

**EVALUATION REPORT OF
METALMAX ROOFING AND SIDING
'PBR PANEL'**

**FLORIDA BUILDING CODE 7TH EDITION (2020)
FLORIDA PRODUCT APPROVAL
FL 41915.1
PANEL WALLS
SIDING**

**Prepared For:
MetalMax Roofing and Siding
900 Cpt Joe Fulghum Drive
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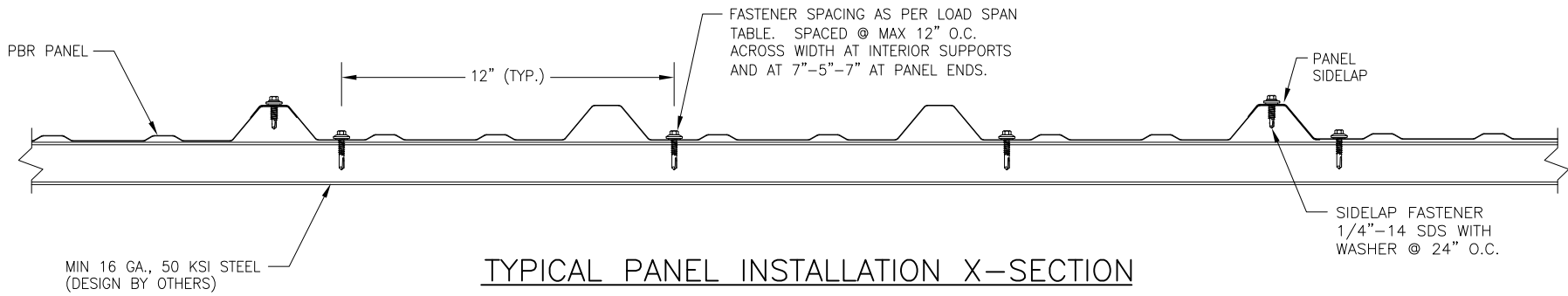
**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2615-2
Date: 2.10.2023**

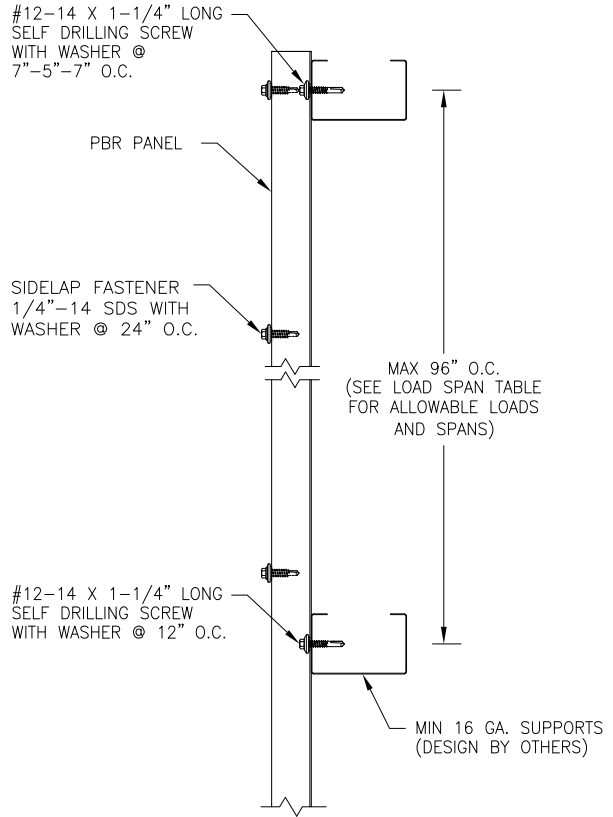


Manufacturer:	MetalMax Roofing and Siding
Product Name:	PBR Panel
Panel Description:	36" wide coverage with (4) 1.25" high ribs
Materials:	Min. 26 ga., 80 ksi steel or min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755) as per FBC 2020 Section 1405.2.
Support Description:	Min. 16 ga., min 50 ksi steel section. (Must be designed by others)
Design Outward Pressure: (Factor of Safety = 2) (2 or more spans)	-18.3 psf at support spacing of 96 o.c. -44.2 psf at support spacing of 60 o.c. -119.2 psf at support spacing of 24 o.c.
Design Inward Pressure:	The inward loads shown on the load span table were determined in accordance with FBC 2020 Section 1404.5 and 2210.1 and AISI S100-16. Secondary supports, frames and support connections must be designed to resist all loads.
Panel Attachment:	#12-14 x 1-1/4" long corrosion resistant self-drilling screws with washers.
At panel ends	at 7"-5"-7" o.c. across panel width
At interior supports	at 12" o.c. across panel width
Sidelap Attachment:	¼"-14 x 7/8" long corrosion resistant self-drilling screws with washer at 24" o.c.
Test Standards:	Wall assembly tested in accordance with ASTM E1592-05(2017) 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'.
Test Equivalency:	The test procedures in ASTM E1592-05(2017) comply with test procedures prescribed in ASTM E1592-05(2012).
Code Compliance:	The product described herein has demonstrated compliance with FBC 2020 Section 1404.5.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on MetalMax load span table. This evaluation report is not applicable in High Velocity Hurricane Zone.

