

PETERSEN ALUMINUM CORPORATION FLORIDA BUILDING CODE TEST REPORT

SCOPE OF WORK

TAS 202, AND TAS 203 TESTING ON 0.032" (MIN.) ALUMINUM FLUSH & REVEAL SOFFIT PANELS

REPORT NUMBER

S6488.01-450-18 R0

TEST DATE(S)

07/31/25 – 08/07/25

ISSUE DATE

12/11/25

LABORATORY CERTIFICATION NO.

22-0428.13

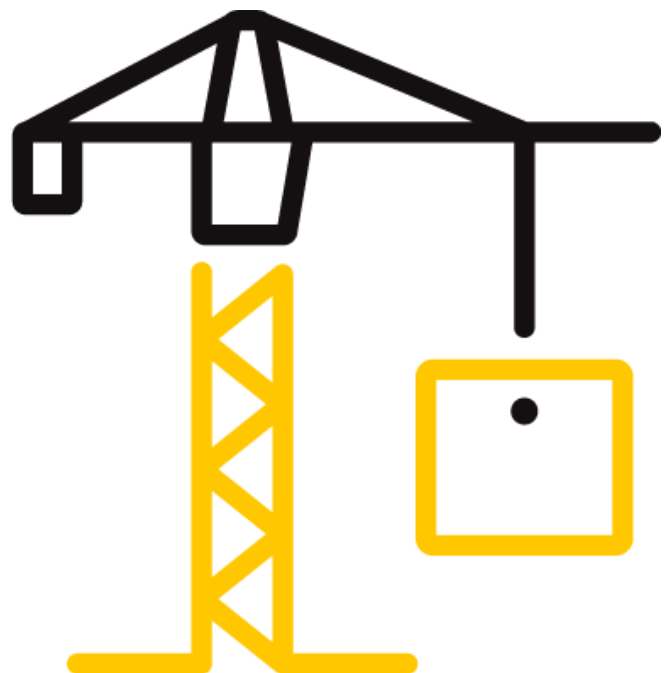
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TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

REPORT ISSUED TO

PETERSEN ALUMINUM CORPORATION

102 Northpoint Parkway
Building 106
Acworth, GA 30102

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Petersen Aluminum Corporation to perform TAS 202, and TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone requirements on their 0.032" Aluminum Flush & Reveal Soffit Panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the 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.

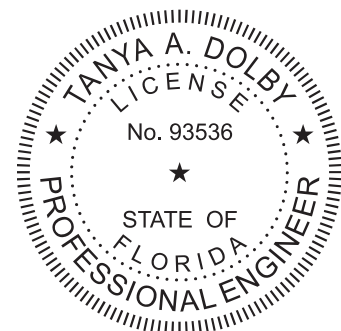
SECTION 2

SUMMARY OF TEST RESULTS

The specimen(s) tested met the performance requirements set forth in the protocols.

Product Type: Aluminum Flush & Reveal Soffit Panels

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
1	TAS 202	+100.0 / -100.0 psf
2	TAS 203	+100.0 / -100.0 psf
3	TAS 203	+100.0 / -100.0 psf
4	TAS 203	+100.0 / -100.0 psf



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For INTERTEK B&C:

COMPLETED BY:	Daniel Carroll	REVIEWED BY:	Tanya Dolby, P.E.
TITLE:	Senior Regional Manager	TITLE:	Engineering Manager – Engineering Services
SIGNATURE:	 Digitally Signed by: Daniel J. Carroll	SIGNATURE:	 Digitally Signed by: Tanya Dolby
DATE:	12/11/25	DATE:	12/11/25

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TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 3

TEST METHOD(S)

The specimens were evaluated in general accordance with the following:

TAS 202-94, *Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure* – Only structural loads were performed.

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading* – Impacts were not performed.

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 four years from the test completion date.

The specimens were installed into a Southern Yellow Pine test buck. Installation of the tested product was performed by the client.

SECTION 5

EQUIPMENT

Timing Device: Electronic beam type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sal Delfino	Petersen Aluminum Corporation
Seth Allen	Intertek B&C
Charles Gilbert	Intertek B&C
Kevin Jones	Intertek B&C

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Aluminum Flush & Reveal Soffit Panels

Product Size(s):

PANEL SIZE	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
Panel	304	12	2438	72

The following description applies to all specimens.

Test Deck Construction:

The 98" wide by 72" high Buck was constructed from Southern Yellow Pine 2 x 12 nominal lumber. 2x4 Southern Yellow Pine joists were spaced 24" on center and were secured to the perimeter using four #8 x 3" long Torx flat head screws at each end. 1x4 pressure treated battens were installed over the 2x4 joist at 12" O.C.

Soffit System:

Components	details	attachment method
Clip	The clips were constructed from 24 Ga stainless steel and were 1-1/2" wide x 1-3/8" long. They were spaced at 12" on center.	Each clip was attached using a #10 x 1-1/2" pancake head fastener.
0.032" Aluminum Soffit panel	The panels were constructed from 0.032" Aluminum panel and had an 12" coverage width. Six full panels were tested.	The male leg of the panels was secured to the 1x4 pressure treated battens with clips spaced 12" on center. The female leg of the panels snapped onto the clip.

