## EVALUATION REPORT OF METAL SALES MANUFACTURING CORPORATION '26 GA. VERTICAL SEAM PANEL'

## FLORIDA BUILDING CODE 8TH EDITION (2023) FLORIDA PRODUCT APPROVAL FL 11560.9-R5 ROOFING METAL ROOFING

Prepared For: Metal Sales Manufacturing Corporation 7800 Highway 60 Sellersburg, IN 47172 Telephone: (502) 855-4300 Fax: (502) 855-4200

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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. C2672-9 Date: 8.3.2023

This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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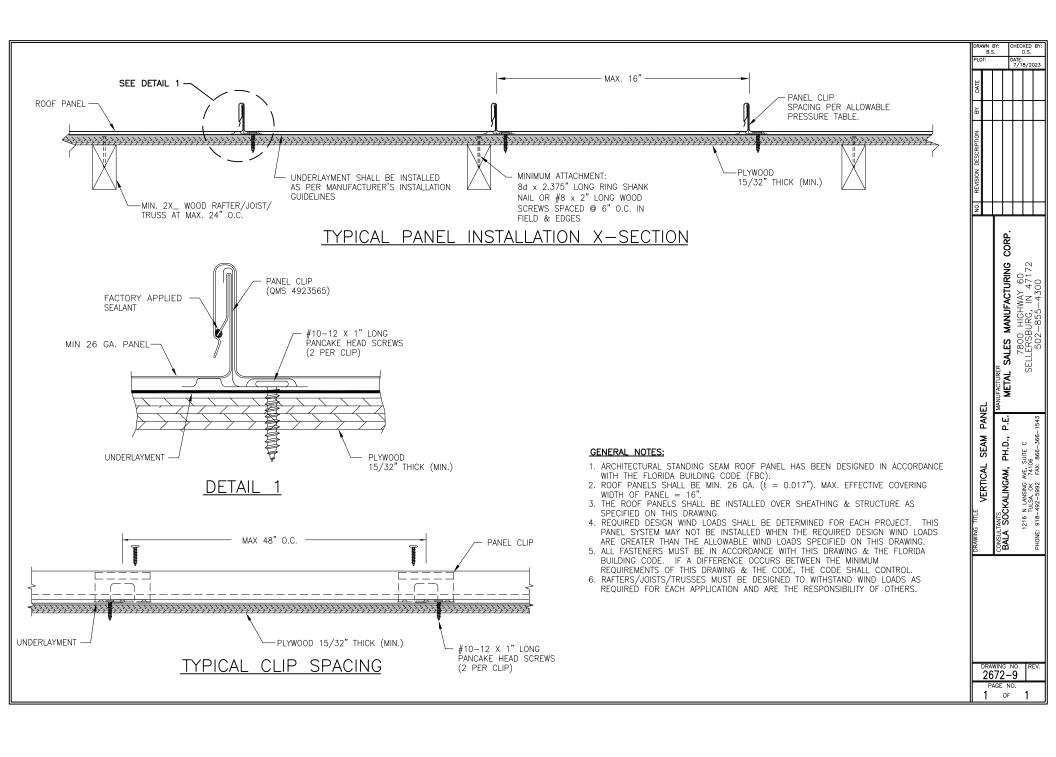


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Manufacturer:	Metal Sales Manufacturing Corporation	
Product Name:	Vertical Seam	
Panel Description:	Standing seam panel with max. 16" wide coverage and 1.75" high ribs	
Materials:	Min. 26 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2023 Section 1507.4.3.	
Deck Description:	Min. 15/32" thick plywood or min. $\frac{3}{4}$ " thick wood plank (min SG of 0.42) for new and existing constructions. Designed and installed as per FBC 2023.	
Deck Attachment: (Minimum)	8d x 2.5" long ring shank nails or #8 x 2" long wood screws at 6" o.c. in the field and edges. Designed as per FBC 2023.	
Underlayment:	Minimum underlayment as per FBC 2023 Section 1507.4.5.1.	
Slope:	1/4:12 or greater in accordance with FBC 2023 Section 1507.4.2.	
Design Uplift Pressure: (Factor of Safety = 2)	30.0 psf at clip spacing of 48" o.c. 81.3 psf at clip spacing of 6" o.c.	
Fastener Pattern: At panel seam	Panel clip (QMS 4923565) with (2) #10-12 x 1" long pancake head screws per clip. Fastener shall be of sufficient length to penetrate through the deck a minimum of 1/4". Clips and fasteners are corrosion resistant as per FBC 2023 Section 1506.7 and 1507.4.4, respectively.	
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 1897-15.	
Code Compliance:	The product described herein has demonstrated compliance with FBC 2023 Section 1507.4.	
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or ASCE 7-22 using allowable stress design. The maximum clip spacing listed herein shall not be exceeded. The design pressure for reduced clip spacing may be computed using	

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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. Refer to current NOA for use of this product in High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2023 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 Report Farabaugh Engineering and Testing Inc. Project No. T204-10, Reporting Date 4/23/2010



METAL SALES MANUFACTURING CORPORATION
Vertical Seam Uplift Loads
(Min. 26 ga.)

Description	Fastener Spacing	Allowable Uplift
	along Panel Length	Load
	(in)	(psf)
Coverage width: 16"	6	81.3
	8	78.9
Clip:	10	76.4
QMS 4923565	12	74.0
	14	71.5
Clip Fastener:	16	69.1
(2) #10-12 x 1" long pancake	18	66.6
head screws	20	64.2
	22	61.8
	24	59.3
	26	55.4
	28	51.4
	30	48.0
	32	45.0
	34	42.4
	36	40.0
	38	37.9
	40	36.0
	42	34.3
	44	32.7
	46	31.3
	48	30.0

## 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 11560.9 and Metal Sales current installation procedure.
- 3. Three or more spans condition.
- 4. Optional wood purlins must be spaced same as panel clip spacing along the panel length.