics, closures, trim and flashing provide a weathertight and finished appearance. VP HWR panels provide 24" wide net coverage and have 3" high major ribs. Minimum roof pitch is 0.25: 12.

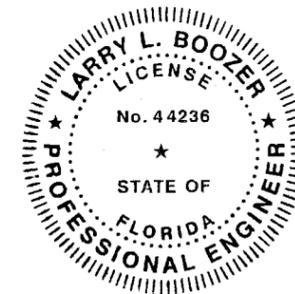
Roof panel mechanical properties:
Galvalume and galvanized steel coil used in roll formed or press broken roof covering generally will be material based on the requirements of ASTM A792 SS, Class 1 or 4 Gr. 50 for galvalume and A653 for galvanized. The minimum yield strength $F_y = 53,300$ psi, tensile strength $F_u = 65000$ psi.

- Roof panel coatings and/or finishes consist of the following:
- (1.) Galvalume AZ55 an aluminum-zinc alloy coating thickness of approximately .0018" applied to both sides of base metal.
 - (2.) Galvalume AZ50 an aluminum-zinc alloy coating thickness of approximately .0016" applied to both sides of base metal.
 - (3.) Galvanized G90 a zinc coating thickness of approximately .0015" applied to both sides of base metal.
 - (4.) Galvalume AZ55 may or may not have a KXL coating.
 - (5.) Galvalume AZ50 and Galvanized G90 must have a KXL coating.

Fasteners:
Exposed fasteners are self drilling, stainless steel-capped with integral sealing washer. Color of fastener heads match the roof panel finish when specified. Concealed fasteners for roof clip to roof secondary are self drilling. Location size and quantities as specified in details. Fasteners are manufactured by ITW Buildex, 1349 West Manor Ave., Itasca, IL 60143

Closures, Mastics, and Sealants:
Closures, formed to match roof panel profiles are supplied as required or specified to provide weathertightness. Closures are of a coated coil material, normally EPDM ethylene-propylene-duene-monomer) in a gray or neutral color. Closures are manufactured by Hanna Rubber Company Inc. 1511 Baltimore Ave. Kansas City, MO 64108. Preformed tape mastics, and/or non-skinning tube sealants are supplied for the sidelaps and endlaps of all Varco-Pruden roof coverings. Tape mastic is preformed butyl rubber-based compound. The compound is non-hardening, non-corrosive to metal and has excellent adhesion properties. Tape mastic is white or light gray in color. Tape mastic is manufactured by Sika Corp. 30800 Stephenson Hwy. Madison Heights, MI 48071. Tube sealant is a synthetic elastomer based material. Sealant color is gray or bronze. Tube sealant is manufactured by Sika Corp. 30800 Stephenson Hwy. Madison Heights, MI 48071.

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Date 01/20/2010
NOA# 09-0917.10
Miami Dade Product Control
Division
By Helmy A. Alkhr



Larry L. Boozer
LARRY L. BOOZER PE
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3200 Players Club Circle Memphis TN 38125

