Architectural Testing

TEST REPORT

Report No.: C1358.01-109-44

Rendered to:

ENERGEX WALL SYSTEMS
Edison, New Jersey

PRODUCT TYPE: Liquid Air Barrier
SERIES/MODEL: Enershield One-Step

Title	Summary of Results
Air Infiltration @ 1.57 psf	<0.001 L/s/m^2 (<0.0001 cfm/ft^2)
Air Infiltration @ 6.27 psf	0.001 L/s/m^2 (0.0002 cfm/ft^2)
Air Exfiltration @ 1.57 psf	<0.001 L/s/m^2 (<0.0001 cfm/ft^2)
Air Exfiltration @ 6.27 psf	<0.001 L/s/m^2 (<0.0001 cfm/ft^2)

Reference must be made to Report No. C1358.01-109-44, dated 08/31/12 for complete test specimen description and detailed test results.

1.0 Report Issued To: Energex Wall Systems
2960 Woodbridge Avenue
Edison, New Jersey 08837

2.0 Test Laboratory: Architectural Testing, Inc.
130 Derry Court
York, Pennsylvania 17406-8405
717-764-7700

3.0 Project Summary:

3.1 Product Type: Liquid Air Barrier

3.2 Series/Model: Enershield One-Step

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). Test specimen description and results are reported herein.

3.4 Test Date: 08/09/2012

3.5 Test Record Retention End Date: All test records for this report will be retained until August 31, 2016.

3.6 Test Location: Architectural Testing, Inc. test facility in York, Pennsylvania.

3.7 Test Sample Source: The test specimens were provided by the client. Representative samples of the test specimen(s) will be retained by Architectural Testing for a minimum of four years from the report completion date.

3.8 List of Official Observers:

Name	Company
Joseph C. Mohen	Energex Wall Systems
Michael D. Stremmel, P.E.	Architectural Testing, Inc.
Ken R. Stough	Architectural Testing, Inc.

4.0 Test Method(s):

ASTM E 283-04, *Test Method for Determining Rate of Airflow Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen.*

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 5.9 m^2 (64.0 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall size	2438	96	2438	96

5.2 Test Wall Construction: The test wall was constructed of 2x6, Spruce-Pine-Fir wood studs, spaced 16" on center. The wall was sheathed with nominal 1/2" thick Georgia-Pacific DensGlass™ Gold sheathing, secured with #6 x 1-1/4" long bugle head screws, spaced 8" on center. The DensGlass™ Gold sheathing was applied with one 8' long horizontal seam. The wall utilized a 2x8 Spruce-Pine-Fir wood wrap around the perimeter to facilitate testing.

5.3 Test Wall Installation: Standard commercial fiberglass wall board tape, embedded with Enershield, was utilized at the joints of the DensGlass™. The DensGlass™ was covered with a nominal 0.050" – 0.060" wet film thickness, roller applied air and vapor barrier. The perimeter of the wall was sealed to the 2x8 wood wrap with silicone.

6.0 Test Results: The temperature during testing was 27°C (81°F). The results are tabulated as follows:

Air Infiltration

Pressure	Total Leakage (cfm)	Tare (cfm)	Specimen Leakage (cfm)	Leakage Rate	
				($L/s \cdot m^2$)	(cfm/ft^2)
75 Pa (1.57 psf)	1.40	1.40	<0.01	<0.001	<0.0001
300 Pa (6.27 psf)	4.03	4.02	0.01	0.001	0.0002

Air Exfiltration

Pressure	Total Leakage (cfm)	Tare (cfm)	Specimen Leakage (cfm)	Leakage Rate	
				($L/s \cdot m^2$)	(cfm/ft^2)
75 Pa (1.57 psf)	1.35	1.35	<0.01	<0.001	<0.0001
300 Pa (6.27 psf)	3.86	3.86	<0.01	<0.001	<0.0001

***General Note**: All testing was performed in accordance with the referenced standard(s).*

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

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.

Digitally Signed by: Ken R. Stough

Ken R. Stough
Technician

Digitally Signed by: Michael D. Stremmel

Michael D. Stremmel, P.E.
Senior Project Engineer

KRS:cmd

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Photograph (1)

Appendix A

Photograph

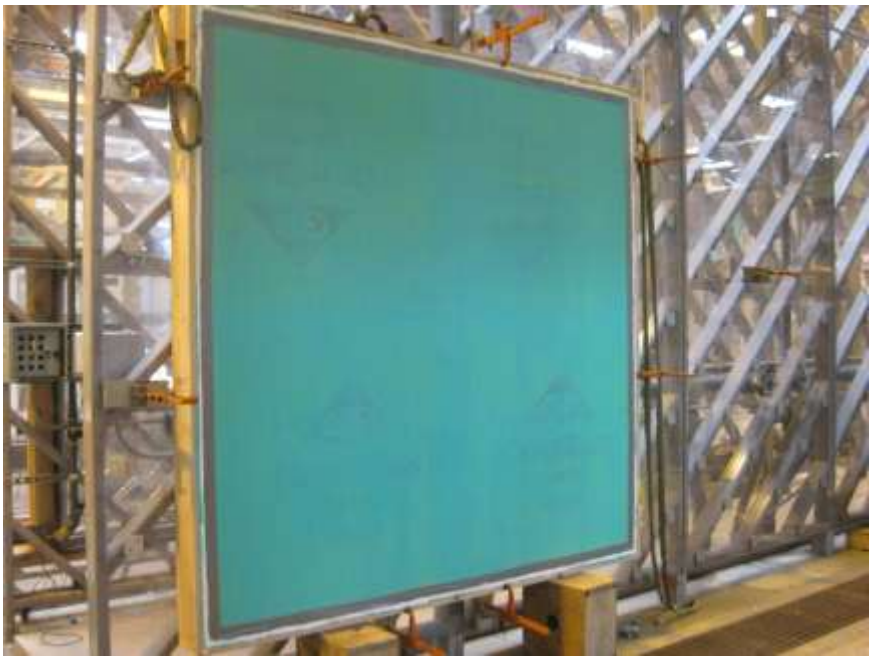

Photo No. 1
Enershield One-Step