

TRULOG SIDING FLORIDA BUILDING CODE TEST REPORT

SCOPE OF WORK

TAS 202 AND TAS 203 TESTING ON TRULOG, STEEL SIDING

REPORT NUMBER

L4538.01-109-18 R1

TEST DATES

11/3/20 - 11/20/20

ISSUE DATE

02/11/21

REVISION DATE

11/09/23

RECORD RETENTION END DATE

11/20/30

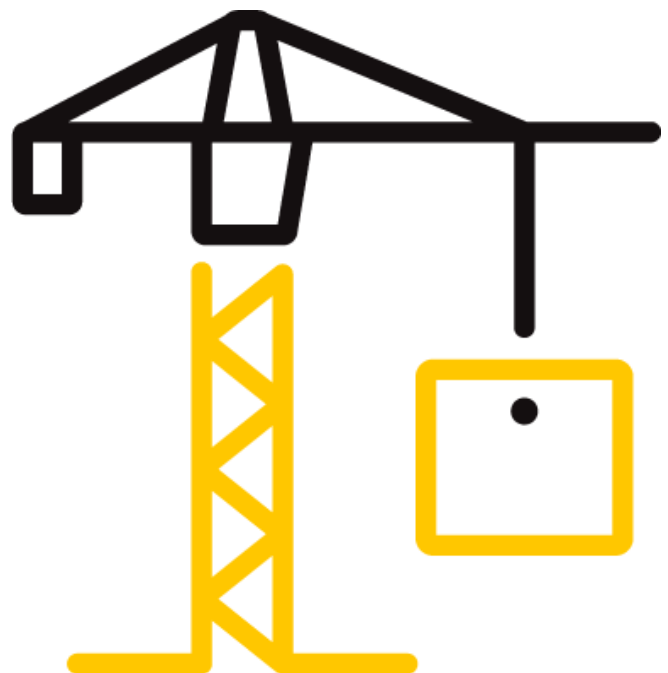
PAGES

14

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2816 (02/22/19)

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TEST REPORT FOR TRULOG SIDING

Report No.: L4538.01-109-18 R1

Date: 02/11/21

Revision Date: 11/09/23

REPORT ISSUED TO

TRULOG SIDING

3543 County Road 5

Loveland, Colorado 80537

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by TruLog Siding to perform TAS 202 and TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone requirements on their TruLog, steel siding. 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 York, Pennsylvania.

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

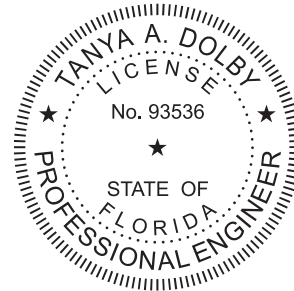
SECTION 2

SUMMARY OF TEST RESULTS

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

Design Pressure: -73.3 psf

Overload Test Pressure: -110.0 psf



2023.11.09 11:38:56 -05'00'

For INTERTEK B&C:

COMPLETED BY: Richard E. Hartman III
TITLE: Team Lead - Product Testing

SIGNATURE: 
Digitally Signed by: Richard Hartman III

DATE: 11/09/23

REVIEWED BY: Tanya A. Dolby, P.E.
TITLE: Engineering Manager - Engineering Services

SIGNATURE: 
Digitally Signed by: Tanya Dolby

DATE: 11/09/23

JAS/REH:nls/aas

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SECTION 3

TEST METHOD(S)

The specimen(s) were evaluated in accordance with the following:

TAS 202-94, *Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen(s) 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.

