EVALUATION REPORT OF METAL SALES MANUFACTURING CORPORATION 'MAGNA-LOC PANEL'

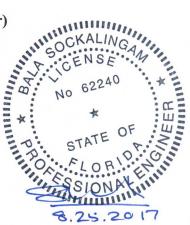
FLORIDA BUILDING CODE 6TH EDITION (2017) FLORIDA PRODUCT APPROVAL FL 10999.5-R3 STRUCTURAL COMPONENTS ROOF DECK

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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. C2180-5 Date: 8.25.2017



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)

Support Description: Min. 16 ga., 50 ksi steel section (Must be designed by others)

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

Design Uplift Pressure: 51.0 psf @ clip spacing of 60" o.c. with 24 ga. panel

146.7 psf @ clip spacing of 12" o.c. with min. 24 ga. panel 73.7 psf @ clip spacing of 60" o.c. with 22 ga. panel

Panel Attachment: MC 1203 clip with (2) 1/4"-14 x 1-1/2" long SDS per clip.

Test Standards: Roof assembly tested in accordance with ASTM E1592-05(2012)

'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM

4470 Section 5.5 'Resistance to Foot Traffic'.

Test Equivalency: The test procedure in FM 4470 (1992) comply with test procedure

prescribed in FM 4470 (2012).

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 support 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 Metal Sales load span table. 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.

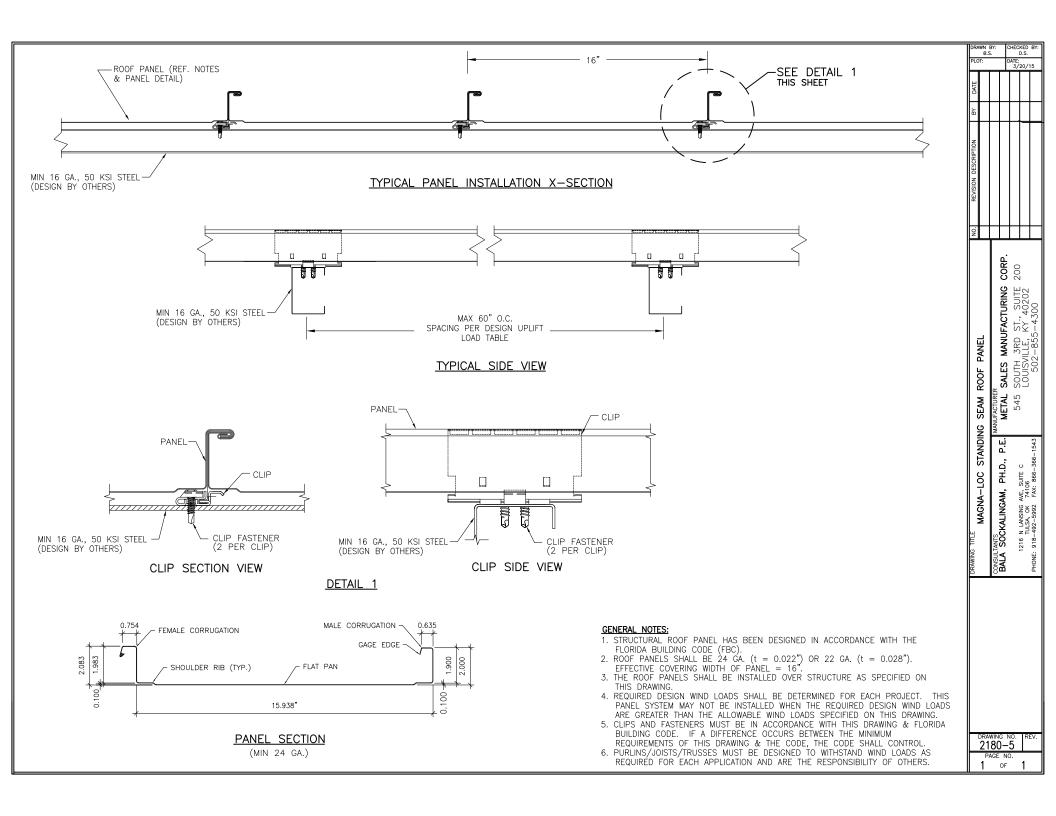
Supporting Documents: ASTM E1592 Test Reports

ENCON Technology Inc.

C1665-1 & 2, Reporting Date 11/6/09

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FM 4470 Test Report ENCON Technology Inc. C1587-4, Reporting Date 6/30/08



METAL SALES MANUFACTURING CORPORATION

Magna-Loc Panel with Standard Clip Design Uplift Loads

Clip spacing along length (in)	Design Uplift Loads (psf)	
	24 ga.	22 ga.
12	146.7	146.7
18	134.7	137.6
24	122.8	128.5
30	102.0	119.3
36	85.0	110.2
42	72.9	101.1
48	63.8	92.0
54	56.7	81.9
60	51.0	73.7

Notes:

- 1. The bold numbers are based on testing.
- 2. The design load for 22 ga. panel at 12" clip spacing was based on 24 ga. test data.
- 3. The panels are fastened to support with standard MC clips with (2) 1/4"-14 SDS.
- 4. Panels must be installed as per Evaluation Report FL 10999.5 and Metal Sales current installation procedure.
- 5. Three or more spans condition.



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