

PETERSEN ALUMINUM CORPORATION TEST REPORT

SCOPE OF WORK

TAS 125 UPLIFT RESISTANCE TESTING OF 0.032" X 20" WIDE ALUMINUM PAC-150 STANDING SEAM ROOF SYSTEM

REPORT NUMBER

N0374.03-450-18 R0

TEST DATE(S)

06/25/13 – 01/13/22

ISSUE DATE

03/02/22

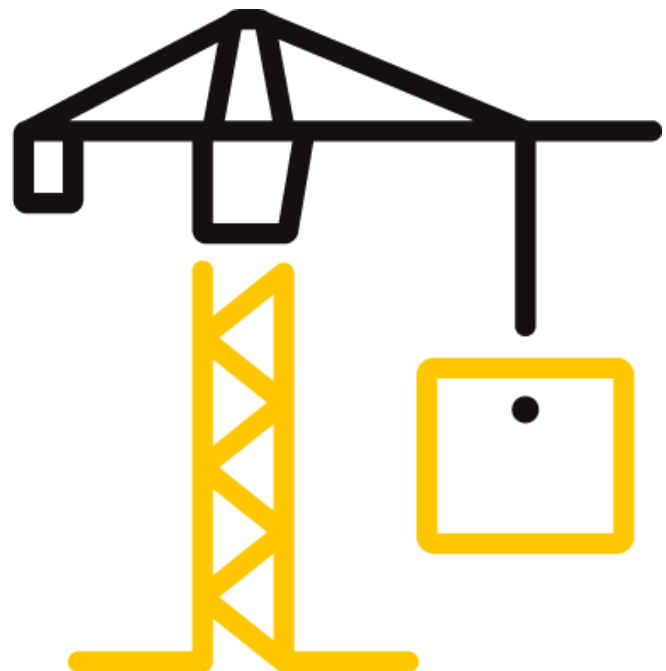
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TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: N0374.03-450-18 R0

Date: 03/02/22

REPORT ISSUED TO

PETERSEN ALUMINUM CORPORATION

102 Northpoint Parkway Ext.

Acworth, Georgia 30102

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company), dba Intertek Building & Construction (B&C) was contracted by Petersen Aluminum Corporation to perform testing in accordance with TAS 125, *Standard Requirements for Metal Roofing Systems*, on their 0.032" x 20" Wide Aluminum PAC-150 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, FL.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period. 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.

SECTION 2

SUMMARY OF TEST RESULTS

Product Type: Metal Roof Panels

Series/Model: PAC-150

Specimen 1 – Ultimate Test Load Achieved: -142psf

Specimen 2 – Ultimate Test Load Achieved: -333.5psf

Specimen 3 – Ultimate Test Load Achieved: -138.5psf

Specimen 4 – Ultimate Test Load Achieved: -198.5psf

For INTERTEK B&C:

COMPLETED BY:	Melissa Nuttall	REVIEWED BY:	Vinu J. Abraham, P.E.
TITLE:	Technician Team Leader – Product Testing	TITLE:	Vice President – Products
SIGNATURE:		SIGNATURE:	
DATE:	03/02/22	DATE:	03/02/22

MMN:sar

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in general accordance with the following:

TAS 125-03, *Standard Requirements for Metal Roofing Systems*

SECTION 4

MATERIAL SOURCE/INSTALLATION

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

Installation of the tested product was performed by representatives of the client.

SECTION 5

EQUIPMENT

Cycling and Static Load Mechanism: Computer controlled centrifugal blowers with electronic pressure measuring device.

Deflection Measuring Device: Linear Transducers, Transit and steel scales

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Veron Wickham	Intertek B&C
Melissa Nuttall	Intertek B&C
Sal Delfino	Petersen Aluminum Corporation
Vinu J. Abraham, P.E.	Architectural Testing, Inc.
Jeff McGovern	Architectural Testing, Inc.
Alan Rule	Architectural Testing, Inc.
John Spallina	Architectural Testing, Inc.

