



TEST REPORT

Report No.: B8370.01-801-44

Rendered to:

GLASSCRAFT DOOR COMPANY
Houston, Texas 77043

PRODUCT TYPE: Half Circle Transom

SERIES/MODEL: HJ7437CM

SPECIFICATION: AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights.*

Title	Summary of Results
Primary Product Designator AAMA/WDMA/CSA 101/I.S.2/A440-08	Class R-PG80 1880 x 965 (74 x 38) Type TR
Primary Product Designator, AAMA/WDMA/CSA 101/I.S.2/A440-05	TR-R80 1880 x 965 (74x38)
Design Pressure	±3840Pa (±80.20 psf)
Air Infiltration	<0.1 L/s/m ² (<0.01 cfm/ft ²)
Water Penetration Resistance Test Pressure	580 Pa (12.11 psf)

Test Completion Date: 06/06/2012

Reference must be made to Report No. B8370.01-801-44, dated 06/27/12 for complete test specimen description and detailed test results.

1.0 Report Issued To: GlassCraft Door Company
2002 Brittmoore Road
Houston, Texas 77043

2.0 Test Laboratory: Architectural Testing, Inc.
2865 Market Loop
Southlake, Texas
(817) 410-7202

3.0 Project Summary:

3.1 Product Type: Half circle transom

3.2 Series/Model: Half circle transom #HJ7437CM

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimen tested successfully met the performance requirements for a Class R-PG80 1880 x 959 (74 x 38) Type TR and TR-R80 1880 x 959 (74x38).

3.4 Test Dates: 06/06/2012 – 06/06/2012

3.5 Test Record Retention End Date: All test records for this report will be retained until 06/27/2016.

3.6 Test Location: Architectural Testing, Inc test facility in Southlake, Texas.

3.7 Test Sample Source: The test specimen was 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 test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Tom Klein	Architectural Testing, Inc.
Gene Denley	GlassCraft Door Company

4.0 Test Specification(s):

AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights.*

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 1.8 m ² (19.4 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size (half circle arch)	1880	74	959	37-3/4 (highest point)

5.2 Frame Construction:

Frame Member	Material	Description
All frame members	Composite	Composite

	Joinery Type	Detail
All corners	Coped, butted, sealed, and mechanically fastened	Each corner was fastened with (3) #8 x 3" Phillips flat head screws and sealant

5.3 Weatherstripping: No weatherstripping was utilized.

5.4 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
5/8" IG	3/8" Aluminum-Reinforced butyl	1/8" tempered	1/8" tempered	Interior glazed against GE SCS2003 sealant at the exterior. A composite quarter round glazing bead was located at the interior and secured with sealant and brad nails.

5.0 Test Specimen Description: (Continued)

5.4 Glazing: (Continued)

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Fixed lite	1	1822 x 899	71-3/4 x 35-3/8 (highest point of height)	1/2"

5.5 Drainage: No drainage was utilized.

5.6 Hardware: No hardware was utilized.

5.7 Reinforcement: No reinforcement was utilized.

5.8 Screen Construction: No screen was utilized.

6.0 Installation:

The specimen was installed into a 2" x 10" Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space. The exterior of the window was sealed full perimeter.

Location	Anchor Description	Anchor Location
Interior of frame	#8 x 2-1/2" Phillips flat head screws	4" from interior corners with remaining at 16" spacing thereafter at the sill and at 5" and 27" from interior corners with one at midpoint on arched portion of frame.

