

**EVALUATION REPORT OF  
METAL SALES MANUFACTURING CORPORATION  
'24 GA. VERTICAL SEAM PANEL'**

**FLORIDA BUILDING CODE 5<sup>TH</sup> EDITION (2014)  
FLORIDA PRODUCT APPROVAL  
FL 11560.10-R2  
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) 855-4290**

**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 (2 Pages including cover)  
Installation Details (1 Page)**

**Report No. C2009-10  
Date: 3.27.15**



Manufacturer: Metal Sales Manufacturing Corporation

Product Name: Vertical Seam

Panel Description: Max. 16" wide coverage with 1.75" high ribs

Materials: Min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755).

Deck Description: Min. 15/32" thick plywood for new and existing constructions. Designed and installed as per FBC 2014.

Deck Attachment: 8d x 2.5" long ring shank nails or #8 x 2" long wood screws @ 6" o.c. (Minimum) in the plywood field and 4" o.c. at plywood edges

Underlayment: Minimum underlayment as per FBC 2014 Section 1507.4.5.1

Slope: 2:12 or greater in accordance with FBC 2014 Section 1507.4.2

Design Uplift Pressure: 30.0 psf @ clip spacing of 48" o.c.  
(Factor of Safety = 2) 73.0 psf @ clip spacing of 24" o.c.  
114.25 psf @ clip spacing of 8" o.c.

Fastening Pattern: At panel seam Panel clip with (2) #10-12 x 1" long pancake head screws per clip

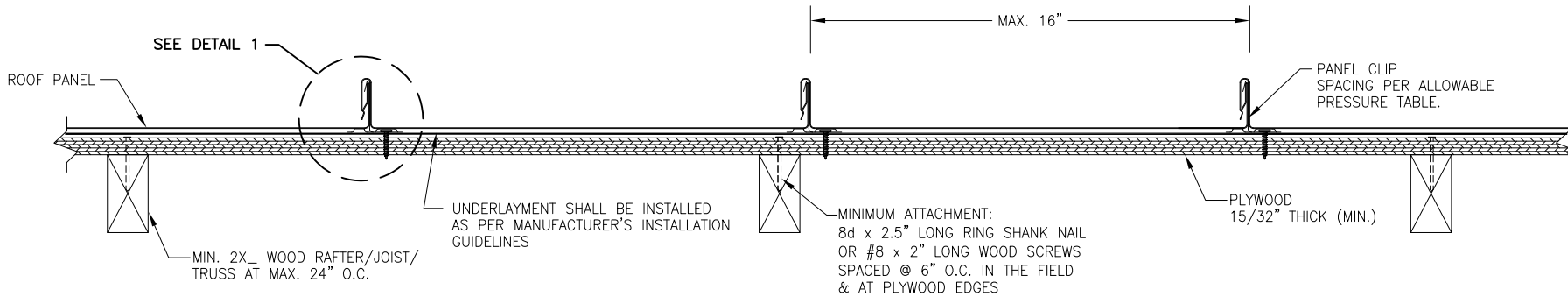
Test Standards: Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems' and UL580-06 'Uplift Resistance of Roof Assemblies' & UL1897-04 'Uplift Tests for Roof Covering Systems'.

Code Compliance: The product described herein has demonstrated compliance with FBC 2014 Section 1507.4

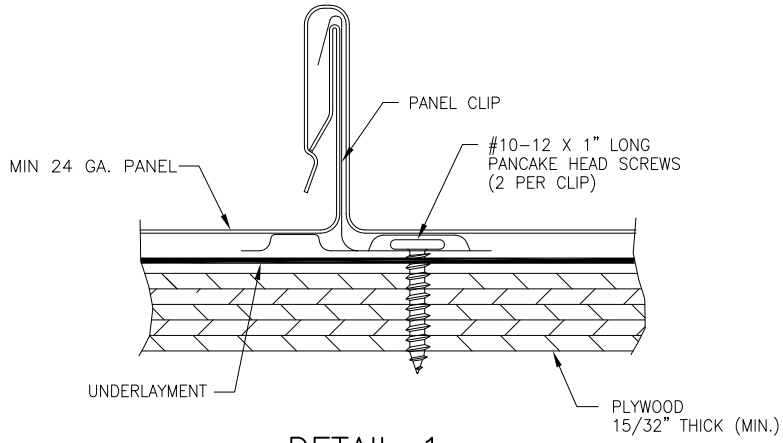
Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2014 Section 1609 or ASCE 7-10 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. This evaluation report is not applicable in High Velocity Hurricane Zone. Refer to current NOA for use of this product in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2014 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: TAS 125-03 Test Reports  
Hurricane Test Laboratory, LLC  
HTL Report #: 0103-0206-09, Reporting Date 3/25/09

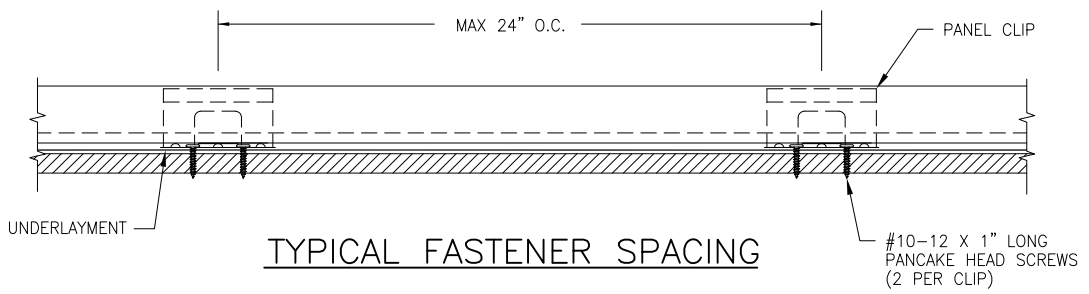
UL580 & 1897 Test Reports  
PRI Construction Materials Technologies  
MSMC-015-02-01, Reporting Date 9/20/13



**TYPICAL PANEL INSTALLATION X-SECTION**



**DETAIL 1**



**TYPICAL FASTENER SPACING**

**ALLOWABLE UPLIFT PRESSURE**

CLIP SPACING (IN)	PRESSURE (PSF)
48	30.0
24	73.0
8	114.25

**GENERAL NOTES:**

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 24 GA. 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.
PLLOT:	DATE: 3/25/15
DATE	
BY	
REVISION DESCRIPTION	
NO.	

**DRAWING TITLE**  
 VERTICAL SEAM PANEL  
**CONSULTANTS**  
 BALA SOCKALINGAM, PH.D., P.E.  
 1216 N LANSING AVE, SUITE C  
 TULSA, OK 74106  
 PHONE: 918-492-5992 FAX: 866-366-1543  
**MANUFACTURER**  
 METAL SALES MANUFACTURING CORP.  
 545 SOUTH 3RD ST., SUITE 200  
 LOUISVILLE, KY 40202  
 502-855-4300

DRAWING NO. 2009-10	REV.
PAGE NO. 1	OF 1