

**EVALUATION REPORT OF
METAL SALES MANUFACTURING CORPORATION
'24 GA. MAGNA-LOC PANEL'**

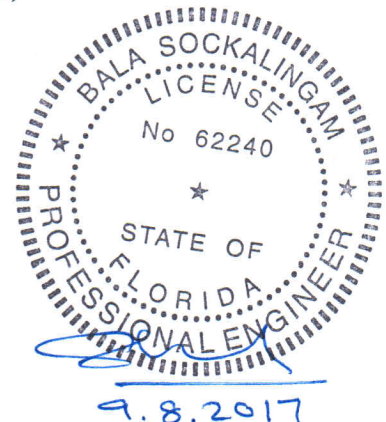
**FLORIDA BUILDING CODE 6TH EDITION (2017)
FLORIDA PRODUCT APPROVAL
FL 11560.6-R3
ROOFING
METAL ROOFING**

**Prepared For:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)**

**Report No. C2181-6
Date: 9.8.2017**



Manufacturer: Metal Sales Manufacturing Corporation

Product Name: Magna-Loc

Panel Description: Standing seam panel with 16" wide coverage and 2" high ribs

Materials: Min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755).

Deck Description: Min. 19/32" 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 2017.

Deck Attachment: (Minimum) Minimum attachment: 8d x 2.5" long ring shank nails or #8 x 2" long wood screws @ 6" o.c. in the field and edges.
Deck fastener spacing @ 3" o.c. in the field and edges in roof zones installed with MPW-1203-8 clip. Designed as per FBC 2017.

Underlayment: Minimum underlayment as per FBC 2017 Section 1507.4.5.1.

Substrate (optional): Min 1" x 4" No. 2 SYP wood purlins over min. 19/32" thick plywood deck fastened to supports at maximum 24" o.c. Wood purlins shall be fastened to wood rafters with (2) #9 x 3" long wood screws. The wood purlins will be spaced same as panel fastener spacing along panel length. The wood purlin, purlin to the rafter connection and rafters must be designed by others to the carry the load imposed on the panels and installed as per FBC 2017.

Slope: 1/4:12 or greater in accordance with FBC 2017 Section 1507.4.2

Design Uplift Pressure: 95.2 psf @ MC 1203 clip spacing of 30" o.c.
101.0 psf @ MC 1203 clip spacing of 15" o.c.
123.5 psf @ MC 1203 clip spacing of 8" o.c.
166.0 psf @ MPW-1203-8 clip spacing of 12" o.c.

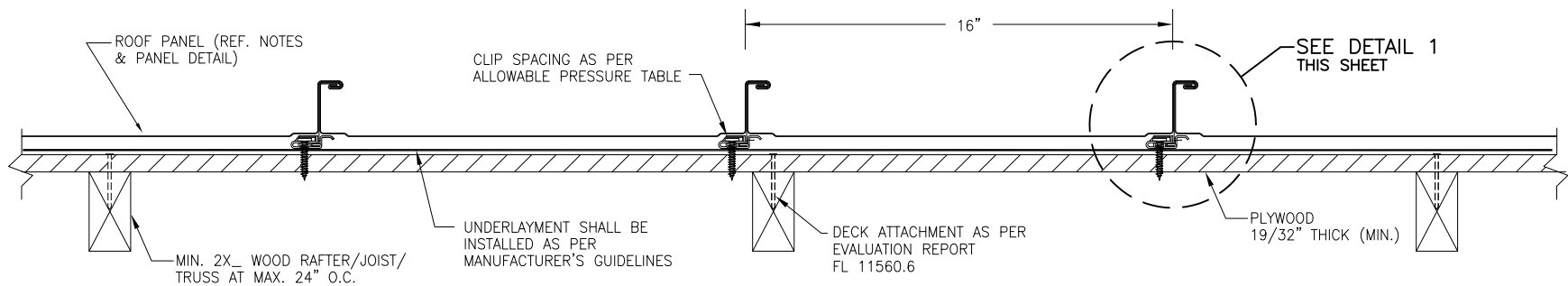
Panel Attachment: MC 1203 clip with (2) #12-11 x 1-1/2" long low profile wood screws per clip
MPW-1203-8 clip with (4) #12-11 x 1-1/2" long low profile wood screws per clip

Test Standards: Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems'.

