



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST REPORT

Report for: Central States Manufacturing, Inc.
302 Jane Place
Lowell, AR 72745

Product Name: Central Span™ Quad Lock	Manufacturer: Central States Manufacturing, Inc.
Project No.: FAE-015-02-02	Source: Central States Manufacturing, Inc.
Date Received: February 12, 2014 February 20, 2014 July 11, 2014	Dates Tested: July 1, 2014 – Aug. 1, 2014

Purpose: Determine the air leakage and water penetration of *Central States Manufacturing, Inc.'s Central Span™ panel* in accordance with **ASTM E 1680: Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems** and **ASTM E 1646: Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference**, respectively.

Test Methods: Testing for rate of air leakage was completed as described in ASTM E 1680-11: Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems followed by testing for water penetration in accordance with ASTM E 1646-95 (2011): Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference.

The test specimen was 10' x 10' with a 5' span in the center and constructed to include 8 assembled side lap seams.

Sampling: Central Span™ panels, clips and fasteners were supplied by Central States Manufacturing, Inc. from Lowell, AR. All other materials were provided by PRI-CMT and purchased through local distribution.

Test Specimens: Specimen No. 1
Metal Panel: Central Span™; flat pan, 2" vertical mechanically seamed Structural roof panel; F_y = min. 50 ksi; 16 in. installed coverage; 180° mechanical seam.

Fasteners: VSRLCLIP, 2-Piece Floating Clip (16ga. steel base; 22ga. steel tab) installed with two (2) ¼" - #10-13 x 1 ½" wood screw at each intermediate support along the panel seam.

FAE-015-02-02 PRI Accreditations: IAS TL-189; State of Florida TST5878; Metro-Dade 11-0429.05; LADBS TA24819; CRRC
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Results:

Table 1. Summary of Test Results for Central Span™ Quad Lock

Specimens	Test Method	Test Pressure (psf)	Result	Requirement
Central Span™ Quad Lock; 5 ft. span; 10' x 10' specimen				
Preload	ASTM E 1680	+15.0	NA	Report
Air Infiltration	ASTM E 1680	+1.57	0.01cfm/ft ²	Report
Air Infiltration	ASTM E 1680	+6.24	0.02cfm/ft ²	Report
Water Penetration Resistance 5.0 US gal/ft ² /h ponded water depth 1/2"	ASTM E 1646	+6.24	No Leakage	Report

Notes: None

Statement of Compliance:

Testing was conducted in accordance **ASTM E 1680: Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems** and **ASTM E 1646: Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference.**

Signed:  Steven Mueller
Technician

Signed:  Jason Simmons
Director

Date: August 28, 2014

Date: August 28, 2014

Signed:  Zachary R. Priest, P.E.
Florida Registered Professional Engineer
P.E. Number 74021

Date:  8/28/2014

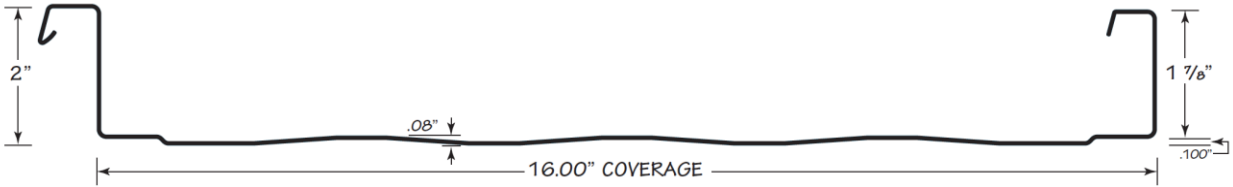


Report Issue History:

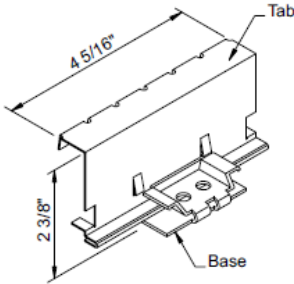
Issue #	Date	Pages	Revision Description (if applicable)
Original	08/28/2014	4	NA
Revision 1	8/29/2014	2	Added PE Signature

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Panel Profile



**FLOATING CLIP
 FOR 3/8" STAND-OFF**



PART #	LENGTH	WIDTH
VSRLCLIP 22ga. Galvanized Steel Tab, 16ga. Galvanized Steel Base	4 5/16"	2 3/8"

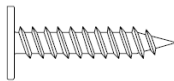
CLIP FASTENER #10

FOR PANEL CLIP & EAVE PLATE
 ATTACHMENT TO WOOD DECKING

VSRWFAST

1 1/2"

250



END OF REPORT

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