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 8

TEST RESULTS

Protocol TAS 202-94, Static Air Pressure

Test Date(s): 07/31/25

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

Test Specimen #1: Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	NET	MEASURED	NET
+75.00 50% of Test Pressure	1	0.98	<0.01	0.21	<0.01
	2	0.53		0.07	
	3	0.71		0.09	
	4	1.60	0.08	0.17	<0.01
	5	1.45		0.17	
	6	1.13		0.21	
+100.00 Design Pressure	1	1.06	<0.01	0.21	<0.01
	2	0.63		0.09	
	3	0.95		0.12	
	4	1.83	0.06	0.21	<0.01
	5	1.62		0.22	
	6	1.30		0.34	
-75.00 50% of Test Pressure	1	0.70	<0.01	0.19	<0.01
	2	0.52		0.10	
	3	0.71		0.12	
	4	0.66	<0.01	0.11	0.04
	5	0.67		0.15	
	6	0.70		0.12	
-100.00 Design Pressure	1	0.88	<0.01	0.24	<0.01
	2	0.73		0.13	
	3	0.95		0.17	
	4	0.88	0.06	0.17	0.12
	5	0.95		0.30	
	6	0.90		0.19	

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

Test Specimen #1: Structural Overload Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	NET	MEASURED	NET
+150.00 Test Pressure	1	1.26	<0.01	0.24	<0.01
	2	0.83		0.16	
	3	1.42		0.20	
	4	2.25	0.02	0.28	<0.01
	5	1.90		0.29	
	6	1.52		0.47	
-150.00 Test Pressure	1	0.97	<0.01	0.29	<0.01
	2	0.94		0.15	
	3	1.01		0.23	
	4	1.02	0.21	0.21	0.20
	5	1.27		0.40	
	6	1.10		0.21	

Note 1: Positive and negative uniform static load test loads were held for 30 seconds.

Note 2: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 3: See Sketch #1 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

Protocol TAS 203-94, Cyclic Wind Pressure Loading
Test Date(s): 08/06/25 through 08/07/25

The temperature during testing was 84°F - 86°F. The results are tabulated as follows:

Test Specimen #1: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+100.0 / -100.0 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0
AVERAGE CYCLE TIME (sec.)	3.6	4.0	1.0
NUMBER OF CYCLES	600	70	1
	4	5	6
NEGATIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0
AVERAGE CYCLE TIME (sec.)	3.0	3.2	1.0
NUMBER OF CYCLES	600	70	1

Test Specimen #1: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	1.18	0.19
2	1.12	0.10
3	1.66	0.05
4	1.29	0.11
5	1.15	0.04
6	0.76	0.12

Test Specimen #1: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.98	0.26
2	0.88	0.19
3	1.75	0.31
4	1.88	0.49
5	1.05	0.37
6	1.40	0.20

Note 4: See Sketch #1 for indicator locations.

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

Test Specimen #2: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+100.0 / -100.0 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0
AVERAGE CYCLE TIME (sec.)	3.8	3.7	1.0
NUMBER OF CYCLES	600	70	1
	4	5	6
NEGATIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0
AVERAGE CYCLE TIME (sec.)	3.4	3.4	1.0
NUMBER OF CYCLES	600	70	1

Test Specimen #2: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.66	0.14
2	1.51	0.18
3	0.92	0.26
4	1.47	0.19
5	2.13	0.20
6	1.56	0.20

Test Specimen #2: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.59	0.07
2	1.39	0.18
3	0.77	0.10
4	0.83	0.07
5	1.61	0.30
6	0.73	0.18

Note 5: See Sketch #1 for indicator locations.

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

Test Specimen #3: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+100.0 / -100.0 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 – 60.0	0 – 72.0	0 – 156.0
AVERAGE CYCLE TIME (sec.)	3.1	2.6	1.0
NUMBER OF CYCLES	600	70	1
	4	5	6
NEGATIVE PRESSURE RANGE (psf)	0 – 60.0	0 – 72.0	0 – 156.0
AVERAGE CYCLE TIME (sec.)	2.9	2.7	1.0
NUMBER OF CYCLES	600	70	1

Test Specimen #3: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	1.33	0.39
2	1.36	0.19
3	2.25	0.44
4	2.61	0.43
5	2.49	0.21
6	1.72	0.30

Test Specimen #3: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.54	0.15
2	0.60	0.19
3	1.20	0.24
4	1.40	0.16
5	1.41	0.17
6	0.53	0.18

Note 6: See Sketch #1 for indicator locations.

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 9

CONCLUSIONS

No signs of failure were observed in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202. Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

No signs of failure were observed in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203. Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1625 of the Florida Building Code, Building.