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TEST PROCEDURE

This test evaluates the comparative resistance of roof assemblies to positive and negative pressures by simulating the effects of wind gusts by use of oscillating exterior pressure and constant interior pressures. Four assemblies were tested per TAS 125 at each class rating. (Reference Chart No. 1 for test pressures and load durations.) The measurements were taken via linear transducers for specimen 1. For Specimen 2, the measurements were taken via a transit and steel scales mounted to the roof panels. The initial measurements were "zero" point, not actual deflection. Actual deflection is Phase 1, 2, 3 maximum, 4 or 5 reading less the initial (0.0 psf) reading. The final reading was taken after the completion of an entire class had been completed and became the initial reading for the following class test.

TEST PHASE	DURATION minutes	NEGATIVE PRESSURE		POSITIVE PRESSURE	
		POUNDS PER SQUARE FOOT psf (kPa)	INCHES OF WATER inches (mm)	POUNDS PER SQUARE FOOT psf (kPa)	INCHES OF WATER inches (mm)
Class 30 (maximum combined uplift pressure of -45 psf)					
1	5	16.2 (0.79)	3.1 (79)	0.0 (0.00)	0.0 (0)
2	5	16.2 (0.79)	3.1 (79)	13.8 (0.66)	2.7 (69)
3	60	8.1 - 27.7 (0.39 - 1.33)	1.5 - 5.3 (38 - 135)	13.8 (0.66)	2.7 (69)
4	5	24.2 (1.16)	4.7 (119)	0.0 (0.00)	0.0 (0)
5	5	24.2 (1.16)	4.7 (119)	20.8 (1.00)	4.0 (102)
Class 60 (maximum combined uplift pressure of -75 psf)					
1	5	32.3 (1.55)	6.2 (157)	0.0 (0.00)	0.0 (0)
2	5	32.3 (1.55)	6.2 (157)	27.7 (1.33)	5.3 (135)
3	60	16.2 - 55.4 (0.79 - 2.66)	3.1 - 10.7 (79 - 272)	27.7 (1.33)	5.3 (135)
4	5	40.4 (1.94)	7.8 (198)	0.0 (0.00)	0.0 (0)
5	5	40.4 (1.94)	7.8 (198)	34.6 (1.66)	6.7 (170)
Class 90 (maximum combined uplift pressure of -105 psf)					
1	5	48.5 (2.33)	9.3 (236)	0.0 (0.00)	0.0 (0)
2	5	48.5 (2.33)	9.3 (236)	41.5 (1.99)	8.0 (203)
3	60	24.2 - 48.5 (1.16 - 2.33)	4.7 - 9.3 (119 - 236)	41.5 (1.99)	8.0 (203)
4	5	56.5 (2.71)	10.9 (277)	0.0 (0.00)	0.0 (0)
5	5	56.5 (2.71)	10.9 (277)	48.5 (2.33)	9.3 (236)

**Chart No. 1
TAS-125 Load Table Test Pressures**

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TEST SPECIMEN DESCRIPTION

Product Type: Metal Roof Panels

Series/Model: PAC-150

Product Size(s):

All Specimens

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
9.3 m ² (100.0 ft ²)				
Overall Size	3048	120	3048	120
Panel Coverage	508	20	3048	120

The following description applies to all specimens.

Test Deck Construction:

The 10' 0" wide by 10' 0" long by 1' 3" deep test frame was fabricated from C15 by 33.9 steel channels. The test frame utilized joists constructed from Southern Yellow Pine 2 x 12 lumber located on two sides of the test frame and spaced 24" on center. The joists were secured to the test frame using two 1/2" x 3" long bolts with washers and nuts through an 8" long, 2" by 4" by 1/8" steel angle with pre-drilled fastener locations. The steel angles were welded to the test frame 24" on center. Southern Yellow Pine 2 x 12 lumber was utilized as cross members located at mid-span. 1/2" (15/32" min) thick 4-ply plywood sheathing was utilized on the top of the test deck. The plywood was secured using 8d coated ring shank nails spaced 6" on center.

