

# WOOD HAVEN INC.

## MIAMI-DADE TEST REPORT

**SCOPE OF WORK**

TAS 202, AND ASTM 330 TESTING ON IPE AND DOUGLAS FIR  
WOOD PANEL SYSTEMS

**REPORT NUMBER**

N0461.02-801-18 R1

**TEST DATE(S)**

12/29/21

**ISSUE DATE**

02/03/22

**REVISION DATE**

2/25/22

**RECORD RETENTION END DATE**

12/29/31

**MIAMI-DADE COUNTY NOTIFICATION NO.**

ATI TX1132101

**LABORATORY CERTIFICATION NO.**

20-0831.13

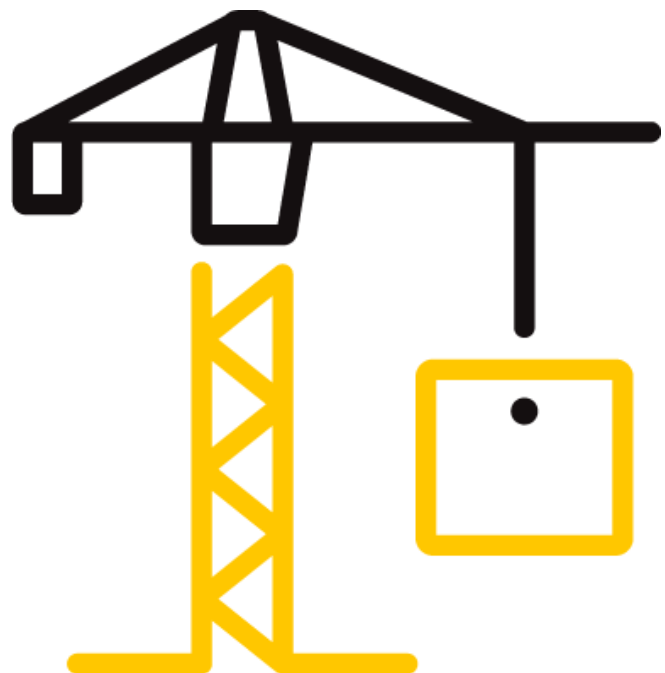
**PAGES**

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**DOCUMENT CONTROL NUMBER**

RT-R-AMER-Test-2816 (10/11/21)

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## TEST REPORT FOR WOOD HAVEN INC.

Report No.: N0461.02-801-18 R1

Date: 02/03/22

### REPORT ISSUED TO

#### WOOD HAVEN INC.

401 W. Bridge St.  
Perry, KS 66073

### SECTION 1

#### SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Wood Haven, Inc. to perform TAS 202 and ASTM E330 testing in accordance with Miami-Dade County requirements on their IPE and Douglas Fir Wood Panel Systems. 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 Plano, TX. 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 tested met the performance requirements set forth in the protocols.

**Product Type:** Wood Panel

**Series/Model:** IPE and Douglas Fir Wood Panel System

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
1	TAS 202	+90 / -90 psf
2	TAS 202	+90 / -90 psf

For INTERTEK B&C:

**COMPLETED BY:** Jeffrey Crump, FMPC  
Laboratory Manager –  
**TITLE:** Building & Construction  
**SIGNATURE:**  
**DATE:** 02/25/22

**REVIEWED BY:** Tyler Westerling, P.E.  
**TITLE:** Operations Manager  
**SIGNATURE:**  
**DATE:** 02/25/22

JC:cm

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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*

**ASTM E330/E330M-14**, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Test specimen 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 specimen was installed onto 2 x 4 studs with 5/8" OSB Barrier Wall attached to studs, surrounded by 2 x 10 yellow pine test buck. The rough opening allowed for a 1/8" shim space. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
2" x 4" pine studs run vertically 16"	5/8" OSB waterproof/vapor barrier wall is attached to vertical pine studs with #8 x 1-1/2" coarse screws	2" from each end and 16" O.C.
Aluminum start rails	Aluminum start rails are attached to OSB and studs with #8 x 1-1/2" coarse screws	1-1/4" from each end and 2-1/2" O.C. vertically and 16" O.C. horizontally
High impact Grad Clip™	Clips run vertically along start rails	Each horizontal IPE and Douglas Fir panel snaps onto two Grad Clips™ at each vertical member

### SECTION 5

#### EQUIPMENT

**Deflection Measuring Device:** 1" dial indicators

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**SECTION 6**

**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Jeffrey Crump	Intertek B&C

**SECTION 7**

**TEST SPECIMEN DESCRIPTION**

**Product Type:** Wood Panel

**Series/Model:** IPE and Douglas Fir Wood Panel Systems

**Test Specimen #1-2**

**Product Size(s):**

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
2.98 m <sup>2</sup> (32.0 ft <sup>2</sup> )				
Overall Size	1219	48	2438	96
Panel (18)	1219	48	140	5-1/2

