

# SHEFFIELD METALS FEETHER TEST REPORT

# **SCOPE OF WORK**

ASTM E2140 TESTING OF 0.032" ALUMINUM 1.5" MECHANICAL SEAM ROOF PANELS

# **REPORT NUMBER**

J8065.02-450-18 R0

# **TEST DATE(S)**

10/23/19

# **ISSUE DATE**

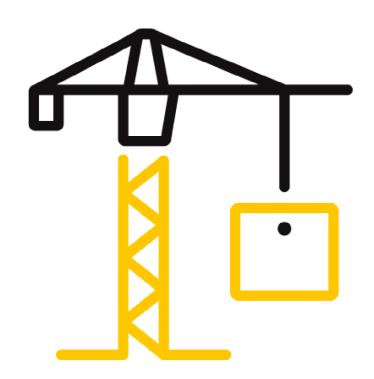
10/11/21

# **PAGES**

8

# DOCUMENT CONTROL NUMBER

ATT 00479 (07/24/17) RT-R-AMER-Test-2805 © 2017 INTERTEK





> Telephone: 561-881-0020 www.intertek.com/building

#### **TEST REPORT FOR SHEFFIELD METALS**

Report No.: J8065.02-450-18 R0

Date: 10/11/21

#### **REPORT ISSUED TO**

#### SHEFFIELD METALS

5467 Evergreen Parkway Sheffield Village, OH 44054

#### **SECTION 1**

#### SCOPE

Architectural Testing, Inc. (an Intertek company), dba Intertek Building & Construction (B&C) was contracted by Sheffield Metals to perform testing in accordance with ASTM E2140-01 (2017), Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head, on their 0.032" Aluminum 1.5" Mechanical Seam Roof Panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in West Palm Beach, RD

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of

Conformity.

For INTERTEK B&C:

**COMPLETED BY:** 

TITLE:

**SIGNATURE: DATE:** 

MMN:sar

Melissa Nuttall Technician Team Leader-

Product

10/11/21

**REVIEWED BY:** 

TITLE:

**SIGNATURE:** 

**DATE:** 

Vinu J. Abraham, P.E.

Vice President - Products

10/11/21

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Telephone: 561-881-0020 www.intertek.com/building

#### **TEST REPORT FOR SHEFFIELD METALS**

Report No.: J8065.02-450-18 R0

Date: 10/11/21

#### **SECTION 2**

# **TEST METHOD(S)**

The specimens were evaluated in accordance with the following:

**ASTM E 2140-01,** Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.

#### **SECTION 3**

#### MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

The specimen was installed into a  $5' \times 10' \times 24$  pine wood buck with joists 30'' from each end. The buck was wrapped with pine 2x12s and the perimeter was completely sealed with sealant. Installation of the tested product was performed by representatives of the client.

# **SECTION 4**

#### LIST OF OFFICIAL OBSERVERS

NAME	16 REV	COMPANY
Melissa Nuttall	CHI	Intertek B&C
Veron Wickham	Metry,	Intertek B&C

Version: 07/24/17 Page 3 of 8 RT-R-AMER-Test-2805



Telephone: 561-881-0020 www.intertek.com/building

# **TEST REPORT FOR SHEFFIELD METALS**

Report No.: J8065.02-450-18 R0

Date: 10/11/21

# **SECTION 5**

# **TEST SPECIMEN DESCRIPTION**

**Product Type**: Metal Roof Panels **Series/Model**: 1.5" Mechanical Seam

### **Product Size:**

OVERALL AREA:	WIDTH	WIDTH		HEIGHT	
4.6 m <sup>2</sup> (50.0 ft <sup>2</sup> )	millimeters	inches	millimeters	inches	
Overall Size	1524	60	3048	120	
Panel Coverage	304	12	3048	120	

# **Roof System:**

COMPONENTS	DETAILS	ATTACHMENT METHOD
Clip	The 1-1/2" high x 4-1/2" long two-piece clips were constructed from 22 Ga steel bases and 24 Ga steel butterfly tab.	The clips were secured with two #10 x 1" pancake head screws at each intermediate joist (5' on center).
1-1/2" 180° Mechanical Seam Panels	The panels were constructed from 0.032" aluminum and had a 12" coverage width. Six full and two partial width panels were tested.	The male leg of the panels were secured with clips. A 1/8" bead of Novaflex Metal Roof Sealant was applied to the first 90 degree bend closest to the vertical leg on the female side of the panels. The female leg of the panels were placed over the male leg of the panel and mechanically seamed 180°. The perimeter was secured with #10 x 1" pancake head screws spaced 4" on center.