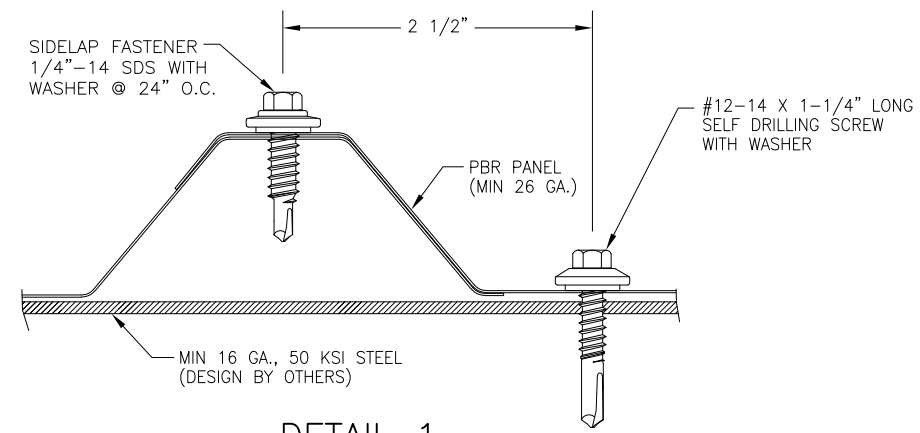
Supporting Documents: ASTM E1592 Test Report
ENCON Technology Inc.
C2613-1, Reporting Date 2/9/2023



TYPICAL PANEL INSTALLATION X-SECTION



SECTION VIEW



DETAIL 1

GENERAL NOTES:

1. STRUCTURAL WALL PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. WALL PANELS SHALL BE 26 GA. (t = 0.017"). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. THE WALL PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE DESIGN LOADS.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

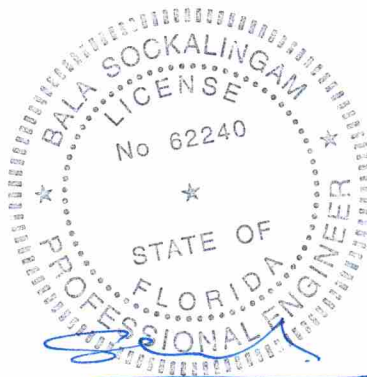
DRAWN BY: B.S.		CHECKED BY: R.B.	
PLOT:		DATE: 2/9/2023	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE PBR WALL PANEL		MANUFACTURER METALMAX ROOFING AND SIDING	
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DRAWING NO. 2615-2		REV. 	
PAGE NO. 1		OF 1	

**METALMAX ROOFING AND SIDING'S
PBR Wall Panel
Allowable Design Loads**

Support Spacing (in)	Allowable Design Loads (psf)	
	Inward	Outward
24	126.9	-119.2
27	112.8	-105.3
30	101.5	-94.2
33	92.3	-85.1
36	84.6	-77.5
39	78.1	-71.1
42	72.5	-65.6
45	67.7	-60.9
48	63.4	-56.7
51	59.7	-53.0
54	56.4	-49.8
57	53.4	-46.8
60	50.7	-44.2
66	44.7	-37.9
72	37.6	-32.7
78	32.1	-28.3
84	27.7	-24.5
90	24.2	-21.2
96	21.3	-18.3

Notes:

1. Allowable load is the lowest value of panel strength, web crippling (inward load), connection strength & deflection limit of L/120.
2. Allowable load is applicable to two or more spans conditions.
3. Panels must be installed as per Evaluation Report FL 41915.1 and MetalMax current installation procedure.
4. The structural capacity of support beams are not considered and must be examined independently.
5. Minimum support thickness is 16 ga.



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