

**EVALUATION REPORT OF  
METAL SALES MANUFACTURING CORPORATION  
'26 GA. 5V-CRIMP PANEL'**

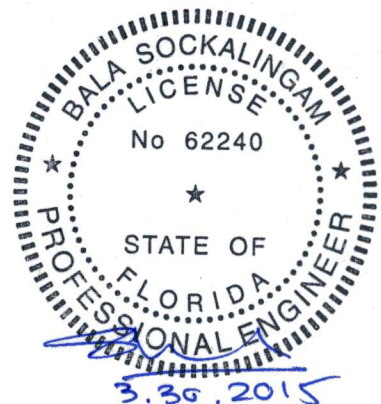
**FLORIDA BUILDING CODE 5<sup>TH</sup> EDITION (2014)  
FLORIDA PRODUCT APPROVAL  
FL 14645.3-R2  
ROOFING  
METAL ROOFING**

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

**Report No. C2010-3  
Date: 3.27.15**



Manufacturer: Metal Sales Manufacturing Corporation

Product Name: 5V-Crimp

Panel Description: 24" wide coverage with (5) 1/2" 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. 19/32" 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 edges

New Underlayment: Minimum underlayment as per FBC 2014 Section 1507.4.5.1. Required for new construction and optional for reroofing construction.

Existing Underlayment: One layer of asphalt shingles over one layer of #30 felt. For reroofing (Optional) construction only.

Slope: 1/2:12 or greater in accordance with FBC 2014 Section 1507.4.2

Design Uplift Pressure: 41.6 psf @ fastener spacing of 36" o.c. (Factor of Safety = 2) 74.8 psf @ fastener spacing of 16" o.c. 196.75 psf @ fastener spacing of 8" o.c.

Fastener Pattern:  
Type: #9-16 or #10-14 hex head wood screws with sealed washer. Fastener shall be of sufficient length to penetrate through the deck a minimum of 3/8".  
At panel ends @ 6" o.c. across panel width  
At intermediate @ 12" o.c. across panel width

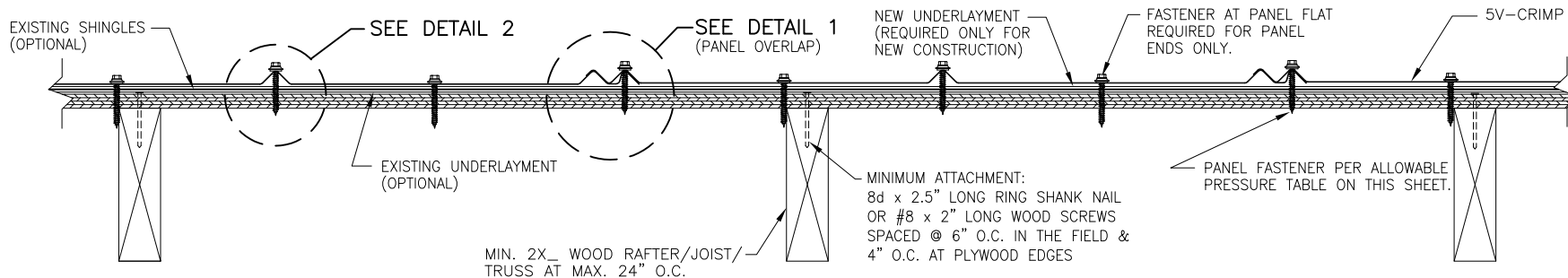
Test Standards: Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems'.

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

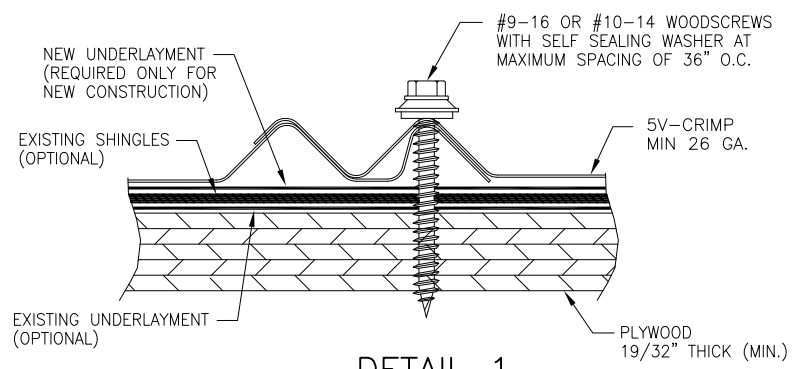
Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2014 Section 1609 or ASCE 7-10 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire 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.

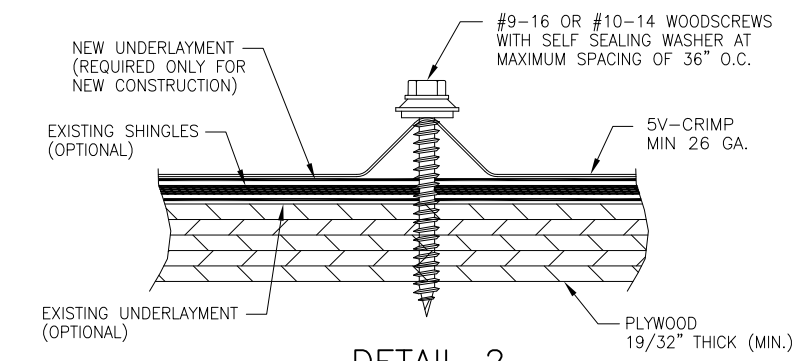
Supporting Documents: TAS 125 Test Reports  
Farabaugh Engineering and Testing Inc  
Project No. T181-05, Reporting Date 7/21/05 (Tests #1 & 2)  
Project No. T240-09, Reporting Date 9/22/09  
Architectural Testing, Inc. – West Palm Beach, FL  
(Formerly Hurricane Test Laboratory, LLC)  
Project No. 0103-0712-09, Reporting Date 9/1/09



**TYPICAL PANEL INSTALLATION X-SECTION**



**DETAIL 1**



**DETAIL 2**

**ALLOWABLE UPLIFT PRESSURE**

FASTENER SPACING (IN)	PRESSURE (PSF)
36	41.6
16	74.8
8	196.75

**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 = 0.0169"). EFFECTIVE COVERING WIDTH OF PANEL = 24".
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
DATE	
BY	
REVISION DESCRIPTION	
NO.	
<b>5V-CRIMP PANEL</b>	
MANUFACTURER <b>METAL SALES MANUFACTURING CORP.</b> 545 SOUTH 3RD ST., SUITE 200 LOUISVILLE, KY 40202 502-855-4300	
CONSULTANTS <b>BALA SOCKALINGAM, PH.D., P.E.</b> 1216 N LANSING AVE., SUITE C TULSA, OK 74106 PHONE: 918-492-5992 FAX: 866-366-1543	
DRAWING NO. <b>2010-3</b>	REV.
SHEET NO. <b>1</b>	OF <b>1</b>