

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

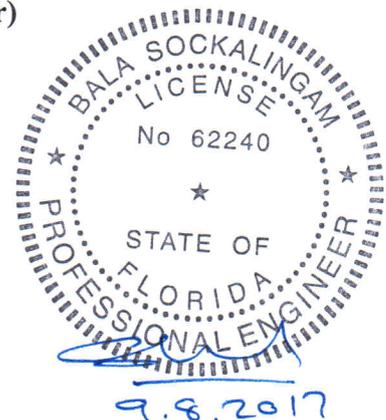
**FLORIDA BUILDING CODE 6TH EDITION (2017)  
FLORIDA PRODUCT APPROVAL  
FL 11560.7-R3  
ROOFING  
METAL ROOFING**

**Prepared For:  
Metal Sales Manufacturing Corporation  
545 South 3<sup>rd</sup> Street, Suite 200  
Louisville, KY 40202  
Telephone: (502) 855-4300  
Fax: (502) 855-4200**

**Prepared By:  
Bala Sockalingam, Ph.D., P.E.  
Florida Professional Engineer #62240  
1216 N Lansing Ave., Suite C  
Tulsa, OK 74106  
Telephone: (918) 492-5992  
FAX: (866) 366-1543**

**This report consists of  
Evaluation Report (2 Pages including cover)  
Installation Details (2 Pages)**

**Report No. C2181-7  
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. 22 ga., Grade 80 B-deck. The deck and its attachment to supports must be designed by other to carry the panel loads. Designed as per FBC 2017.

Insulation: 4" thick (max.) rigid board insulation

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

Design Uplift Pressure: 59.7 psf @ MC 1203 clip spacing of 36" o.c.  
168.5 psf @ MPW-1203-8 clip spacing of 12" o.c.

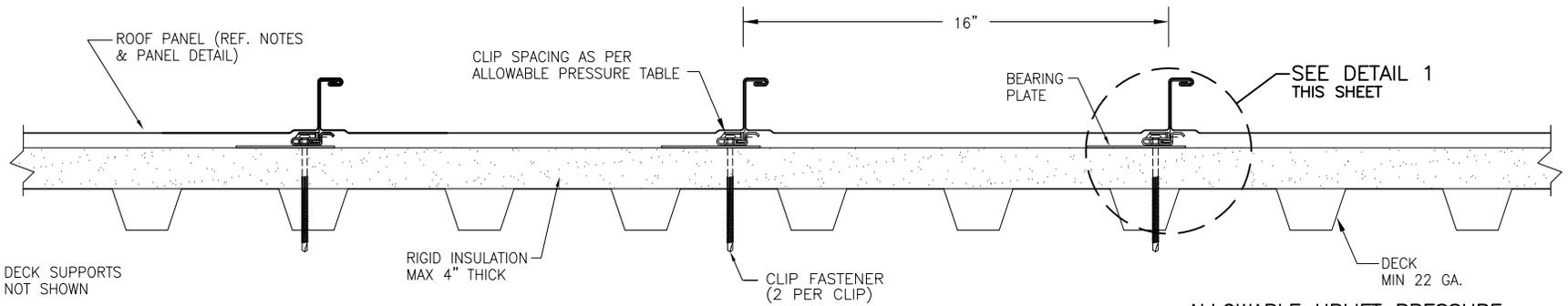
Panel Attachment: MC 1203 clip with (2) #14-13 deck screws per clip through 4" x 5" x 20 ga. bearing plate and rigid insulation into deck.  
MPW-1203-8 clip with (4) #14-13 deck screws per clip through 4" x 5" x 20 ga. bearing plate and rigid insulation into deck.  
Fastener shall be of sufficient length to penetrate through the deck a minimum of 1/2".

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 fastener spacing listed herein shall not be exceeded. This evaluation report is not applicable 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 Report  
Farabaugh Engineering and Testing Inc.  
Project No. T293-14, Reporting Date 9/5/14



