

PERFORMANCE TEST REPORT

Rendered to:

GLASSCRAFT DOOR COMPANY

SERIES/MODEL: Mahogany Entry Door PRODUCT TYPE: 3' x 8' Single Outswing TDL Hardwood Door with TDL Sidelites

Title	Summary of Results
Uniform Load Deflection Test Pressure	+47.18 psf / -61.6 psf
Uniform Load Structural Test Pressure	+70.77 psf / -92.4 psf

This report contains in its entirety:

Cover Page: 1 page Report Body: 5 pages

Drawings: 20 pages

JOHN H. WASKOW 78232

Texas Firm F-11869

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Reference should be made to Architectural Testing, Inc. Report No. 81842.01-801-44 for complete test specimen description and data.

2865 Market Loop, Suite B Southlake, Texas 76092 phone: 817-410-7202 fax: 817-424-8463 www.archtest.com



PERFORMANCE TEST REPORT

Rendered to:

GLASSCRAFT DOOR COMPANY 2002 Brittmoore Road Houston, Texas 77043-2209

Report No.: 81842.01-801-44 Revision 3: 07/21/10 Test Date: 04/10/08 Report Date: 06/20/08

**Record Retention End Date: 04/10/12

Project Summary: Architectural Testing, Inc. was contracted by GlassCraft Door Company to perform testing on a Series/Model Mahogany Entry Door, 3' x 8' single outswing hardwood TDL door with two TDL sidelites. Test specimen description and results are reported herein.

Test Method: The test specimen was evaluated in accordance with:

ASTM E 330-02, Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference

Test Specimen Description:

Series/Model: Mahogany Entry Door

Product Type: 3' x 8' Single Outswing Hardwood TDL Door with TDL Sidelites

Door Description

Overall Size: 68-1/2" wide by 98" high

Leaf Size: 36" wide by 96" high

Rough Opening Size: 69" wide by 98-1/2" high

Overall Area: 46.62 ft²

Glazing Type: Sealed insulating glass comprised of 1/8" thick tempered glass at the exterior and 1/8" thick tempered glass at the interior. A 1/2" aluminum spacer system was used providing 3/4" overall thickness.

Glazing Details: Six interior glazed lites with double-sided butyl tape and a nailed-on wood glazing bead secured by 1" long x 0.040" x 0.050" rectangular shank brad nails with a 0.050" x 0.080" head (18 gauge brad nail) 1" from each corner and on 6" spacing thereafter.

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Revision 3: 07/21/10

Test Specimen Description: (Continued)

<u>Door Description</u> (Continued)

Weatherstripping: One five finger vinyl sweep at the bottom of the door leaf. One row of custom shaped foam-filled vinyl weatherstrip at the head and jambs.

Frame Construction: The door frame was constructed of 4-5/8" by 1-1/4" hardwood head and jambs, and 3-5/8" by 2-5/8" mullions and included an adjustable extruded aluminum and composite threshold. The head and jambs were kerfed to accept the weatherstripping. The corners were coped, butted and secured with two #8 x 1-1/2" and five #8 x 3" screws at the threshold and with four #8 x 1-1/2" and two #8 x 3" screws at the head. The mullions were attached with five #8 x 3" screws through the head and the threshold.

Leaf Construction: The door leaf was constructed of 1-3/4" thick hardwood and utilized a glued cove and bead joint, reinforced with 1/2" diameter by 4-1/2" long wood dowels. Two dowels were located at the top and middle rail to stile joint, and four dowels were located at the bottom rail to stile joint.

Hardware: One Schlage F-300 Series single-point lockset was located 36" on center from bottom of the leaf and one Schlage deadbolt was located 41-5/8" on center from the bottom of the leaf. Four 4" butt type hinges were fastened to each leaf with four #8 x 3" screws. Each hinge was secured to the jamb with two #8 x 3" screws and two #8 x 1" flat head screws. The hinges were located at 9-1/8", 34-1/2", 59-1/2" and 84-3/4" on center from the top of the jamb. Surface bolts were attached to the top and bottom of the leaf with four #10 x 1" flat head machine screws with a 1-1/2" long blind nut. Strike plates for the surface bolts were attached to the head with two #8 x 3" screws and to the threshold with two #10 x 3" sheet metal screws.

Drainage: Sloped sill.

Installation: The jambs were secured to a 2x4 #2 Pine test buck with one #8 x 3" screw located 2" from each corner and on 12" spacing thereafter.

Sidelite Description

Overall Size: 14" wide by 96" high

Panel Size: 9-1/2" wide by 20-1/2" high

Light size: 9-1/2" wide by 20-1/2" high

Glazing Type: Three pieces of sealed insulating glass comprised of 1/8" thick tempered glass at the exterior and 1/8" thick tempered glass at the interior. A 1/2" aluminum spacer system was used providing 3/4" overall thickness.

