

PERFORMANCE TEST REPORT

Rendered to:

BERRIDGE MANUFACTURING COMPANY

SERIES/MODEL: HR-16

PRODUCT TYPE: Steel Interlocking Panel System

Title	Summary of Results
Air Infiltration	<0.01 cfm/ft ²
Water Resistance Test Pressure	15.0 psf

Reference should be made to Architectural Testing, Inc. Report No. 99949.01-801-44 for complete test specimen description and data.

PERFORMANCE TEST REPORT

Rendered to:

BERRIDGE MANUFACTURING COMPANY
1720 Maury
Houston, Texas 77026

Report No.: 99949.01-801-44
Test Dates: 04/08/10
Through: 04/08/10
Report Date: 04/16/10
Expiration Date: 04/08/14

Project Summary: Architectural Testing, Inc. was contracted by Berridge Manufacturing Company to perform testing on a Series/Model HR-16, Steel Interlocking Panel System. Test specimen description and results are reported herein. The sample was provided by the client.

Test Methods: The test specimen was evaluated in accordance with the following:

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.

ASTM E 331-00, Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.

Test Specimen Description:

Series/Model: HR-16

Product Type: Steel Interlocking Panel System

Overall Size: 60" wide by 53-1/2" high

Panel Thickness: 0.026"

C-Channel Frame Thickness: 0.061"

Frame Angle Bracket Thickness: 0.061"

Panel Height: 0.875"

Overall Area: 22.29 ft²

Finish: Painted

Test Specimen Description: (Continued)

Frame Construction: The frame consisted of 6" x 2-1/2" Steel C-Channels that were connected at the interior corners with steel brackets. Four #10 x 3/4" hex head self tapping screws were located at each side of the angle and were secured into the frame.

Panel Construction: 17-1/8" wide roll-formed painted steel panels running horizontally were locked together along each edge. The corners of each underlapping portion of the panels were secured to the frame with one #10 x 3/4" hex head self tapping screw. The sides of the panels at the top and bottom of the fixture were secured to the frame with #10 x 3/4" hex head self tapping screws at 1-1/2" on center from edge of frame with the remaining at 12" on center spacing thereafter.

Installation: Unit was installed inside of a 2 x 6 spf test buck. 1/4" x 5" lag bolts were inserted through holes in the frame and fastened into the buck. Lag bolt spacing was 9" on center spacing from edge of frame with remaining at 15" on center spacing. Sealant was applied full perimeter from panels to buck.

Test Results: The temperature during testing was 74°F. The results are tabulated as follows:

<u>Test Method</u>	<u>Title of Test</u>	<u>Results</u>
ASTM E 283	Air Infiltration 6.24 psf (50 mph)	<0.01 cfm/ft ²
ASTM E 331	Water Resistance 15.0 psf	No leakage

General Note: All testing was performed in accordance with the referenced standards.

Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein.

List of Official Observers:

<u>Name</u>	<u>Company</u>
Tom Klein	Architectural Testing, Inc.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen 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:

Tom Klein
Technician

Andy Cost
Laboratory Manager

TK:ac

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

Appendix-A: Test Equipment (1)

Appendix-B: Drawings (2)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	04/16/10	N/A	Original report issue

Appendix A**Test Equipment**

Instrument	Manufacturer	Asset #
Control Panel	Architectural Testing, Inc.	4829
Spray Rack	Architectural Testing, Inc.	3233

Appendix B

Drawings

