



TEST REPORT

Report No.: E4545.04-801-44

Rendered to:

GLASSCRAFT DOOR COMPANY Houston, Texas

PRODUCT TYPE: Inswing and Outswing 8'0" Triple Fiberglass Door Glazed SERIES/MODEL: Inswing and Outswing 8'0" Triple Fiberglass Door Glazed In-Swing (Specimen #1) Out-Swing (Specimen #2)

	Summary of Results		
Title	Test Specimen #1	Test Specimen #2	
Design Pressure	±2400 Pa (±50.14 psf)	±2400 Pa (±50.14 psf)	
Uniform Load Structural Test Pressure	±3600 Pa (±75.19 psf)	±3600 Pa (±75.19 psf)	



2015.08.12 16:09:52 -05'00'

2015.08.12 11:22:18 -07'00'

Reference must be made to Report No. E4545.04-801-44, dated 07/13/15 for complete test specimen description and detailed test results.





Report Date: 07/13/15 Revision 1: 08/10/15

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1.0 Report Issued To: Glasscraft Door Company

2002 Brittmoore Street Houston, Texas 77043

2.0 Test Laboratory: Intertek-ATI

1909 10th Street Plano, Texas 75074 (469) 814-0687

3.0 Project Summary:

- **3.1 Product Type**: Inswing and Outswing 8'0" Triple Fiberglass Door Glazed
- **3.2 Series/Model**: Inswing and Outswing 8'0" Triple Fiberglass Door Glazed (Inswing is specimen #1; Outswing is specimen #2).
- **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 Dates**: 01/22/2015 01/23/2015
- **3.5 Test Record Retention End Date**: All test records for this report will be retained until January 23, 2019.
- **3.6 Test Location**: Architectural Testing, Inc. test facility in Southlake, Texas.
- **3.7 Test Sample Source**: The test specimens were provided by the client. Representative samples of the test specimens 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 A. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

Name Company
Clint Barnett Intertek-ATI





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4.0 Test Method(s):

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

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimens #1 and #2:

Test Specimens #1 and #2:					
Overall Area:	Wi	dth	Hei	ght	
8.2 m ² (87.80 ft ²)	millimeters	inches	millimeters	inches	
Overall size	3278	129	2489	98	
Double Door	1892	74-1/2	2438	98	
Double Door Unglazed Leaf	914	36	2438	96	
Double Door Glazed Leaf	902	35-1/2	2438	96	
Single Door With Sidelite	1353	53-1/4	2489	98	
Single Door Glazed Leaf	914	36	2438	96	
Single Door Side Lite	356	14	2438	96	

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member Material		Description
Head and jambs	Fiberglass	1-1/4" x 4-5/8" cross section
Threshold	Aluminum-clad vinyl composite with extruded vinyl trim	6" wide with slope towards exterior.

	Joinery Type	Detail	
All corners	Screwed partial rabbet	Secured with four #9 x 3" wood screws	





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5.0 Test Specimen Description: (Continued)

5.3 Panel Construction:

Frame Member	Material	Description
All members	Fiberglass	Fiberglass panels filled with foam

	Joinery Type Detail	
All corners	Glued	Panels were backed with foam

5.4 Weatherstripping:

Description	Quantity	Location
U-shaped foam-filled vinyl gasket with kerf insert	1 Row	Shoulder of the jambs and header
Five fin rubber door sweep	1 Row	Threshold face of leaf

5.5 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
1" IG	1/2" Aluminum box	1/8" Tempered	1/8" Tempered	Exterior wet glazed

Logation	Ouantity	Dayligh	Glass Bite	
Location	Quantity	millimeters	inches	Glass bite
Glazed Doors	2	521 x 1600	20-1/2 x 63	0.50"
Side Lite	1	178 x 1600	7 x 63	0.50"

5.6 Drainage: Sloped threshold was utilized.





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5.0 Test Specimen Description: (Continued)

5.7 Hardware:

Description	Quantity	Location
Door hinge	12	12" and 28" from bottom; 9" and 34-1/2" from top;
Door minge	12	attached with two #9 x 3" and two #9 x 1" wood screws
		Inserted into lock stile of operable leaf, secured with
2 maint look got	2	nine #8 x 3" wood screws at 7-3/8", 14-1/4", 17-9/16",
3 point lock set		26-5/16", 45-13/16", 55-13/16", 62-3/16", 65-7/16"
		and 72-3/4" from bottom
Strike plate 12		On lock jamb in line with 3 point lock and dead bolt;
		secured with two #9 x 3" wood screws each
Flush Bolt	4	Top and bottom of each operable door leaf

5.8 Reinforcement: No reinforcement was utilized.

6.0 Installation:

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/2" shim space. A 2 x 10 was placed at the center of the buck to separate the double door from the single door with a sidelite.