DECK SUPPORTS NOT SHOWN

RIGID INSULATION MAX 4" THICK

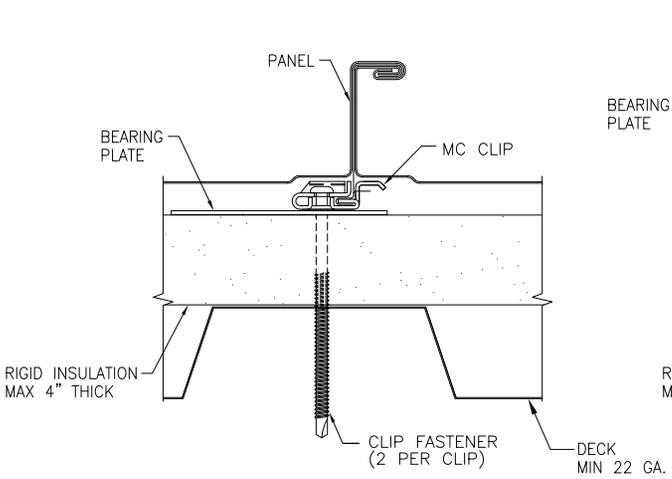
CLIP FASTENER (2 PER CLIP)

DECK MIN 22 GA.

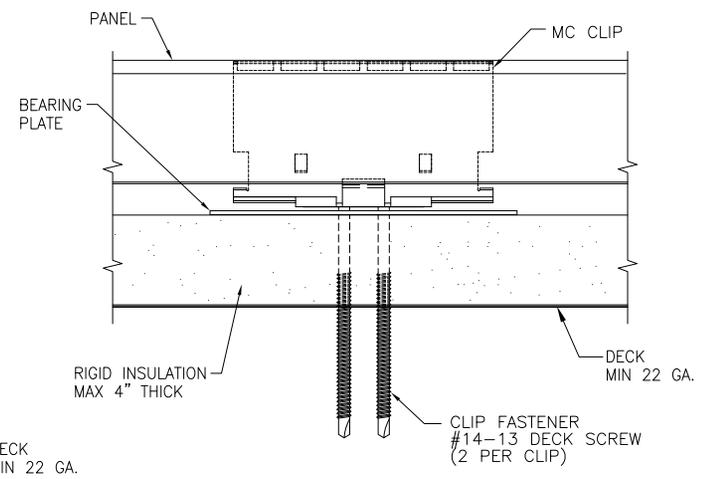
**TYPICAL PANEL INSTALLATION X-SECTION**