**Reinforcement:** *No reinforcement was utilized.*

**Weatherstripping:** *No weatherstripping was utilized.*

**Glazing:** *No glass Or glazing was utilized.*

**Drainage:** *No drainage was utilized.*

**Hardware:** *No hardware was utilized.*

**SECTION 8**

**TEST RESULTS**

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

**Test Date(s):** 12/29/21

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

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

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+67.50 50% of Test Pressure	1	.01	N/A	.00	N/A
	2	.01	N/A	.00	N/A
	3	.02	N/A	.00	N/A
	4	.00	N/A	.00	N/A
	5	.00	N/A	.00	N/A
	6	.00	N/A	.00	N/A
+90.00 Design Pressure	1	.02		.00	
	2	.01	.09	.00	.032
	3	.02		.00	
	4	.01		.00	
	5	.01	.55	.00	.19
	6	.01		.00	
-67.50 50% of Test Pressure	1	.02	N/A	.00	N/A
	2	.02	N/A	.00	N/A
	3	.03	N/A	.00	N/A
	4	.01	N/A	.00	N/A
	5	.01	N/A	.00	N/A
	6	.01	N/A	.00	N/A
-90.0 Design Pressure	1	.03		.00	
	2	.04	.09	.00	.032
	3	.04		.01	
	4	.02		.00	
	5	.03	.55	.00	.19
	6	.01		.00	
LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
+135.00 Test Pressure	1	.08	N/A	.01	
	2	.08	N/A	.02	.032
	3	.09	N/A	.02	
	4	.03	N/A	.02	
	5	.05	N/A	.03	.19
	6	.08	N/A	.02	
-135.00 Test Pressure	1	.11	N/A	.03	
	2	.12	N/A	.04	.032
	3	.10	N/A	.04	
	4	.08	N/A	.05	
	5	.09	N/A	.05	.19
	6	.09	N/A	.06	

**TEST REPORT FOR WOOD HAVEN INC.**

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**Test Specimen #1 Douglas Fir Panel: Preload and Design Load per TAS 202**

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+67.50 50% of Test Pressure	1	.01	N/A	.00	N/A
	2	.00	N/A	.00	N/A
	3	.00	N/A	.00	N/A
	4	.00	N/A	.00	N/A
	5	.00	N/A	.00	N/A
	6	.00	N/A	.00	N/A
+90.00 Design Pressure	1	.01		.00	
	2	.01	.09	.00	.032
	3	.01		.00	
	4	.01		.00	
	5	.00	.55	.00	.19
	6	.02		.00	
-67.50 50% of Test Pressure	1	.02	N/A	.00	N/A
	2	.01	N/A	.00	N/A
	3	.01	N/A	.00	N/A
	4	.01	N/A	.00	N/A
	5	.01	N/A	.00	N/A
	6	.01	N/A	.00	N/A
-90.0 Design Pressure	1	.02		.01	
	2	.01	.09	.01	.032
	3	.03		.01	
	4	.02		.01	
	5	.02	.55	.01	.19
	6	.03		.02	
LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+135.00 Test Pressure	1	.09	N/A	.02	
	2	.08	N/A	.02	.032
	3	.08	N/A	.03	
	4	.05	N/A	.02	
	5	.07	N/A	.02	.19
	6	.09	N/A	.02	
-135.00 Test Pressure	1	.09	N/A	.04	
	2	.09	N/A	.04	.032
	3	.10	N/A	.05	
	4	.12	N/A	.03	
	5	.12	N/A	.04	.19
	6	.11	N/A	.04	

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**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.*

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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.

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.



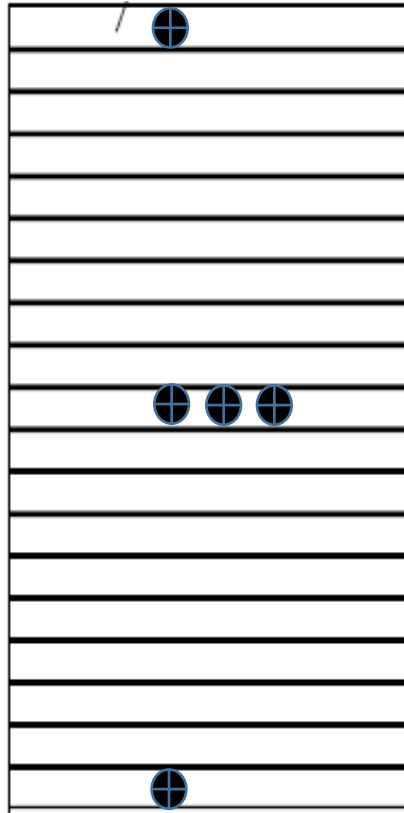
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### SECTION 10

