



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-015-02-03 | Source: Central States Manufacturing, Inc. |
| Date Received: February 12, 2014 February 20, 2014 | Dates Tested: July 1, 2014 – Aug. 1, 2014 |

Purpose: Determine the resistance to water penetration of *Central States Manufacturing, Inc.'s Central Span™ panel* in accordance with **ASTM E 2140: Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.**

Test Methods: Testing was completed as described in ASTM E 2140-01 (2009): Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.

The test specimen was 5' x 10' with a 5' span in the center and constructed to include 3 full panel widths.

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) with factory applied sealant installed with two (2) ¼" - #10-13 x 1 ½" wood screw at each intermediate support along the panel seam.

FAE-015-02-03 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

| Property | Test Method | Water Pressure Head (in) | Result | Requirement |
|--|-------------|--------------------------|--------|-------------------------|
| Resistance to Water Penetration [Pass/Fail] Central Span™ Quad Lock; 5 ft. span; 5' x 8' specimen | ASTM E 2140 | 6.0 | Pass | No observed water leaks |

Notes: None

Statement of Compliance:


Testing was conducted in accordance with **ASTM E 2140: Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.**

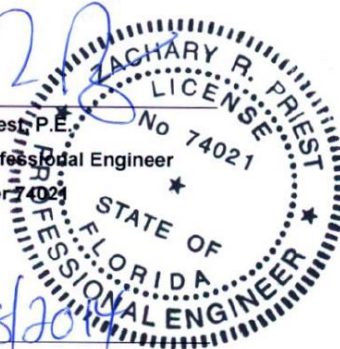
Signed: 
 Steven Mueller
 Technician


Signed: 
 Jason Simmons
 Director

Date: August 28, 2014

Date: August 28, 2014

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



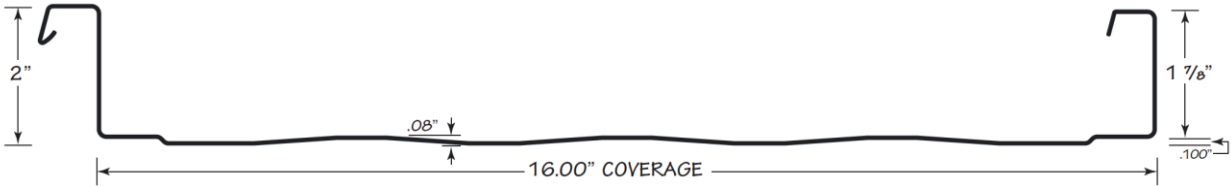
Date: 

Report Issue History:

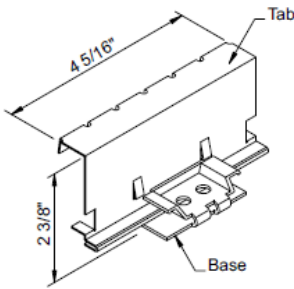
| Issue # | Date | Pages | Revision Description (if applicable) |
|----------|------------|-------|--------------------------------------|
| Original | 08/28/2014 | 2 | NA |

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Panel Profile



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



PART #

LENGTH

WIDTH

VSRLCLIP

4 5/16"

2 3/8"

22ga. Galvanized Steel Tab,
 16ga. Galvanized Steel Base

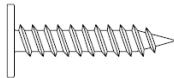
CLIP FASTENER #10

FOR PANEL CLIP & EAVE PLATE
 ATTACHMENT TO WOOD DECKING

VSRWFAST

1 1/2"

250



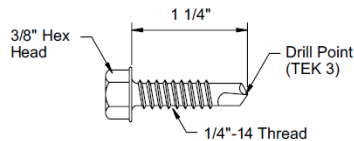
CLIP FASTENER #14

FOR PANEL CLIP & EAVE PLATE
 ATTACHMENT TO STEEL PURLINS

114CLIPFAST

1 1/4"

250



END OF REPORT

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