**ALLOWABLE UPLIFT PRESSURE**

CLIP TYPE	CLIP SPACING	PRESSURE (PSF)
MC 1203	36"	59.7

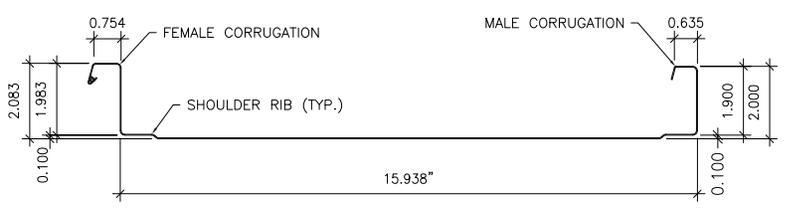


**CLIP SECTION VIEW**



**CLIP SIDE VIEW**

**DETAIL 1**

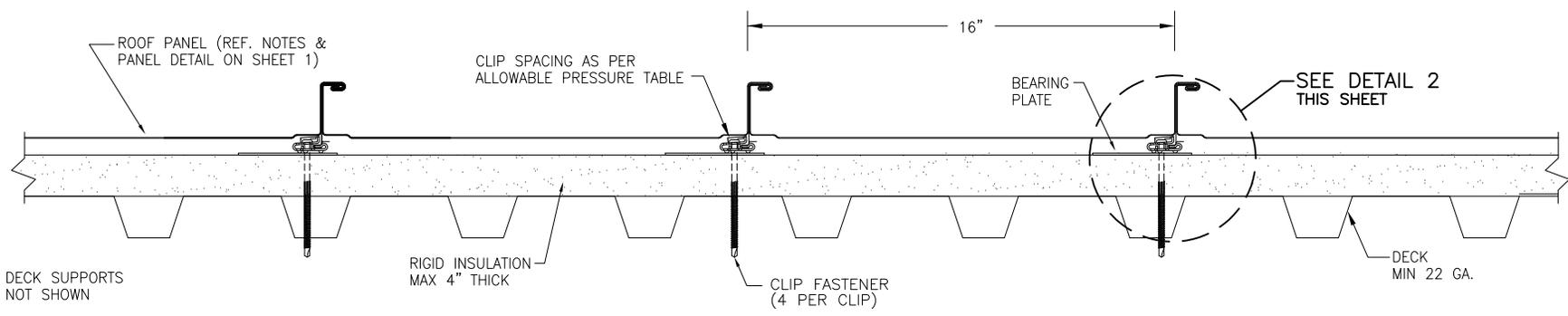


**PANEL SECTION**  
(MIN 24 GA.)

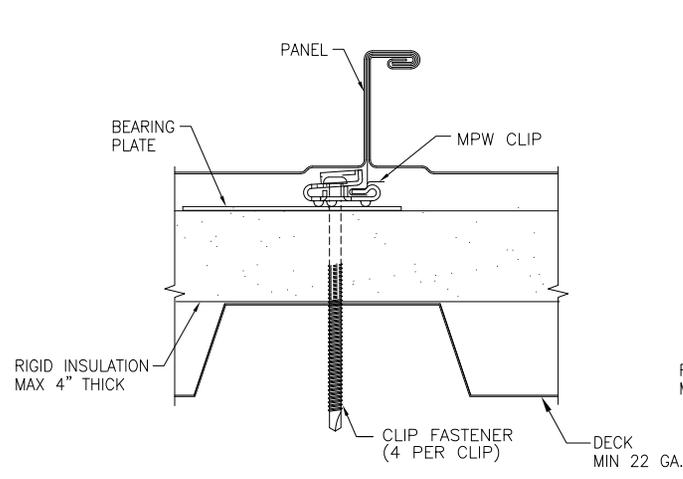
**GENERAL NOTES:**

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. DECK AND SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

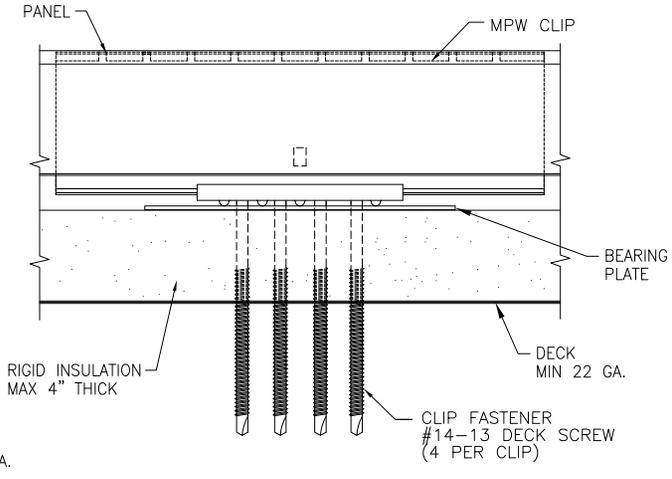
<b>DRAWN BY:</b> B.S.	<b>CHECKED BY:</b> D.S.
<b>PLOT:</b>	<b>DATE:</b> 3/30/15
<b>DATE:</b>	
<b>BY:</b>	
<b>REVISION DESCRIPTION:</b>	
<b>NO:</b>	
<b>DRAWING TITLE</b> 24 GA. MAGNA-LOC STANDING SEAM PANEL	
<b>CONSULTANTS</b> BALA SOCKALINGAM, PH.D., P.E. 1216 N. LANSING AVE., SUITE C LOUISVILLE, KY 40202 PHONE: 918-492-5992 FAX: 866-366-1543	
<b>MANUFACTURER</b> METAL SALES MANUFACTURING CORP. 545 SOUTH 3RD ST., SUITE 200 LOUISVILLE, KY 40202 502-855-4300	
<b>DRAWING NO.</b> 2181-7A	<b>REV.</b>
<b>PAGE NO.</b> 1	<b>OF</b> 2



**TYPICAL PANEL INSTALLATION X-SECTION**



**CLIP SECTION VIEW**



**CLIP SIDE VIEW**

**DETAIL 2**

**ALLOWABLE UPLIFT PRESSURE**

CLIP TYPE	CLIP SPACING	PRESSURE (PSF)
MPW-1203-8	12"	168.5

DRAWN BY: B.S.	CHECKED BY: D.S.
PLOT:	DATE: 3/30/15
NO.	REVISION DESCRIPTION
DATE	BY
<b>DRAWING TITLE</b> <b>24 GA. MAGNA-LOC STANDING SEAM PANEL</b>	
<small>CONSULTANTS</small> <b>BALA SOCKALINGAM, P.H.D., P.E.</b>	
<small>MANUFACTURER</small> <b>METAL SALES MANUFACTURING CORP.</b> 545 SOUTH 3RD ST., SUITE 200 LOUISVILLE, KY 40202 502-855-4300	
<small>PHONE: 918-492-5992 FAX: 866-366-1543</small>	
DRAWING NO. <b>2181-7B</b>	REV.
PAGE NO. <b>2</b>	OF <b>2</b>