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

FLORIDA BUILDING CODE 5TH EDITION (2014) FLORIDA PRODUCT APPROVAL FL 11560.11-R2 ROOFING METAL ROOFING

Prepared For:
Metal Sales Manufacturing Corporation
545 South 3rd 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. C2009-11 Date: 3.27.15



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Manufacturer: Metal Sales Manufacturing Corporation

Product Name: Vertical Seam

Panel Description: Max. 18" 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 at max span of 24" for new and existing

constructions. Designed and installed as per FBC 2014.

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

New Underlayment: Minimum underlayment as per FBC 2014 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: 1/4:12 or greater in accordance with FBC 2014 Section 1507.4.2

Design Uplift Pressure:

(Factor of Safety = 2)

30.0 psf @ clip spacing of 48" o.c. 82.5 psf @ clip spacing of 12" o.c.

105.0 psf @ clip spacing of 12" o.c. with 1/2" bead adhesive field

applied in panel sidelap

Fastening Pattern:

At panel seam

Panel clip (UL90 Clip) with (2) #10-12 x 1" long pancake head screws per clip for new and recovered deck. Panel clip (UL90 Clip) with (2) #10-13 x 2" long pancake head screws per clip for existing deck with asphalt shingles. Fastener shall be of sufficient length to penetrate through the deck a minimum of 1/4" and installed as per Metal Sales

current installation procedure.

Sidelap Adhesive: Schnee-Morehead SM7108 Permathane adhesive

Test Standards: Roof assembly tested in accordance with 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

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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 clip 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: UL580 & 1897 Test Reports

PRI Construction Materials Technologies MSMC-015-02-01, Reporting Date 9/20/13 MSMC-022-02-01, Reporting Date 1/23/14

