

# MODERN MILL, INC FLORIDA BUILDING CODE TEST REPORT

## **SCOPE OF WORK**

TAS 202 AND TAS 203 TESTING ON 1 X 10 ACRE, SHIPLAP SIDING

# **REPORT NUMBER**

Q0775.01-109-18 R0

# TEST DATE(S)

07/26/23 - 08/02/23

# **ISSUE DATE**

09/21/23

# **RECORD RETENTION END DATE**

08/02/33

# MIAMI-DADE COUNTY NOTIFICATION NO.

ATI-23018

# LABORATORY CERTIFICATION NO.

22-0428.14

## **PAGES**

21

# **DOCUMENT CONTROL NUMBER**

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## TEST REPORT FOR MODERN MILL, INC

Report No.: Q0775.01-109-18 R0

Date: 09/21/23

#### **REPORT ISSUED TO**

# MODERN MILL, INC 1140 Frank Oakes Road McComb, Mississippi 39648

#### **SECTION 1**

## **SCOPE**

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Modern Mill, Inc to perform TAS 202 and TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone requirements on their 1 x 10 ACRE, shiplap 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.

**Product Type**: Shiplap Siding **Series/Model**: 1 x 10 ACRE

SPECIMEN	TEST PROTOCOL	DESIGN PRESSURE
1-3	TAS 202	-110.00 psf
4-6	TAS 203	-110.00 psf
7-9	TAS 202	-100.00 psf
10-12	TAS 203	-100.00 psf

#### For INTERTEK B&C:

COMPLETED BY:	Ken R. Stough	<b>REVIEWED BY:</b>	Tanya A. Dolby, P.E.
	Project Manager –		Manager –
TITLE:	Product Testing	TITLE:	Engineering Services
SIGNATURE:		SIGNATURE:	
DATE:	09/21/23	DATE:	09/21/23
MCG:hsm			

MCG:bsm

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## **TEST REPORT FOR MODERN MILL, INC**

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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 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.

Test specimens were installed onto a Spruce-Pine-Fir wood test wall. Installation of the tested product was performed by Intertek B&C.

## **SECTION 5**

# **EQUIPMENT**

Weather Station: 63316

**Tape Measure Verification**: 63788

**Blower**: 004869

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring

device - 005644

Deflection Measuring Device: Linear transducers – 64278, 003439, Y003056, 62185, 64367,

INTO3251, 64460, 62182, 64368, INTO3249, INTO3248, 64306, INTO3252

#### **SECTION 6**

#### **LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Ken R. Stough	Intertek B&C
Tanya A. Dolby, P.E.	Intertek B&C
Melchor C. George	Intertek B&C



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## TEST REPORT FOR MODERN MILL, INC

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#### **SECTION 7**

#### **TEST SPECIMEN DESCRIPTION**

**Product Type**: Shiplap Siding **Series/Model**: 1 x 10 ACRE

**Product Size(s)**: Test Specimens #1 - #6 (Horizontal Installation)

OVERALL AREA:	WIDTH		HEIG	нт
2.6 m <sup>2</sup> (28.1 ft <sup>2</sup> )	millimeters	inches	millimeters	inches
Overall size	2432	95-3/4	1073	42-1/4
Panel size (5)	2432	95-3/4	233	9-3/16

**Product Size(s)**: Test Specimens #7 - #12 (Vertical Installation)

OVERALL AREA:	WIDTI	н	HEIG	нт
2.6 m <sup>2</sup> (28.2 ft <sup>2</sup> )	millimeters	inches	millimeters	inches
Overall size	1076	42-3/8	2432	95-3/4
Panel size (5)	233	9-3/16	2432	95-3/4

# **Test Wall Description**: Test Specimens #1- #6 (Horizontal Installation)

The specimen was installed onto a test wall measuring 8'0" wide by 13'4" high constructed of #2 Spruce-Pine Fir nominal 2x4 lumber. Five studs were spaced 16" on center (six spans) and were attached to the top and bottom plates with 3" long drywall screws. A sheet of nominal 5/8" thick 5-ply plywood, with six 4" diameter holes to allow pressure to transfer to the siding, was secured to the studs with #8 x 1-5/8" drywall screws. The stud to plate connection was reinforced with 3" wide by 1-1/2" high by 4-3/4" long by 5/16" thick aluminum angles secured with #8 x 1-5/8" drywall screws. Silicone was utilized on the backside of the test panel 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 mounted with 2-1/2" x 0.099 ring shank siding nails, spaced 16" on center, through the nail hem, sheathing and into the studs.