7.0 Test Results: The temperature during testing was 29°C (85°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	<0.1 L/s/m ² (<0.01 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, per ASTM E 547	N/A	N/A	2
Uniform Load Deflection, per ASTM E 330 taken at sill +720 Pa (+15.04 psf) -720 Pa (-15.04 psf)	<1 mm (0.01") <1 mm (0.01")	Report Only	3, 4, 5
Uniform Load Structural, per ASTM E 330 taken at sill +1080 Pa (+22.56 psf) -1080 Pa (-22.56 psf)	<1 mm (0.01") <1 mm (<0.01")	2 mm (0.06") max. 2 mm (0.06") max.	4, 5
Forced Entry Resistance, per ASTM F 588 Type: D - Grade: 10	Pass	No entry	
Optional Performance			
Water Penetration, per ASTM E 547 at 580 Pa (12.11 psf)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 taken at sill +3840 Pa (+80.20 psf) -3840 Pa (-80.20 psf)	<1 mm (0.01") <1 mm (0.01")	Report Only	3, 4, 5
Uniform Load Structural, per ASTM E 330 taken at sill +5760 Pa (+120.30 psf) -5760 Pa (-120.30 psf)	<1 mm (<0.01") <1 mm (<0.01")	2 mm (0.06") max. 2 mm (0.06") max.	4, 5

7.0 Test Results: (Continued)

Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

Note 2: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 3: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Note 4: Loads were held for 10 seconds.

Note 5: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.



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Report Date: 06/27/12

Revision Date: 02/02/18

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.

Andy Cost
Manager

Tyler Westerling, P.E.
Senior Project Engineer

John H. Waskow, P.E.
Director – Regional Operations

TK:ac/cm

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

Appendix-A: Alteration Addendum (1)

Appendix-B: Drawings (9) Complete drawings packet on file with Architectural Testing, Inc.

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
1	02/02/18	Page 6	Added Andy Cost and Tyler Westerling to signature page
		Appendix B	Updated Drawings

Appendix A

Alteration Addendum

***Note:** No alterations were required.*

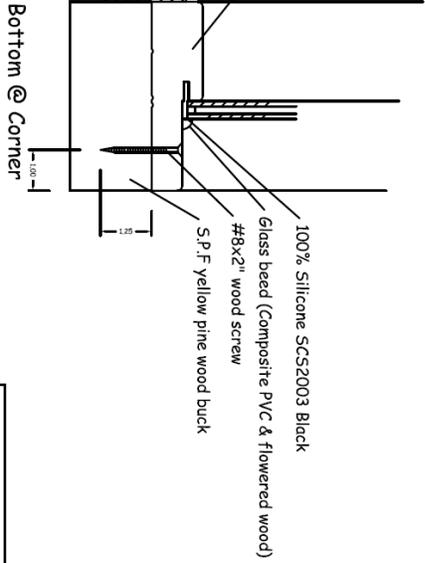
Appendix B

Drawings

***Note:** Complete drawings packet on file with Architectural Testing, Inc.*

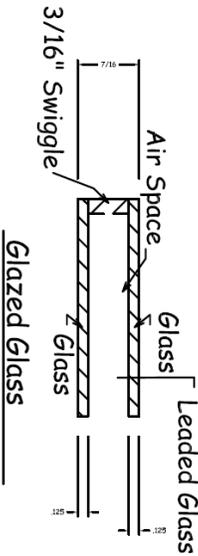
Haft Round Circle Transom composite

(C)



Glass*Craft

Haft Round Circle Transom composite



Glass*Craft

Haft Round Circle Transom composite

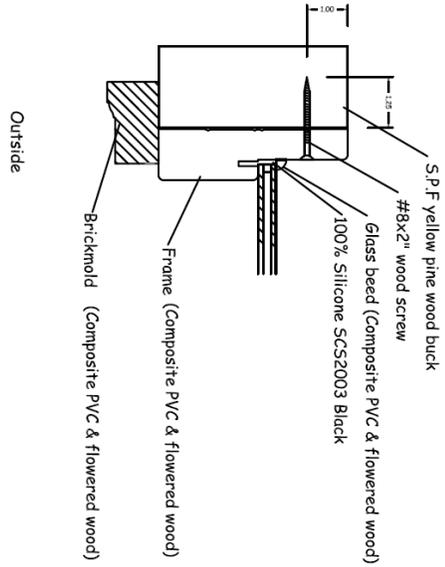
Glass*Craft

Haft Round Circle Transom composite

Glass*Craft

(B)

Side @ Corner



(A)

Side Section

