



**TEST REPORT**

**Report No.:** E9891.01-501-47

**Rendered to:**

TREMCO®, INCORPORATED  
Beachwood, Ohio

**PRODUCT TYPE:** Wall Panel System  
**SERIES/MODEL:** Vulkem® 116 Illmod 600® Acrytec Panel

**SPECIFICATION:** ASTM E 330, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.*

**Test Date:** 07/22/15  
**Report Date:** 08/14/15  
**Test Record Retention Date:** 07/22/19



**1.0 Report Issued To:** TREMCO®, INCORPORATED  
3735 Green Road  
P.O. Box 1014  
Beachwood, Ohio 44122

**2.0 Test Laboratory:** Architectural Testing, Inc.  
1140 Lincoln Avenue  
Springdale, Pennsylvania 15144  
724-275-7100

**3.0 Project Summary:**

**3.1 Product Type:** Wall Panel System

**3.2 Series/Model:** Vulkem® 116 Illmod 600®, Acrytec Panel

**3.3 Compliance Statement:** Results obtained are tested values and were secured by using the designated test method(s). The mock-ups tested were representative of target installation methods. Testing was performed on one penetrated wall.

**3.4 Test Dates:** 7/22/2015

**3.5 Test Location:** Tremco® Incorporated test facility in Cleveland, Ohio.

**3.6 Test Sample Source:** The test specimen was provided by the client.

**3.7 Test Specimen Installation:** The test specimen was installed by representatives from Tremco®, Incorporated.

**3.8 List of Official Observers:**

<u>Name</u>	<u>Company</u>
Steven Kraynik	Tremco®, Inc.
Brian Venturini	Architectural Testing, Inc.

#### 4.0 Test Specification(s):

ASTM E 330, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.*

#### 5.0 Test Specimen Description:

##### 5.1 Product Sizes:

Overall Area: 5.9 m <sup>2</sup> (64.0 ft <sup>2</sup> )	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	2438	96	2438	96

##### 5.2 Test Wall

**5.2.1 Test Wall Construction:** The wall was constructed of 2" x 6" wooden studded wall with stud spacing at 16" o.c. 1/4" OSB was then attached to the studs by #8 x 1-1/4 screws spaced approximately 8" o.c. The plywood was then primed with ExoAir<sup>®</sup> primer and wrapped with ExoAir<sup>®</sup> 110 sheet applied air barrier. 2" x 2' XPS insulation was then attached with #8 x 3 screws with a 2" plastic cap washer spaced approx. 12" o.c. 1/2" x 3" furring strips were then attached with #10 x 4" screws spaced approx. 10" o.c. A 1/4" bead of Vulkem<sup>®</sup> 116 polyurethane sealant was applied down each furring strip then (4)-4' x 4' Acrytec panels were attached to each corner leaving a 1/2" vertical and was then applied down the entire 8' vertical then in between the remaining 4' horizontals (12) – 5" diameter holes were punched out of the back through the 1/4" OSB, ExoAir<sup>®</sup> 110, and XPS so pressure would be directly applied to the Acrytec panels to stress the adhesion between the furring strip, Vulkem<sup>®</sup> 116 and the pane. All sealants were left to cure before testing

**5.2.2 Test Wall Installation:** The test wall was installed into a 2" x 12 " Spruce/Pine/Fir wood buck and secured at the perimeter with #8 x 3" long drywall screws spaced approximately 16" on center.

**6.0 Test Results:** Tape and film were not used to seal against air leakage during structural testing. The temperature during testing was 22°C (72°F). The test results are recorded in the following tables:

Title of Test	Test Pressure	Test Results (inch)		
		#1	#2	#3
<b>Wind Pressure Loading</b> (10 second load) per ASTM E330	+1680 Pa (+35.09 psf)	0.01	0.23	0.01
	+2500 Pa (+52.20 psf)	0.00	0.05	0.00
	-1680 Pa (-35.09 psf)	0.04	0.28	0.02
	-2500 Pa (-52.20 psf)	0.13	0.01	0.04

**Note 1:** The results reported at  $\pm 1680$  Pa ( $\pm 35.09$  psf) are deflections under load. The results reported at  $\pm 2500$  Pa ( $\pm 52.20$  psf) are permanent deformations after loading.