# **Test Specimen Description**: Test Specimens #1 - #6 (Horizontal Installation)

Each specimen consisted of five horizontal courses of siding with a female interlock on the bottom and a male interlock on the top. Each course consisted of a panel that was 3/4" thick and composed of compressed rice husk.

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# **Test Wall Description**: Test Specimens #7- #12 (Vertical Installation)

The specimen was installed onto a test wall measuring 12' 0-1/2" wide by 8' 0" high constructed of #2 Spruce-Pine Fir nominal 2x4 lumber. Eight studs were spaced 16" on center (nine spans) and were attached to the top and bottom plates with 3" long drywall screws. A sheet of nominal 5/8" thick 5-ply plywood, with six 4" diameter holes to allow pressure to transfer to the siding, was secured to the studs with #8 x 1-5/8" drywall screws. The stud to plate connection was reinforced with 3" wide by 1-1/2" high by 4-3/4" long by 5/16" thick aluminum angles secured with #8 x 1-5/8" drywall screws. Silicone was utilized on the backside of the test panel 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 mounted with 2-1/2" x 0.099 ring shank siding nails, spaced 12" on center, through the nail hem, and face of the siding into the sheathing.

# Test Specimen Description: Test Specimens #7 - #12 (Vertical Installation)

Each specimen consisted of five vertical courses of siding with a female interlock on the right side and a male interlock on the left side. Each course consisted of a panel that was 3/4" thick and composed of compressed rice husk.

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# **TEST REPORT FOR MODERN MILL, INC**

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#### **SECTION 8**

## **TEST RESULTS**

# Protocol TAS 202-94, Static Air Pressure

Test Date(s): 07/26/23

The temperature range during testing was 24°C (75°F). The results are tabulated as follows:

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

INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-82.50 psf	MEASURED	ALLOWED	at -82.50 psf	MEASURED	ALLOWED
1	1.18			0.15		
2	1.32	0.06	N/A	0.16	0.01	N/A
3	1.34			0.15		
		DEFLECTION (in.)				
INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
INDICATOR LOCATION	Deflection at -110.00 psf	DEFLECTION MEASURED	ON (in.) ALLOWED	Permanent Set at -110.00 psf	PERMANEN MEASURED	T SET (in.) ALLOWED
			<del>_ ` <i>'</i> </del>			
	-110.00 psf		<del>_ ` <i>'</i> </del>	at -110.00 psf		

Test Specimen #1: Structural Overload Load per TAS 202

INDICATOR	Deflection at	DEFLECTION (in.)		Permanent Set	PERMANEN	T SET (in.)
LOCATION	-165.00 psf	MEASURED	ALLOWED	at -165.00 psf	MEASURED	ALLOWED
1	3.26			0.46		
2	3.64	0.15	N/A	0.48	0.05	0.06
3	3.73			0.40		

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

INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-82.50 psf	MEASURED	ALLOWED	at -82.50 psf	MEASURED	ALLOWED
1	1.35			0.12		
2	1.53	0.06	N/A	0.15	0.02	N/A
3	1.60			0.15		
INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-110.00 psf	MEASURED	ALLOWED	at -110.00 psf	MEASURED	ALLOWED
1	2.04			0.20		
2	2.31	0.08	0.09	0.22	0.01	N/A

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# **TEST REPORT FOR MODERN MILL, INC**

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

INDICATOR	Deflection at	DEFLECTION (in.)		Permanent Set	PERMANEN	T SET (in.)
LOCATION	-165.00 psf	MEASURED	ALLOWED	at -165.00 psf	MEASURED	ALLOWED
1	3.59			0.35		
2	4.07	0.12	N/A	0.42	0.02	0.06
3	4.32			0.46		

