EVALUATION REPORT OF UNION CORRUGATING COMPANY 'NOM 0.032" THICK ALUMINUM ADVANTAGE-LOK II'

FLORIDA BUILDING CODE 5TH EDITION (2014) FLORIDA PRODUCT APPROVAL FL 18716.1 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. C2059-1 Date: 10.26.15

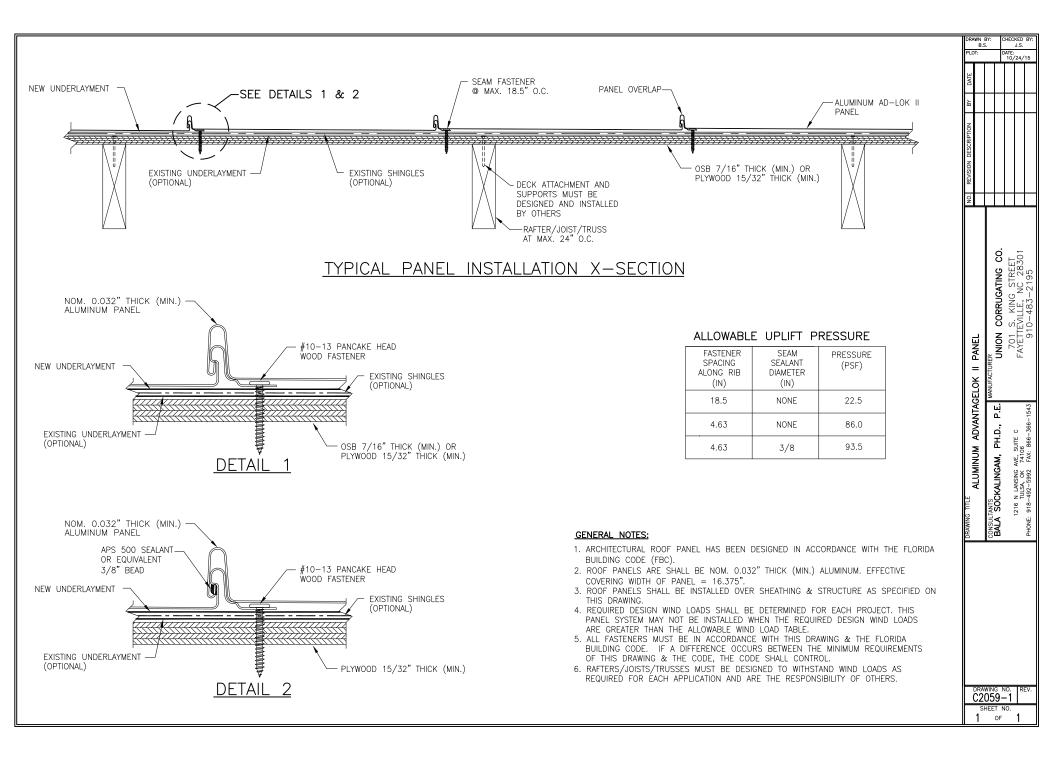


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Manufacturer:	Union Corrugating Company	
Product Name:	Aluminum Advantage-Lok II Panel	
Panel Description:	Max. 16.375" wide coverage with 1" high ribs	
Materials:	Nom. 0.032" thick (min.) 3004-H14 or 3105-H24 Alloy (ASTM B209).	
Deck Description:	Min. 7/16" thick OSB or 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 2014.	
New Underlayment:	Minimum underlayment as per FBC 2014 Section 1507.4.5.1. Required for new 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)	 22.5 psf at seam fastener spacing of 18.5" o.c. along seam 86.0 psf at seam fastener spacing of 4.63" o.c. along seam 93.5 psf at seam fastener spacing of 4.63" o.c. along seam with 3/8" diameter continuous bead sealant in panel seam in min. 15/32" thick APA rated plywood 	
Seam Fastener:	#10-13 pancake head wood screws along panel seam. 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.	
Seam Sealant:	Advanced Polymer Sealant APS 500. In lieu of APS 500, adhesive/sealant with greater or equal tensile properties may be used.	
Test Standards:	Roof assembly tested in accordance with UL580-06 'Uplift Resistance of Roof Assemblies' & UL1897-04 'Uplift Tests for Roof Covering Systems'.	
Code Compliance:	The product described herein has demonstrated compliance with FBC 2014 Section 1507.4	
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 fastener spacing listed herein shall not be exceeded. The design pressure for reduced fastener spacing may be	

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computed using rational analysis prepared by a Florida Professional Engineer or based on Union 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 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 & UL1897 Test ReportsFarabaugh Engineering and Testing IncProject No. T274-15, Reporting Date 9/30/15Project No. T284-15, Reporting Date 10/16/15



Description	Fastener Spacing	Uplift Design
	along panel length	Load
	(in)	(psf)
Coverage width: 16.375"	4.63	86.0
	6.94	60.0
	9.25	45.0
	11.56	36.0
	13.88	30.0
	16.19	25.7
	18.50	22.5

Union Corrugating Company Aluminum Advantage Lok II Panel Uplift Loads (Nom. 0.032" Thick)

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 18716.1 and Union current installation procedure.



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