The specimen was installed into a Spruce-Pine-Fir wood buck. The test buck was constructed with nominal 2x6 lumber with vertical studs spaced 16" on center. The studs were reinforced with 2" by 2" by 3/16" steel angles measuring 4" long at each end of the studs. The angle was secured with four #10 x 1-1/2" pan head screws, two into the stud and two into the head on the sill. The test wall was sheathed with 5/8" 5-ply plywood. Installation of the tested product was performed by Intertek B&C.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Siding panels	#8 x 1-3/8" lath screws	Located 1" from each panel end and spaced 16" on center through the nail hem and into the studs
Panel ends	2" by 1-1/8" by 1/32" thick steel J-channel with #8 x 1-5/8" flat head screws	Located along the vertical edges, secured with fasteners 1" from each end and spaced 8" on center through the J-channel and into the sheathing

SECTION 5

EQUIPMENT

Tape Measure Verification: 63788

Weather Station: 63316

Control Panel: 005406

Linear Transducers: 64460, 62182, 62189, 003624, 003439, Y003060

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LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Timothy J. McGill	Intertek B&C
Daniel C. Culbert, P.E.	Intertek B&C
John A. Shanabrook	Intertek B&C

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Steel Siding

Series/Model: TruLog

Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT	
2.3 m ² (25.1 ft ²)	millimeters	inches	millimeters	inches
Overall size	2445	96-1/4	953	37-1/2
Panel size	2438	96	257	10-1/8

Test Specimen(s) Construction:

The test specimens were composed of four courses horizontally installed with a male interlock at the bottom interfaced with a steel starter strip. The ends were covered with a J-channel segment along the length of the test wall. Each course had a panel consisting of a 0.018" thick steel panel with a woodgrain finish and Styrofoam backer.

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SECTION 8

TEST RESULTS

Protocol TAS 202-94, Static Air Pressure

Test Date(s): 11/18/20 through 11/19/20

The temperature range during testing was 12°C - 14°C (54°F - 57°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	ALLOWED	MEASURED	ALLOWED
-55.0 50% of Test Pressure	1	0.21	N/A	0.06	N/A
	2	0.22	N/A	0.07	N/A
	3	0.20	N/A	0.06	N/A
-75.0 Design Pressure	1	0.19	N/A	0.02	N/A
	2	0.20	N/A	0.02	N/A
	3	0.19	N/A	0.02	N/A

Note: The -75.0 psf (Design Pressure) was used as the closest to and greater than pressure for the representative deflections for the -73.3 psf (Design Pressure). The -73.3 psf (Design Pressure) was not run due to the test loading sequence.

Test Specimen #2: Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-55.0 50% of Test Pressure	4	0.41	N/A	0.09	N/A
	5	0.36	N/A	0.08	N/A
	6	0.31	N/A	0.07	N/A
-80.0 Design Pressure	4	0.47	N/A	0.05	N/A
	5	0.41	N/A	0.04	N/A
	6	0.34	N/A	0.04	N/A

Note: The -80.0 psf (Design Pressure) was used as the closest to and greater than pressure for the representative deflections for the -73.3 psf (Design Pressure). The -73.3 psf (Design Pressure) was not run due to the test loading sequence.

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Test Specimen #3: Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-55.0 50% of Test Pressure	7	0.41	N/A	0.09	N/A
	8	0.35	N/A	0.06	N/A
	9	0.28	N/A	0.05	N/A
-80.0 Design Pressure	7	0.48	N/A	0.05	N/A
	8	0.41	N/A	0.03	N/A
	9	0.32	N/A	0.03	N/A

Note: The -80.0 psf (Design Pressure) was used as the closest to and greater than pressure for the representative deflections for the -73.3 psf (Design Pressure). The -73.3 psf (Design Pressure) was not run due to the test loading sequence.

Test Specimen #1: Structural Overload Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-110.0 Test Pressure	1	0.35	N/A	0.06	N/A
	2	0.36	N/A	0.08	N/A
	3	0.34	N/A	0.06	N/A

Test Specimen #2: Structural Overload Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-110.0 Test Pressure	4	0.77	N/A	0.10	N/A
	5	0.68	N/A	0.09	N/A
	6	0.51	N/A	0.08	N/A

Test Specimen #3: Structural Overload Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-110.0 Test Pressure	7	0.76	N/A	0.10	N/A
	8	0.66	N/A	0.07	N/A
	9	0.52	N/A	0.06	N/A

General Notes:

Negative uniform static load test loads were held for 30 seconds.