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Revision 3: 07/21/10

Test Specimen Description: (Continued)

Sidelite Description (Continued)

Glazing Details: Interior glazed with double-sided butyl tape and a wood glazing bead fastened with 1" long x 0.040" x 0.050" rectangular shank brad nails with a 0.050" x 0.080" head (18 gauge brad nail) 1" from each corner and on 6" spacing.

Weatherstripping: Five finger sweep was located under the sidelite.

Panel Construction: The panel was constructed of 1-3/4" thick hardwood and utilized a glued cove and bead joint, reinforced with #8 x 3" screws. Two screws were located at the stile to top rail and stile to lock rail joints. Four screws were located at the stile to bottom rail joints. The sidelite was secured to the mullions with eight #8 x 3" screws, 5" from the ends of the mullion and on 12" spacing. The sidelite was secured to the frame with eight #8 x 3" screws, 5" from the ends of the jamb and on 12" spacing. Additional fastening was provided by 1/2" quarter round trim fastened by 1-1/4" long x 0.040" x 0.050" rectangular shank brad nails with a 0.050" x 0.080" head (18 gauge brad nail) 1" from each corner and on 6" spacing.

Test Results: The temperature during testing was 72°F. The results are tabulated as follows:

Test Method	<u>Title of Test</u>	<u>Results</u>		
ASTM E 330	Uniform Load Deflection (Deflections reported were taken on the mullion) (Loads were held for 10 seconds)			
	47.18 psf (positive)	0.45"		
	61.60 psf (negative)	0.56"		
ASTM E 330	Uniform Load Structural			
	(Permanent sets reported were taken on the mullion)			
	(Loads were held for 10 seconds)			
	70.77 psf (positive)	0.02"		
	92.40 psf (negative)	0.02"		

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

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.

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



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List of Official Observers:

<u>Name</u> <u>Company</u>

Gene Denley GlassCraft Door Company James Sturdevant 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:

Andy Cost

Laboratory Manager

John H. Waskow, P.E.

Director - Regional Operations

Shawn G. Collins, P.E.

Digitally Signed by: Shawn G. Collin

Laboratory Support Engineer

AC:hd/cmd

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

Appendix-A: Drawings (20)



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Revision Log

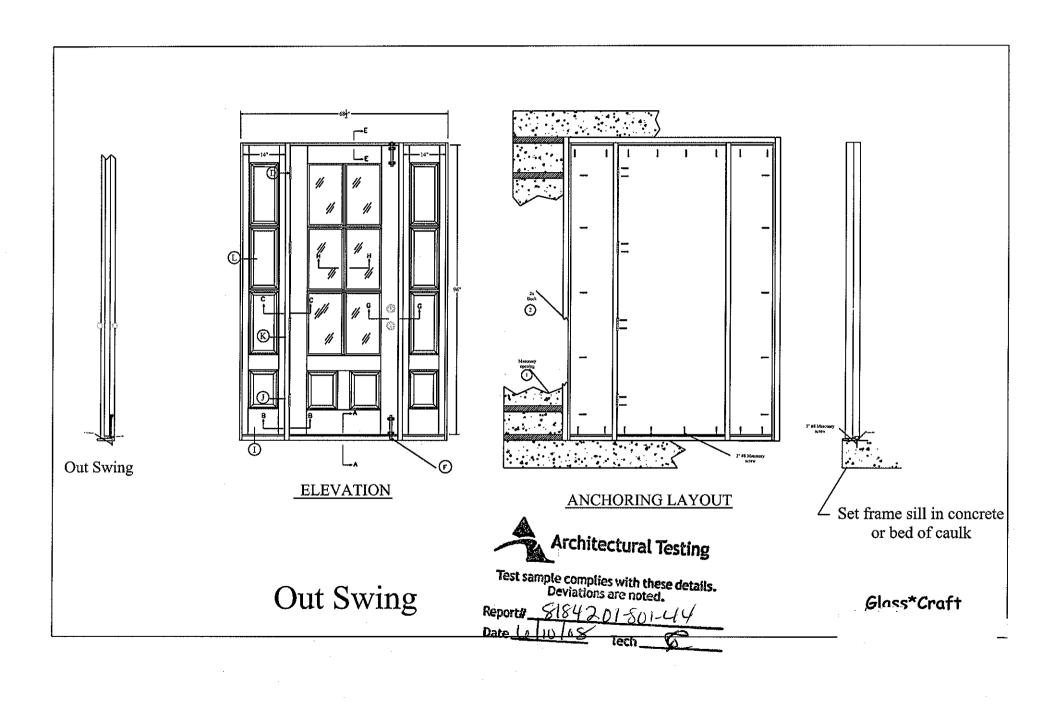
Rev. #	Date	Page(s)	Revision(s)
0	06/20/08	N/A	Original report issue
1	06/26/08	Cover and Page 1	Corrected Series/Model to Mahogany
2	06/30/08	Cover and Page 1	Changed Series/Model from Mahogany to Mahogany Entry Door
3	07/21/10	1, 4	Replaced Expiration Date wording with Record Retention End Date. Replaced cosigner Jeffrey T. Kaminski, P.E. with Shawn G. Collins, P.E.