Location	Anchor Description	Anchor Location
Jambs	#9 x 3" wood screws	12" from corners and center; through top and bottom mounting holes of hinges
Head and threshold	#9 x 3" wood screws	4" from corners, 12" on center thereafter





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7.0 Test Results: The temperature during testing was 26.7°C (80°F). The results are tabulated as follows:

Test Specimen #1: Inswing

Test specimen #1. mswing			
Title of Test	Results	Allowed	Note
Uniform Load Deflection,			
per ASTM E 330			
taken at leaf lock edge			
+2400 Pa (+50.13 psf)	11 mm (0.42")		
-2400 Pa (-50.13 psf)	25 mm (1.00")	Report Only	1, 2
Uniform Load Structural,			
per ASTM E 330			
taken at leaf lock edge			
+3600 Pa (+75.19 psf)	1 mm (0.04")	10 mm (0.38") max.	
-3600 Pa (-75.19 psf)	1 mm (0.03")	10 mm (0.38") max.	1, 2

Test Specimen #2: Outswing

rest specimen #2. Outswing			
Title of Test	Results	Allowed	Note
Uniform Load Deflection,			
per ASTM E 330			
taken at leaf lock edge			
+2400 Pa (+50.13 psf)	13 mm (0.52")		
-2400 Pa (-50.13 psf)	11 mm (0.42")	Report Only	1, 2
Uniform Load Structural,			
per ASTM E 330			
taken at leaf lock edge			
+3600 Pa (+75.19 psf)	1 mm (0.04")	10 mm (0.38") max.	
-3600 Pa (-75.19 psf)	2 mm (0.09")	10 mm (0.38") max.	1, 2





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7.0 Test Results: (Continued)

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

Note 1: Loads were held for 10 seconds.

Note 2: 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.

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.

John H. Waskow, P.E.

Director - Regional Operations

For ARCHITECTURAL TESTING, Inc.

Digitally Signed by: Clint Barnett

Clint Barnett

Technician

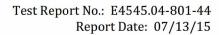
Digitally Signed by: Tyler Westerling

Tyler Westerling, P.E. Senior Project Engineer

CB: dc

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

Appendix-A: Drawings (22)







Revision Log

<u>Rev. #</u>	Date	Page(s)	Revision(s)
1	08/10/15	Cover Page	Changed California P.E. Seal to Florida.
1	08/10/15	Cover Page	Added Texas P.E. Seal
1	08/10/15	6	Added a third signature.

