

# WOODBRIID LLC

# FLORIDA BUILDING

# CODE TEST REPORT

**SCOPE OF WORK**

TAS 202 AND TAS 203 TESTING ON  
WOODBRIID, COMPOSITE SIDING

**REPORT NUMBER**

M3399.01-109-18

**TEST DATE(S)**

5/18/21

**ISSUE DATE**

12/02/21

**RECORD RETENTION END DATE**

5/18/31

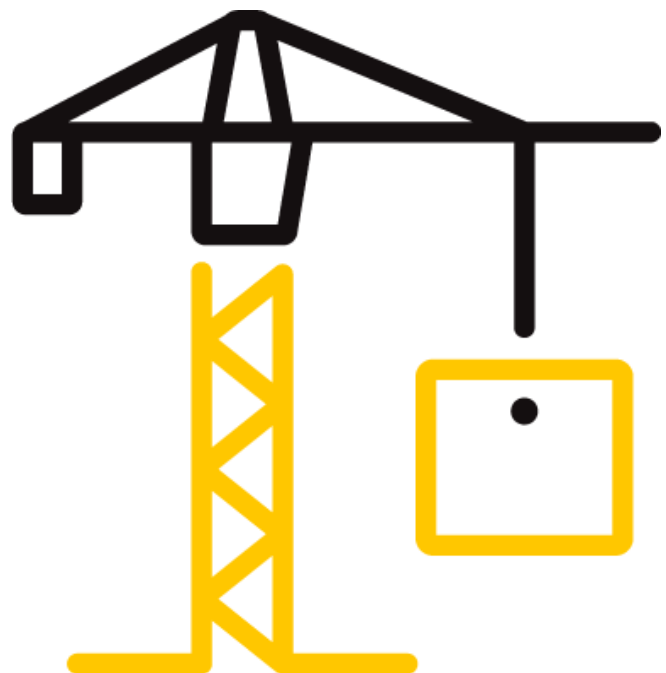
**PAGES**

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**DOCUMENT CONTROL NUMBER**

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

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## TEST REPORT FOR WOODBRID LLC

Report No.: M3399.01-109-18

Date: 12/02/21

### REPORT ISSUED TO

#### WOODBRID LLC

2933 Rosa Avenue  
El Paso, Texas 79905

### SECTION 1

#### SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Woodbrid LLC to perform testing in accordance with TAS 202 and TAS 203 on their Woodbrid, composite 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.

### SECTION 2

#### SUMMARY OF TEST RESULTS

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

**Design Pressure:** -56.67 psf

**Overload Test Pressure:** -85.00 psf

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Richard E. Hartman III	<b>REVIEWED BY:</b>	Vinu J. Abraham, P.E.
<b>TITLE:</b>	Technician – Product Testing	<b>TITLE:</b>	Vice President – Products Building & Construction
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	12/02/21	<b>DATE:</b>	12/02/21

REH:nls

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**SECTION 3****TEST METHOD(S)**

The specimens 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) was 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 specimens were installed onto a test wall measuring 8' wide by 10' high constructed from Spruce-Pine-Fir nominal 2x6 lumber. Five studs were spaced 16" on center (six spans) and were attached to the top and bottom plates with 3" long flat head screws. A sheet of nominal 5/8" thick 5-ply plywood, with eight 4" diameter holes to allow pressure to transfer to the siding, was secured to the studs with #8 x 1-5/8" flat head screws. Silicone was utilized on the backside of the test wall to seal the perimeter. A 2 mil thick plastic film was loosely draped over the interior of the siding to enable attainment of pressure.

The siding was pre-drilled with a 1/8" diameter drill bit and mounted with 1/8" shank diameter, 7/16" head, 1-3/4" long roofing nails spaced 16" on center through the sheathing and into the studs.