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

INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-82.50 psf	MEASURED	ALLOWED	at -82.50 psf	MEASURED	ALLOWED
1	0.70			80.0		
2	0.80	0.05	N/A	0.09	0.01	N/A
3	0.81			0.09		
INDICATOR	Deflection at	DEFLECTION (in.)		Permanent Set	PERMANENT SET (in.)	
	Denestion at		• • • • • • • • • • • • • • • • • • • •			
LOCATION	-110.00 psf	MEASURED	ALLOWED	at -110.00 psf	MEASURED	ALLOWED
LOCATION 1			_ ` _			
LOCATION  1 2	-110.00 psf		_ ` _	at -110.00 psf		• •

Test Specimen #3: Structural Overload Load per TAS 202

INDICATOR	Deflection at	DEFLECTION (in.)		Permanent Set	PERMANEN	T SET (in.)
LOCATION	-165.00 psf	MEASURED	ALLOWED	at -165.00 psf	MEASURED	ALLOWED
1	1.93			0.29		
2	2.25	0.15	N/A	0.36	0.05	0.06
3	2.27			0.34		

**Note 1:** 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 Specimens #1, #2, and #3 were tested in a common chamber.

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# **TEST REPORT FOR MODERN MILL, INC**

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Date: 09/21/23

# Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Date(s): 07/28/23

The temperature during testing was 28°C (83°F). The results are tabulated as follows:

# Test Specimen #4: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE (psf)	STAGE				
-110.00	1	2	3		
NEGATIVE PRESSURE RANGE (psf)	0 – 55.0	0 – 66.0	0 – 143.0		
AVERAGE CYCLE TIME (sec.)	2.57	2.92	N/A		
NUMBER OF CYCLES	600	70	1		

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

INDICATOR	MAXIMUM	PERMANENT	PERCENT	RECOVERY
LOCATION	DEFLECTION (in.)	SET (in.)	MEASURED %	ALLOWED %
1-3	0.080	0.005	94	>90

# Test Specimen #5: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE (psf)	STAGE				
- 110.00	1	2	3		
NEGATIVE PRESSURE RANGE (psf)	0 – 55.0	0 – 66.0	0 – 143.0		
AVERAGE CYCLE TIME (sec.)	2.57	2.92	N/A		
NUMBER OF CYCLES	600	70	1		

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

INDICATOR	MAXIMUM	PERMANENT	PERCENT	RECOVERY
LOCATION	DEFLECTION (in.)	SET (in.)	MEASURED %	ALLOWED %
1-3	0.130	0.005	96	>90

# Test Specimen #6: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE (psf)	STAGE				
-110.00	1	2	3		
NEGATIVE PRESSURE RANGE (psf)	0 – 55.0	0 – 66.0	0 – 143.0		
AVERAGE CYCLE TIME (sec.)	2.57	2.92	N/A		
NUMBER OF CYCLES	600	70	1		

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Test Specimen #6: Positive Cyclic Load per TAS 203

INDICATOR	MAXIMUM	PERMANENT	PERCENT RECOVERY	
LOCATION	DEFLECTION (in.)	SET (in.)	MEASURED %	ALLOWED %
1-3	0.095	0.010	89	>90

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

**General Note:** Florida Building Code Section 1625.4 Fatigue load testing states "Assemblies shall be tested with no resultant failure or distress and shall have a recovery of at least 90 percent over maximum deflection". In cases where cladding assemblies experience very small deflections, less than 0.100", while testing, accurately measuring permanent set is beyond the capability of the measuring equipment. Permanent set will be stated with the highest accuracy possible allowed by the measuring equipment but may not meet the 90 percent recovery. For those cases, consideration should be given to the fact that the deflections and permanent set are so small as to be irrelevant and should not be considered a failure.

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

**Test Date(s)**: 08/02/23

The temperature range during testing was 22°C (71°F). The results are tabulated as follows:

**Test Specimen #7**: Preload and Design Load per TAS 202

INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-75.00 psf	MEASURED	ALLOWED	at -75.00 psf	MEASURED	ALLOWED
1	0.34			0.03		
2	0.33	0.01	N/A	0.04	0.01	N/A
3	0.31			0.03		
INDICATOR	Deflection at	DEFLECTI	ONI (im )	Dawnson and Cat		T CET /: \
INDICATOR	Deflection at	DEFLECTI	ON (In.)	Permanent Set	PERMANEN	i SEI (in.)
LOCATION	-100.00 psf	MEASURED	ALLOWED	at -100.00 psf	MEASURED	ALLOWED
			<del>, ' ' '</del>			
	-100.00 psf		<del>, ' ' '</del>	at -100.00 psf		

