EVALUATION REPORT OF METAL SALES MANUFACTURING CORPORATION 'NOM 0.032" THICK ALUMINUM IMAGE II PANEL'

FLORIDA BUILDING CODE 6TH EDITION (2017) FLORIDA PRODUCT APPROVAL FL 11560.3-R3 ROOFING METAL ROOFING

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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. C2181-3 Date: 9.8.2017



Manufacturer: Metal Sales Manufacturing Corporation

Product Name: Aluminum Image II

Panel Description: Max. 16" wide coverage with 1" high ribs

Materials: Nom. 0.032" thick 3004-H14 or 3105-H24 Alloy (ASTM B209).

Deck Description: Min. 19/32" thick Plywood or min. 3/4" thick wood plank (min SG of

0.42) for new and existing constructions. Designed and installed as

per FBC 2017.

Deck Attachment: Minimum attachment: 8d x 2.5" long ring shank nails or #8 x 2" long

wood screws @ 6" o.c. in the field and edges.

Deck fastener spacing @ 3" o.c. in the field and edges for roof zones

installed with support strap. Designed as per FBC 2017.

Underlayment: Minimum underlayment as per FBC 2017 Section 1507.4.5.1.

Slope: 1/2:12 or greater in accordance with FBC 2017 Section 1507.4.2.

Requires applied lap sealant for roof slopes less than 3:12.

Design Uplift Pressure: 22.5 psf @ fastener spacing of 24" o.c. (Factor of Safety = 2) 104.7 psf @ fastener spacing of 6" o.c.

195.0 psf @ fastener spacing of 6" o.c. with support strap

Fastener Pattern: #10-12 pancake head screws along panel seam. Fastener shall be of

sufficient length to penetrate through the deck a minimum of 1/4".

Support Strap: 4.25" wide, 24 ga., 50 ksi strap fastened to deck with 2 rows of #10-12

x 1" long pancake head screws at staggered 12" o.c. spacing. The strap is continuous over the entire corner or edge roof zones. Prior to the panel installation, two rows of 3/8" bead of adhesive are field

applied along the length of the strap.

Adhesive: Schnee-Morehead SM7108 Permathane adhesive

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' or TAS 125-03 'Standard Requirements for Metal

Roofing 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 1897-12.

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

2017 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance

with FBC 2017 Section 1609 or ASCE 7-10 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. The design pressure for reduced fastener spacing may be computed using 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. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2017 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory

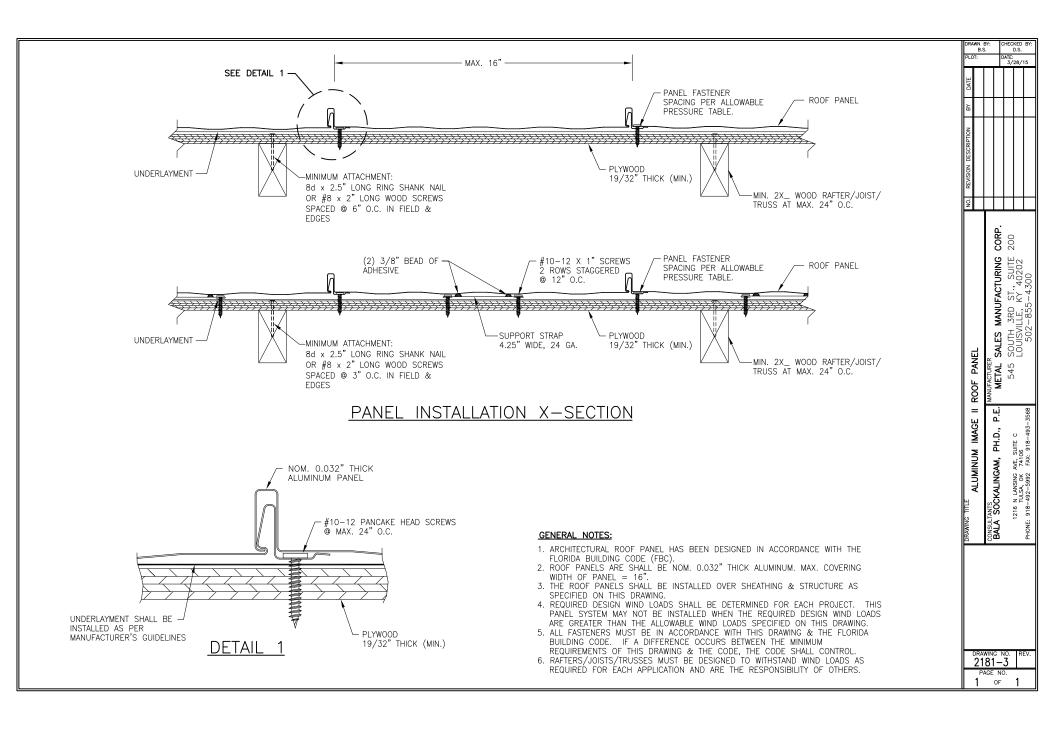
for fire ratings of this product.

Supporting Documents: TAS 125 Test Report

Farabaugh Engineering and Testing Inc. Project No. T158-14, Reporting Date 3/29/14

UL580 & UL1897 Test Reports

Farabaugh Engineering and Testing Inc. Project No. T209-11, Reporting Date 5/27/11



METAL SALES MANUFACTURING CORPORATION

Aluminum Image II Uplift Loads

(Nom. 0.032" thick)

Description	Fastener Spacing	Allowable Uplift
	along Panel Length	Load
	(in)	(psf)
Coverage width: 16"	6	104.7
	8	78.5
Panel Fastener:	10	62.8
#10-12 pancake head screws	12	52.4
	14	44.9
	16	39.3
	18	34.9
	20	31.4
	22	26.8
	24	22.5
With Support Strap	6	195

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 11560.3 and Metal Sales current installation procedure.
- 3. Three or more spans condition.