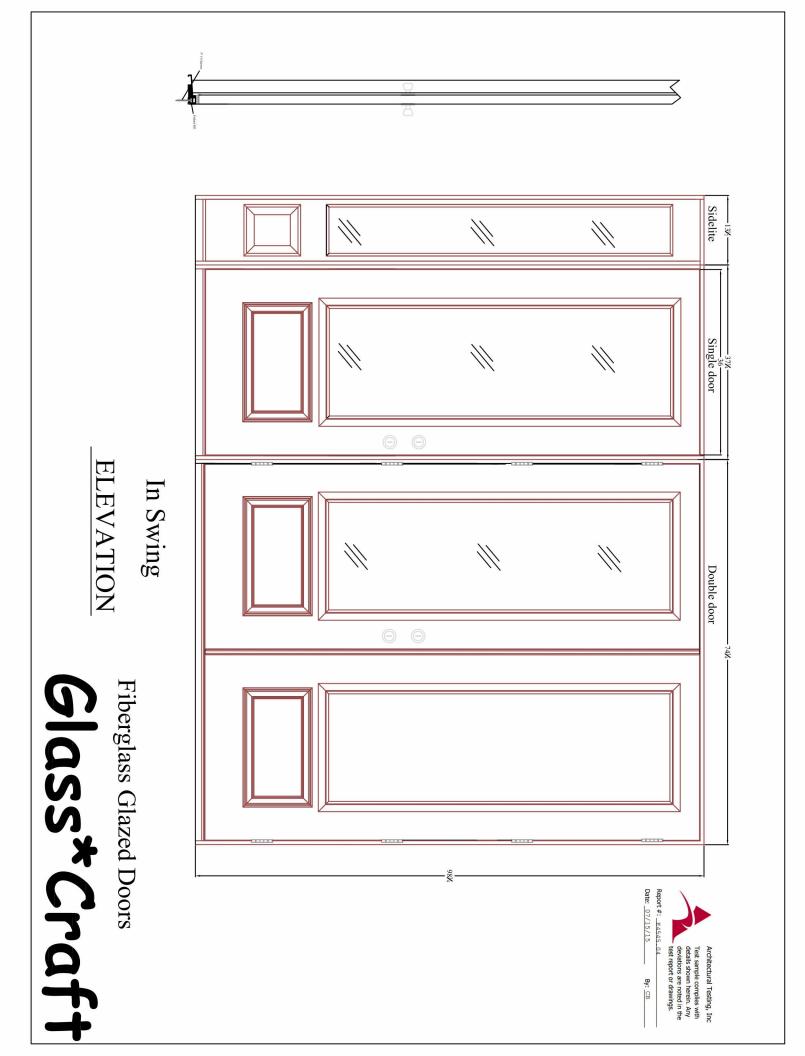


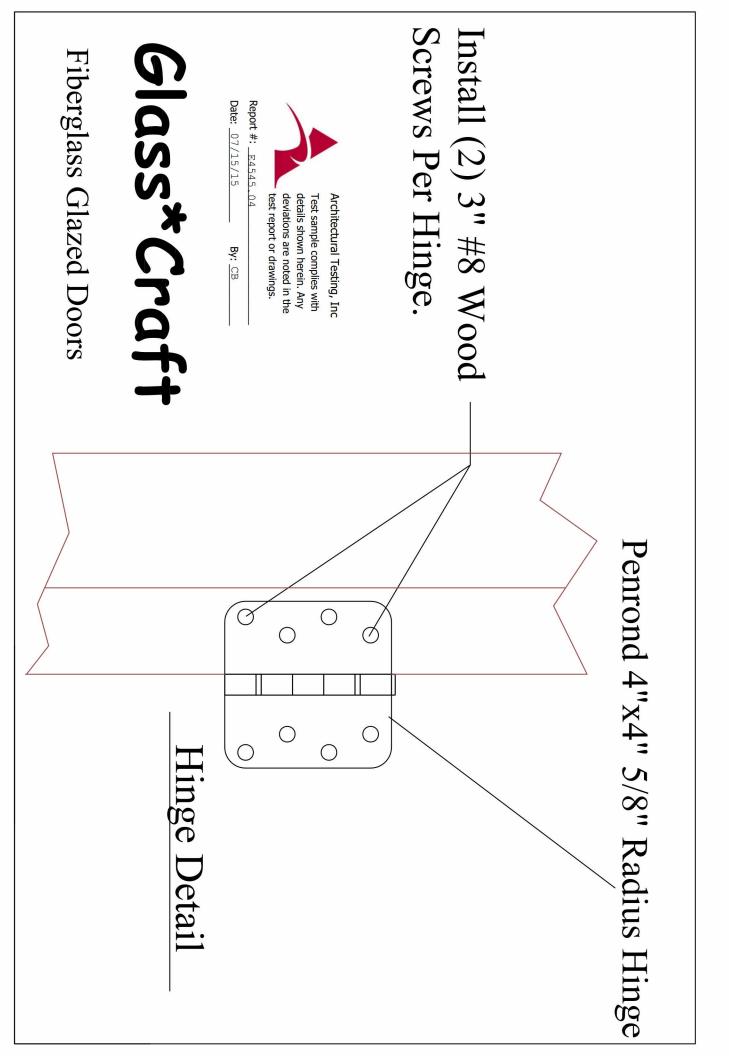


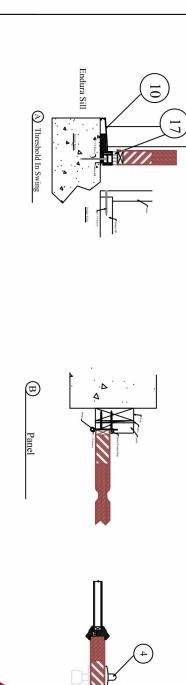
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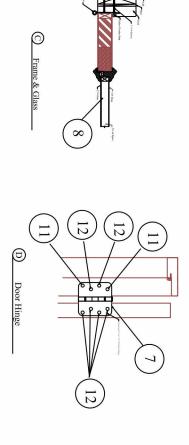
Appendix A

Drawings











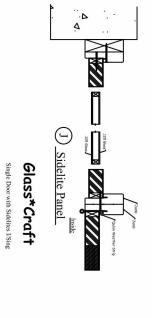
Fiberglass Glazed Doors

Glass*Craft

Report #: E4545.04

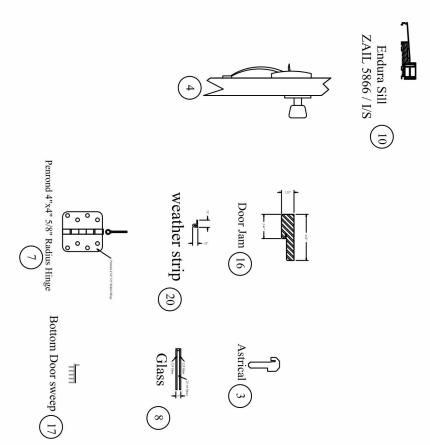
Test sample complies with details shown herein. Any deviations are noted in the test report or drawings.

Architectural Testing, Inc



List of Material

Alum.	Endura Sill ZAIL 5866 / O/S	21
Foam	weather strip	20
Metal	10-32 Sex Bolt	18
Rubber	Bottom Door sweep	17
Composite	Door Jam	16
Composite	$\frac{1}{4}$ Round Trim	13
Metal	#9x1" PFH Wood Screw	12
Metal	3" #9 Wood screw	11
Alum.	Endura Sill ZAIL 5866 / I/S	10
Glass	Glass	8
Metal	Penrond 4"x4" 5/8" Radius Hinge	7
Metal	Imperial USA Ltd.	5
Metal	Handal set	4
Composite	Astrical	3
Wood	2x Buck	2
CONC.	Masonry	_
Material	Description	Item#



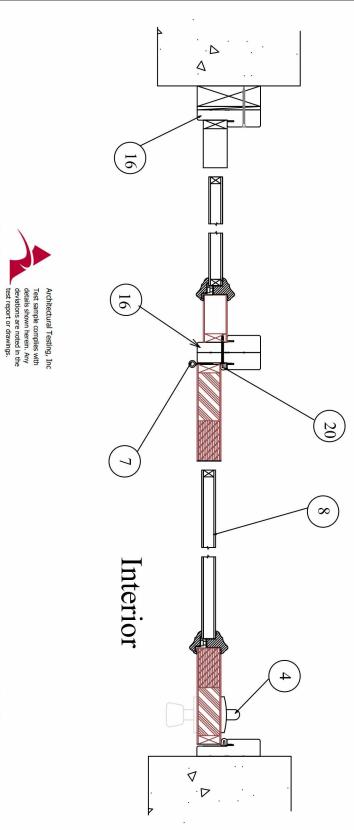


Date: 07/15/15 Report #: _E4545_04

By: CB

Test sample complies with details shown herein. Any deviations are noted in the test report or drawings.