Code Compliance: The product described herein has demonstrated compliance with FBC 2017 Section 1507.4

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2017 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. This evaluation report is not applicable in High Velocity Hurricane Zone. Refer to current NOA for use of this product in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2017 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

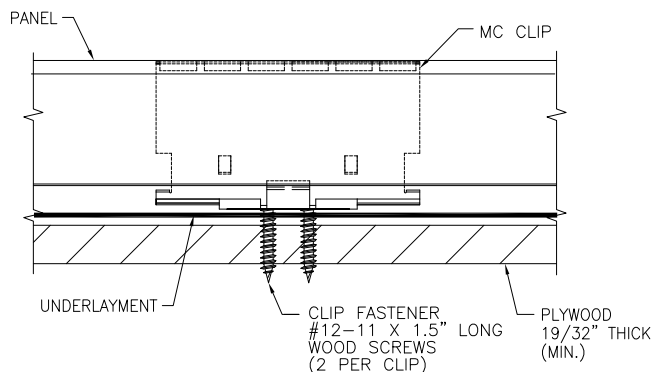
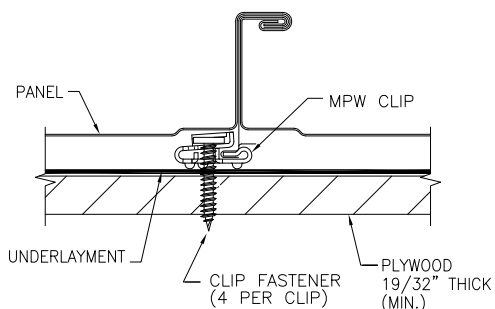
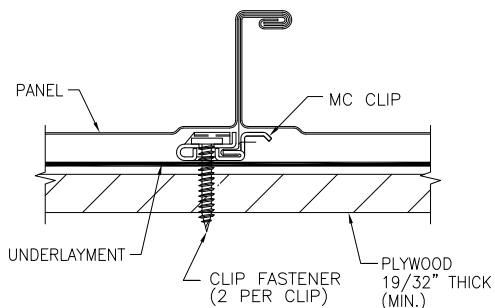
Supporting Documents: TAS 125 Test Reports
Farabaugh Engineering and Testing Inc.
Project No. T242-08, Reporting Date 8/25/08
Project No. T292-14, Reporting Date 9/19/14



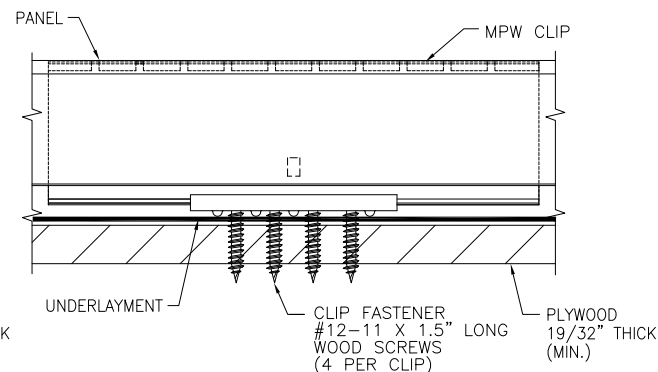
TYPICAL PANEL INSTALLATION X-SECTION

ALLOWABLE UPLIFT PRESSURE

CLIP TYPE	CLIP SPACING	PRESSURE (PSF)
MC 1203	30"	95.2
MC 1203	15"	101.0
MC 1203	8"	123.5
MPW-1203-8	12"	166.0

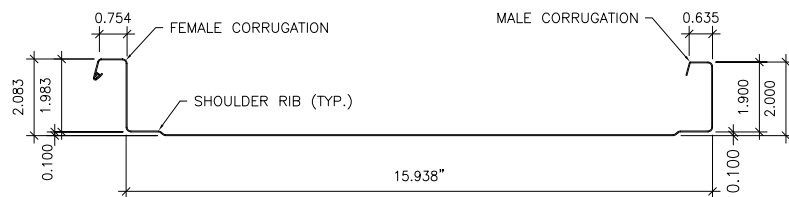


CLIP SIDE VIEW



CLIP SIDE VIEW

**CLIP SECTION VIEW
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 = 0.022"). 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. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: D.S.
PLOT:	DATE: 3/30/15
DATE	
BY	
REVISION DESCRIPTION	
NO.	
24 GA. MAGNA-LOC STANDING SEAM PANEL	
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DRAWING NO. 2181-6	REV.
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