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Specimen #1 Roof System:

COMPONENTS	DETAILS	ATTACHMENT METHOD
30# Asphalt saturated organic felt paper	A single layer was used with a 2" overlap between adjacent sheets.	0.120" x 1-1/4" galvanized annular ring shank roofing nails with 32 Ga tin caps spaced 6" on center at the perimeter and overlaps, with two intermediate rows spaced 12" on center.
Vapor and moisture barrier	A single layer of QUIK-Stick HT membrane was applied over the felt paper with a 4" overlap between adjacent sheets.	Self-adhered to felt paper.
Fire barrier	A single layer of VersaShield was used with a 2" overlap between adjacent sheets.	Laid loosely over the membrane
Clip	Each individual clip was constructed from 24 Ga steel and measured 1.625" high x 1.3125" wide x 2.000" long.	Each clip was hooked over the male leg of the panel and attached using two #10 x 1-1/2" pancake head screws. The clips were spaced 36" on center.
Roof Panel	The panels were constructed from 0.032" aluminum and had a 20" coverage width. Five full panels and two partial panels were tested.	The female leg of the adjacent roof panel was seamed over the clips and male leg of the panel using a DoubleLock of 180°. No sealant was used in the seam. The entire perimeter of the panel assembly was attached to the plywood substrate using a single row of #10 x 1-1/2" pancake head screws spaced at 2" on center.

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Specimen #2 Roof System:

COMPONENTS	DETAILS	ATTACHMENT METHOD
30# Asphalt saturated organic felt paper	A single layer was used with a 2" overlap between adjacent sheets.	0.120" x 1-1/4" galvanized annular ring shank roofing nails with 32 Ga tin caps spaced 6" on center at the perimeter and overlaps, with two intermediate rows spaced 12" on center.
Vapor and moisture barrier	A single layer of QUIK-Stick HT membrane was applied over the felt paper with a 4" overlap between adjacent sheets.	Self-adhered to felt paper.
Fire barrier	A single layer of VersaShield was used with a 2" overlap between adjacent sheets.	Laid loosely over the membrane
Clip	Each individual clip was constructed from 24 Ga steel and measured 1.625" high x 1.3125" wide x 2.000" long.	Each clip was hooked over the male leg of the panel and attached using two #10 x 1-1/2" pancake head screws. The clips were spaced 12" on center.
Roof Panel	The panels were constructed from 0.032" aluminum and had a 20" coverage width. Five full panels and two partial panels were tested.	The female leg of the adjacent roof panel was seamed over the clips and male leg of the panel using a DoubleLock of 180°. No sealant was used in the seam. The entire perimeter of the panel assembly was attached to the plywood substrate using a single row of #10 x 1-1/2" pancake head screws spaced at 2" on center.

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Specimen #3 Roof System:

COMPONENTS	DETAILS	ATTACHMENT METHOD
30# Asphalt saturated organic felt paper	A single layer was used with a 2" overlap between adjacent sheets.	0.120" x 1-1/4" galvanized annular ring shank roofing nails with 32 Ga tin caps spaced 6" on center at the perimeter and overlaps, with two intermediate rows spaced 12" on center.
Vapor and moisture barrier	A single layer of QUIK-Stick HT membrane was applied over the felt paper with a 4" overlap between adjacent sheets.	Self-adhered to felt paper.
Fire barrier	A single layer of VersaShield was used with a 2" overlap between adjacent sheets.	Laid loosely over the membrane
Clip	Each individual clip was constructed from 24 Ga steel and measured 1.625" high x 1.3125" wide x 2.000" long.	Each clip was hooked over the male leg of the panel and attached using two #10 x 1-1/2" pancake head screws. The clips were spaced 24" on center.
Roof Panel	The panels were constructed from 0.032" aluminum and had a 20" coverage width. Five full panels and two partial panels were tested.	The female leg of the adjacent roof panel was seamed over the clips and male leg of the panel using a SingleLock of 90°. No sealant was used in the seam. The entire perimeter of the panel assembly was attached to the plywood substrate using a single row of #10 x 1-1/2" pancake head screws spaced at 2" on center.

