

**EVALUATION REPORT OF  
UNION CORRUGATING COMPANY  
'ML200 PANEL'**

**FLORIDA BUILDING CODE 7TH EDITION (2020)  
FLORIDA PRODUCT APPROVAL  
FL 32912.2  
ROOFING  
METAL ROOFING**

**Prepared For:  
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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. C2360-2  
Date: 8.11.2020**



Manufacturer: 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 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.

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: 68.4 psf at clip spacing of 24" o.c.  
(Factor of Safety = 2) 84.0 psf at clip spacing of 6" o.c.

Panel Attachment: 4.3" long ML200 sliding clip with (2) #14-13 x 1.5" long pancake head DP1 Concealor fasteners 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.

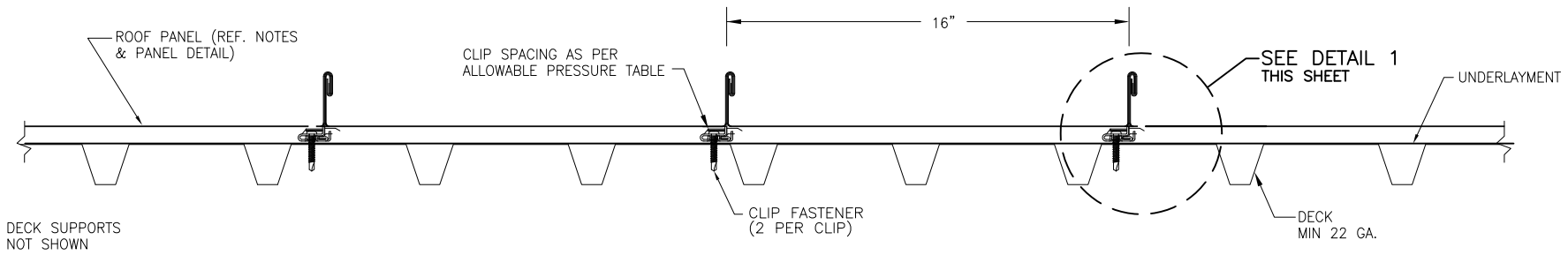
Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609, Section 1620 or ASCE 7-16 using allowable stress design. Maximum clip spacing listed herein shall not be exceeded. The design pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional 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.

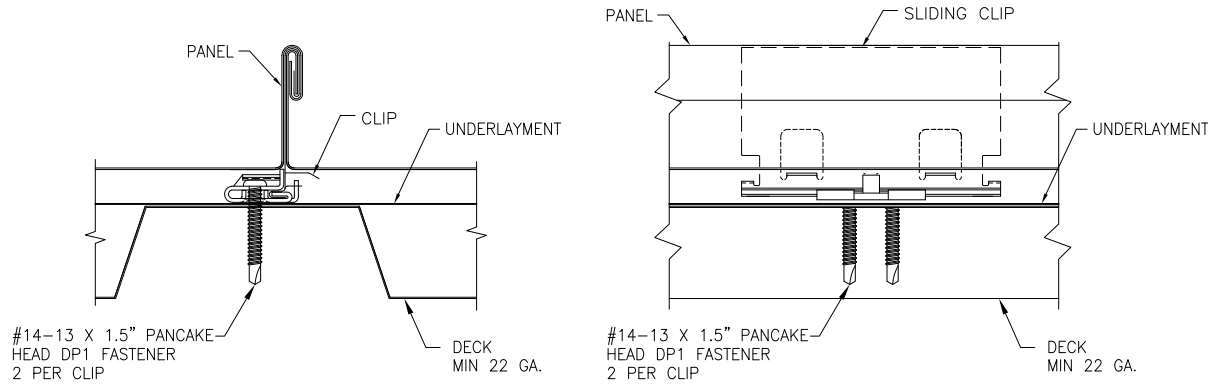
Supporting Documents: TAS 125 Test Report  
Farabaugh Engineering and Testing Inc.  
Project No. T268-20, Reporting Date 7/6/2020

TAS 100-95 Test Report  
Farabaugh Engineering & Testing, Inc.  
Report No. T284-20, Reporting Date 8/7/2020

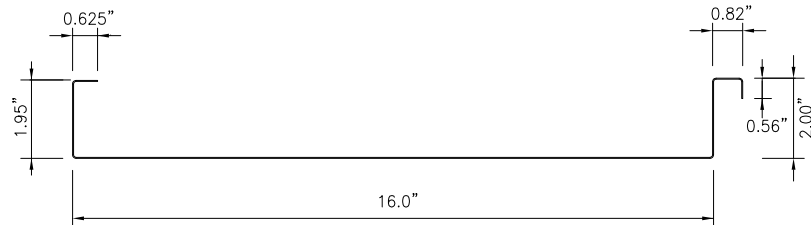
TAS 110-00 Test Report on Valspar Fluoropon coated metal panels  
PRI Asphalt Technologies  
Report No. VLS-004-02-01, Reporting Date 2/22/2013  
Report No. VLS-005-02-01, Reporting Date 2/22/2013



**TYPICAL PANEL INSTALLATION X-SECTION**



**DETAIL 1**



**PANEL SECTION**  
(MIN 24 GA.)

**GENERAL NOTES:**

1. ARCHITECTURAL STANDING SEAM ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 24 GA. (t = 0.025"). EFFECTIVE COVERING WIDTH OF PANEL = 16".
3. THE ROOF PANELS SHALL BE INSTALLED OVER 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 LOADS SPECIFIED ON THIS DRAWING.
5. CLIPS AND FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. DECK AND SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

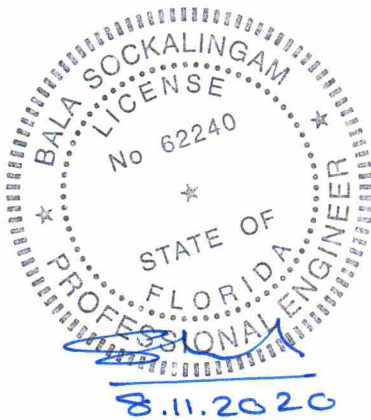
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PLOT:	DATE: 8/10/20
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REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>ML200 STANDING SEAM ROOF PANEL</b>	
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DRAWING NO. <b>2360-2</b>	REV.
PAGE NO. <b>1</b>	OF <b>1</b>

**UNION CORRUGATING COMPANY**  
**Min 24 ga ML200 Panel Uplift Loads**

Description	Clip Spacing Along Panel Length (in)	Allowable Uplift Load (psf)
Max Coverage width: 16" Seam: 180° ML200 sliding clip 4.3" long, 22 ga. clip tab 2" long, 16 ga. clip base Clip Fasteners: (2) #14-13 x 1.5" long pancake head screws  Deck: 22 ga. B-Deck	<b>6</b>	<b>84.0</b>
	8	82.2
	10	80.5
	12	78.8
	14	77.0
	16	75.3
	18	73.6
	20	71.9
	22	70.1
	<b>24</b>	<b>68.4</b>

**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 32912.2 and Union current installation procedure.



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