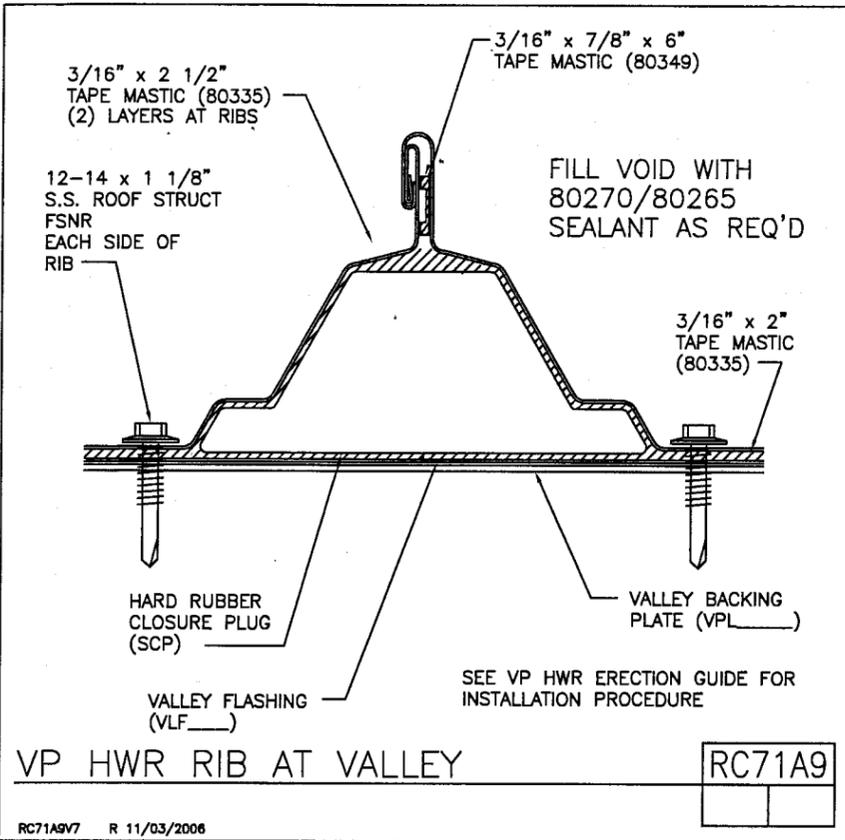
REV	DATE	BY	DESCRIPTION

VP HWR PANEL (24" WIDE x 24 GA. STEEL)

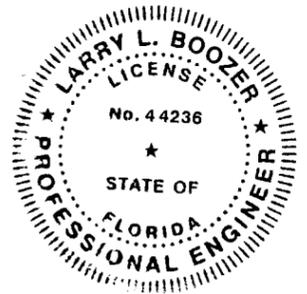
BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#

VP BUILDINGS
VARCO-PRUDEN
A BlueScope Steel Company
VPC VERSION: 7.1c

DRAWING NO. FLVPHWR1
DATE: 09/01/09
DRAWN/CHECK: THL /
PAGE 3 OF 4



RC71AGV7 R 11/03/2006



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 NOA# 09-0917.10
 Miami Dade Product Control
 Division
 By [Signature]

[Signature]
 LARRY L. BOOZER PE
 No. 44236
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 1140 W. MOUNTAIN STREET
 KERNERSVILLE, NC 27284

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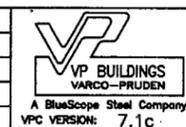
Varco Pruden Buildings, a division of
 BlueScope Buildings North America, Inc.
 3200 Players Club Circle Memphis TN 38125

REV	DATE	BY	DESCRIPTION

NTS

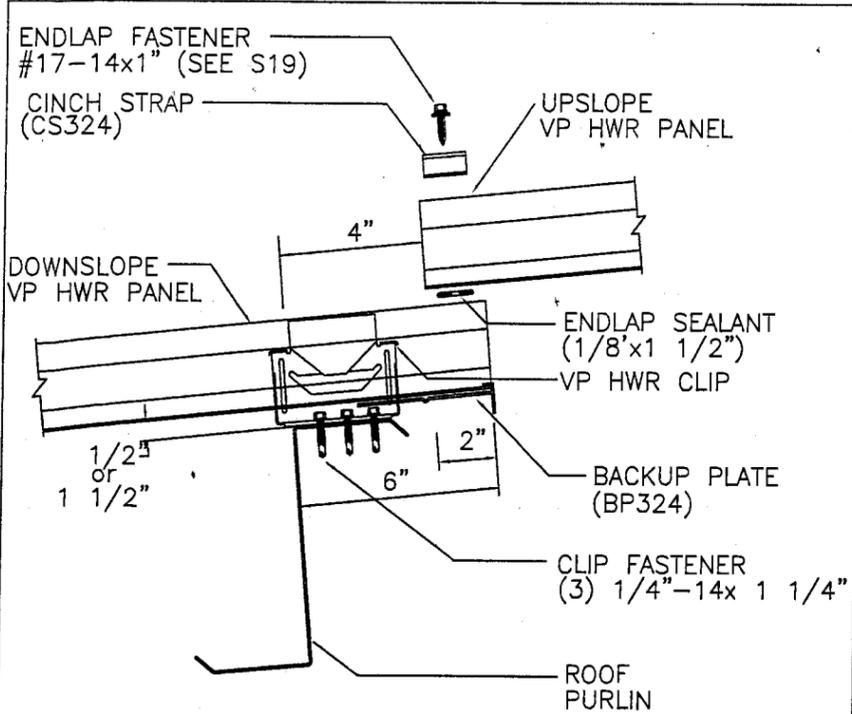
VP HWR PANEL (24" WIDE x 24 GA. STEEL)

