

**EVALUATION REPORT OF  
METAL SALES MANUFACTURING CORPORATION  
'26 GA. IMAGE II PANEL'**

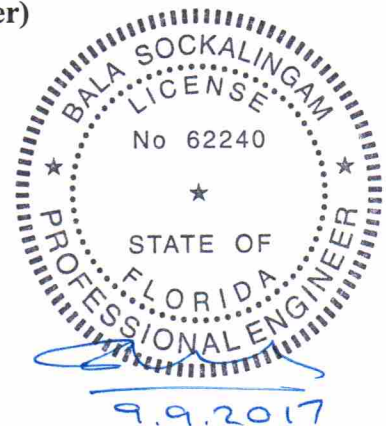
**FLORIDA BUILDING CODE 6TH EDITION (2017)  
FLORIDA PRODUCT APPROVAL  
FL 14645.12-R3  
ROOFING  
METAL ROOFING**

**Prepared For:  
Metal Sales Manufacturing Corporation  
545 South 3<sup>rd</sup> Street, Suite 200  
Louisville, KY 40202  
Telephone: (502) 855-4300  
Fax: (502) 855-4200**

**Prepared By:  
Bala Sockalingam, Ph.D., P.E.  
Florida Professional Engineer #62240  
1216 N Lansing Ave., Suite C  
Tulsa, OK 74106  
Telephone: (918) 492-5992  
FAX: (866) 366-1543**

**This report consists of  
Evaluation Report (3 Pages including cover)  
Installation Details (1 Page)  
Load Span Table (1 Page)**

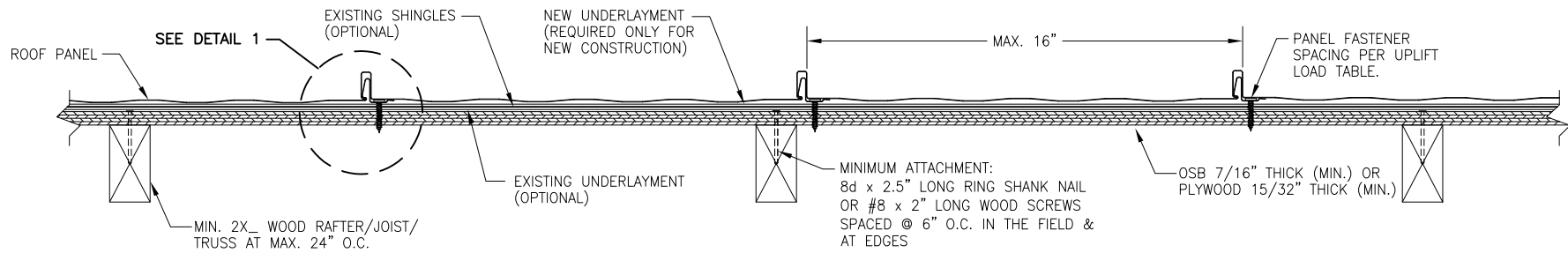
**Report No. C2182-12  
Date: 9.9.17**



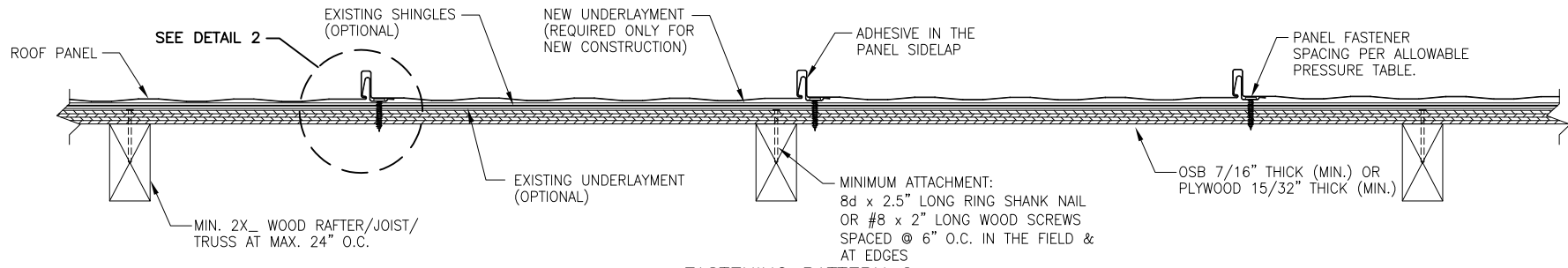
Manufacturer:	Metal Sales Manufacturing Corporation
Product Name:	Image II
Panel Description:	Max. 16" wide coverage with 1" high ribs
Materials:	Min. 26 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755).
Deck Description:	Min. 7/16" thick OSB or min. 15/32" thick Plywood or min. 3/4" thick wood plank (min SG of 0.42) for new and existing constructions. Designed by others and installed as per FBC 2017.
Deck Attachment: (Minimum)	8d x 2.5" long ring shank nails or #8 x 2" long wood screws @ 6" o.c. in the plywood field and edges. Designed as per FBC 2017.
New Underlayment:	Minimum underlayment as per FBC 2017 Section 1507.4.5.1. Required for new construction and optional for reroofing construction.
Existing Underlayment: (Optional)	One layer of asphalt shingles over one layer of #30 felt. For reroofing construction only.
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.
Allowable Uplift Load: (Factor of Safety = 2)	20.8 psf @ fastener spacing of 24" o.c 63.5 psf @ fastener spacing of 6" o.c 86.55 psf @ fastener spacing of 6" o.c with 3/8" bead adhesive in panel sidelap
Fastener Pattern:	#10 pancake head screws along panel seam. Fastener shall be of sufficient length to penetrate through the deck a minimum of 1/4".
Sidelap Adhesive:	Schnee-Morehead SM7108 Permathane adhesive
Test Standards:	Roof assembly tested in accordance with UL580-94 (Rev 98) 'Uplift Resistance of Roof Assemblies' & UL1897-98 'Uplift Tests for Roof Covering Systems'.
Test Equivalency:	The test procedures in UL 580-94 comply with test procedures prescribed in UL 580-06. The test procedures in UL 1897-98 comply with test procedures prescribed in UL 1897-12.
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 fastener spacing listed herein shall not be exceeded. The design pressure for reduced fastener 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:** UL580/UL1897 Test Reports  
Farabaugh Engineering and Testing Inc.  
Project No. T176-11, Reporting Date 4/26/11  
Project No. T260-11, Reporting Date 8/15/11