**Note 2:** See Architectural Testing Sketch #1 for indicator locations.



The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

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Brian D. Venturini  
Technician

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Lynn George  
Director – Regional Operations

BDV:sld

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Sketches (1)

Appendix-B: Photographs (2)

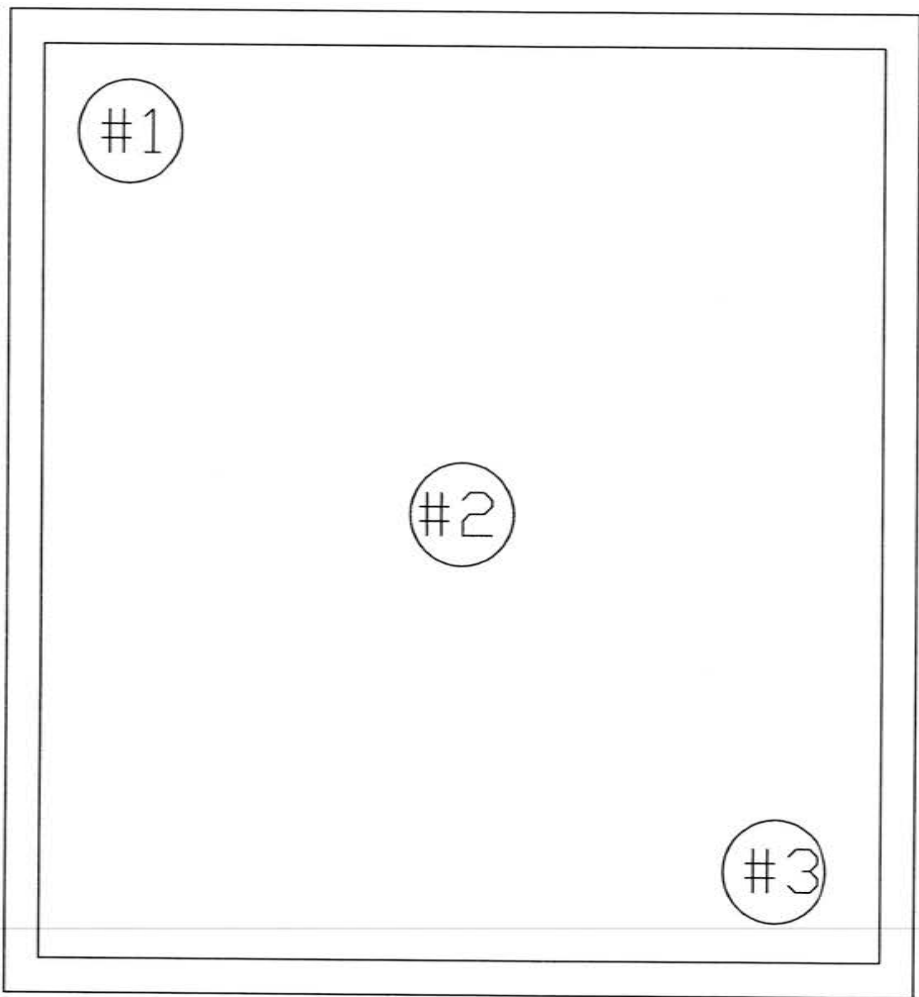


Test Report No.: E9891.01-501-47  
Architectural Testing Report Date: 08/11/15  
Test Record Retention End Date: 07/22/19

## **Appendix A**

### **Sketches**

REV	DATE	DESCRIPTION	BY
			LG



INDICATOR LOCATIONS

PROJECT NO.  
E9891.01  
501-47

PROJECT NAME: AIR BARRIER  
CLIENT: TREMCO



DRAWING  
(Indicators)

DWG. BY:  
LG  
DATE:  
8-11-15

SHEET  
1 OF  
1

**Appendix B**

**Photographs**



**Photo No. 1**

**Exterior of Test Specimen**





**Photo No. 2**

**Interior of test specimen**