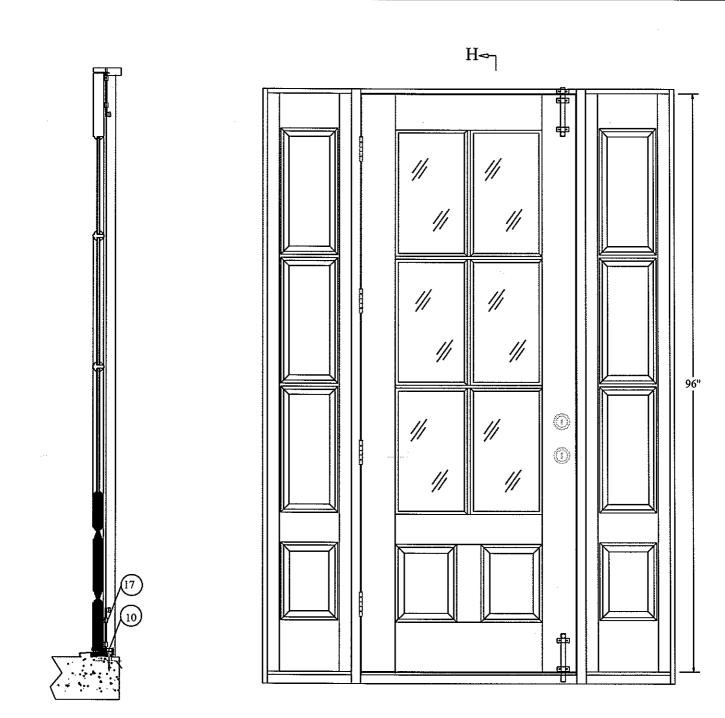


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Appendix A

Drawings





Section

H Architectural Testing

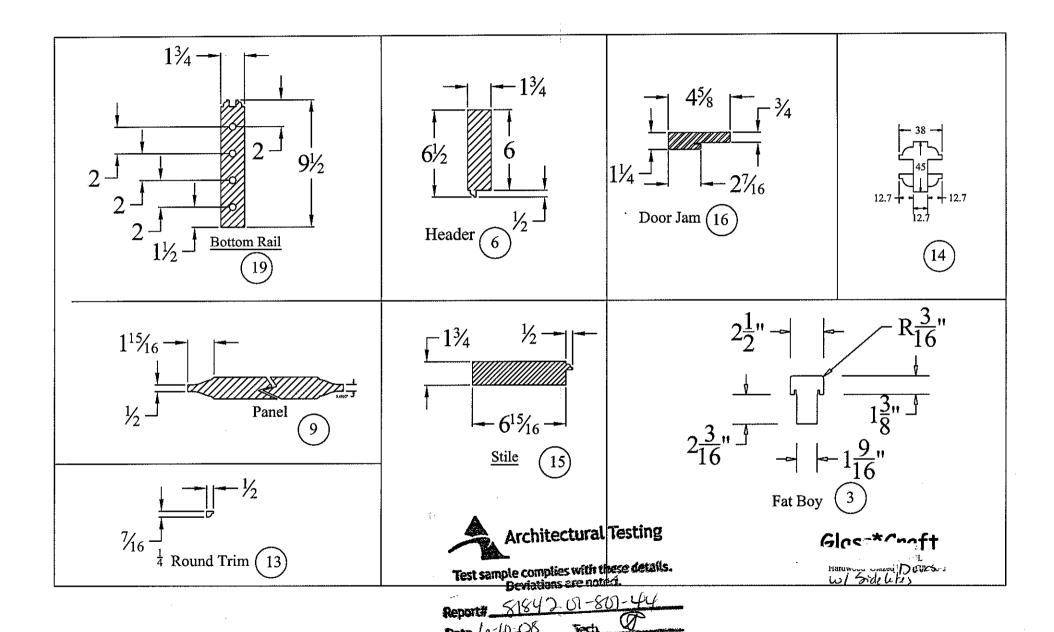
Test sample complies with these details.