BUILDER	
CUSTOMER	
LOCATION	
PROJECT	
BUILDERS PO#	



DRAWING NO	FLVPHWR1
DATE	09/01/09
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PAGE	3.2 OF 4

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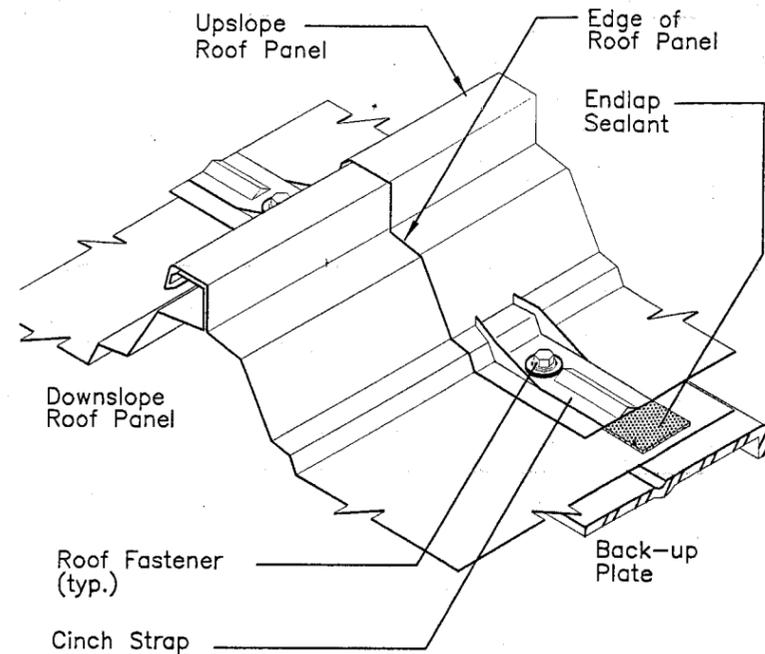


VP HWR ROOF

PANEL ENLAP (SEE NOTES BELOW)

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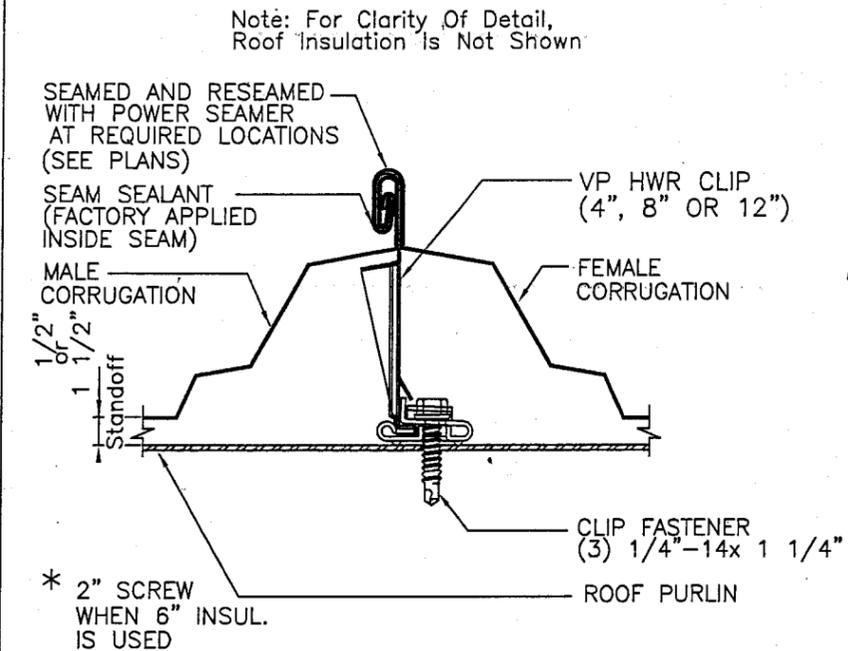
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VP HWR ROOF