Test Specimen #7: Structural Overload Load per TAS 202

INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-150.00 psf	MEASURED	ALLOWED	at -150.00 psf	MEASURED	ALLOWED
1	0.96			0.09		
2	0.94	0.01	N/A	0.09	<0.01	0.05
3	0.90			0.09		

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# TEST REPORT FOR MODERN MILL, INC

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Test Specimen #8: Preload and Design Load per TAS 202

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INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-75.00 psf	MEASURED	ALLOWED	at -75.00 psf	MEASURED	ALLOWED
1	0.35			0.03		
2	0.36	0.01	N/A	0.03	<0.01	N/A
3	0.35			0.03		
INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
INDICATOR LOCATION	Deflection at -100.00 psf	DEFLECTION MEASURED	ON (in.) ALLOWED	Permanent Set at -100.00 psf	PERMANEN MEASURED	T SET (in.) ALLOWED
	-100.00 psf			at -100.00 psf		

**Test Specimen #8**: Structural Overload Load per TAS 202

INDICATOR	Deflection at	DEFLECTION (in.)		Permanent Set	PERMANEN	T SET (in.)
LOCATION	-150.00 psf	MEASURED	ALLOWED	at -150.00 psf	MEASURED	ALLOWED
1	1.06			0.08		
2	1.05	0.01	N/A	0.08	<0.01	0.05
3	1.02			0.08		

Test Specimen #9: Preload and Design Load per TAS 202

INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SET (in.)
LOCATION	-75.00 psf	MEASURED	ALLOWED	at -75.00 psf	MEASURED	ALLOWED
1	0.26			0.04		
2	0.26	0.01	N/A	0.03	0.01	N/A
3	0.24			0.03		
INDICATOR	Deflection at	DEFLECTI	ON (in.)	Permanent Set	PERMANEN	T SFT (in.)
			- 1			1 021 ()
LOCATION	-100.00 psf	MEASURED	ALLOWED	at -100.00 psf	MEASURED	ALLOWED
LOCATION 1	<b>-100.00 psf</b> 0.40	MEASURED	_ ` '			<u> </u>
LOCATION  1 2	•	MEASURED 0.01	_ ` '	at -100.00 psf		<u> </u>

**Test Specimen #9**: Structural Overload Load per TAS 202

INDICATOR	Deflection at	DEFLECTION (in.)		Permanent Set	PERMANEN	T SET (in.)
LOCATION	-150.00 psf	MEASURED	ALLOWED	at -150.00 psf	MEASURED	ALLOWED
1	0.76			0.08		
2	0.76	0.02	N/A	0.07	0.01	0.05
3	0.72			0.07		

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**Note 5:** Negative uniform static load test loads were held for 30 seconds.

**Note 6:** 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 7:** See Sketch #2 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement. Test Specimens #7, #8, and #9 were tested in a common chamber.

# Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Date(s): 08/02/23

The temperature during testing was 24°C (76°F). The results are tabulated as follows:

Test Specimen #10: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE (psf)	STAGE				
-100.00	1	2	3		
NEGATIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0		
AVERAGE CYCLE TIME (sec.)	2.62	2.92	N/A		
NUMBER OF CYCLES	600	70	1		

## **Test Specimen #10**: Positive Cyclic Load per TAS 203

INDICATOR	MAXIMUM	PERMANENT	PERCENT	RECOVERY
LOCATION	DEFLECTION (in.)	SET (in.)	MEASURED %	ALLOWED %
1-3	0.015	0.005	67	>90

#### Test Specimen #11: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE (psf)	STAGE		
- 100.00	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0
AVERAGE CYCLE TIME (sec.)	2.62	2.92	N/A
NUMBER OF CYCLES	600	70	1

# Test Specimen #11: Positive Cyclic Load per TAS 203

INDICATOR	MAXIMUM	PERMANENT	PERCENT	RECOVERY
LOCATION	DEFLECTION (in.)	SET (in.)	MEASURED %	ALLOWED %
1-3	0.015	<0.01	>99	>90



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Test Specimen #12: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE (psf)	STAGE		
-100.00	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 50.0	0 – 60.0	0 – 130.0
AVERAGE CYCLE TIME (sec.)	2.62	2.92	N/A
NUMBER OF CYCLES	600	70	1

Test Specimen #12: Positive Cyclic Load per TAS 203

INDICATOR	MAXIMUM	PERMANENT	PERCENT	RECOVERY
LOCATION	DEFLECTION (in.)	SET (in.)	MEASURED %	ALLOWED %
1-3	0.005	<0.01	>99	>90

**Note 8:** See Sketch #2 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement. Test Specimens #10, #11, and #12 were cycled in a common chamber.