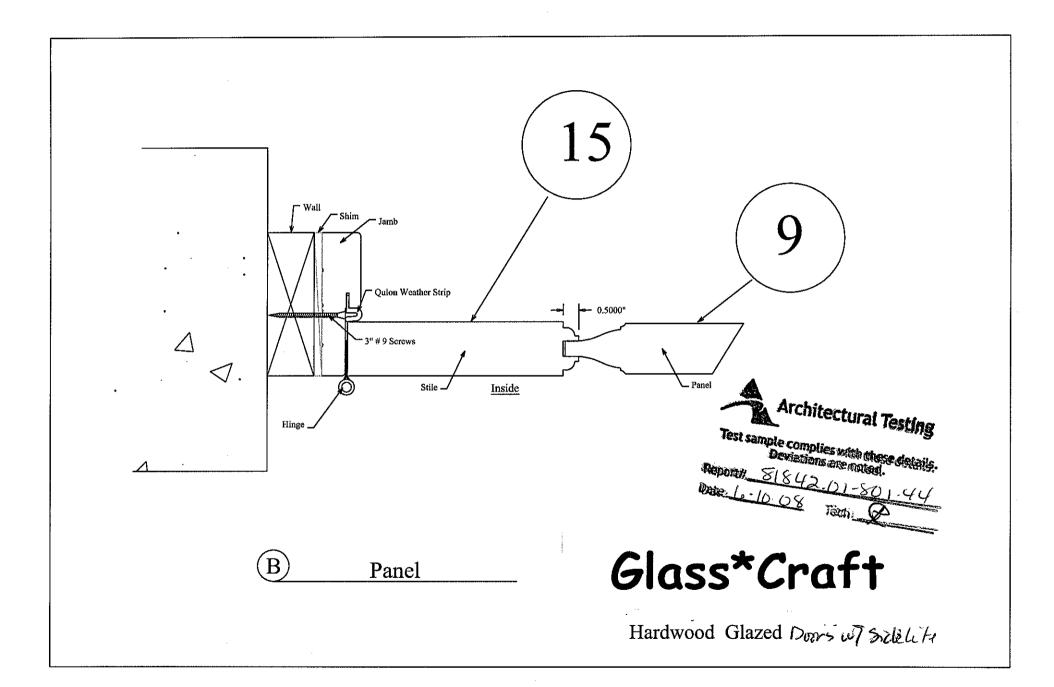
Deviations are noted.

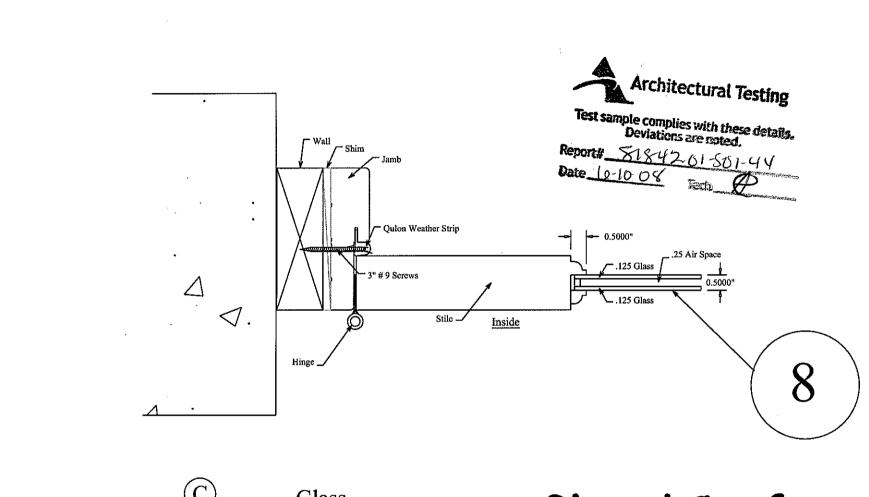
H

Glass*Craft

Hardwood Glazed Doors wi Didelikes







Glass

Glass*Craft

Hardwood Glazed Down w/ Side & tes

Indial Culside Housing

NOTE: Do not install adaptering if using 110" (30 mm) hole.

FOR F350/F352: Ensure pin is positioned to side through exercit backs at abiling hardwalf.

b. Insert housing through escutcheon and adapter ring and into desc Driver bar about a fete under cheetbelt.

Instalación del viojamiento corterior

MOTA: Si a e usa un agujero de 38 mm no se instala un anillo

edagisder.

z. PARA LOS MODELOS PSXXF3X2: Sa daba varificar que al pasador está colocado de manera que se deside a través de La riancos em el passado quie comesponda a la distancia. correcte del borde de la puerte al centro de la bocalleve.

b. Introducir el alojamiento en la puerte, a través del escudo y del anil le adaptiséer. La barra impulsore debe de dissere

debajo del passado.