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Specimens #4 Roof System:

COMPONENTS	DETAILS	ATTACHMENT METHOD
30# Asphalt saturated organic felt paper	A single layer was used with a 2" overlap between adjacent sheets.	0.120" x 1-1/4" galvanized annular ring shank roofing nails with 32 Ga tin caps spaced 6" on center at the perimeter and overlaps, with two intermediate rows spaced 12" on center.
Vapor and moisture barrier	A single layer of QUIK-Stick HT membrane was applied over the felt paper with a 4" overlap between adjacent sheets.	Self-adhered to felt paper.
Fire barrier	A single layer of VersaShield was used with a 2" overlap between adjacent sheets.	Laid loosely over the membrane
Clip	Each individual clip was constructed from 24 Ga steel and measured 1.625" high x 1.3125" wide x 2.000" long.	Each clip was hooked over the male leg of the panel and attached using two #10 x 1-1/2" pancake head screws. The clips were spaced 6" on center.
Roof Panel	The panels were constructed from 0.032" aluminum and had a 20" coverage width. Five full panels and two partial panels were tested.	The female leg of the adjacent roof panel was seamed over the clips and male leg of the panel using a SingleLock of 90°. No sealant was used in the seam. The entire perimeter of the panel assembly was attached to the plywood substrate using a single row of #10 x 1-1/2" pancake head screws spaced at 2" on center.

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SECTION 9

TEST RESULTS

The temperature during testing was 74°F. The results are tabulated as follows.

Test Specimen #1

TEST TITLE	OBSERVATIONS	DEFLECTION MEASUREMENTS	RESULTS
Class 30, Phases 1-5 (-45 psf Max.)	No visible damage to system	Reference Table No. 1	PASSED
Class 60, Phases 1-5 (-75 psf Max.)	No visible damage to system	Reference Table No. 1	PASSED
Class 90, Phases 1-5 (-105 psf Max.)	No visible damage to system	Reference Table No. 1	PASSED
Supplemental Loads -112 psf to -142 psf	No visible damage to system	Reference Table No. 2	PASSED
Supplemental Loads -157 psf	Clip screws pulled out of ply	Reference Table No. 2	FAILED

Test Specimen #2

TEST TITLE	OBSERVATIONS	DEFLECTION MEASUREMENTS	RESULTS
Class 30, Phases 1-5 (-45 psf Max.)	No visible damage to system	Reference Table No. 3	PASSED
Class 60, Phases 1-5 (-75 psf Max.)	No visible damage to system	Reference Table No. 3	PASSED
Class 90, Phases 1-5 (-105 psf Max.)	No visible damage to system	Reference Table No. 3	PASSED
Supplemental Loads 78.5 psf to -333.5 psf	No visible damage to system	N/A	PASSED
Supplemental Loads -348.5 psf	Seam disengaged	N/A	FAILED

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Test Specimen #3

TEST TITLE	OBSERVATIONS	DEFLECTION MEASUREMENTS	RESULTS
Class 30, Phases 1-5 (-45 psf Max.)	No visible damage to system	Reference Table No. 4	PASSED
Class 60, Phases 1-5 (-75 psf Max.)	No visible damage to system	Reference Table No. 4	PASSED
Class 90, Phases 1-5 (-105 psf Max.)	No visible damage to system	Reference Table No. 4	PASSED
Supplemental Loads -78.5 psf to -138.5 psf	No visible damage to system	N/A	PASSED
Supplemental Loads -153.5 psf	Clip screws pulled out of ply	N/A	FAILED

Test Specimen #4

TEST TITLE	OBSERVATIONS	DEFLECTION MEASUREMENTS	RESULTS
Class 30, Phases 1-5 (-45 psf Max.)	No visible damage to system	Reference Table No. 5	PASSED
Class 60, Phases 1-5 (-75 psf Max.)	No visible damage to system	Reference Table No. 5	PASSED
Class 90, Phases 1-5 (-105 psf Max.)	No visible damage to system	Reference Table No. 5	PASSED
Supplemental Loads -78.5 psf to -198.5 psf	No visible damage to system	N/A	PASSED
Supplemental Loads -213.5 psf	Seam disengaged	N/A	FAILED

Notes:

Reference Chart No. 1 for test pressures and load durations.

Reference Sketch No. 1 for location of deflection measurement devices.

A loose fitting, pleated 4-mil plastic film was utilized to assist in obtaining uniform pressure on the roof system. The plastic film was located between the moisture barrier and the roof panels to facilitate testing. In our opinion, this did not influence test results.