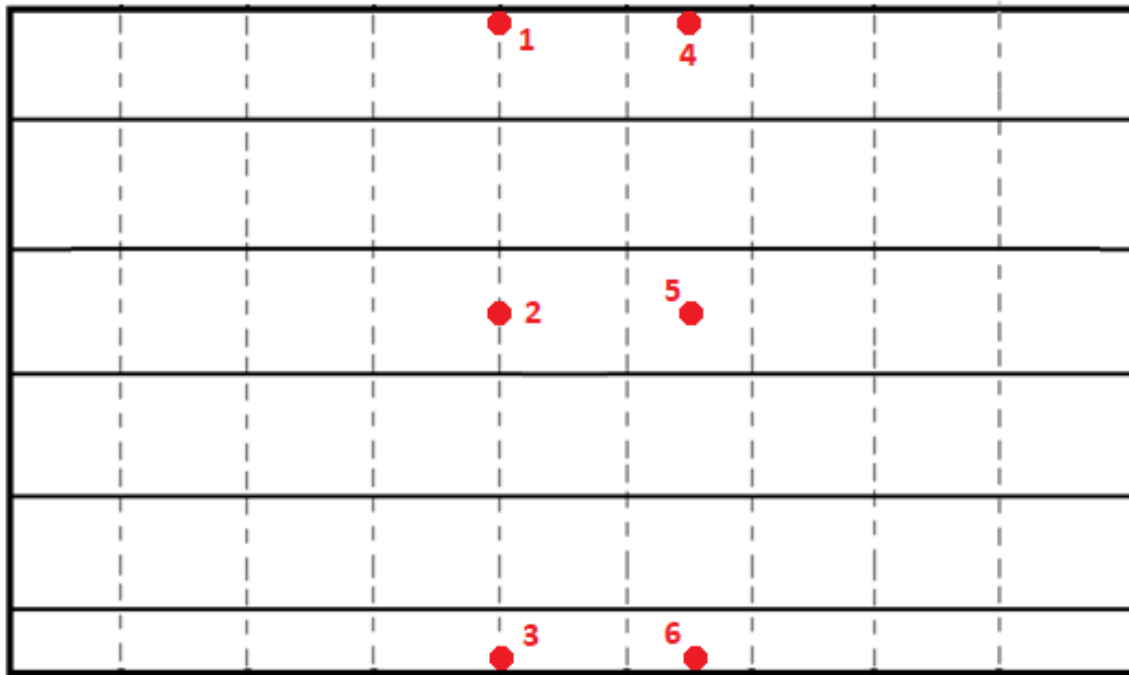
TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 10

SKETCH(ES)



Sketch No. 1

TAS 202 Indicator Locations

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 11**PHOTOGRAPHS**

Photo No. 1
Front of Specimen After Testing

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25



Photo No. 2
Back of Specimen After Testing

TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

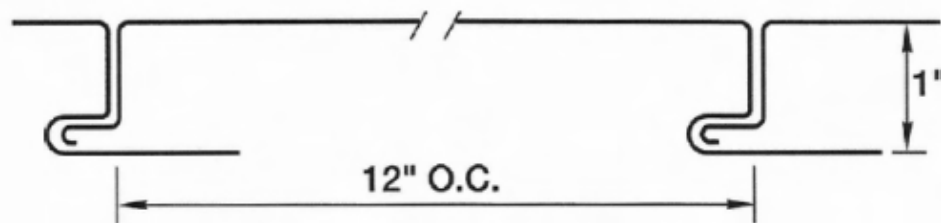
Report No.: S6488.01-450-18 R0

Date: 12/11/25

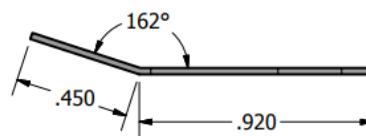
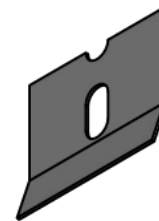
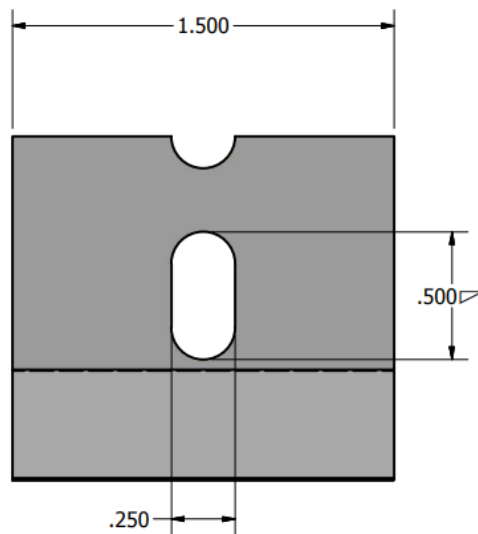
SECTION 12

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.



Drawing No. 1
Flush Wall Panel Profile



Drawing No. 2
Clip Dimensions



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TEST REPORT FOR PETERSEN ALUMINUM CORPORATION

Report No.: S6488.01-450-18 R0

Date: 12/11/25

SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	12/11/25	N/A	Original Report Issue