### SKETCH(ES)



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

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**SECTION 11**  
**PHOTOGRAPHS**



**Photo No. 1**  
**IPE Wood Panel System**



**Photo No. 1**  
**Douglas Fir Panel System**



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Date: 02/03/22

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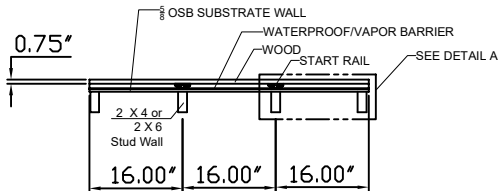
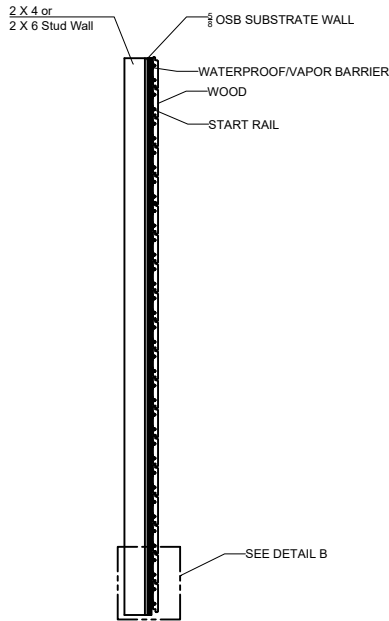
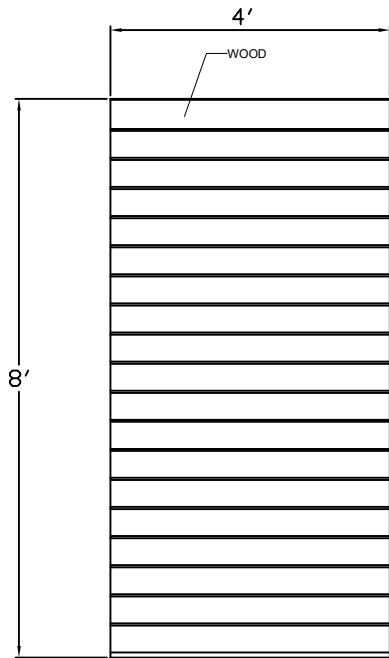
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**SECTION 12**

**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.

**Note:** *Complete drawings packet on file with Intertek B&C.*



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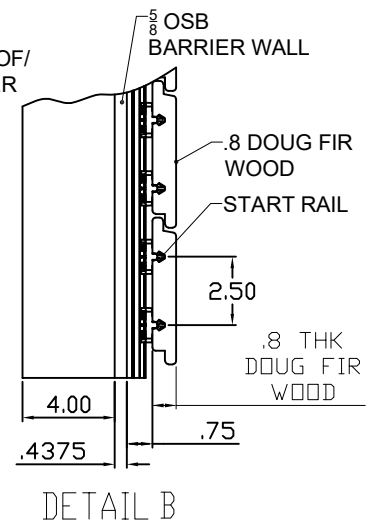
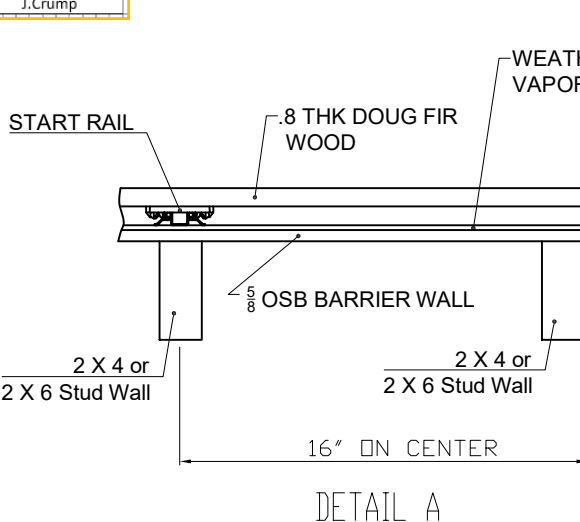
TITLE:  
**Grad Clip Installation  
Elevation Detail**

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SCALE: 1:1	WEIGHT:	SHEET 1 OF 2

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	Date:	02/23/22
	Verified by:	J.Crump



