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EVALUATION CENTER
INTERTEK TESTING SERVICES NA LTD.
1500 BRIGANTINE DRIVE
COQUITLAM, BC V3K 7C1

RENDERED TO
DOMTEK INC.
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BRANDON, MB R7A 6Y8

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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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 ± 4°F (23 ± 2°C) and relative humidity of 50 ± 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>
<thead>
<tr>
<th>Deflection Location</th>
<th>Deflection at 1 lb/ft² (mm)</th>
<th>Deflection at 2 lb/ft² (mm)</th>
<th>Deflection at 2 lb/ft² after 16 hours (mm)</th>
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<tbody>
<tr>
<td>1</td>
<td>1.62</td>
<td>2.82</td>
<td>3.05</td>
</tr>
<tr>
<td>2</td>
<td>2.51</td>
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<td>8.36</td>
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<td>15</td>
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<td>3.34</td>
<td>3.58</td>
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</tbody>
</table>
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:

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Test Engineer, Building Products

Reviewed by:

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Riccardo DeSantis
Lab Supervisor / Test Technician, Building Products
APPENDIX A: Test Data (2 pages)
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.
8 in OC Typical

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

View from underside of assembly