Version: 07/24/17 Page 4 of 8 RT-R-AMER-Test-2805



Telephone: 561-881-0020 www.intertek.com/building

# **TEST REPORT FOR SHEFFIELD METALS**

Report No.: J8065.02-450-18 R0

Date: 10/11/21

# **SECTION 6**

# **TEST RESULTS**

The temperature during testing was 75°F - 84°F. The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED
ASTM E 2140  Maintain 6" water pressure head for a period of 6 hours	No leakage	No leakage
ASTM E 2140 Maintain 6" water pressure head for a period of 6 hours  ASTM E 2140 Maintain 6" water pressure head for a period of 6 hours	,	TWENTEN COM.
	MANIHO	2,
	2001CD WHA	
TERED OR	E. C.	
e CHANGED, AL		
T SNOT TO BE		
HS REPORT		

Version: 07/24/17 Page 5 of 8 RT-R-AMER-Test-2805



Telephone: 561-881-0020 www.intertek.com/building

# **TEST REPORT FOR SHEFFIELD METALS**

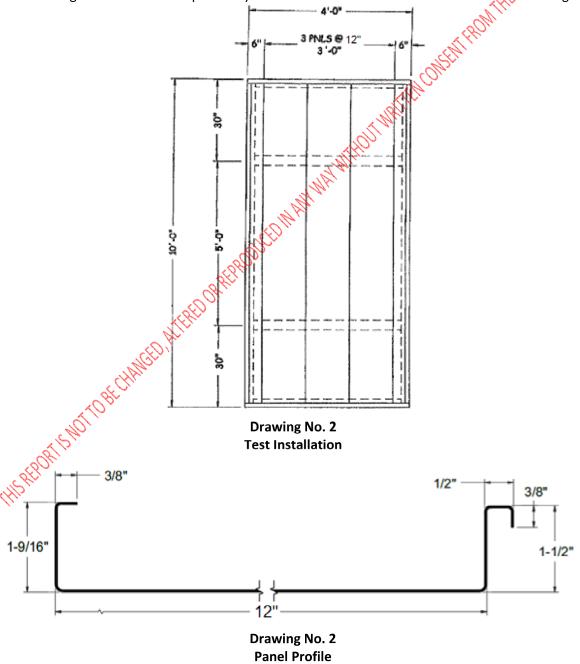
Report No.: J8065.02-450-18 R0

Date: 10/11/21

# **SECTION 7**

# **DRAWINGS**

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



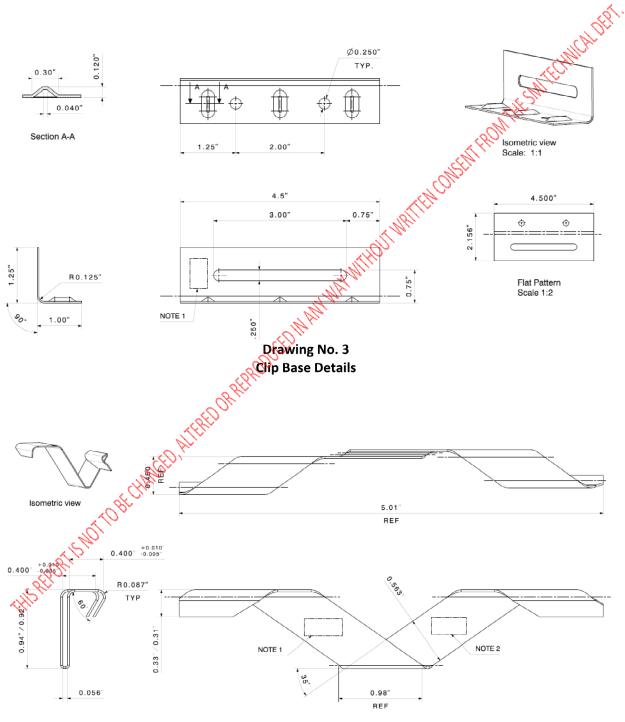


Telephone: 561-881-0020 www.intertek.com/building

# **TEST REPORT FOR SHEFFIELD METALS**

Report No.: J8065.02-450-18 R0

Date: 10/11/21



Drawing No. 4
Clip Butterfly Tab Details



Telephone: 561-881-0020 www.intertek.com/building

#### **TEST REPORT FOR SHEFFIELD METALS**

Report No.: J8065.02-450-18 R0

Date: 10/11/21

# **SECTION 8**

# **REVISION LOG**

REVISION #	DATE	PAGES	REVISION	K
0	10/11/21	N/A	Original Report Issue	ON THE SMIT
		a k	REVISION Original Report Issue	
	CUANGED, ALTEREDOR	REPROJEDIN		
CRISHOTO	& Chi.			

Version: 07/24/17 Page 8 of 8 RT-R-AMER-Test-2805