Supplemental loads per UL 1897 started at -112 psf total load for specimen 1 and at 78.5psf for specimens 2-4.



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SECTION 10

CONCLUSION

The product tested per TAS 125 achieved an ultimate test load of:

Specimen 1: -142psf

Specimen 2: -333.5psf

Specimen 3: -138.5psf

Specimen 4: -198.5psf

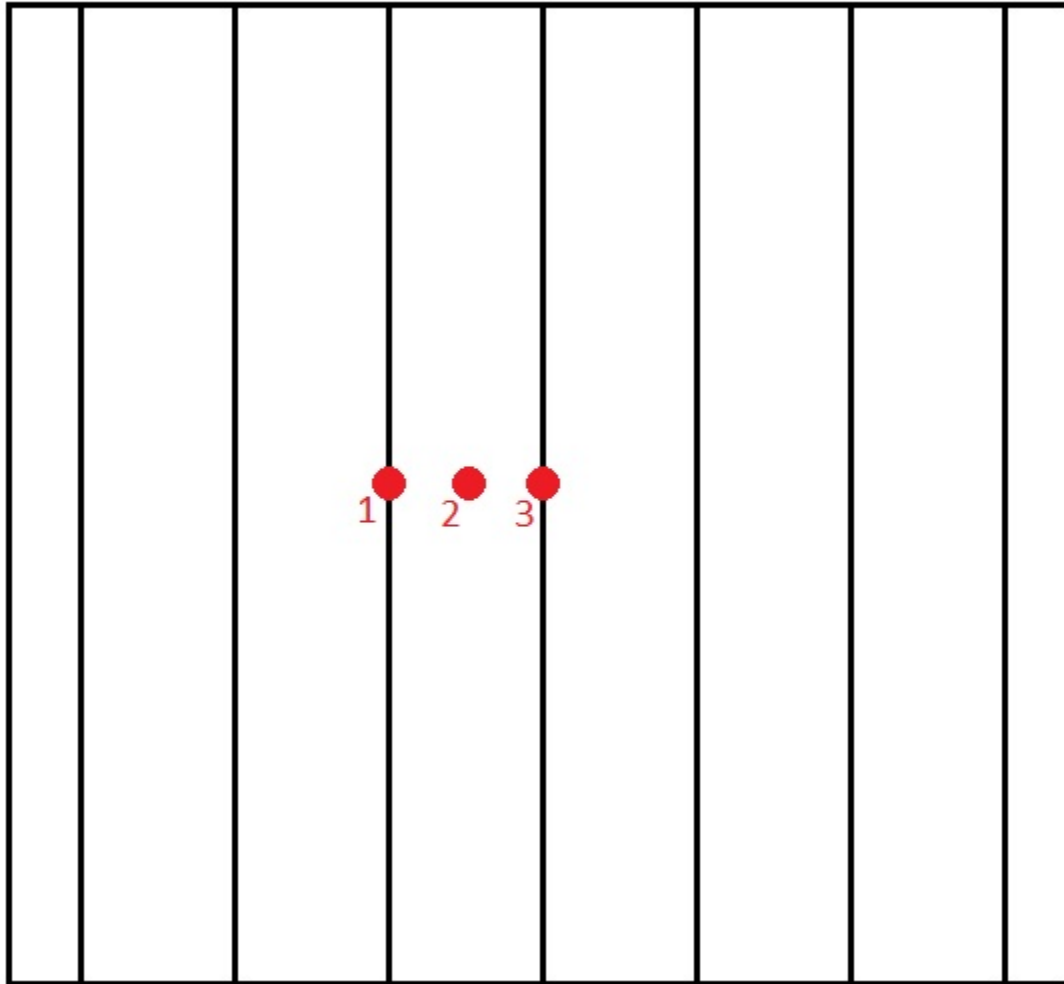
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SECTION 11

SKETCH(ES)



