

**EVALUATION REPORT OF
METAL SALES MANUFACTURING CORPORATION
'26 GA. PBR-PANEL'**

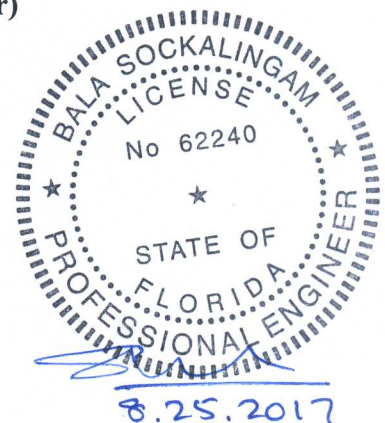
**FLORIDA BUILDING CODE 6TH EDITION (2017)
FLORIDA PRODUCT APPROVAL
FL 10999.7-R3
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
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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. C2180-7
Date: 8.25.2017**



Manufacturer: Metal Sales Manufacturing Corporation

Product Name: PBR-Panel

Panel Description: 36" wide coverage with (4) 1-1/4" 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).

Support Description: Min. 16 ga., 50 ksi steel section. (Must be designed by others)

Slope: 1/2:12 or greater in accordance with FBC 2017 Section 1507.4.2. Requires applied lap sealant for roof slopes less than 3:12.

Design Uplift Pressure: 41.9 psf @ fastener spacing of 60 o.c. (3 or more spans)
(Factor of Safety = 2) 154.4 psf @ fastener spacing of 24 o.c. (3 or more spans)

Panel Attachment:

At panel ends #12-14 x 1-1/4" long SDS with washer @ 7"-5"-7" o.c. across panel width

At intermediate #12-14 x 1-1/4" long SDS with washer @ 12" o.c. across panel width

Sidelap Attachment: 1/4"-14 x 7/8" long SDS with washer @ 12" o.c.

Test Standards: Roof assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.

Test Equivalency: The test procedure in ASTM E1592-01 comply with test procedure prescribed in ASTM E1592-05(2012).
The test procedure in FM 4470 (1992) comply with test procedure prescribed in FM 4470 (2012).

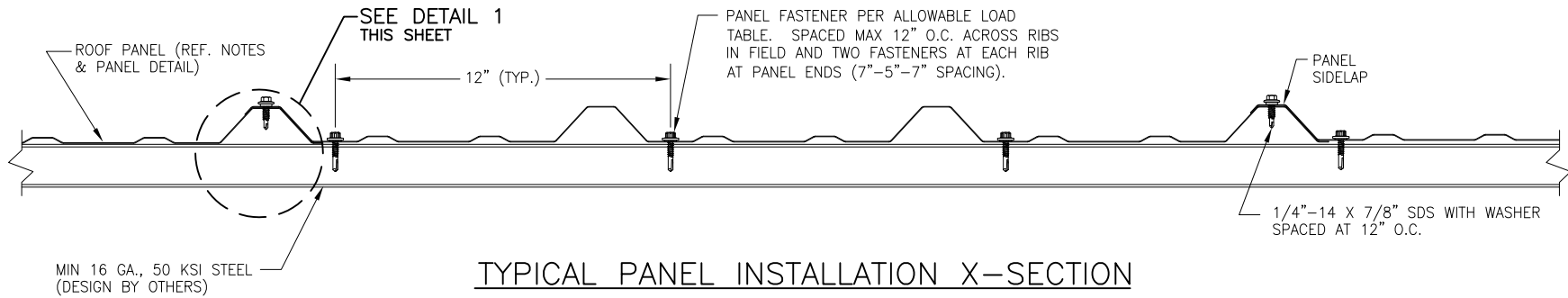
Code Compliance: The product described herein has demonstrated compliance with FBC 2017 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2017 Section 1609 or ASCE 7-10 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Metal Sales load span table. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to

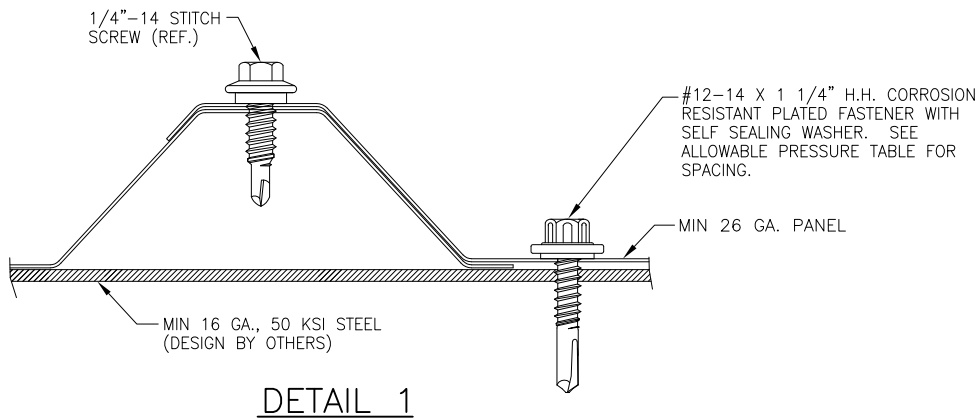
FBC 2017 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Reports
Farabaugh Engineering and Testing Inc.
Project No. T154-06, Reporting Date 5/15/06

FM 4470 Test Report
ENCON Technology Inc.
C1587-1, Reporting Date 5/17/08



TYPICAL PANEL INSTALLATION X-SECTION



DETAIL 1

GENERAL NOTES:

1. STRUCTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. PANELS SHALL BE MIN. 26 GA. (t = 0.017"). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. THE ROOF PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
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 WIND LOADS SPECIFIED ON THIS DRAWING.
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. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: B.S.	CHECKED BY: D.S.
DATE: 3/20/15	

DRAWING TITLE
PBR ROOF PANEL

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DRAWING NO. 2180-7	REV.
PAGE NO. 1	OF 1

METAL SALES MANUFACTURING CORPORATION

PBR-Panel Uplift Loads

(Min 26 ga.)

Description	Fastener Spacing along panel length (in)	Allowable Uplift Load (psf)
Coverage width: 36"	24	154.4
	27	137.2
Panel Fasteners #12-14 x 1.25" long hex head screws with sealed washer	30	123.5
	33	112.3
	36	102.9
	39	95.0
	42	85.5
Panel fasteners spaced at 12" o.c. across panel width	45	74.5
	48	65.5
	51	58.0
	54	51.7
Sidelap fasteners spaced at 12" o.c.	57	46.4
	60	41.9

Notes:

1. The bold numbers indicate design loads calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 10999.7 and Metal Sales current installation procedure.
3. Three or more spans condition.



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