`EVALUATION REPORT OF UNION CORRUGATING COMPANY 'NOM 0.032" THICK ALUMINUM SL150'

FLORIDA BUILDING CODE 5TH EDITION (2014) FLORIDA PRODUCT APPROVAL FL 18716.2 ROOFING METAL ROOFING

Prepared For: Union Corrugating Company P. O. Box 229 Fayetteville, NC 28302 Telephone: (910) 483-0479 Fax: (910) 483-8897

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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. C2059-2 Date: 10.26.15



Manufacturer: Union Corrugating Company

Product Name: SL150

Panel Description: Standing seam panel with max. 16" wide coverage and 1.5" 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. 3/4" thick wood plank (min SG of 0.42) for new and existing

constructions. Designed by others and installed as per FBC 2014.

Underlayment: Minimum underlayment as per FBC 2014 Section 1507.4.5.1.

Slope: 1/4:12 or greater in accordance with FBC 2014 Section 1507.4.2

Design Uplift Pressure: 45.0 psf at clip spacing of 24" o.c. (Factor of Safety = 2) 78.5 psf at clip spacing of 6" o.c.

86.0 psf at clip spacing of 6" o.c. with 3/8" diameter bead sealant in

panel seam in min. 15/32" thick APA rated plywood

Panel Attachment: SL150 standard clip (2.25" long, 20 ga.) with (2) #10-12 x 1" long

pancake head screws per clip. Fastener shall be of sufficient length to

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

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

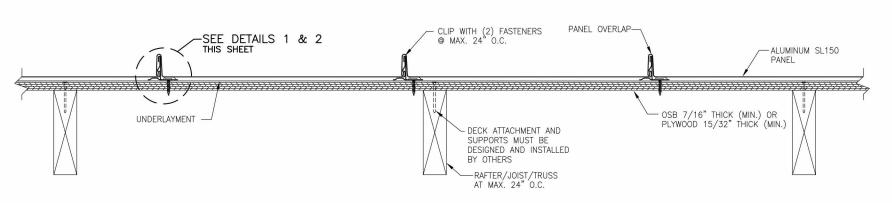
Product Limitations: Design wind loads shall be determined for each project in accordance

with FBC 2014 Section 1609 or ASCE 7-10 using allowable stress design. The maximum 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 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.

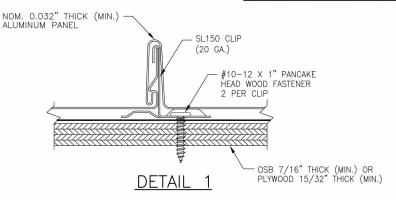
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Supporting Documents: UL580 & UL1897 Test Reports

Farabaugh Engineering and Testing Inc Project No. T277-15, Reporting Date 9/30/15 Project No. T285-15, Reporting Date 10/16/15

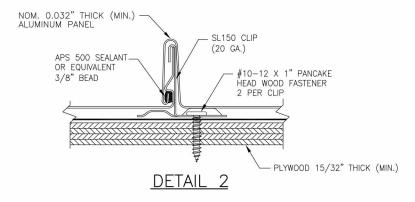


TYPICAL PANEL INSTALLATION X-SECTION



ALLOWABLE UPLIFT PRESSURE

FASTENER SPACING ALONG RIB	SEAM SEALANT DIAMETER	PRESSURE (PSF)
24"	NONE	45.0
6"	NONE	78.5
6"	3/8"	86.0
	SPACING ALONG RIB 24"	SPACING ALONG RIB SEALANT DIAMETER 24" NONE 6" NONE



GENERAL NOTES:

- 1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
- ROOF PANELS ARE SHALL BE NOM. 0.032" THICK (MIN.) ALUMINUM. EFFECTIVE COVERING WIDTH OF PANEL = 16".
- 3. ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & STRUCTURE AS SPECIFIED ON THIS DRAWING.
- 4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOAD TABLE.
- 5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
- RAFTERS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

ATE: 10/24/15 8 701 S. KING STREET FAYETTEVILLE, NC 28301 910-483-2195 CORRUGATING NOINO PANEL P.E. SL150 DALA SOCKALINGAM, PH.D., ALUMINUM C2059-2 OF

Union Corrugating Company Aluminum SL150 Panel Uplift Loads (Nom. 0.032" Thick)

Description	Fastener Spacing	Uplift Design
	along panel length	Load
±.	(in)	(psf)
Coverage width: 16"	6	78.5
	9	72.9
	12	67.3
	15	61.8
	18	56.2
	21	50.6
	24	45.0

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 18716.2 and Union current installation procedure.



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