



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST REPORT

Report for: Sheffield Metals International
5467 Evergreen Parkway
Sheffield Village, OH 44054

Attention: Adam Mazzella

Product Names:	SMI 1.75" SnapLock Standing Seam	Manufacturer:	Sheffield Metals International
Project No.:	SHMI-003-02-03	Source:	Sheffield Metals International
Date Received:	Nov. 14, 2017	Date Tested:	Jan. 19, 2018

Purpose: Determine air leakage in accordance with **ASTM E 1680: Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems.**

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.

The test specimen was 56" long (three 18" spans) and 56" wide installed over spaced supports.

Sampling: SMI 1.75" SL panels, clips and fasteners were supplied by Sheffield Metals International. All other materials were provided by PRI Construction Materials Technologies LLC and purchased through local distribution.

Panel Description: SMI 1.75" SL: Min. 0.029" 3105 H24 aluminum alloy ($F_y = 23.3$ ksi) preformed, snap-together, 1.75" standing seam panels; 16" wide installed coverage; Profile drawing is contained in Appendix A.

Clips: 1-5/8" high x 2-1/8" wide x 3.5" long, 18 ga. galvanized steel, single-piece clip; Clips secured to supports with two (2) #14-13 PH, DP1 screws per clip. Clip drawing is contained in Appendix A.

SHMI-003-02-03.1 PRI-CMT Accreditations: AAMA; CRRC; IAS; LA-DBS; Miami-Dade; State of Florida; UL
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Results:

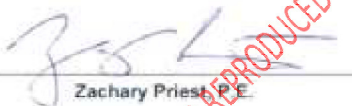
Table 1. Summary of Test Results

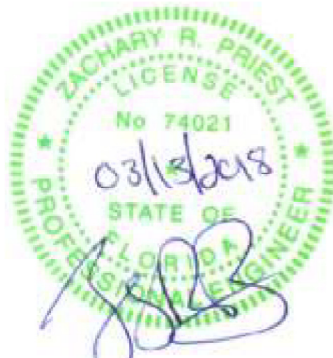
Specimens	Test Method	Test Pressure (psf)	Result	Requirement
SMI" 1.75 SL; 18" span; 56" x 56" specimen				
Preload	ASTM E 1680	±15.0	Pass	Report
Air Exfiltration (cfm/ft ²)	ASTM E 1680	-1.57	0.211	Report
Air Infiltration (cfm/ft ²)	ASTM E 1680	+1.57	0.265	Report

Statement of Attestation:

Testing was conducted in accordance **ASTM E 1680: Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems.**

Signed:


 Zachary Priest, P.E.
 Director



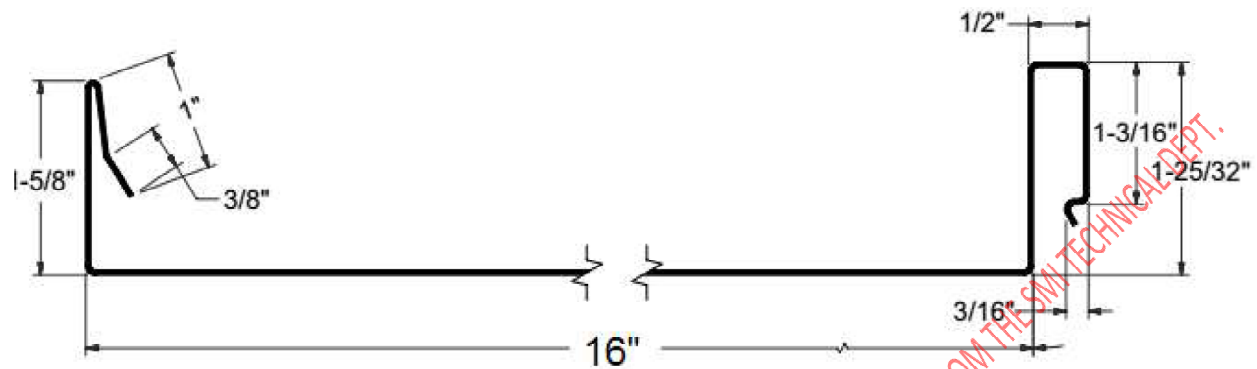
Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	02/13/2018	3	NA
Rev 1	03/06/2018	3	Updated panel and clip description

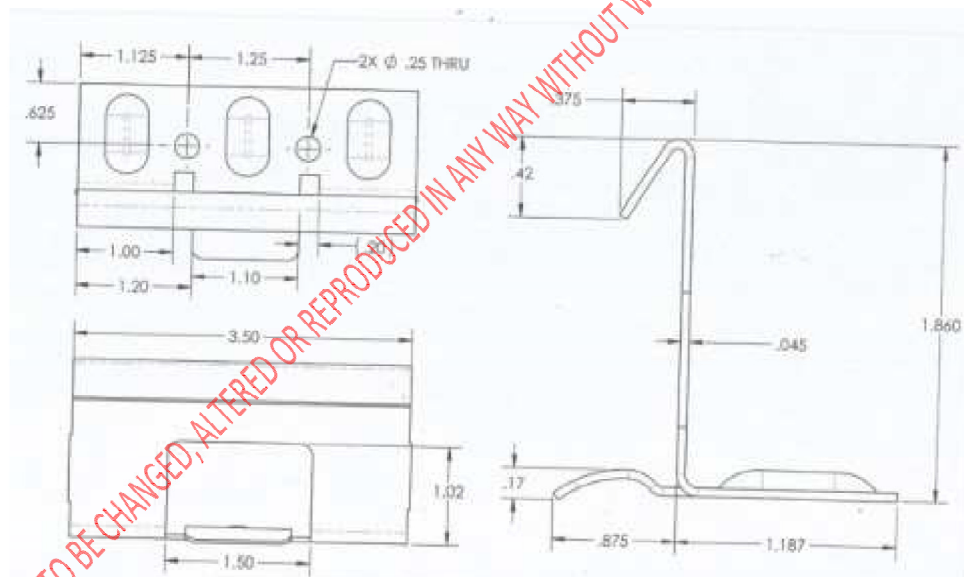
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SMI 1.75" SnapLock Standing Seam Panel Profile



SMI 1.75" SnapLock Clip (20 ga. galvanized steel)

END OF REPORT

SHMI-003-02-03.1

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