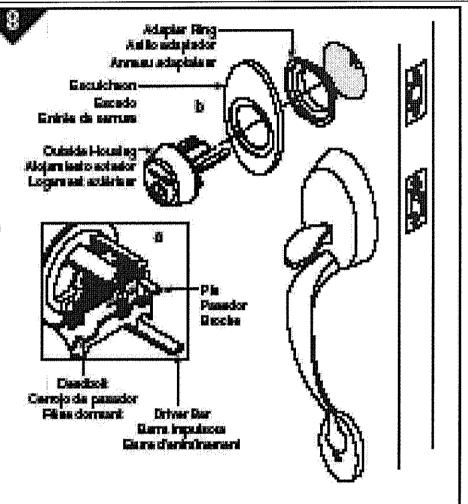
insialation du logement extérieur

REMARQUE: Na pas installer l'annes un deptateur si le trou 35mm setuiisi.

POUR les modéles F050/F362: S'assurer que la broche est placie de sorte à glisser dans la fente d'écartement correct dupine domani.

b. Indicate la legament par l'anteix de semure et l'anneau adsplateur et dans la porte. La barre d'entraînement doit

akier sous le pière domant





Architectural Testing

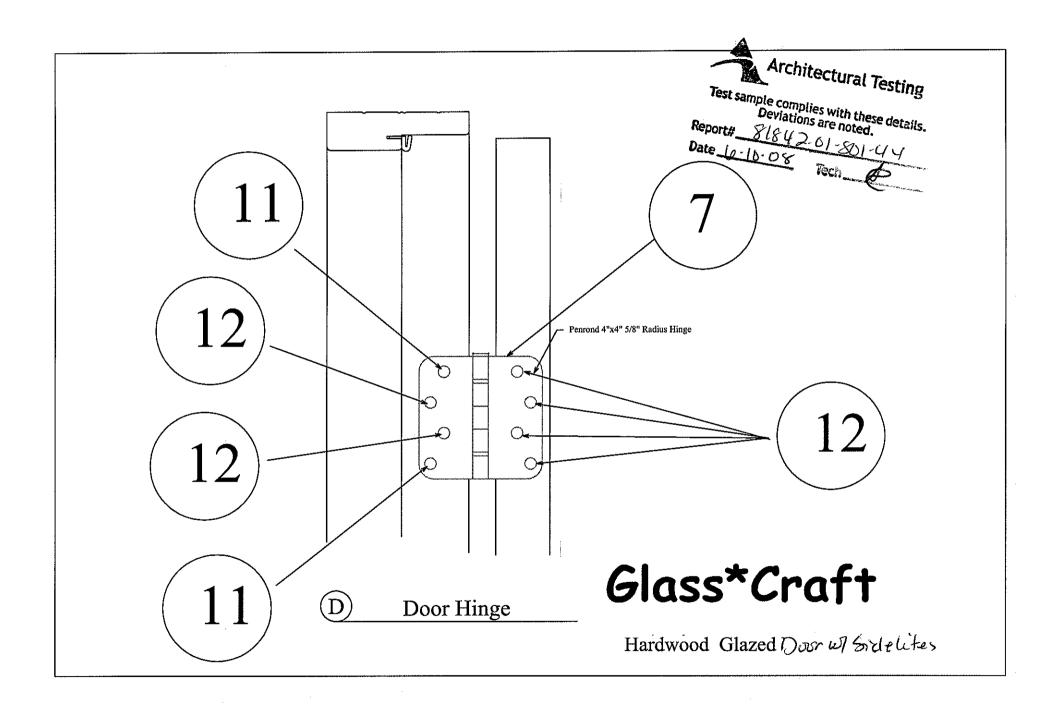
Test sample complies with these details. Deviations are noted.