**General Note**: Florida Building Code Section 1625.4 Fatigue load testing states "Assemblies shall be tested with no resultant failure or distress and shall have a recovery of at least 90 percent over maximum deflection". In cases where cladding assemblies experience very small deflections, less than 0.100", while testing, accurately measuring permanent set is beyond the capability of the measuring equipment. Permanent set will be stated with the highest accuracy possible allowed by the measuring equipment but may not meet the 90 percent recovery. For those cases, consideration should be given to the fact that the deflections and permanent set are so small as to be irrelevant and should not be considered a failure.

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## TEST REPORT FOR MODERN MILL, INC

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#### **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.

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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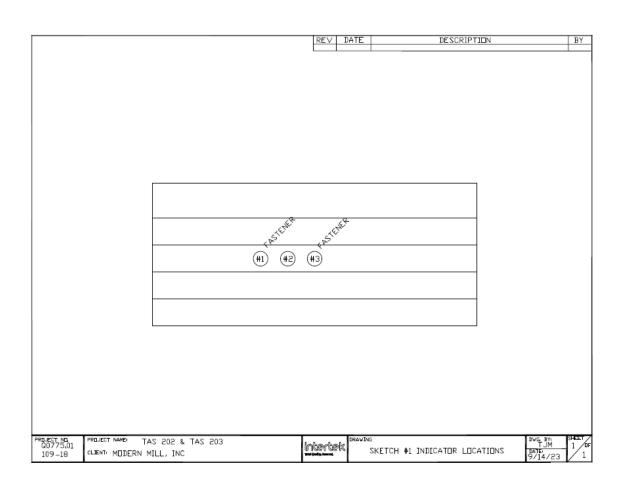
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SECTION 10 SKETCHES



Sketch No. 1
TAS 202 Horizontal Orientation Indicator Locations

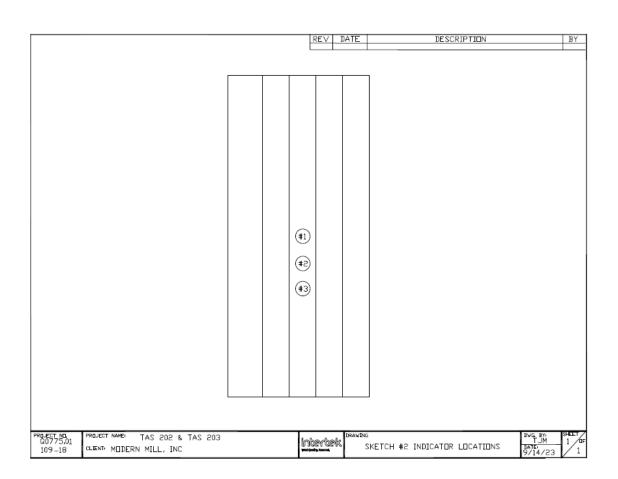


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Sketch No. 2
TAS 202 Vertical Orientation Indicator Locations