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.

See Sketch #1 for indicator locations.

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Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Date(s): 11/19/20 through 11/20/20

The temperature during testing was 13°C - 17°C (56°F - 63°F). The results are tabulated as follows:

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

DESIGN PRESSURE	STAGE		
-73.3 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 - 36.65	0 - 43.98	0 - 95.29
AVERAGE CYCLE TIME (sec.)	2.04	2.31	N/A
NUMBER OF CYCLES	600	70	1

Test Specimen #1: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
1	0.34	0.03	91	> 90
2	0.32	0.02	94	> 90
3	0.27	0.02	93	> 90

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

DESIGN PRESSURE	STAGE		
-73.3 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 - 36.65	0 - 43.98	0 - 95.29
AVERAGE CYCLE TIME (sec.)	2.83	2.76	N/A
NUMBER OF CYCLES	600	70	1

Test Specimen #2: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
4	0.63	0.01	98	> 90
5	0.56	0.01	98	> 90
6	0.47	0.01	98	> 90

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

DESIGN PRESSURE	STAGE		
-73.3 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 - 36.65	0 - 43.98	0 - 95.29
AVERAGE CYCLE TIME (sec.)	2.83	2.76	N/A
NUMBER OF CYCLES	600	70	1

Test Specimen #3: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
7	0.63	0.01	98	> 90
8	0.56	0.01	98	> 90
9	0.45	0.01	98	> 90

General Notes:

See Sketch #1 for indicator locations.

Test Specimen #1 was cycled independently.

Test Specimens #2 and #3 were cycled in a common chamber.

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.

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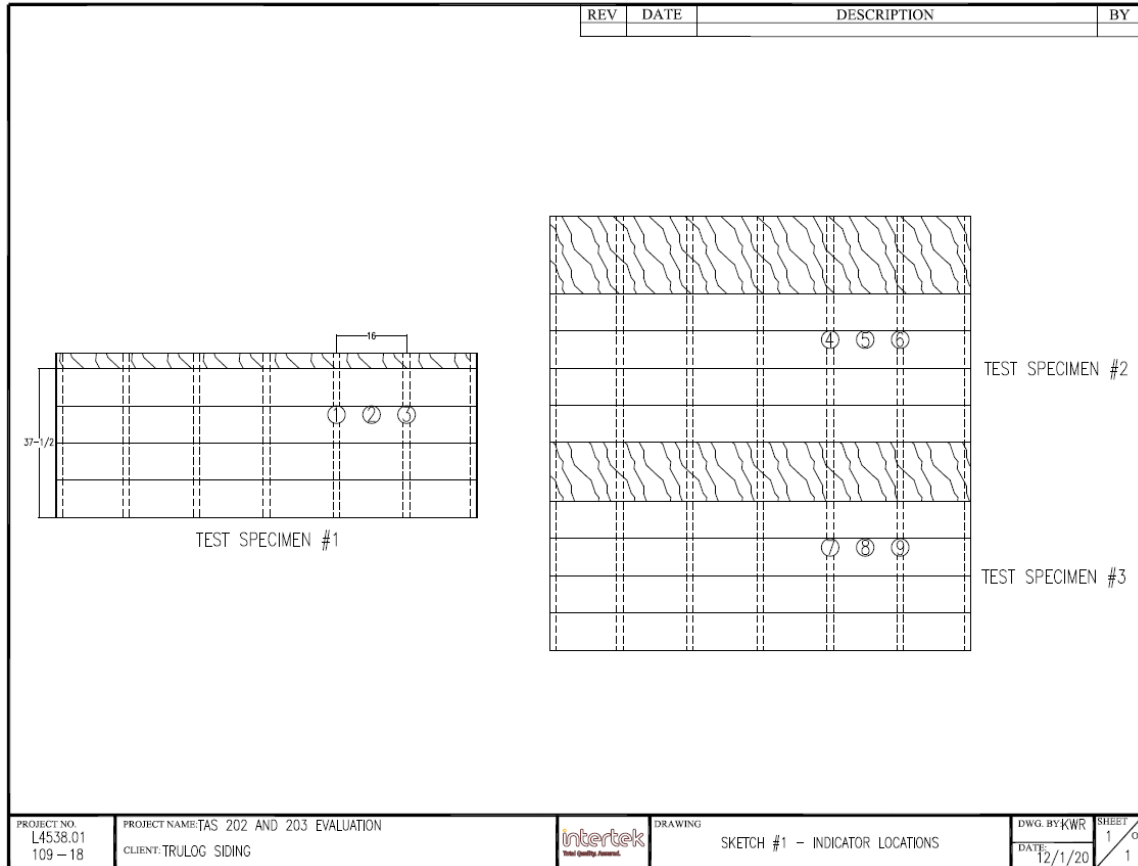
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SECTION 10