Sketch No. 1
Deflection Measurement Device Locations

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SECTION 12

TABLES

CLASS	PHASE	DEFLECTION MEASUREMENTS (inches)		
		INDICATOR		
		#1	#2	#3
30 (-45 psf Max.)	1	0.06	0.31	0.08
	2	0.23	0.94	0.19
	3 Minimum	0.25	1.00	0.19
	3 Maximum	0.29	1.09	0.24
	4	0.25	1.04	0.20
	5	0.36	1.30	0.30
	Final (0.0 psf)	0.10	0.40	0.05
60 (-75 psf Max.)	1	0.33	1.24	0.27
	2	0.46	1.49	0.39
	3 Minimum	0.44	1.38	0.35
	3 Maximum	0.55	1.55	0.46
	4	0.45	1.44	0.36
	5	0.66	1.87	0.54
	Final (0.0 psf)	0.14	0.55	0.08
90 (-105 psf Max.)	1	0.51	1.58	0.41
	2	0.78	2.05	0.63
	3 Minimum	0.69	1.82	0.52
	3 Maximum	0.73	1.89	0.58
	4	0.61	1.67	0.47
	5	0.98	2.23	0.74
	Final (0.0 psf)	0.20	0.60	0.13

Table No. 1

Deflection Measurements – Test Specimen #2

VACUUM (psf)	UPLIFT (psf)	LOAD (psf)	SUPPLEMENTAL DEFLECTION MEASUREMENTS (inches)		
			INDICATOR		
			#1	#2	#3
-63.5	-48.5	-112.0	1.03	2.17	0.75
-78.5	-48.5	-127.0	1.25	2.41	0.93
-93.5	-48.5	-142.0	1.83	2.89	1.16
-108.5	-48.5	-157.0	Failed		

Table No. 2

Supplemental Deflection Measurements – Test Specimen #2

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CLASS	PHASE	DEFLECTION MEASUREMENTS (inches)		
		INDICATOR		
		#1	#2	#3
30	Initial (0.0 psf)	5.0	5.1	4.9
	1	5.2	5.8	5.0
	2	5.2	6.0	5.1
	3 Maximum	5.3	6.6	5.2
	4	5.3	6.3	5.2
	5	5.4	6.6	5.2
	Final (0.0 psf)	5.1	5.7	5.0
60	1	5.4	6.7	5.2
	2	5.4	6.7	5.3
	3 Maximum	5.6	7.1	5.4
	4	5.5	6.9	5.2
	5	5.5	7.1	5.3
	Final (0.0 psf)	5.2	5.9	5.0
	90	1	5.5	7.0
2		5.6	7.3	5.4
3 Maximum		5.6	7.2	5.4
4		5.5	7.0	5.3
5		5.7	7.3	5.4
Final (0.0 psf)		5.2	6.0	5.0

Table No. 3
Deflection Measurements – Test Specimen #2

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CLASS	PHASE	DEFLECTION MEASUREMENTS (inches)		
		INDICATOR		
		#1	#2	#3
30	Initial (0.0 psf)	5.2	5.2	5.1
	1	5.4	6.4	5.2
	2	5.5	6.9	5.5
	3 Maximum	5.6	7.1	5.4
	4	5.5	6.9	5.4
	5	5.6	7.2	5.5
	Final (0.0 psf)	5.3	5.5	5.1
60	1	5.6	7.1	5.4
	2	5.7	7.3	5.5
	3 Maximum	5.8	7.4	5.6
	4	5.7	7.3	5.5
	5	5.8	7.5	5.6
	Final (0.0 psf)	5.3	6.0	5.2
	90	1	5.7	7.0
2		5.8	7.6	5.6
3 Maximum		5.8	7.5	5.6
4		5.8	7.5	5.6
5		5.9	8.1	5.3
Final (0.0 psf)		5.5	6.3	5.2

Table No. 4
Deflection Measurements – Test Specimen #3

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CLASS	PHASE	DEFLECTION MEASUREMENTS (inches)		
		INDICATOR		
		#1	#2	#3
30	Initial (0.0 psf)	5.4	5.5	5.0
	1	5.7	6.5	5.2
	2	5.7	6.8	5.2
	3 Maximum	6.0	7.2	5.3
	4	5.7	6.7	5.2
	5	6.0	7.2	5.3
	Final (0.0 psf)	5.5	6.0	5.0
60	1	5.9	7.1	5.3
	2	6.1	7.5	5.4
	3 Maximum	6.2	7.5	5.5
	4	6.1	7.4	5.3
	5	6.2	7.5	5.4
	Final (0.0 psf)	5.6	6.1	5.1
	90	1	6.1	7.1
2		6.3	7.6	5.5
3 Maximum		6.3	7.6	5.5
4		6.1	7.4	5.4
5		6.4	7.7	5.7
Final (0.0 psf)		5.6	6.2	5.1

