EVALUATION REPORT OF METAL SALES MANUFACTURING CORPORATION 'NOM 0.032" THICK ALUMINUM VERTICAL SEAM PANEL'

FLORIDA BUILDING CODE 8TH EDITION (2023) FLORIDA PRODUCT APPROVAL FL 14645.4-R5 ROOFING METAL ROOFING

Prepared For:
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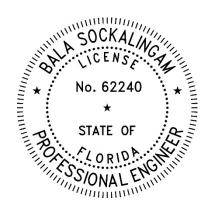
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This report consists of Evaluation Report (3 Pages including cover) Installation Details (1 Page)

> Report No. C2673-4 Date: 8.3.2023

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

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Manufacturer: Metal Sales Manufacturing Corporation

Product Name: Aluminum Vertical Seam

Panel Description: Standing seam panel with max. 16" wide coverage and 1.75" high ribs

Materials: Min. nominal 0.032" thick 3004-H14 or 3105-H24 Alloy (ASTM

B209) as per FBC 2023 Section 1507.4.3. Pre-painted panels are

required for use with adhesive.

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 2023.

Deck Attachment:

New Underlayment:

8d x 2.5" long ring shank nails or #8 x 2" long wood screws at 6" o.c. in the plywood field and edges. Designed as per FBC 2023.

(Minimum)

Minimum underlayment as per FBC 2023 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 2023 Section 1507.4.2.

Allowable Uplift Load:

(Factor of Safety = 2)

41.6 psf at clip spacing of 36" o.c. 71.0 psf at clip spacing of 12" o.c.

97.1 psf at clip spacing of 12" o.c. with 3/8" bead adhesive in panel

sidelap

Fastener Pattern:

At panel seam Panel clip (QMS 4923565) with (2) #10-12 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.

Adhesive: Geocel 4600TM Structural Adhesive Sealant. Applied in accordance

with manufacturer's suggested installation.

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.

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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 rational analysis prepared by a Florida Professional Engineer. This evaluation report is not applicable 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 Reports

Farabaugh Engineering and Testing Inc.

Project No. T210-11, Reporting Date 5/31/2011 Project No. T236-11, Reporting Date 7/6/2011

