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EVALUATION CENTER

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RENDERED TO

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PRODUCT EVALUATED: 16 in. Trusscore PVC Interlocking Panels
EVALUATION PROPERTY: Load Testing of Ceiling Panels

Report of 16 in. Trusscore PVC Interlocking Panels tested in accordance with the client's test specifications

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TEST REPORT

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2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted load testing on a PVC interlocking panel product for Domtek Inc. The testing was carried out in accordance with the client's test specifications. This evaluation was completed during the month of June 2012.

3 Test Samples

3.1. SAMPLE SELECTION

The client submitted the PVC interlocking panel product to the Evaluation Center on May 8, 2012. Samples were not independently selected for testing.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

The product was identified as the 16 in. Trusscore PVC Interlocking Panel. Trusscore is manufactured in 16 in. wide sections x 12 ft. and 16 ft. lengths.

4 Testing and Evaluation Methods

4.1. CONDITIONING

Unless otherwise stated, the sample materials were maintained in standard laboratory conditions for a minimum of 24 hours at a temperature of $73 \pm 4^{\circ}\text{F}$ ($23 \pm 2^{\circ}\text{C}$) and relative humidity of $50 \pm 5\%$.

4.2. LOAD TESTING OF CEILING PANELS

Load testing of ceiling panels was conducted in accordance with the client's test specifications. A test frame, measuring 4 ft. x 8 ft., was prepared for testing using nominal 2 in. x 6 in. SPF lumber. The frame was fastened using #10 x 3-1/2 in. construction screws. The Trusscore PVC Interlocking Panels were cut down to 4 ft. lengths and attached to the underside of the ceiling assembly using the supplied "J" trim and "H" dividers, which were attached using #8 x 1-3/4 in. screws at 8 in. o/c. The ceiling panels were held in place by the trim and fastened along the exposed edge using #8 x 1-3/4 in. screws at 8 in. o/c.

The top of the ceiling panels was loaded with various batt insulation loads for deflection measurements. The insulation was placed into the ceiling cavities until a uniform load of 1 lb/ft² and 2 lb/ft² was achieved. Fifteen (15) deflection gauges were mounted underneath the ceiling panels to measure the deformation; deflection gauges were mounted independently of the test frame. For the 2 lb/ft² test, the load was maintained on the test assembly for 16 hour duration, and measured for deflection again. Specific gauge locations can be found in Appendix A.



Figure 1. Test Assembly and Set-up

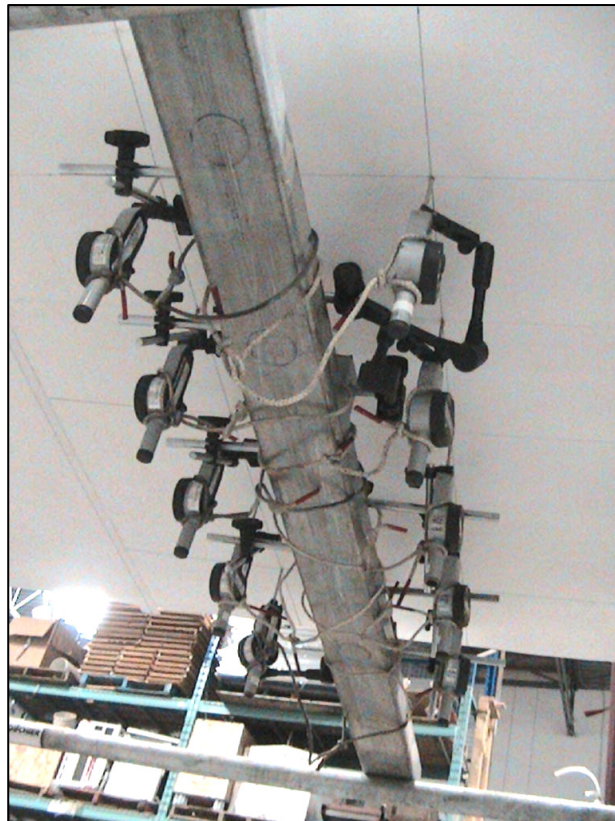


Figure 2. Deflection Measurement Apparatus

5 Testing and Evaluation Results


The test results for the Domtek Inc. product are shown in Table 1 below. A copy of the data sheets can be found in the Appendices.

