## **EVALUATION REPORT OF** CENTRAL STATES MANUFACTURING, INC. 'R-LOC PANEL'

## FLORIDA BUILDING CODE 8TH EDITION (2023) FLORIDA PRODUCT APPROVAL FL 14016.5-R5 STRUCTURAL COMPONENTS **ROOF DECK**

**Prepared For:** Central States Manufacturing, Inc. 302 Jane Place Lowell, AR 72745 Telephone: (800) 356-2733 Fax: (800) 356-2971

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

> Report No. C2717-5 Date: 9.2.2023

This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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Manufacturer:

Central States Manufacturing, Inc.

Product Name:

R-Loc Panel

Panel Description:

36" wide coverage with (4) 1-1/4" high ribs

Materials:

Min. 26 ga., 80 ksi steel or min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2023 Section 1507.4.3.

Support Description:

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

Slope:

1/2:12 or greater in accordance with FBC 2023 Section 1507.4.2.

Requires applied lap sealant for roof slopes less than 3:12.

Design Uplift Pressure: (Factor of Safety = 2)

44.2 psf at fastener spacing of 60 o.c. (3 or more spans) 112.7 psf at fastener spacing of 24 o.c. (3 or more spans)

Panel Attachment: At panel ends

All fasteners are corrosion resistant as per FBC 2023 Section 1507.4.4. #12-14 x 1-1/4" long SDS with integral washer at 7"-5"-7" o.c. across

panel width

At intermediate

#12-14 x 1-1/4" long SDS with integral washer at 12" o.c. across panel

width

Sidelap Attachment:

 $\frac{1}{4}$ "-14 x 7/8" long SDS with washer at 20" o.c.

Test Standards:

Roof assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4471 Section 5.4 'Resistance to Foot Traffic'.

Test Equivalency:

The test procedures in ASTM E1592-01 comply with test procedures prescribed in ASTM E1592-05(2017).

Code Compliance:

The product described herein has demonstrated compliance with FBC 2023 Section 1507.4.

**Product Limitations:** 

Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or ASCE 7-22 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. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2023 Section 1505 and current

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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

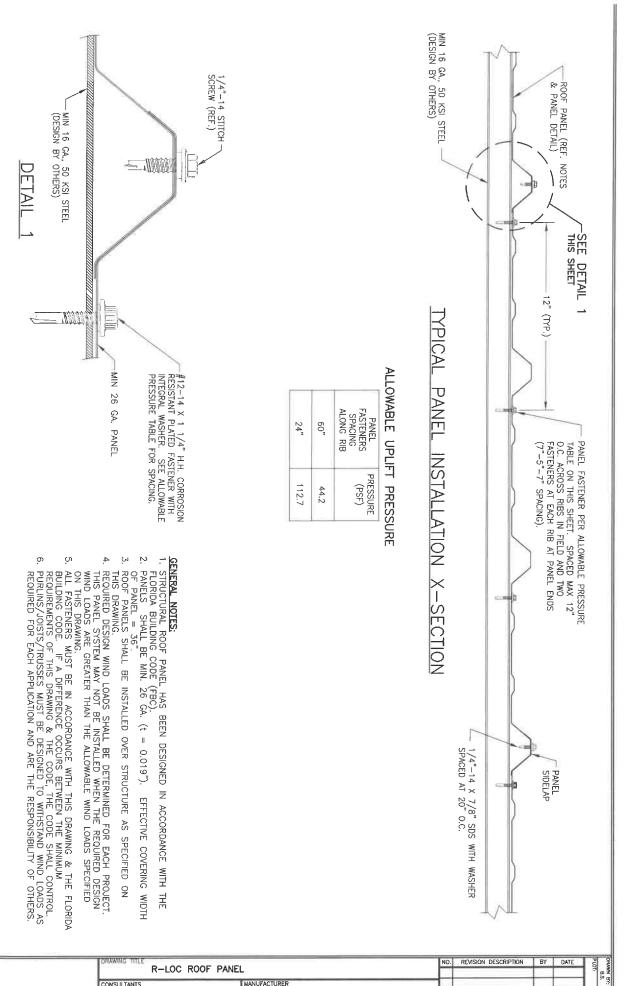
Force Engineering and Testing Inc.

Report No. 410-0237T-13 A & B, Reporting Date 12/21/2013

FM 4471 Test Report

Force Engineering & Testing, Inc.

Report No. 410-0277T-10, Reporting Date 08/23/2010



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