EVALUATION REPORT OF UNION CORRUGATING COMPANY 'ML200 PANEL'

FLORIDA BUILDING CODE 7TH EDITION (2020) FLORIDA PRODUCT APPROVAL FL 32912.1 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. C2360-1 Date: 8.11.2020



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Manufacturer:	Page 2 of 3 Union Corrugating Company	
Product Name:	ML200	
Panel Description:	Standing seam panel with 16" wide coverage and 2" high ribs	
Materials:	Min 24 ga. with galvalume coated steel (ASTM A792) or painted steel (ASTM A755) ($F_y = 50$ ksi). Corrosion resistant as per FBC 2020 Section 1507.4.3.	
Deck Description:	Min. 15/32" thick APA rated plywood or min. ³ / ₄ " thick wood plank (min SG of 0.42) for new and existing constructions. For HVHZ, min. 19/32" thick plywood for new constructions and min. 15/32" thick plywood for existing constructions. Designed by others and installed as per FBC 2020.	
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.	
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)	52.8 psf at clip spacing of 24" o.c. 86.0 psf at clip spacing of 6" o.c.	
Panel Attachment:	4.3" long ML200 sliding clip with (2) #10-13 x 1.5" long pancake head wood screws per clip. Clips 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.	
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	

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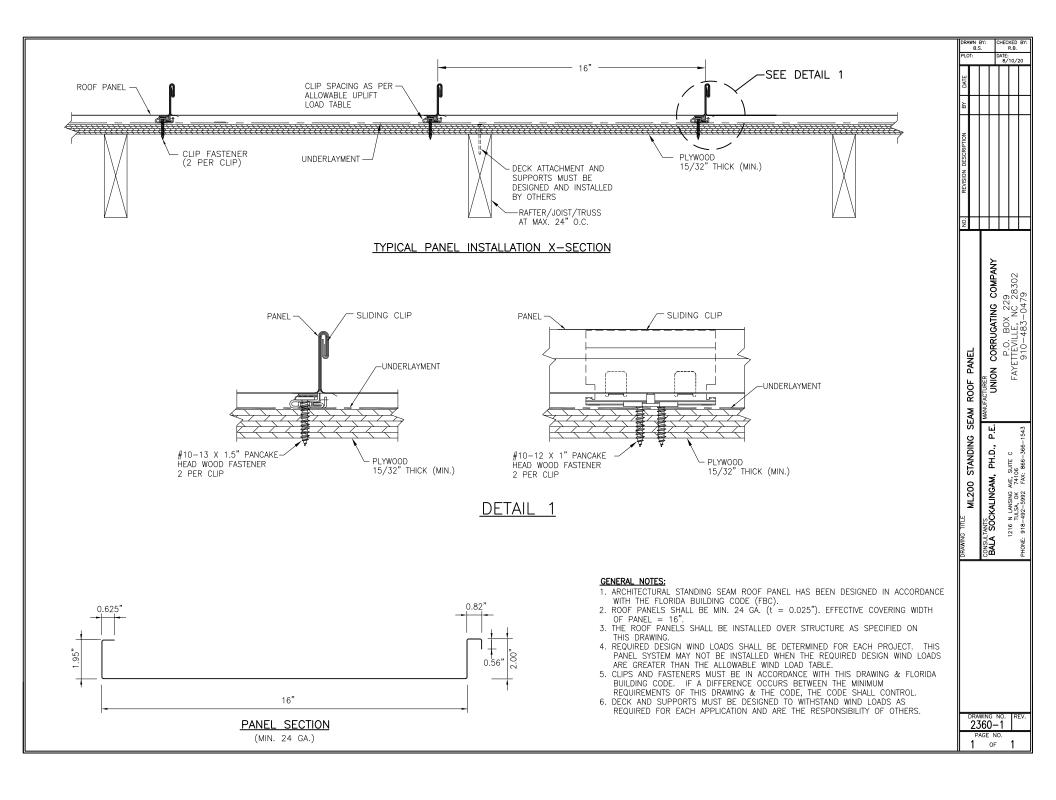
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Engineer or based on Union load span table. This evaluation report is applicable in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2020 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: TAS 125 Test Report Farabaugh Engineering and Testing Inc. Project No. T267-20, Reporting Date 7/6/2020

> TAS 100-95 Test Report Farabaugh Engineering & Testing, Inc. Report No. T282-20, Reporting Date 7/25/2020, Revised 8/7/2020

> 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



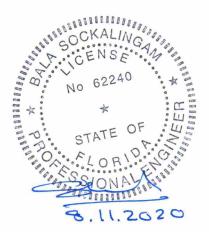
Description	Clip Spacing	Allowable Uplift
	Along Panel Length	Load
	(in)	(psf)
Max Coverage width: 16"	6	86.0
Seam: 180°	8	82.3
ML200 sliding clip	10	78.6
4.3" long, 22 ga. clip tab	12	74.9
2" long, 16 ga. clip base	14	71.2
Clip Fasteners:	16	67.6
(2) #10-13 x 1.5" long pancake	18	63.9
head screws	20	60.2
	22	56.5
Deck: Min. 15/32" thick Plywood	24	52.8

UNION CORRUGATING COMPANY Min 24 ga ML200 Panel Uplift Loads

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 32912.1 and Union current installation procedure.



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