Report#_ \$1842 57 - 807 - 44 Date 11-10-08

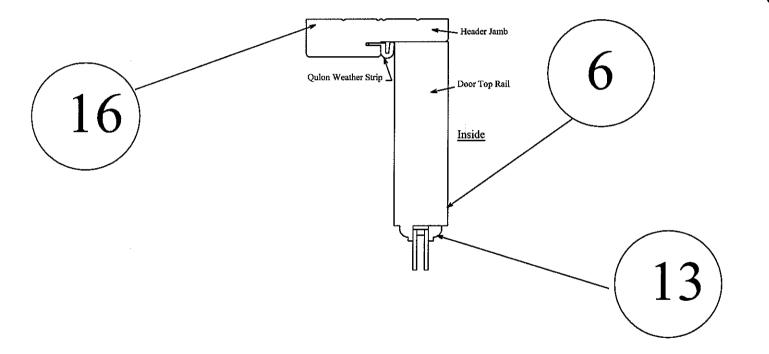
Glass*Craft

Hardwood Glazed Dom W Silelifes

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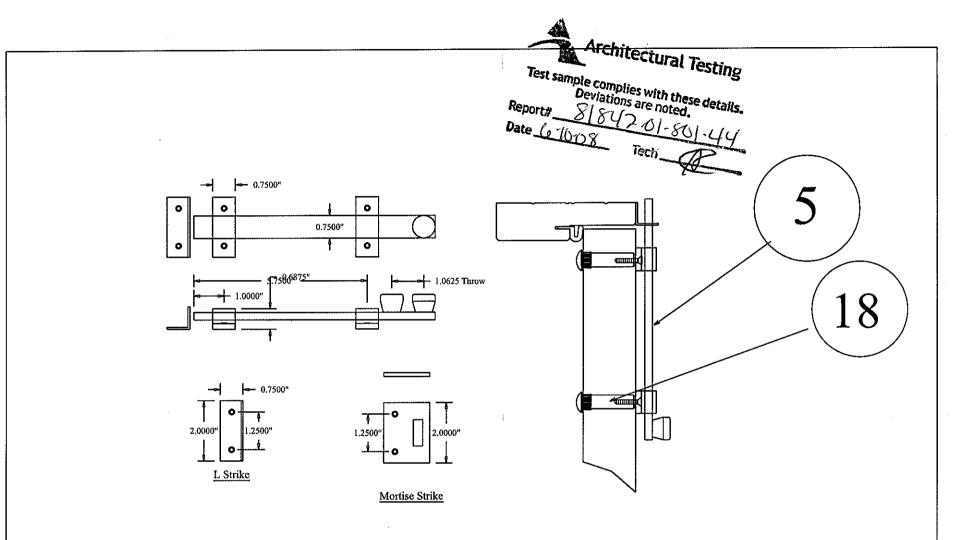




Header

Glass*Craft

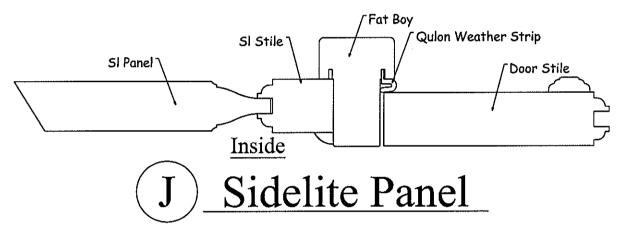
Hardwood Glazed Door w Sidelites

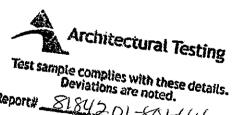


F Rockwood 580 Surface Bolt

Glass*Craft

Hardwood Glazed Down W Fidelites

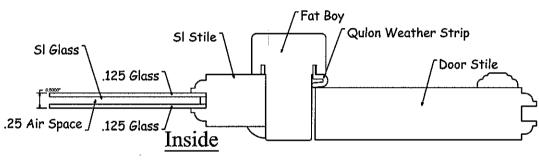




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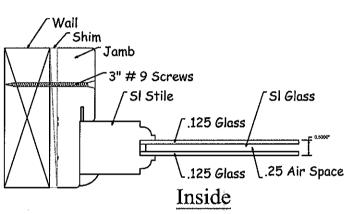
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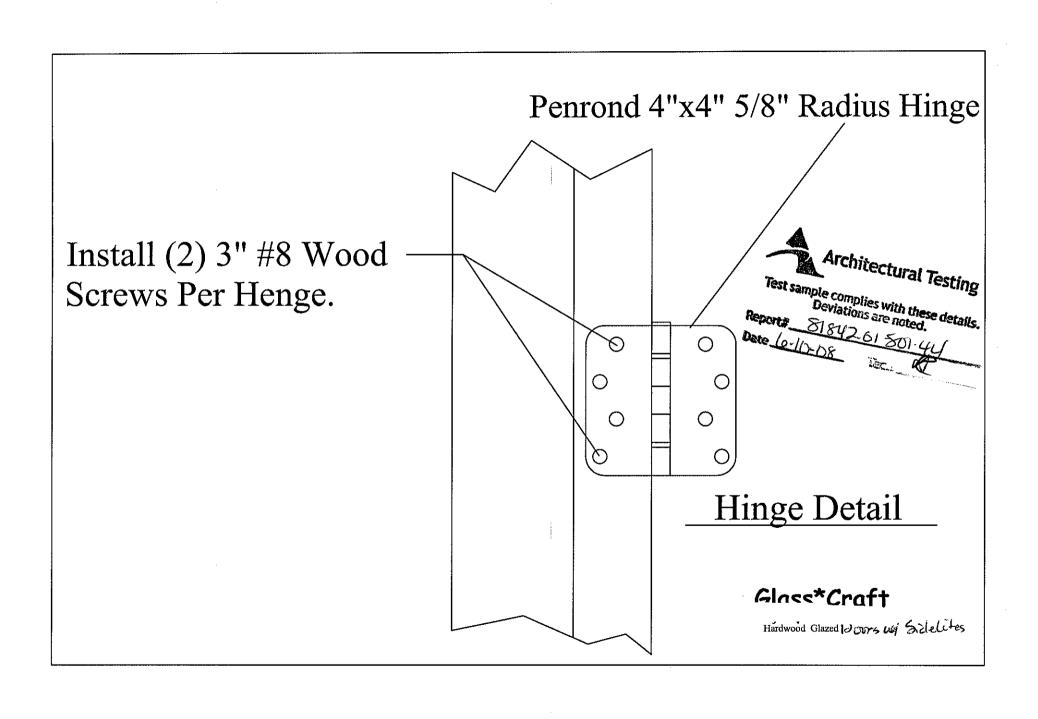