**SECTION 5****EQUIPMENT**

**Cycling Mechanism:** Computer controlled centrifugal blower with electronic pressure measuring device, 005644

**Deflection Measuring Device:** Linear transducers, 003439, 64461, 64325, 62182, 003625, 003624, 64280, 64278, 64306

**Tape Measure Verification:** 63788

**Weather Station:** 63316

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### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Timothy J. McGill	Intertek B&C
Daniel C. Culbert, P.E.	Intertek B&C
Vinu J. Abraham, P.E.	Intertek B&C
Richard E. Hartman III	Intertek B&C

### SECTION 7

#### TEST SPECIMEN DESCRIPTION

**Product Type:** Composite Siding

**Series/Model:** Woodbrid

#### Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT	
2.1 m <sup>2</sup> (22.3 ft <sup>2</sup> )	millimeters	inches	millimeters	inches
Overall size	2438	96	851	33-1/2
Panel size	2438	96	165	6-1/2

#### Test Specimen Construction:

The test specimens consisted of five courses installed horizontally with a male interlock at the top and a female interlock at the bottom of each panel. Each panel was constructed from a polyethylene composite material measuring 0.180" thick.

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### SECTION 8

#### TEST RESULTS

##### Protocol TAS 202-94, Static Air Pressure

**Test Date(s):** 5/18/21

The temperature during testing was 19°C (66°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
-50.00 50% of Test Pressure	1	0.52	N/A	0.06	N/A
	2	0.53	N/A	0.07	N/A
	3	0.48	N/A	0.07	N/A
-60.00 Design Pressure	1	0.69	N/A	0.07	N/A
	2	0.69	N/A	0.08	N/A
	3	0.62	N/A	0.07	N/A

**Note:** The -50.00 psf (50% of Test Pressure) was used as the closest and greater than pressure for the representative deflections for the -42.50 (50% of Test Pressure). The -60.00 psf (Design Pressure) was used as the closest to and greater than pressure for the representative deflections for the -56.67 psf (Design Pressure). The -42.50 (50% of Test Pressure) and -56.67 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
-50.00 50% of Test Pressure	1	0.61	N/A	0.06	N/A
	2	0.61	N/A	0.07	N/A
	3	0.57	N/A	0.06	N/A
-60.00 Design Pressure	1	0.80	N/A	0.07	N/A
	2	0.79	N/A	0.07	N/A
	3	0.73	N/A	0.08	N/A

**Note:** The -50.00 psf (50% of Test Pressure) was used as the closest and greater than pressure for the representative deflections for the -42.50 (50% of Test Pressure). The -60.00 psf (Design Pressure) was used as the closest to and greater than pressure for the representative deflections for the -56.67 psf (Design Pressure). The -42.50 (50% of Test Pressure) and -56.67 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
-50.00 50% of Test Pressure	1	0.33	N/A	0.04	N/A
	2	0.33	N/A	0.04	N/A
	3	0.31	N/A	0.04	N/A
-60.00 Design Pressure	1	0.43	N/A	0.04	N/A
	2	0.43	N/A	0.05	N/A
	3	0.40	N/A	0.05	N/A

**Note:** The -50.00 psf (50% of Test Pressure) was used as the closest and greater than pressure for the representative deflections for the -42.50 (50% of Test Pressure). The -60.00 psf (Design Pressure) was used as the closest to and greater than pressure for the representative deflections for the -56.67 psf (Design Pressure). The -42.50 (50% of Test Pressure) and -56.67 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
-85.00 Test Pressure	1	1.23	N/A	0.15	N/A
	2	1.21	N/A	0.16	N/A
	3	1.08	N/A	0.14	N/A

**Test Specimen #2: Structural Overload Load per TAS 202**

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-85.00 Test Pressure	1	1.33	N/A	0.12	N/A
	2	1.32	N/A	0.14	N/A
	3	1.22	N/A	0.13	N/A

**Test Specimen #3: Structural Overload Load per TAS 202**

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
-85.00 Test Pressure	1	0.75	N/A	0.08	N/A
	2	0.73	N/A	0.09	N/A
	3	0.68	N/A	0.09	N/A

**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):** 5/18/21

The temperature during testing was 19°C (66°F). The results are tabulated as follows:

**Test Specimen #4, #5, and #6: Cyclic Test Spectrum and Average Cycle Time per TAS 203**

DESIGN PRESSURE	STAGE		
- 56.67 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 28.33	0 – 34.00	0 – 73.67
AVERAGE CYCLE TIME (sec.)	2.61	2.83	N/A
NUMBER OF CYCLES	600	70	1