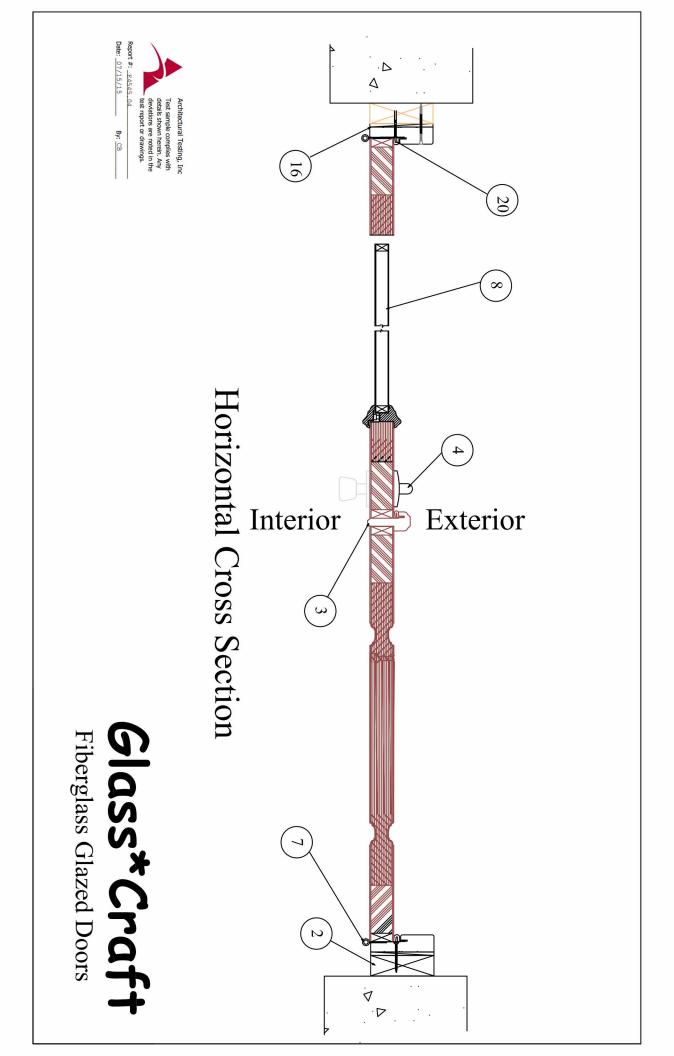
Architectural Testing, Inc



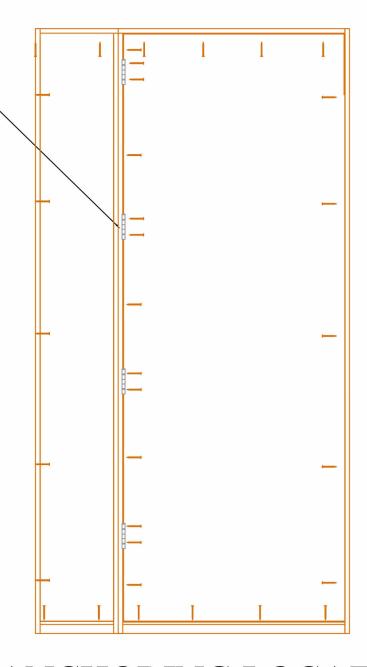
Report #: <u>E4545.04</u>

Date: <u>07/15/15</u>

By: CB



See Hinge Detail





Report #: <u>E4545.04</u>

Date: 07/15/15

By: CB