PANEL ENLAP PROFILE VIEW (SEE NOTES BELOW)

RC02B7A



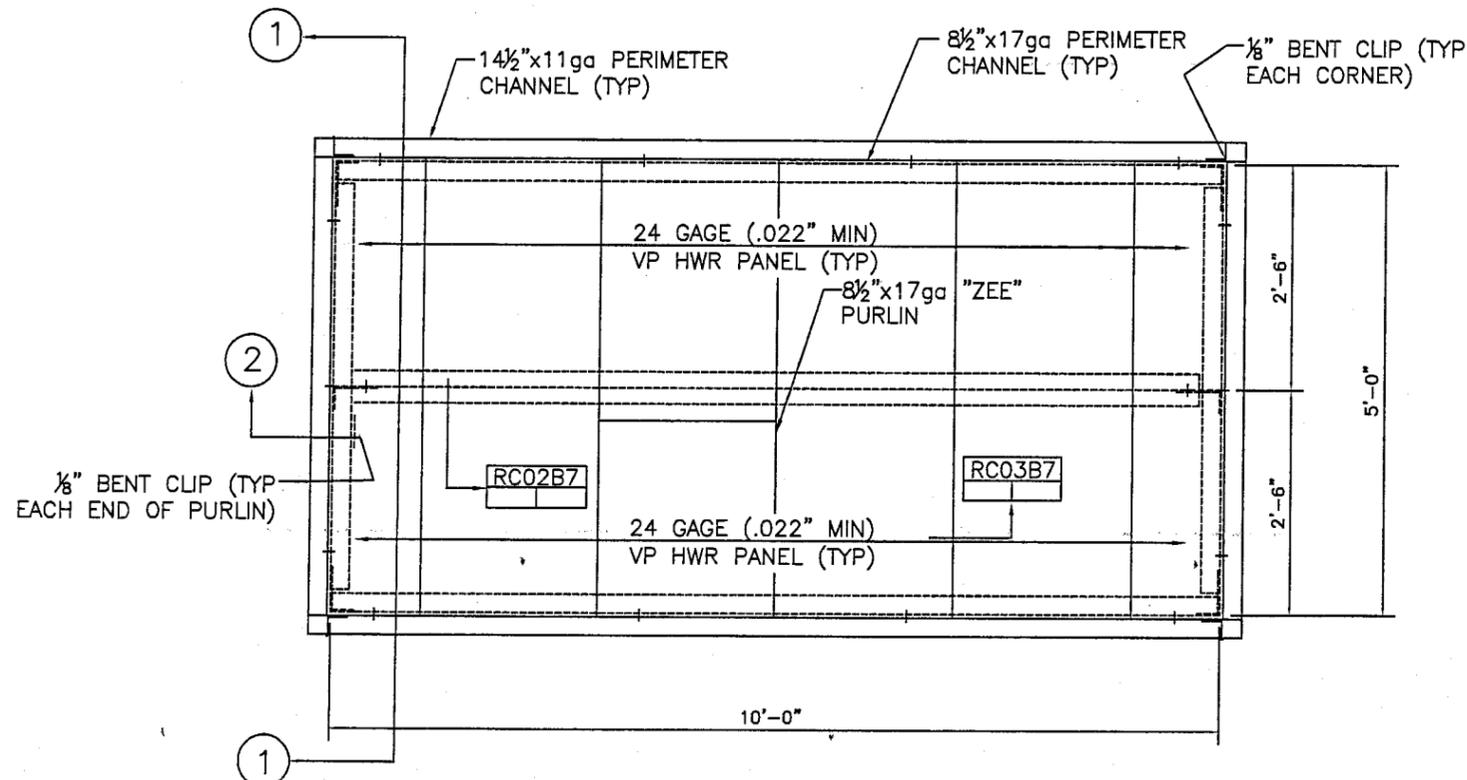
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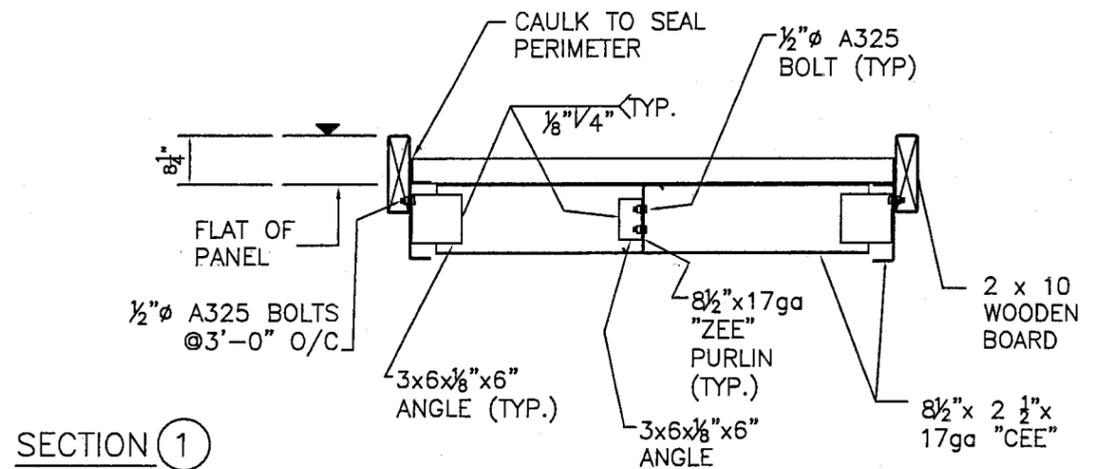
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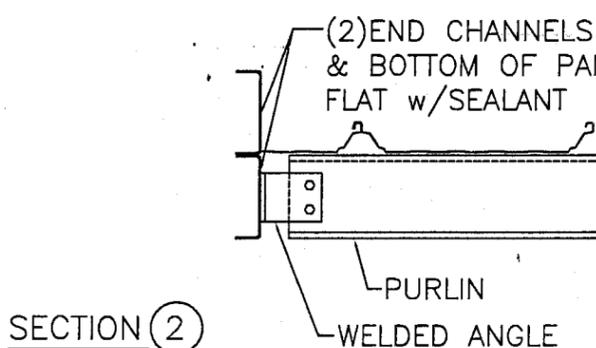
Approved as complying with the Florida Building Code
Date 01/20/2010
NOA# 09-0917-10
Miami Dade Product Control
Division
By *Heung A. Lee*



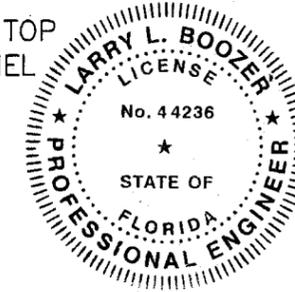
SUSCEPTIBILITY TO LEAKAGE TEST



SECTION 1



SECTION 2



LARRY L. BOOZER PE
No. 44236
VP BUILDINGS
1140 W. MOUNTAIN STREET
KERNERSVILLE, NC 27284

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REV	DATE	BY	DESCRIPTION

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VP HWR PANEL (24" WIDE x 24 GA. STEEL)

BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#

DRAWING NO FLVPHWR1	DATE 09/01/09
DRAWN/CHECK THL /	PAGE 4 OF 4

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