**Test Specimen #4: Positive Cyclic Load per TAS 203**

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
1	0.05	0.03	40*	>90*

**Test Specimen #5: Positive Cyclic Load per TAS 203**

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
1	0.08	0.03	63*	>90*

**Test Specimen #6: Positive Cyclic Load per TAS 203**

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
1	0.03	0.01	67*	>90*

*\*Percent recovery of Test Specimens #4, #5, and #6 did not achieve deflection values large enough to create a relevant recovery percentage. These values are deemed acceptable in our opinion.*

**Note:**

*Test Specimens #4, #5, and #6 were cycled in a common chamber.*

*Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.*

*See Sketch #2 for indicator locations.*

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### SECTION 9

#### CONCLUSIONS

No signs of failure were observed in any area of the test specimens during the TAS 202 testing; as such, the test specimens satisfy 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.

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 ten 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.

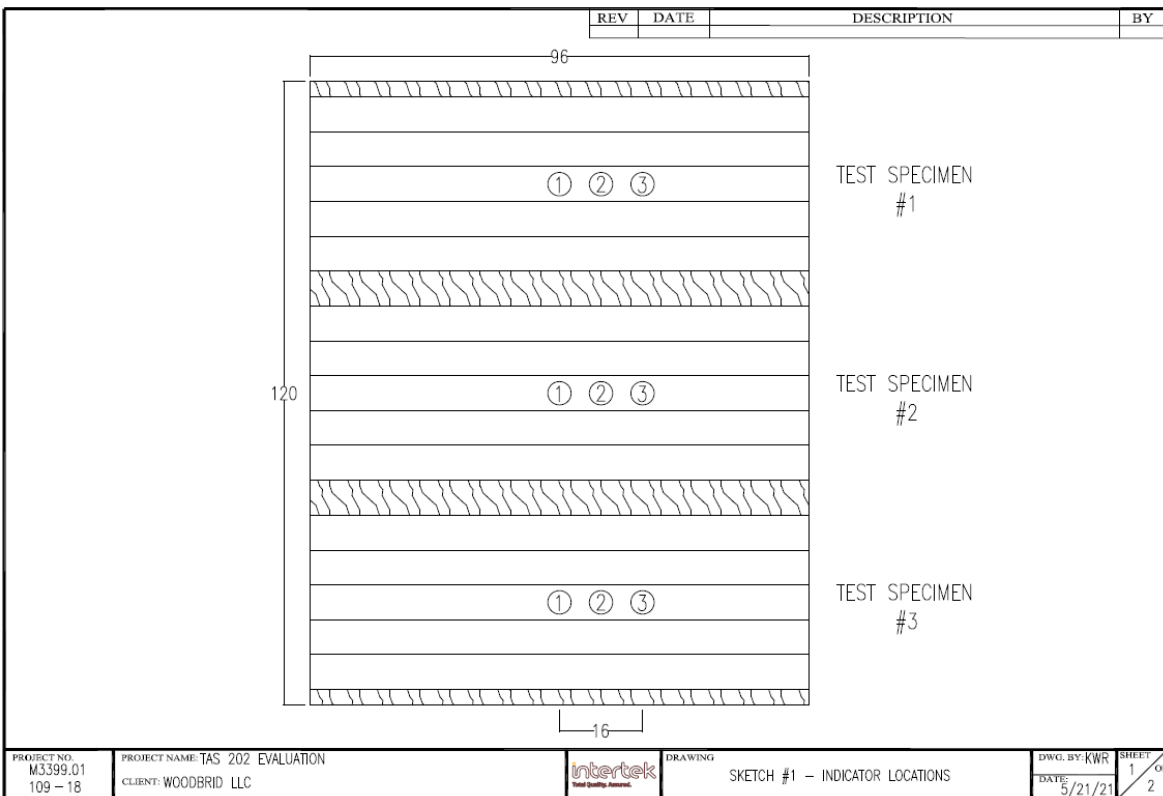


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### SECTION 10 SKETCH(ES)