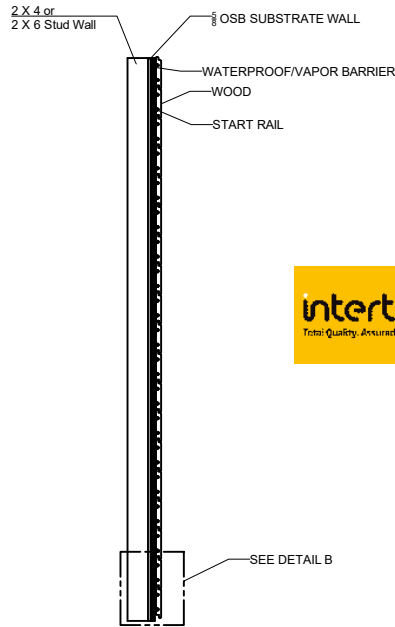
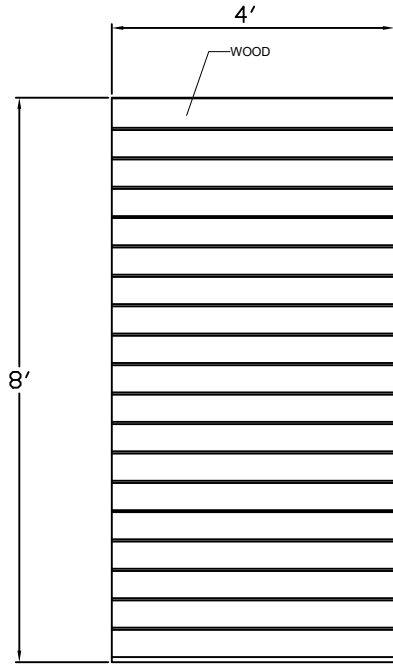
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TITLE:  
**Grad Clip Installation  
Cross Section Detail  
Doug Fir**

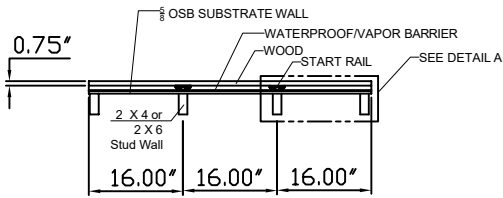
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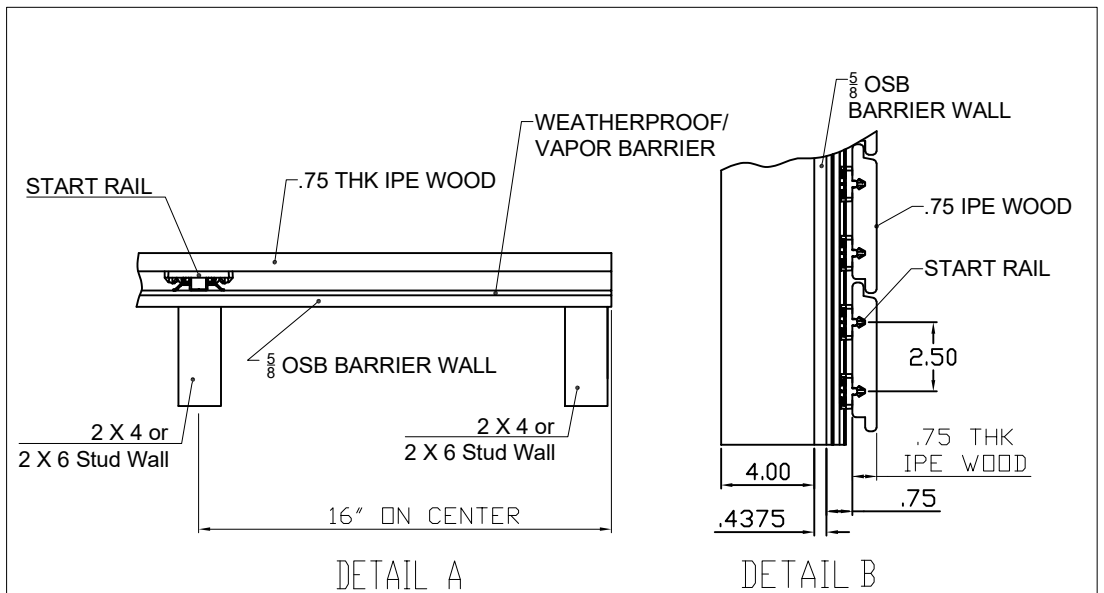
TITLE:  
**Grad Clip Installation  
Elevation Detail**

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5 4 3 2 1



DETAIL A

DETAIL B



401 W. Bridge Street - Perry, KS 66073

TITLE:  
**Grad Clip Installation  
Cross Section Detail IPE**

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**TEST REPORT FOR WOOD HAVEN INC.**

Report No.: N0461.02-801-18 R1

Date: 02/03/22

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**SECTION 13**  
**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	02/03/22	N/A	Original Report Issue
1	02/25/22	2	Cover, Corrected client name and Grad Clip™