



# CONSTRUCTION MATERIALS

## TECHNOLOGIES

### LABORATORY TEST REPORT

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

**Attention:** Adam Mazzella

<b>Product Names:</b> SMI 1.75" SnapLock Standing Seam	<b>Manufacturer:</b> Sheffield Metals International
<b>Project No.:</b> SHMI-003-02-03	<b>Source:</b> Sheffield Metals International
<b>Date Received:</b> Nov. 14, 2017	<b>Date Tested:</b> 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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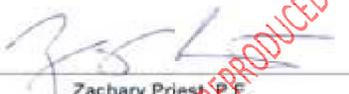
**Results:**

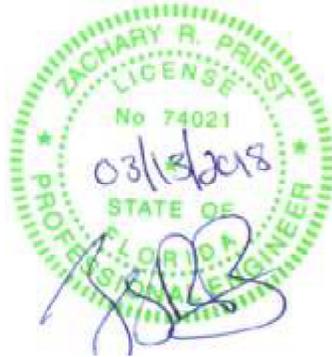
Table 1. Summary of Test Results

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 <sup>2</sup> )	ASTM E 1680	-1.57	0.211	Report
Air Infiltration (cfm/ft <sup>2</sup> )	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



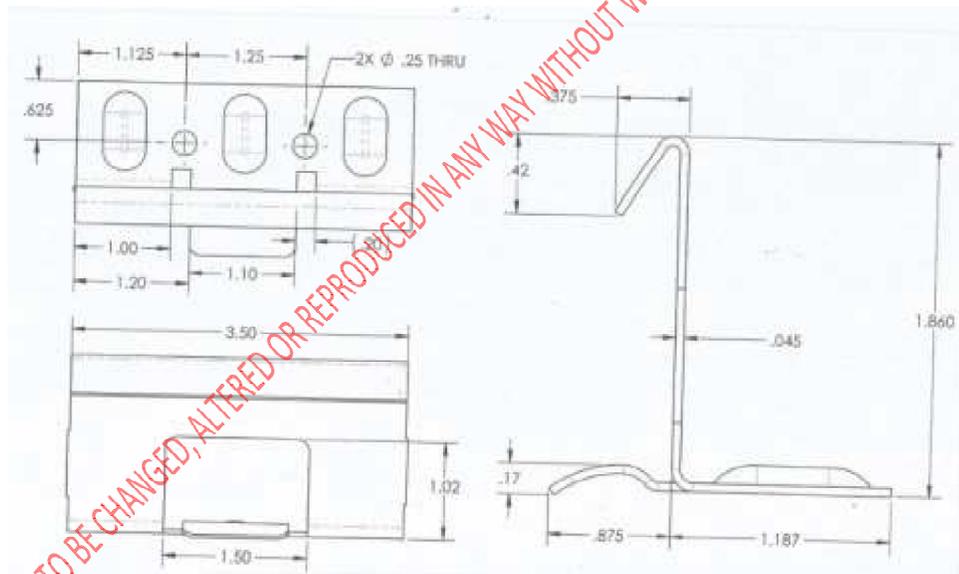
**Report Issue History:**

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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