EVALUATION REPORT OF UNION CORRUGATING COMPANY 'SL150 PANEL'

FLORIDA BUILDING CODE 7TH EDITION (2020) FLORIDA PRODUCT APPROVAL FL 39390.3 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. C2499-3 Date: 8.12.2021

FL 39390.3 C2499-3 8.12.2021 Page 2 of 3

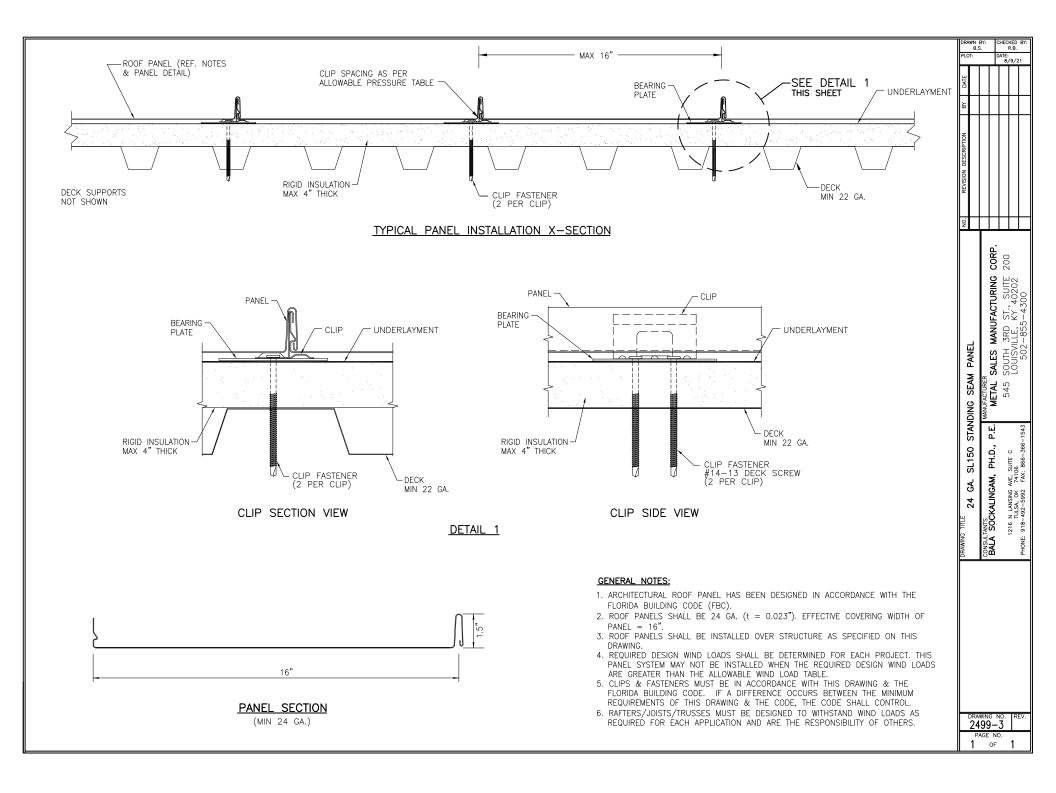
Manufacturer:	Union Corrugating Company	
Product Name:	SL150	
Panel Description:	Snap lock standing seam panel with max. 16" wide coverage and 1.5" high ribs	
Materials:	Minimum 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2020 Section 1507.4.3.	
Deck Description:	Min 22 ga. 33 ksi B-deck for new and existing construction with supports spaced at maximum 5' ft o.c. The deck and its attachment to supports must be designed by other to carry the panel loads.	
Underlayment:	Minimum underlayment as per FBC 2020 Section 1507.4.5.1. For HVHZ, minimum underlayment as per FBC 2020 Section 1518.2, 1518.3 and 1518.4.	
Insulation:	Maximum 4" thick rigid board insulation. (Optional) For HVHZ, min. 3/4" and max. 4" thick rigid board insulation	
Slope:	1/4:12 or greater in accordance with FBC 2020 Section 1507.4.2 For HVHZ, 2:12 or greater in accordance with FBC 2020 Section 1515.2.	
Design Uplift Pressure: (Factor of Safety = 2)	68.4 psf at clip spacing of 24" o.c.97.0 psf at clip spacing of 6" o.c.	
Panel Attachment:	One piece 20 ga., 2.25" long clip with (2) #14-13 pancake head deck fasteners through 4" x 5" x 16 ga. bearing plate, felt and rigid insulation into deck. Fastener shall be of sufficient length to ensure a minimum penetration of 3 pitches of thread below the steel deck. Clips, bearing plates and fasteners are corrosion resistant as per FBC 2020 Section 1506.7 and 1507.4.4, respectively.	
Test Standards:	Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems', TAS 100-95 'Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems' and TAS 110-00 'Testing Requirements for Physical Properties of Roof Membrane, Insulation, Coatings and Other Roofing Components'.	
Code Compliance:	The product described herein has demonstrated compliance with FBC 2020 Section 1504.3, 1507.4, 1518.9 and 1523.6.5.2.4.	

FL 39390.3 C2499-3 8.12.2021 Page 3 of 3

- Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609, Section 1620 or ASCE 7-16 using allowable stress design. 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 applicable in 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:TAS 125 Test ReportFarabaugh Engineering and Testing Inc.Project No. T216-21, Reporting Date 8/2/2021

TAS 100-95 Test Report Farabaugh Engineering & Testing, Inc. Report No. T217-21, Reporting Date 7/26/2021

TAS 110-00 Test Report on Valspar Fluropon coated metal panels PRI Asphalt Technologies Report No. VLS-004-02-01, Reporting Date 2/22/2013 Report No. VLS-005-02-01, Reporting Date 2/22/2013



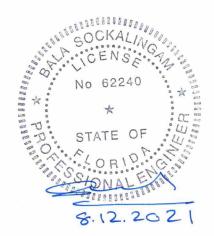
UNION CORRUGATING COMPANY SL150 Panel Uplift Loads Min 24 Ga.

Description	Clip Spacing	Allowable Uplift
	Along Panel Length	Load
	(in)	(psf)
Max Coverage width: 16"	6	97.0
Snap Lock Seam	8	93.8
	9	92.2
SL150 fixed clip	10	90.6
2.25" long, 1.5" tall, 20 ga.	12	87.4
	14	84.3
Clip Fasteners:	15	82.7
(2) #14-13 long pancake head	16	81.1
deck screws	18	77.9
	20	74.7
Deck:	21	73.2
22 ga. B-Deck	22	71.6
	24	68.4

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 39390.3 and Union current installation procedure.



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