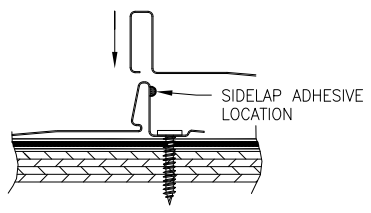
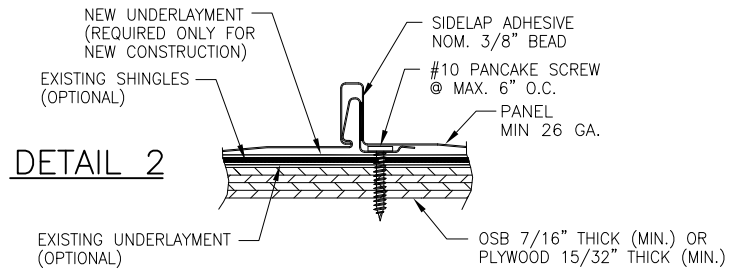
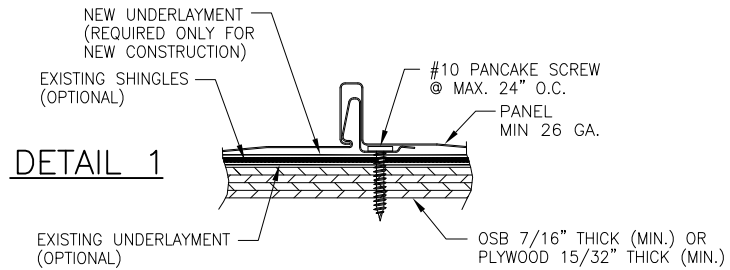


**FASTENING PATTERN 1**



**FASTENING PATTERN 2**

**TYPICAL PANEL INSTALLATION X-SECTION**



**GENERAL NOTES:**

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 26 GA. (t = 0.018"). MAX. EFFECTIVE COVERING WIDTH OF PANEL = 16".
3. THE ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & 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 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. RAFTERS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.  
CHECKED BY: D.S.  
PLOT: DATE: 3/25/15

NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE: **IMAGE II PANEL**  
 MANUFACTURER: **METAL SALES MANUFACTURING CORP.**  
 CONSULTANTS: **BALA SOCKALINGAM, PH.D., P.E.**  
 1216 N LANSING AVE, SUITE C  
 TULSA, OK 74106  
 PHONE: 918-492-5992 FAX: 918-493-3568  
 545 SOUTH 3RD ST., SUITE 200  
 LOUISVILLE, KY 40202  
 502-855-4300

DRAWING NO. **2182-12** REV. **1**  
 PAGE NO. **1** OF **1**

**METAL SALES MANUFACTURING CORPORATION**

**Image II Uplift Loads**

**(Min. 26 ga.)**

Description	Fastener Spacing along Panel Length (in)	Allowable Uplift Load (psf)
Coverage width: 16"  Panel Fastener: #10-12 pancake head screws	<b>6</b>	<b>63.5</b>
	8	58.8
	10	49.8
	12	41.5
	14	35.6
	16	31.1
	18	27.7
	20	24.9
	22	22.6
	<b>24</b>	<b>20.8</b>
With Sidelap Sealant	<b>6</b>	<b>86.55</b>

**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 14645.12 and Metal Sales current installation procedure.
3. Three or more spans condition.



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FL 62240