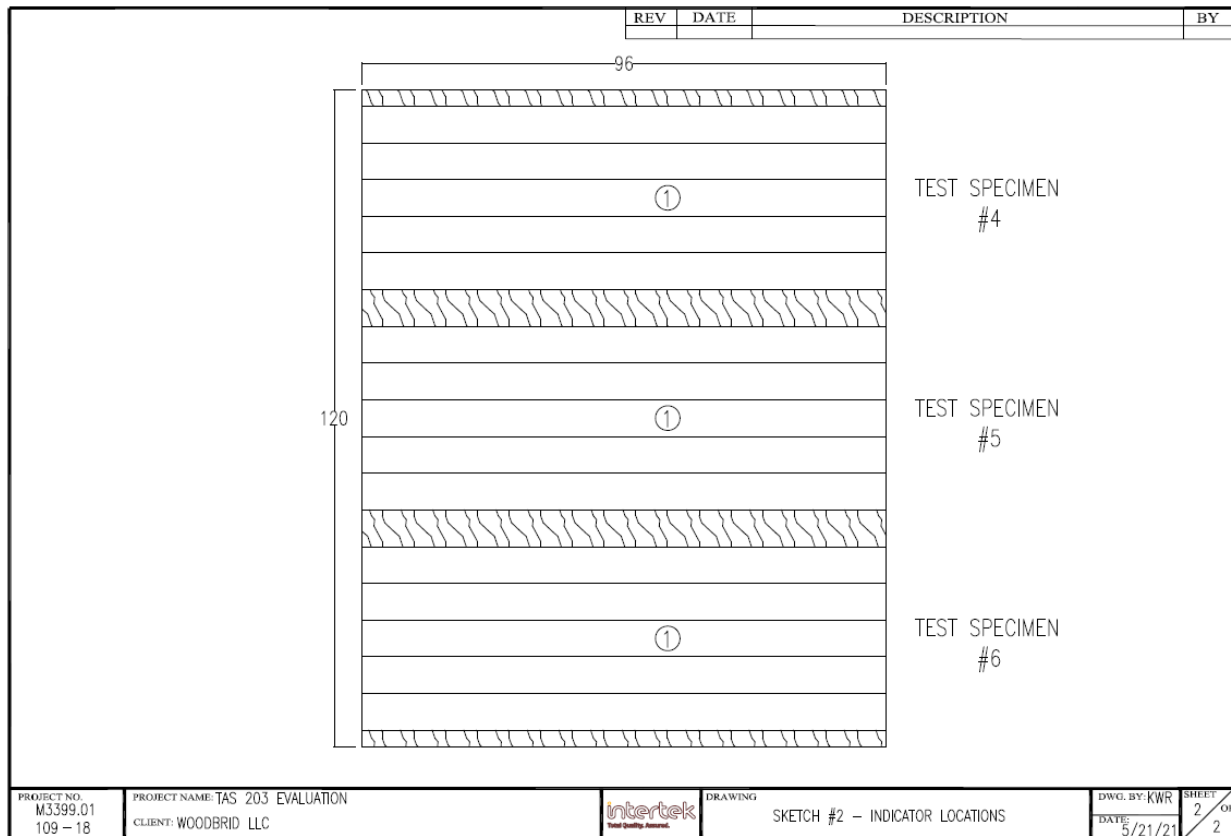


**Sketch No. 1**  
**TAS 202 and TAS 203 Indicator Locations**

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**Sketch No. 2**  
**TAS 202 and TAS 203 Indicator Locations**

