EVALUATION REPORT OF UNION CORRUGATING COMPANY 'NOM 0.032'' THICK ALUMINUM PERMALOK PANEL'

FLORIDA BUILDING CODE 7TH EDITION (2020) FLORIDA PRODUCT APPROVAL FL 29467.3-R1 ROOFING METAL ROOFING

Prepared For: Union Corrugating Company 701 S. King St. Fayetteville, NC 28301 Telephone: (910) 483-0479 Fax: (910) 483-1091

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. C2402-3 Date: 10.9.2020 Manufacturer: Union Corrugating Company Product Name: PermaLok Panel Description: Standing seam panel with max. 16" wide coverage, 1" high ribs and snap lock seam. Materials: Nom. 0.032" thick (min.) 3105-H14 Alloy (ASTM B209) as per FBC 2020 Section 1507.4.3. Deck Description: Min. 15/32" thick APA rated plywood or min. $\frac{3}{4}$ " thick wood plank (min SG of 0.42) for new and existing constructions. Designed by others and installed as per FBC 2020. Underlayment: Minimum underlayment as per FBC 2020 Section 1507.4.5.1. Slope: 1/4:12 or greater in accordance with FBC 2020 Section 1507.4.2. Requires applied lap sealant for roof slopes less than 2:12. 37.5 psf at seam fastener spacing of 5-3/16" o.c. along seam Design Uplift Pressure: (Factor of Safety = 2) 78.5 psf at seam fastener spacing of 5-3/16" o.c. along seam along seam with 3/16" diameter continuous bead adhesive in panel seam. #10-13 x 1" long pancake head wood screws along panel seam. Panel Attachment Fastener shall be of sufficient length to penetrate through the deck a minimum of 1/4". Fasteners can be located in fastener slots or through solid portion of fastening flange. Fasteners are corrosion resistant as per FBC 2020 Section 1506.7. Seam Adhesive Sika Sikaflex 201. In lieu of Sikaflex 201, adhesive with greater or equal tensile properties may be used. Test Standards: Roof assembly tested in accordance with UL580-06 'Uplift Resistance of Roof Assemblies' & UL1897-15 'Uplift Tests for Roof Covering Systems'. Test Equivalency: The test procedure in UL 1897-15 comply with test procedures prescribed in UL 1897-12. Code Compliance: The product described herein has demonstrated compliance with FBC 2020 Section 1507.4. Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. Maximum fastener spacing listed herein shall not be exceeded.

The design pressure for reduced fastener spacing may be computed

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using rational analysis prepared by a Florida Professional Engineer. This product is not approved for use in the High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2020 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
	Intertek B&C
	Project No. J8331.02-450-44 R0, Reporting Date 10/15/19