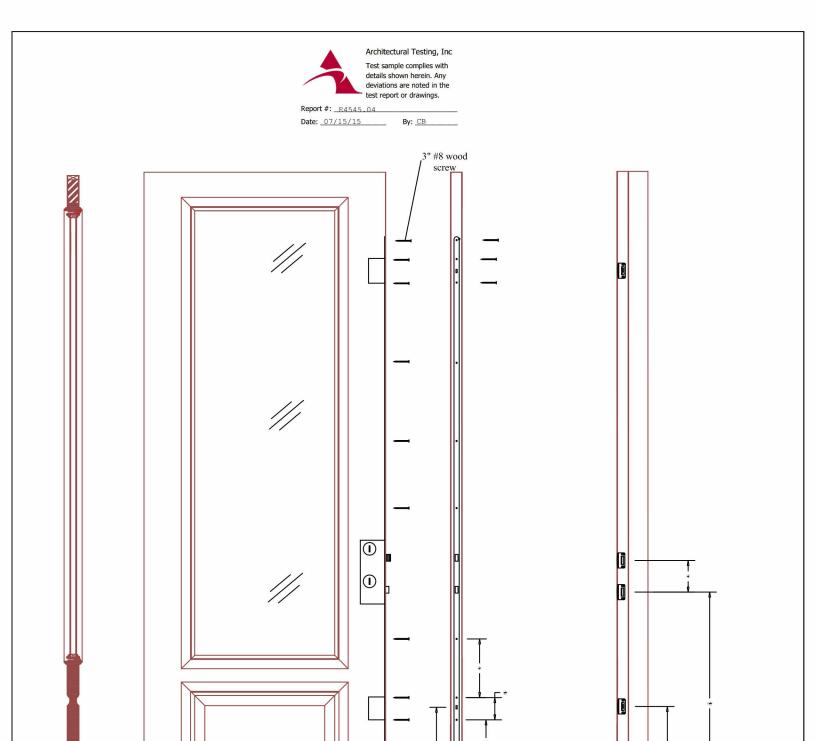
ANCHORING LOCATION

Fiberglass Glazed Doors
Single Door with Sidelites I/Sing

Glass*Craft



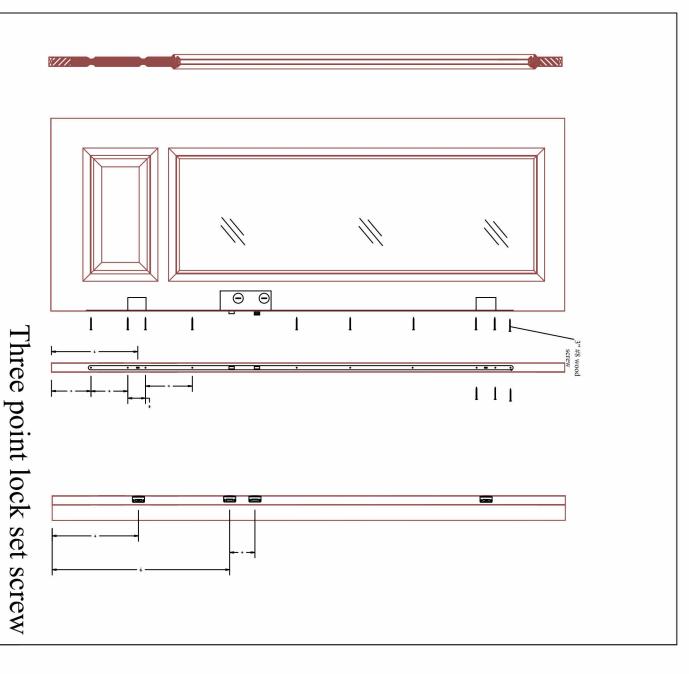




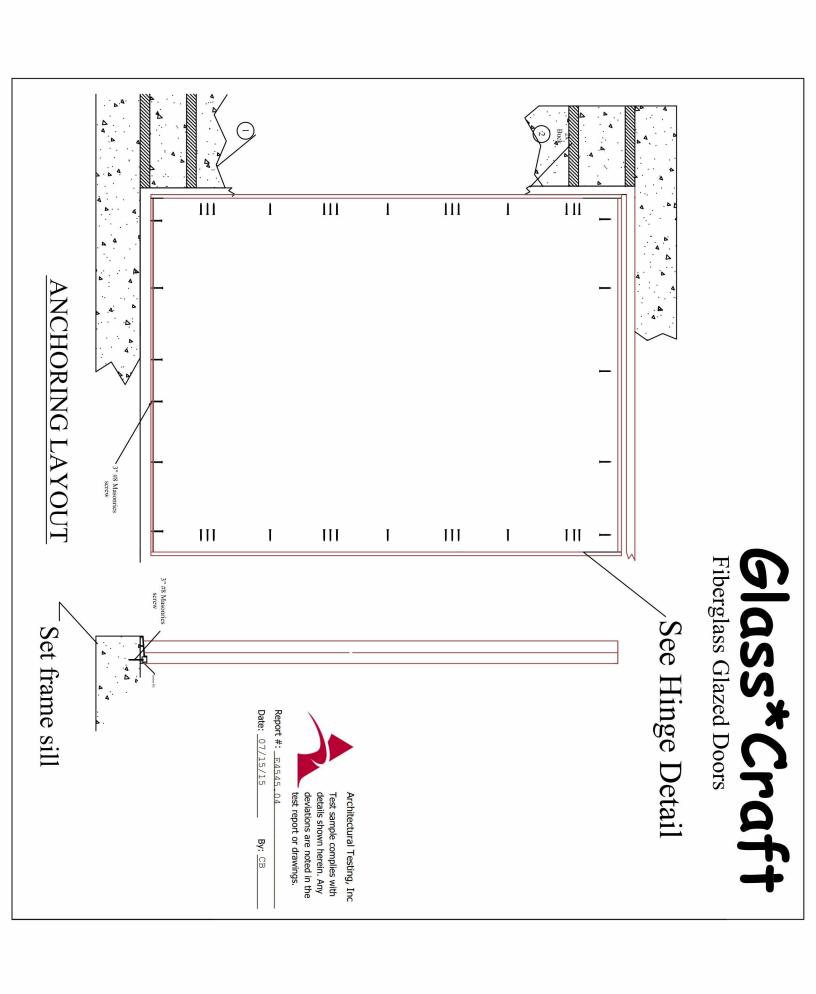
Three point lock set screw location and strike plate