Table No. 5
Deflection Measurements – Test Specimen #45.4

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SECTION 13

LOAD TABLE

Load Table 1: 0.032" x 20" Wide Aluminum PAC-150 Panel Over 1/2" Plywood with 180° Seam

Clip Spacing, L	Clip Spacing, L	Test Result	Allowable Design Pressure with Safety Factor of 1.65	Allowable Design Pressure with Safety Factor of 2.00
1'-0"	12"	-333.5 psf	-202.1 psf	-166.8 psf
1'-6"	18"		-173.1 psf	-142.8 psf
2'-0"	24"		-144.1 psf	-118.9 psf
2'-6"	30"		-115.1 psf	-94.9 psf
3'-0"	36"	-142.0 psf	-86.1 psf	-71.0 psf

Load Table 2: 0.032" x 20" Wide Aluminum PAC-150 Panel Over 1/2" Plywood with 90° Seam

Clip Spacing, L	Clip Spacing, L	Test Result	Allowable Design Pressure with Safety Factor of 1.65	Allowable Design Pressure with Safety Factor of 2.00
0'-6"	6"	-198.5 psf	-120.3 psf	-99.3 psf
1'-0"	12"		-108.2 psf	-89.3 psf
1'-6"	18"		-96.11 psf	-79.3 psf
2'-0"	24"	-138.5 psf	-83.9 psf	-69.3 psf

General Notes:

Intermediate values based on linear interpolation from tested values.

Actual testing with 180° seam was conducted at 1'-0" and 3'-0" clip spacing.

Actual testing with 90° seam was conducted at 0'-6" and 2'-0" clip spacing.

Vinu Abraham, P.E.
Vice President - Products

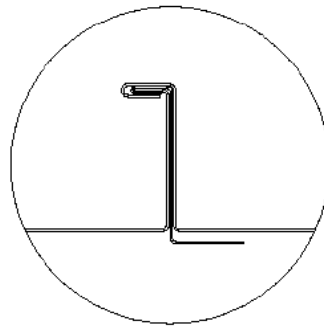
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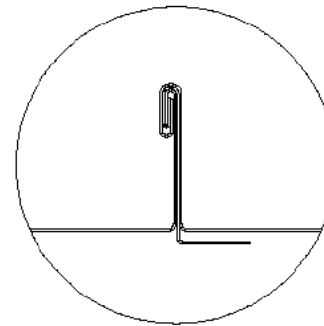
Date: 03/02/22

SECTION 14 DRAWINGS

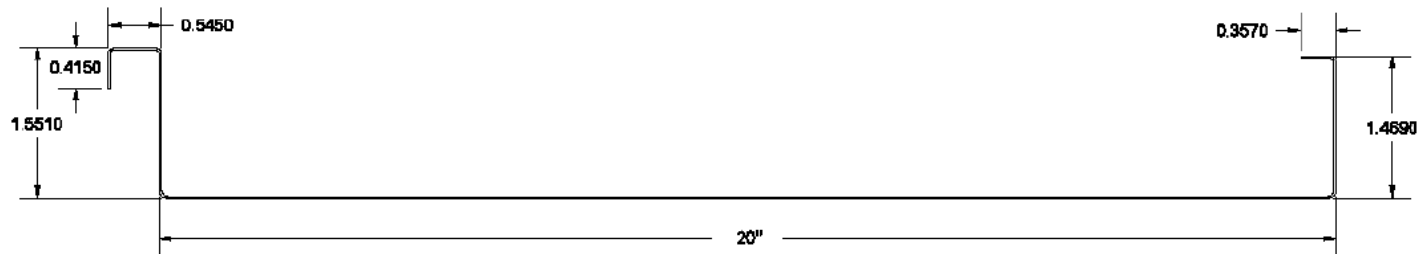
The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