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# **SECTION 11**

## **PHOTOGRAPHS**

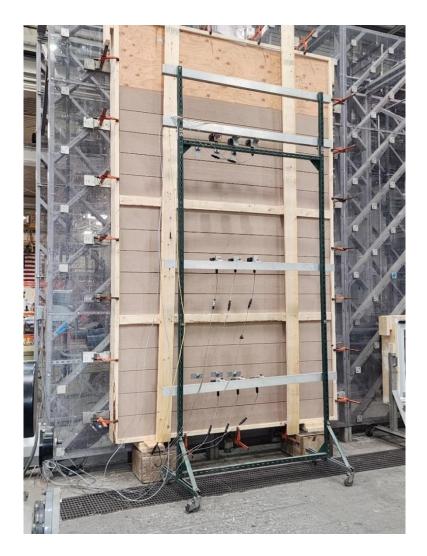


Photo No. 1 Horizontal TAS 202 Specimens 1-3



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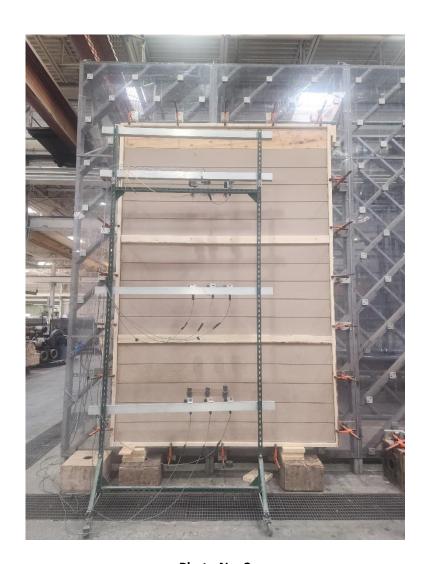


Photo No. 2 Horizontal TAS 203 Specimens 4-6



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Photo No. 3 Vertical TAS 202 Specimens 7-9



Photo No. 4 Vertical TAS 203 Specimens 10-12



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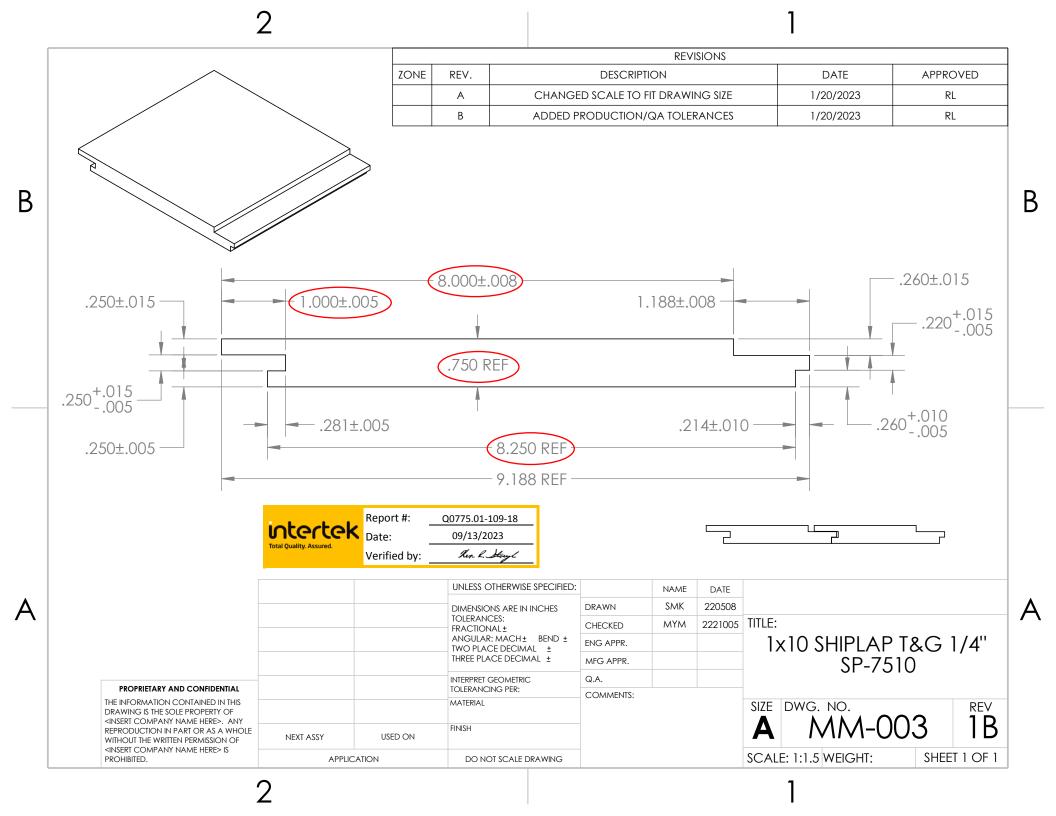
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## **SECTION 12**

## **DRAWING**

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

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# **SECTION 13**

# **REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	09/21/23	N/A	Original Report Issue