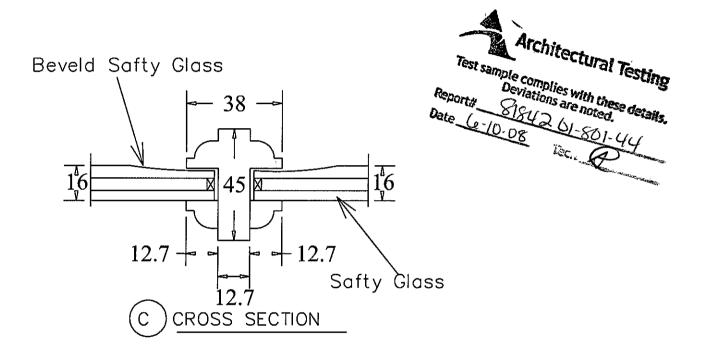






L Sidelite





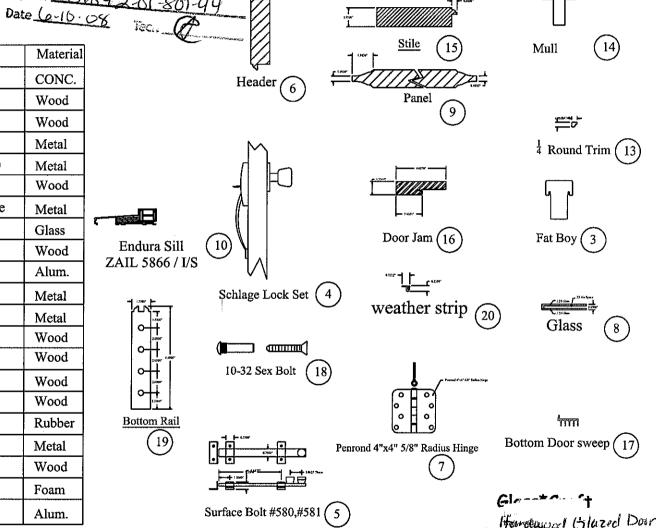
Hardwood Glazed Door wi Sidelites

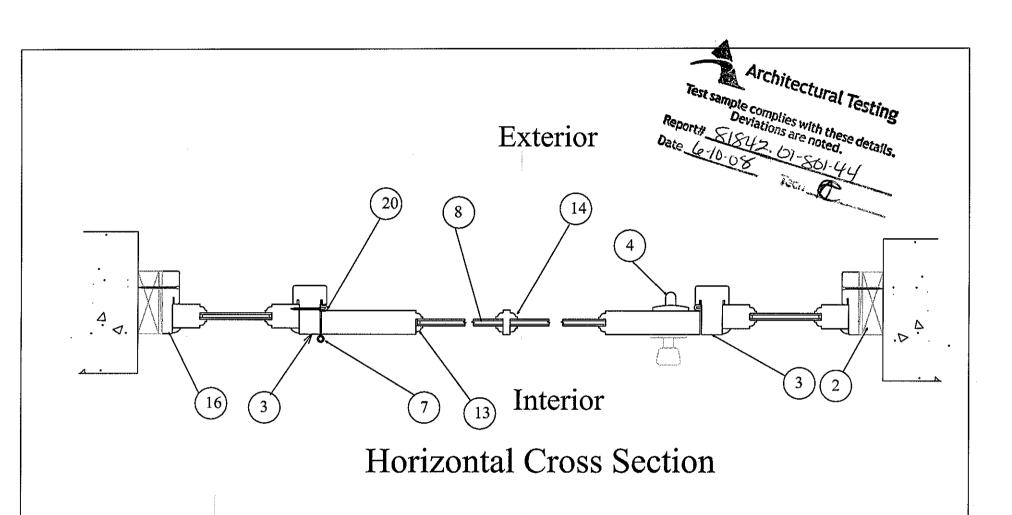


Test sample complies with these details. Deviations are noted.