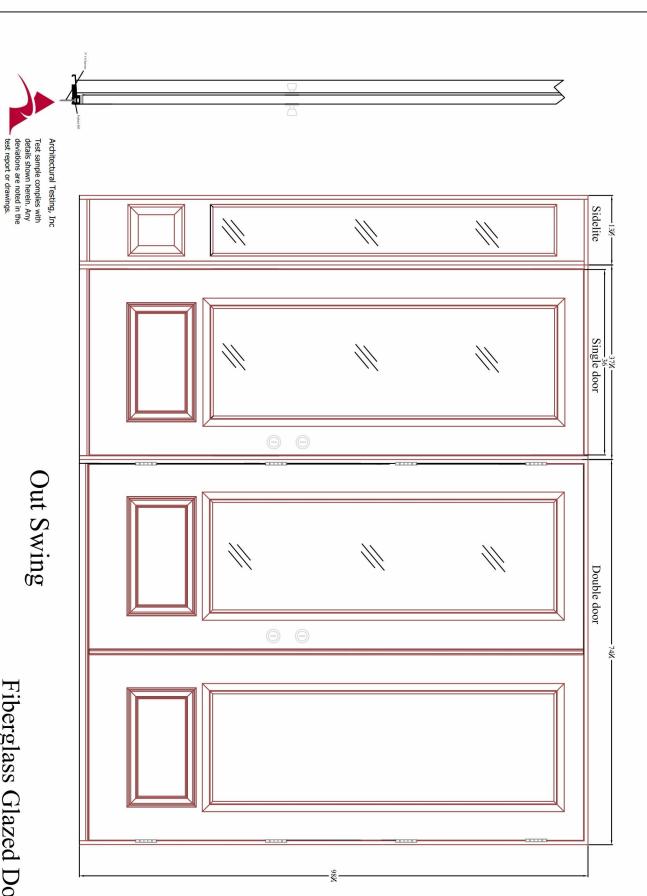
Glass*Craft





location and strike plate





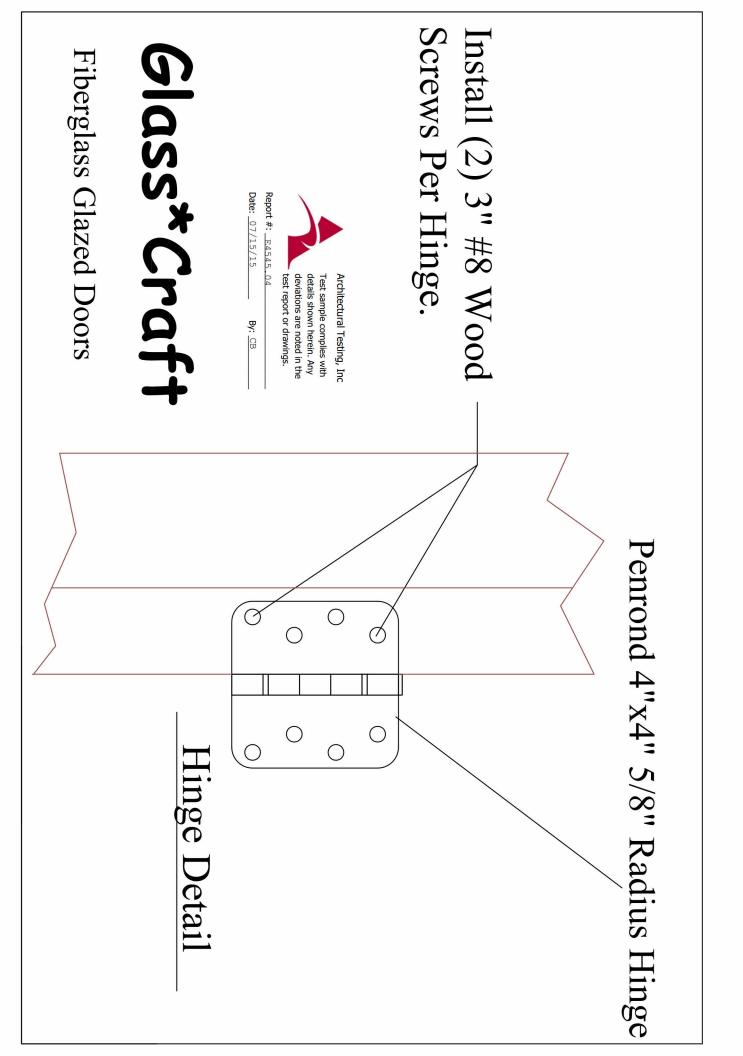
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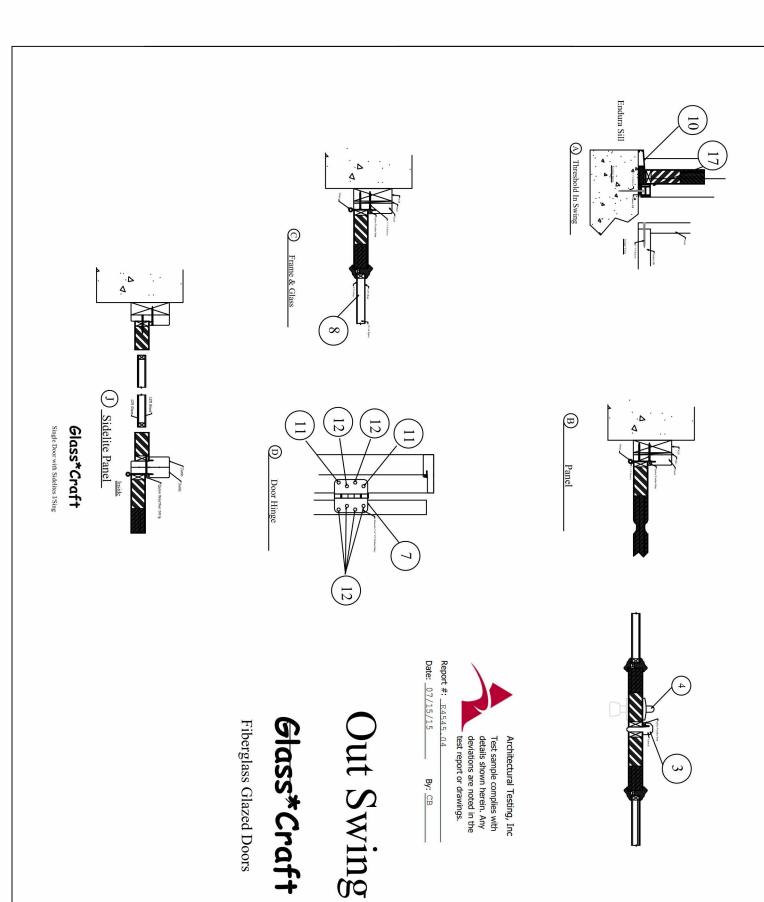
Date: 07/15/15