SKETCH



Sketch No. 1
TAS 202/203 Indicator Locations

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SECTION 11**PHOTOGRAPHS****Photo No. 1****TruLog, Steel Siding, Single Specimen Install**

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Photo No. 2
TruLog, Steel Siding, Dual Specimen Install



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

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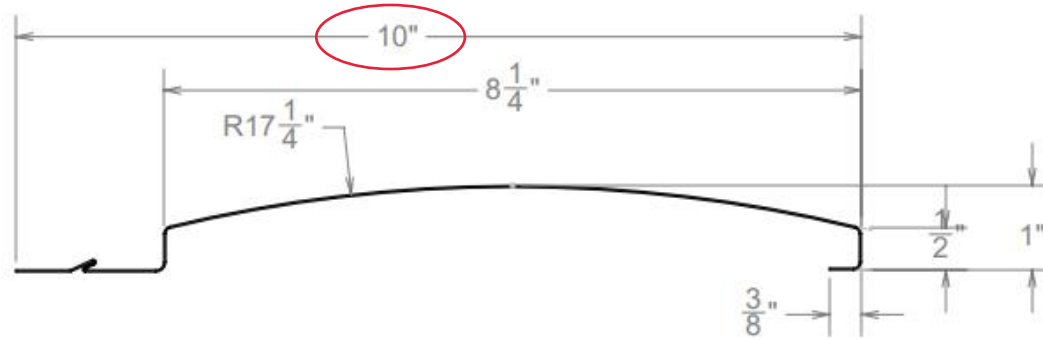
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SECTION 12

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.



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Report #: L4538.01

Date: 11/07/23

Verified by: *Richard E. H. H.*

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REPRODUCTION IN PART OR AS A WHOLE
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TruLog™ MAINTENANCE-FREE STEEL SIDING 20684 Niobrara Blvd. LaSalle, CO 80645 970-646-4490			
		DIMENSIONS ARE IN INCHES		DRAWN	DSuriani	8/18/2023	TITLE: Log Siding		
		TOLERANCES:		CHECKED					
		FRACTIONAL $\pm 1/16"$		ENG APPR.					
		ANGULAR: MACH. $\pm 1/4^\circ$ BEND $\pm 1^\circ$		MFG APPR.					
		TWO PLACE DECIMAL $\pm .01$		Q.A.					
		THREE PLACE DECIMAL $\pm .005$		COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:					SIZE	DWG. NO.	REV
		MATERIAL		26 gauge			A		A
		FINISH							
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING					SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

5

4

3

2

1



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SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/11/21	N/A	Original Report Issue
1	11/09/23	4, 13	Changed Panel Thickness to 0.018", Updated Drawing