

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

**FLORIDA BUILDING CODE 7TH EDITION (2020)
FLORIDA PRODUCT APPROVAL
FL 14024.1-R4
PANEL WALLS
SIDING**

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

**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 (1 Page)**

**Report No. C2398-6
Date: 9.30.2020**



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) as per FBC 2020 Section 1405.2.

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

Design Uplift Pressure: 44.2 psf at fastener spacing of 60 o.c. (3 or more spans)
(Factor of Safety = 2) 112.7 psf at fastener spacing of 24 o.c. (3 or more spans)

Panel Attachment: All fasteners are corrosion resistant.
At all supports: #12-14 x 1-1/4" long SDS with washer at 12" o.c. across panel width
Sidelap Attachment: 1/4"-14 x 7/8" long SDS with washer at 20" o.c.

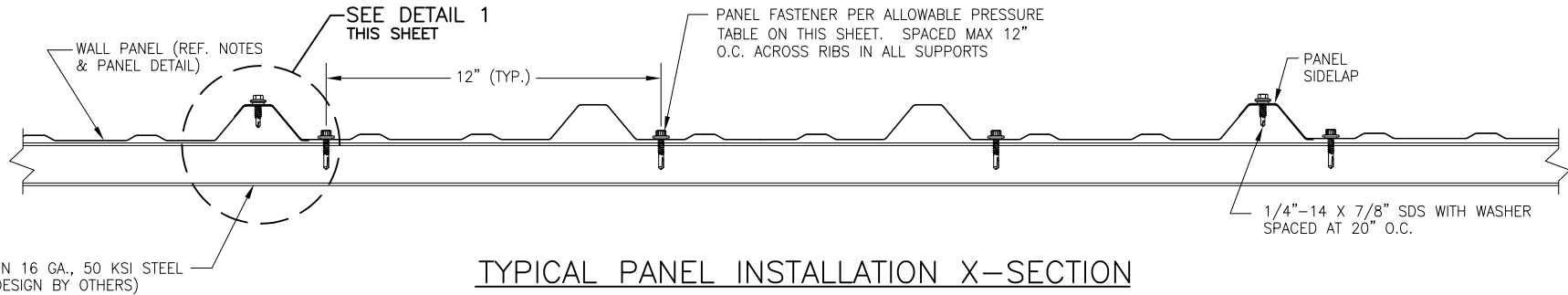
Test Standards: Wall assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'.

Test Equivalency: The test procedures in ASTM E1592-01 comply with test procedures prescribed in ASTM E1592-05(2012).

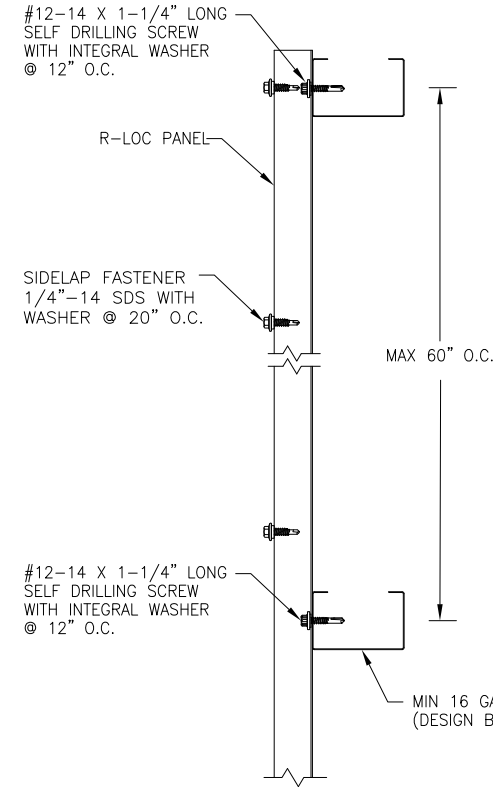
Code Compliance: The product described herein has demonstrated compliance with FBC 2020 Section 1404.5.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer. This evaluation report is not applicable in High Velocity Hurricane Zone.

Supporting Documents: ASTM E1592 Test Reports
Force Engineering and Testing Inc.
Report No. 410-0237T-13A, B, Reporting Date 12/21/2013



TYPICAL PANEL INSTALLATION X-SECTION



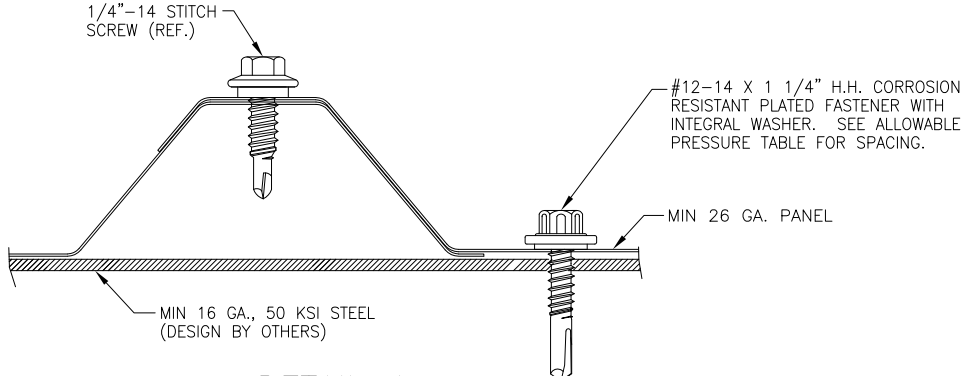
SECTION VIEW

ALLOWABLE OUTWARD PRESSURE

PANEL FASTENERS SPACING ALONG RIB	PRESSURE (PSF)
60"	44.2
24"	112.7

GENERAL NOTES:

1. STRUCTURAL WALL PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. PANELS SHALL BE MIN. 26 GA. (t = 0.019"). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. WALL 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. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.



DETAIL 1

DRAWN BY: B.S.	CHECKED BY: A.H.
DATE: 8/21/15	
NO.	REVISION DESCRIPTION
DRAWING TITLE R-LOC WALL PANEL	
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E.	
MANUFACTURER CENTRAL STATES MANUFACTURING, INC.	
1216 N LANSING AVE, SUITE C TULSA, OK 74106	
PHONE: 918-492-9992 FAX: 866-366-1543	
DRAWING NO. 2398-6	REV.
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