Ву: СВ

Fiberglass Glazed Doors

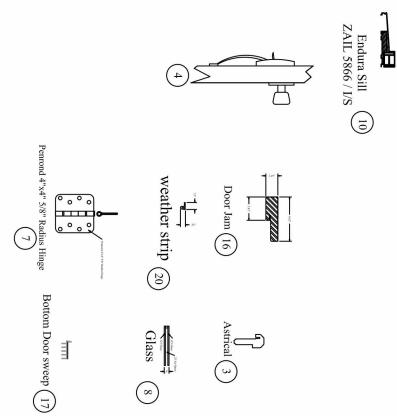
Glass*Craft





List of Material

Alum.	Endura Sill ZAIL 5866 / O/S	21
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Composite	Door Jam	16
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Wood	2x Buck	2
CONC.	Masonry	1
Material	Description	Item#

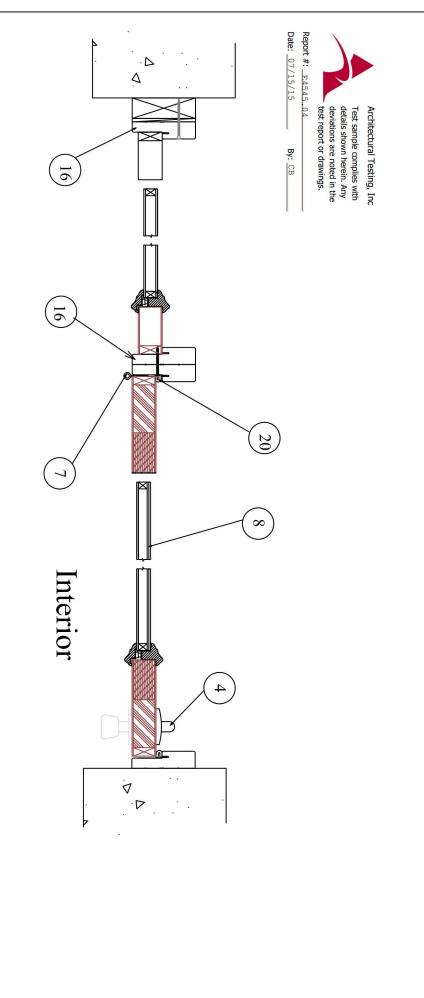


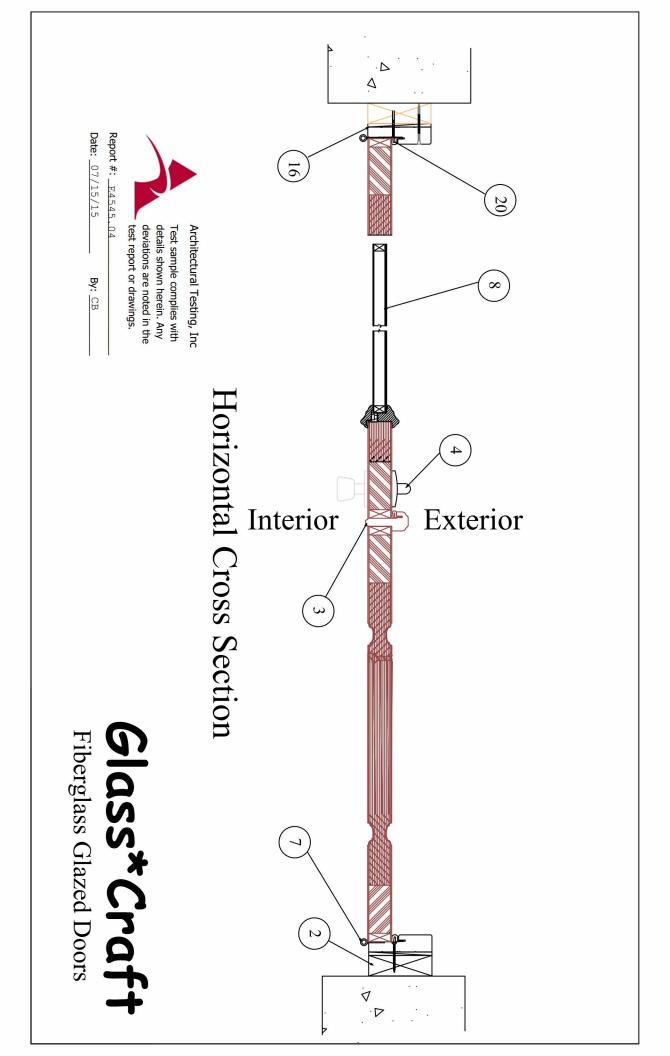


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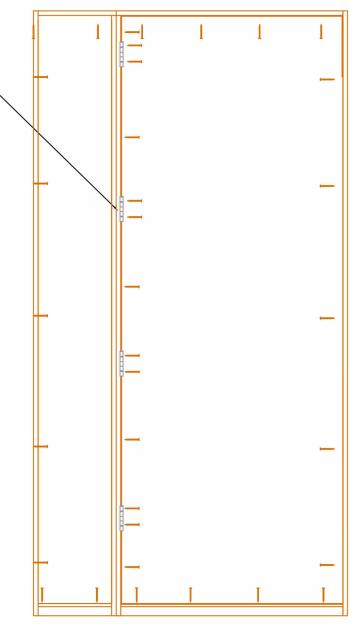
Ву: СВ

Glass*Craft









Architectural Testing, Inc
Test sample complies with
details shown herein. Any
deviations are noted in the
test report or drawings.