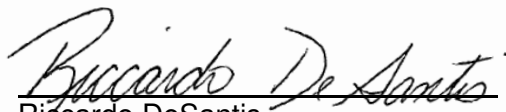
Table 1. Test Results			
Deflection Location	Deflection at 1 lb/ft²	Deflection at 2 lb/ft²	Deflection at 2 lb/ft² after 16 hours
	(mm)	(mm)	(mm)
1	1.62	2.82	3.05
2	2.51	4.94	5.33
3	2.19	5.81	6.42
4	2.54	5.86	6.47
5	1.49	3.53	3.89
6	1.89	3.69	4.02
7	3.31	6.60	7.28
8	3.65	7.58	8.36
9	3.21	7.54	8.30
10	1.94	6.42	5.07
11	1.37	2.69	2.90
12	2.35	4.71	5.14
13	2.54	5.32	5.80
14	2.36	5.47	5.93
15	1.41	3.34	3.58

6 Conclusion

The Domtek Inc. 16 in. Trusscore PVC Interlocking Panel product identified and evaluated in this report has been tested in accordance with the client's test specifications. The product test results are presented in Section 5 of this report.

INTERTEK TESTING SERVICES NA LTD.

Reported by: 
Chris Chang, EIT
Test Engineer, Building Products

Reviewed by: 
Riccardo DeSantis
Lab Supervisor / Test Technician, Building Products

APPENDIX A: Test Data (2 pages)



Company	Domtek Inc.	Technician	Andy Chase and Kevin Penner
Project No.	G100746898	Reviewer	Riccardo DeSantis
Product Name	16 in. Trusscore PVC Interlocking Panels	Start/End Date	June 21-22, 2012
Model	16 in Trusscore Panels	Sample ID	VAN1206221322-001
Standard	Client Specified Load/Deflection Test		

A
B.D.

Instruments Used in Evaluation	Intertek ID	Calibration Due Date
2 in digital deflection gauge	P60020	November 2, 2012
2 in digital deflection gauge	P60175	October 14, 2012
2 in digital deflection gauge	02686	November 2, 2012
2 in digital deflection gauge	02701	November 2, 2012
2 in digital deflection gauge	P60017	April 20, 2013
2 in digital deflection gauge	02780	November 2, 2012
2 in digital deflection gauge	02699	October 14, 2012
2 in digital deflection gauge	P60021	November 2, 2012
2 in digital deflection gauge	P60014	November 2, 2012
2 in digital deflection gauge	P60174	October 14, 2012
2 in digital deflection gauge	P60016	April 20, 2013
2 in digital deflection gauge	02768	October 14, 2012
2 in digital deflection gauge	02700	April 20, 2013
2 in digital deflection gauge	P60022	April 20, 2013
2 in digital deflection gauge	P60026	November 2, 2012
Scale	D2696	April 17, 2013

Dimensions: 16 in wide panels cut to 4 ft lengths

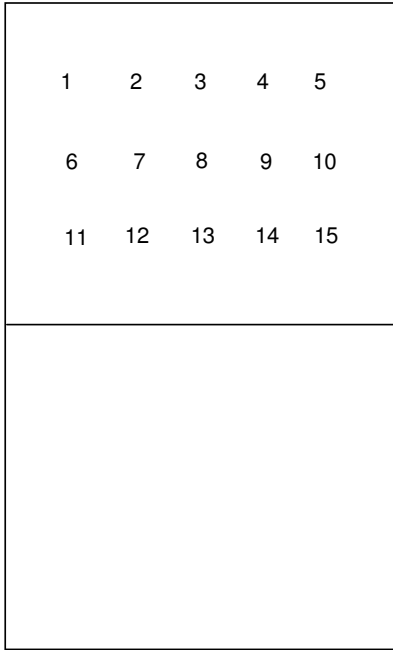
Construction: 2 x 6 SPF lumber was used to construct the ceiling assembly (4 ft OC), fastened using 3-1/2 in #10 construction screws. The ceiling panels were attached to the underside of the ceiling assembly using the supplied 'J' Trim and H Dividers which were attached using 1-3/4 in #8 screws (8 in OC). The ceiling panels were held in place by the trim and fastened along the exposed edge (length) using 1-3/4 in #8 screws (8 in OC)

Conditioning: As received

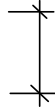
Test Method: Batt insulation was placed in the ceiling cavities until a uniform load of 1 lb/sqft and 2 lb/sqft (respectively) was achieved. After the initial deflection reading of the 2 lb/sqft load, the load was left in place for 16 hours and measured again.

Deflection Location	Deflection at 1 lb/sqft (mm)	Deflection at 2 lb/sqft (mm)	Deflection at 2 lb/sqft (mm) after 16 hours
1	1.62	2.82	3.05
2	2.51	4.94	5.33
3	2.19	5.81	6.42
4	2.54	5.86	6.47
5	1.49	3.53	3.89
6	1.89	3.69	4.02
7	3.31	6.60	7.28
8	3.65	7.58	8.36
9	3.21	7.54	8.30
10	1.94	6.42	5.07
11	1.37	2.69	2.90
12	2.35	4.71	5.14
13	2.54	5.32	5.80
14	2.36	5.47	5.93
15	1.41	3.34	3.58

8 in OC Typical



1	2	3	4	5
6	7	8	9	10
11	12	13	14	15



12 in OC Typical

View from underside of assembly