SINGLE-LOCK BEAM 90°



DOUBLE-LOCK SEAM 180°

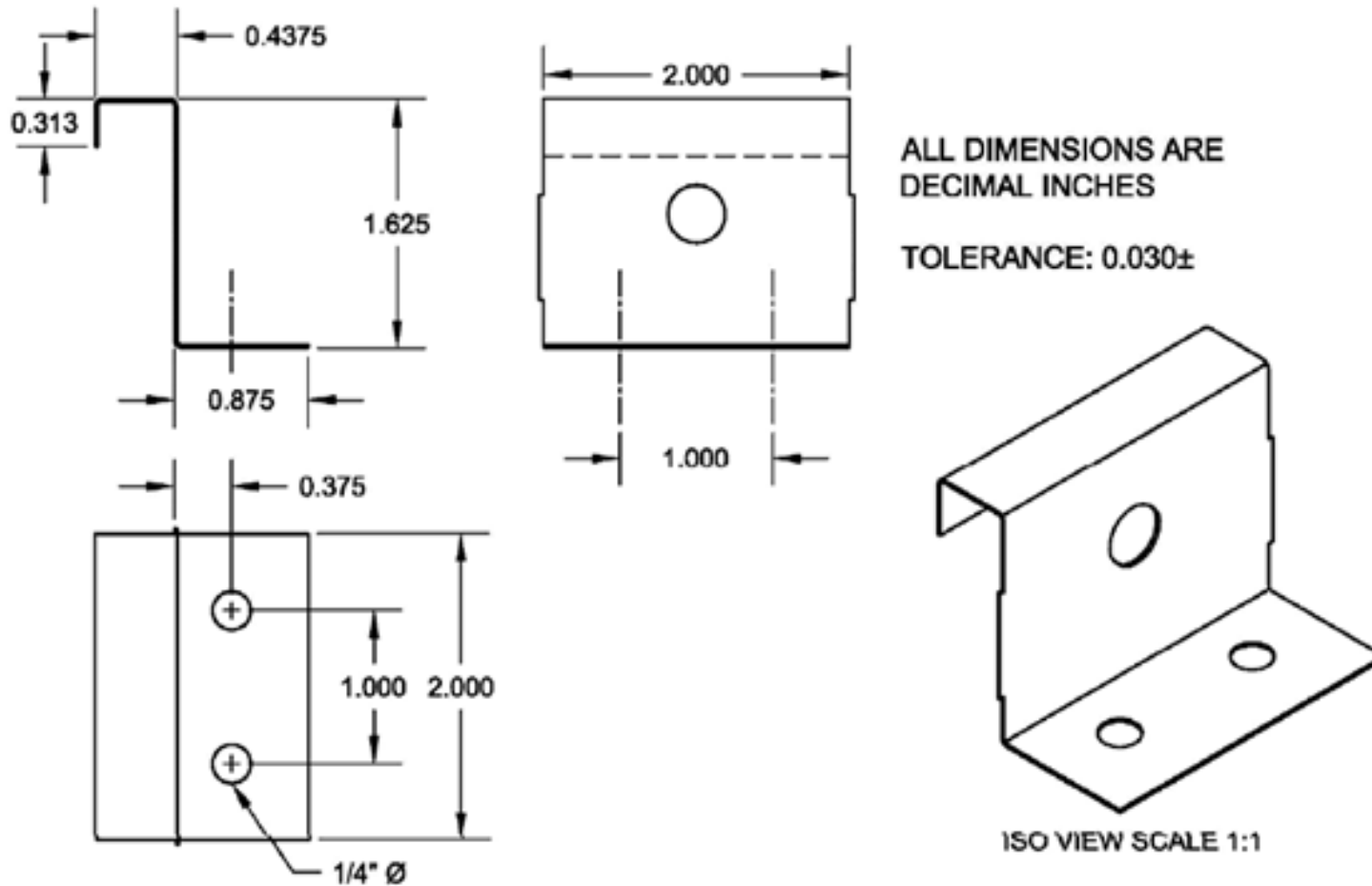


Drawing No. 1
Panel Profile

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Drawing No. 2
Clip Dimensions



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SECTION 15

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/02/22	N/A	Original Report Issue