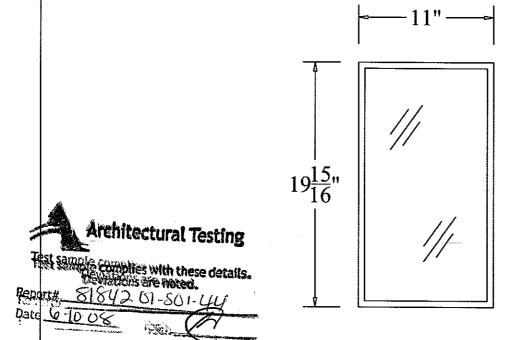
List of Material

Item#	Discription	Material
1	Masonry	CONC.
2	2x Buck	Wood
3	Fat Boy	Wood
4	Schlage lock Set	Metal
5	Rockwood Serface Bolts #580	Metal
6	Top Header	Wood
7	Penrond 4"x4" 5/8" Radius Hinge	Metal
8	Glass	Glass
9	Panel	Wood
10	Endura Sill ZAIL 5866 / I/S	Alum.
11	3" #9 Wood screw	Metal
12	#9x1" PFH Wood Screw	Metal
13	¹ / ₄ Round Trim	Wood
14	Mull	Wood
15	Stile	Wood
16	Door Jam	Wood
17	Bottom Door sweep	Rubber
18	10-32 Sex Bolt	Metal
19	Bottom Rail	Wood
20	weather strip	Foam
21	Endura Sill ZAIL 5866 / O/S	Alum.

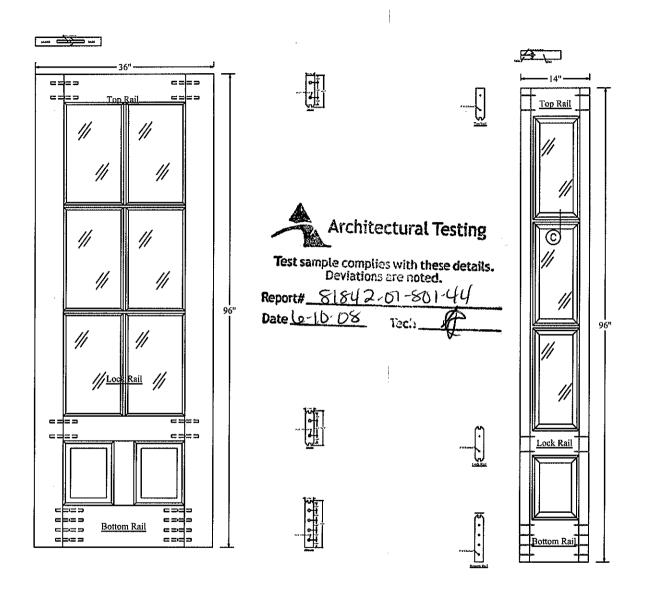




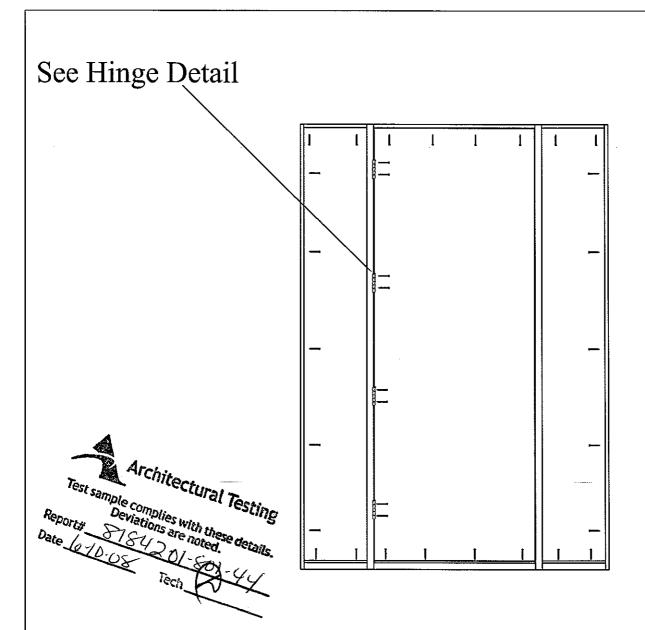
Hardwood Glazed Door of Sodelites



Hardwood Glazed Doors w7 Steletes



Hardwood Glazed Down wi Sidelites



ANCHORING LOCATION

Glass*Craft

Hardwood Glazed Door w/ Sidelites