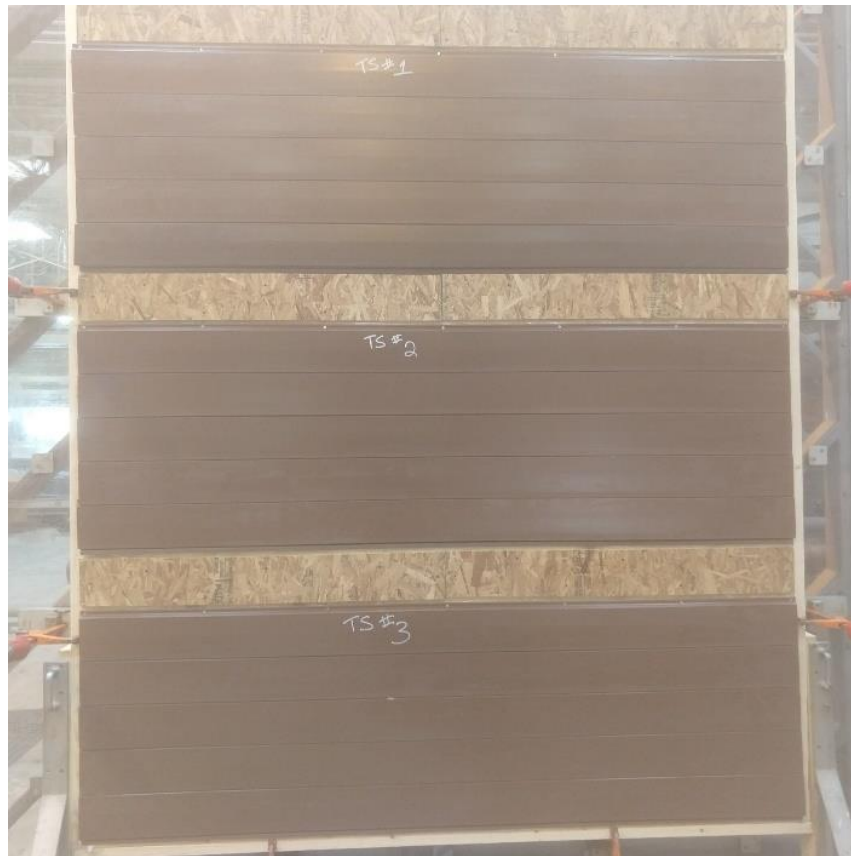
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### SECTION 11

#### PHOTOGRAPHS

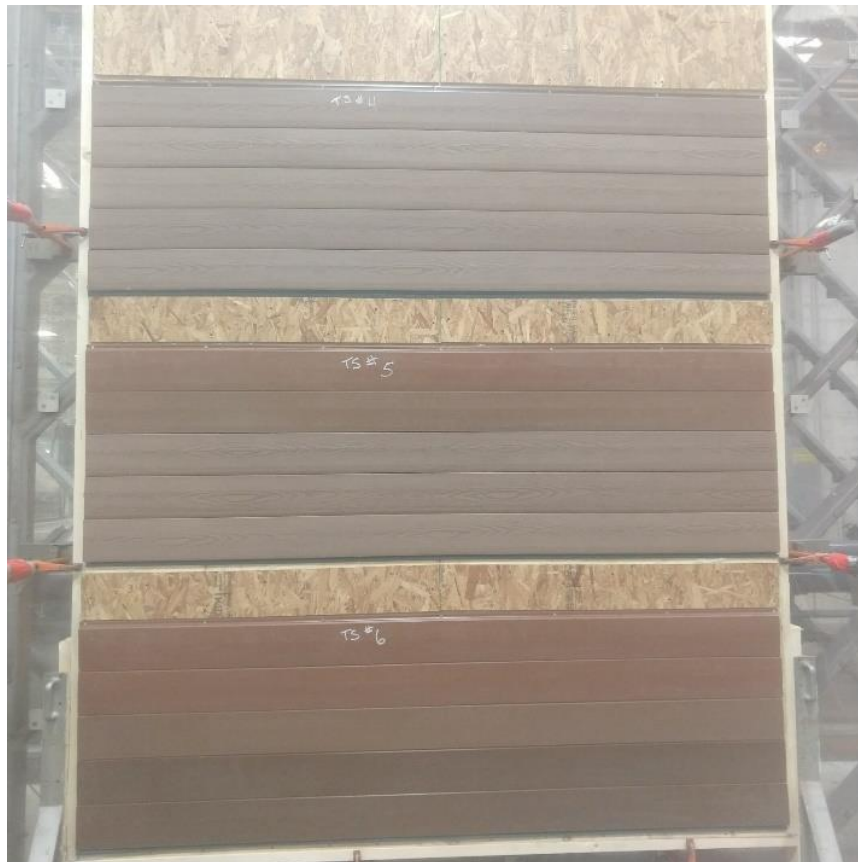


**Photo No. 1**  
**View of Test Specimens #1, #2, and #3**

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**Photo No. 2**  
**View of Test Specimens #4, #5, #6**



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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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### SECTION 13

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	12/02/21	N/A	Original Report Issue