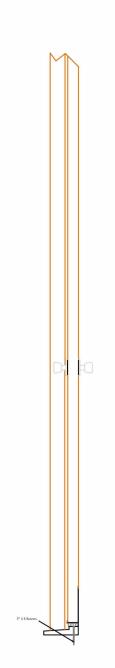
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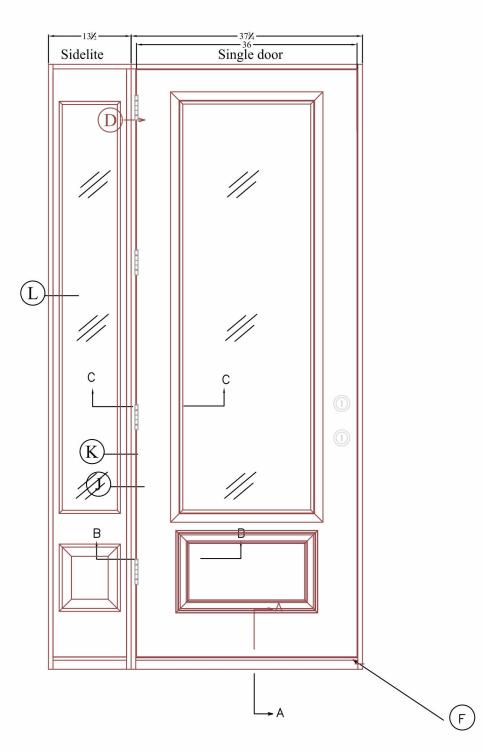
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ANCHORING LOCATION

Fiberglass Glazed Doors
Single Door with Sidelites O/Sing

Glass*Craft





In Swing



details shown herein. Any deviations are noted in the test report or drawings.

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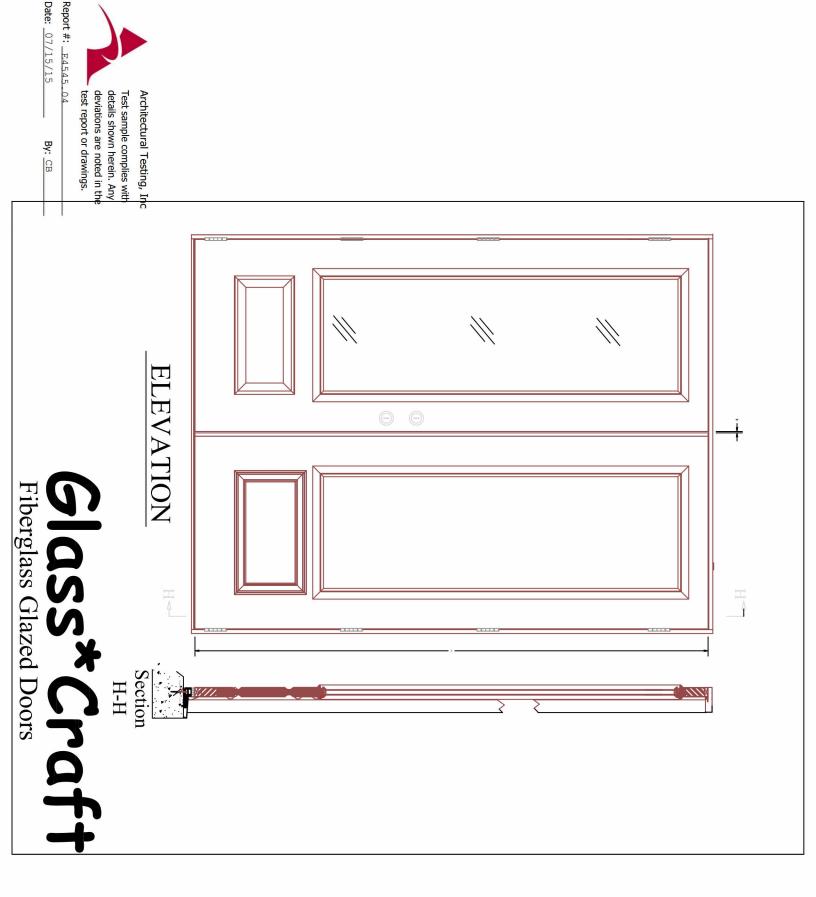
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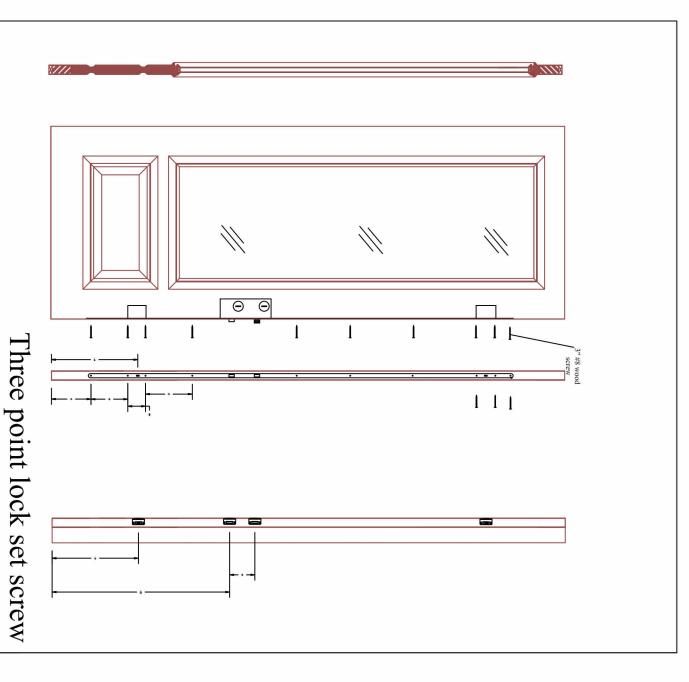
ELEVATION

Glass*Craft

Htybrid Glazed Doors







location and strike plate

