



### **TEST REPORT**

**Report No.**: F8186.01-801-44

Rendered to:

GLASSCRAFT DOOR COMPANY Houston, Texas

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

	Summary of Results		
Title	Test Specimen #1	Test Specimen #2	
Design Pressure	±3840 Pa (±80.20 psf)	±3840 Pa (±80.20 psf)	
Uniform Load Structural Test Pressure	±5760 Pa (±120.30 psf)	±5760 Pa (±120.30 psf)	







2016.06.27 10:23:30 -07'00'

2016.06.27 13:23:15 -05'00'

Reference must be made to Report No. E8186.04-801-44, dated 06/13/16 for complete test specimen description and detailed test results.





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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 10<sup>th</sup> Street Plano, Texas 75074 (469) 814-0687

### **3.0 Project Summary**:

- **3.1 Product Type**: Inswing and Outswing 8'0" Triple Steel Door Glazed
- **3.2 Series/Model**: Inswing and Outswing 8'0" Triple Steel 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**: 5/23/16
- **3.5 Test Record Retention End Date**: All test records for this report will be retained until May 23, 2020.
- 3.6 Test Location: Intertek-ATI test facility in Plano, 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:

1 est specimens #1 and #2.					
Overall Area:	Width		Height		
8.2 m <sup>2</sup> (87.80 ft <sup>2</sup> )	millimeters inches		millimeters	inches	
Overall size	3008	119-3/8	2505	98	
Single Door Glazed Leaf (3)	914	36	2438	96	

### The following descriptions apply to all specimens.

### **5.2 Frame Construction:**

Frame Member	me 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 De	
All corners	Screwed partial rabbet	Secured with four #8 x 3" wood screws





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### **5.0 Test Specimen Description**: (Continued)

### **5.3 Panel Construction:**

Frame Member	Material	Description
All members	18 Gauge Steel	Steel Panels with foam

	Joinery Type	Detail
All corners	Bonding Glue	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

Location	Quantity	Daylight Opening		Glass Bite
Location	Quantity	millimeters	inches	Glass Bite
Glazed Doors	3	533 x 1600	21 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 nine
2 noint look got	set 3	#8 x 3" wood screws at 7-3/8", 14-1/4", 17-9/16", 26-
3 point lock set		5/16", 45-13/16", 55-13/16", 62-3/16", 65-7/16" and
		72-3/4" from bottom
Ctuiles alsts 12		On lock jamb in line with 3 point lock and dead bolt;
Strike plate	12	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 6 was placed at the center of the buck to separate the double door from the single door.

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

resemble in 1. mswing			
Title of Test	Results	Allowed	Note
Uniform Load Deflection,			
per ASTM E 330			
taken at leaf lock edge			
+3840 Pa (+80.20 psf)	5 mm (0.21")		
-3840 Pa (-80.20 psf)	10 mm (0.39")	Report Only	1, 2
Uniform Load Structural,			
per ASTM E 330			
taken at leaf lock edge			
+5760 Pa (+120.30 psf)	1 mm (0.02")	10 mm (0.38") max.	
-5760 Pa (-120.30 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			
+3840 Pa (+80.20 psf)	8 mm (0.31")		
-3840 Pa (-80.20 psf)	5 mm (0.21")	Report Only	1, 2
Uniform Load Structural,			
per ASTM E 330			
taken at leaf lock edge			
+5760 Pa (+120.30 psf)	1 mm (0.02")	10 mm (0.38") max.	
-5760 Pa (-120.30 psf)	1 mm (0.02")	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: cm

Attachments (pages): This report is complete only when all attachments listed are included. Appendix-A: Drawings (13)



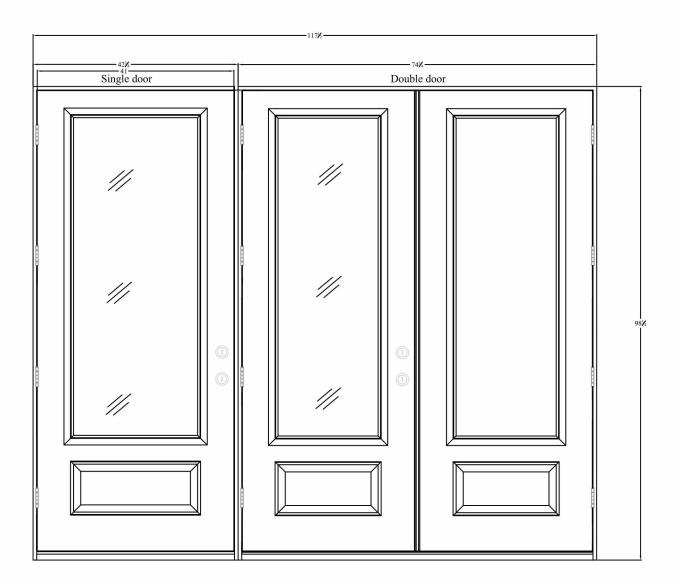


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### Appendix A

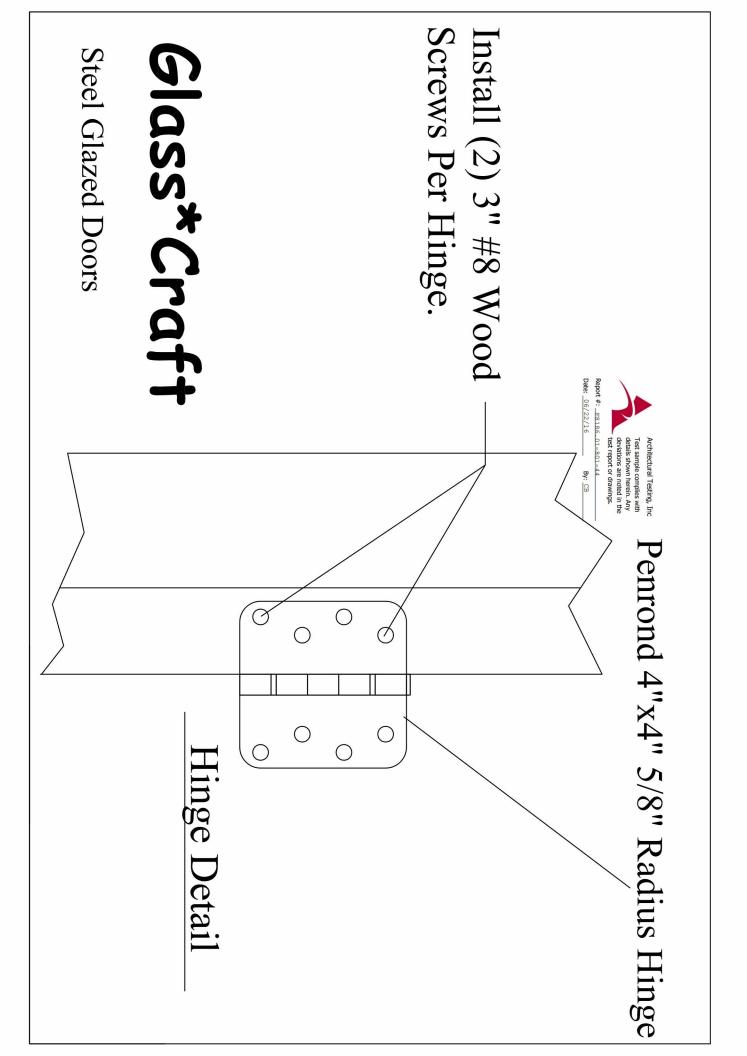
**Drawings** 

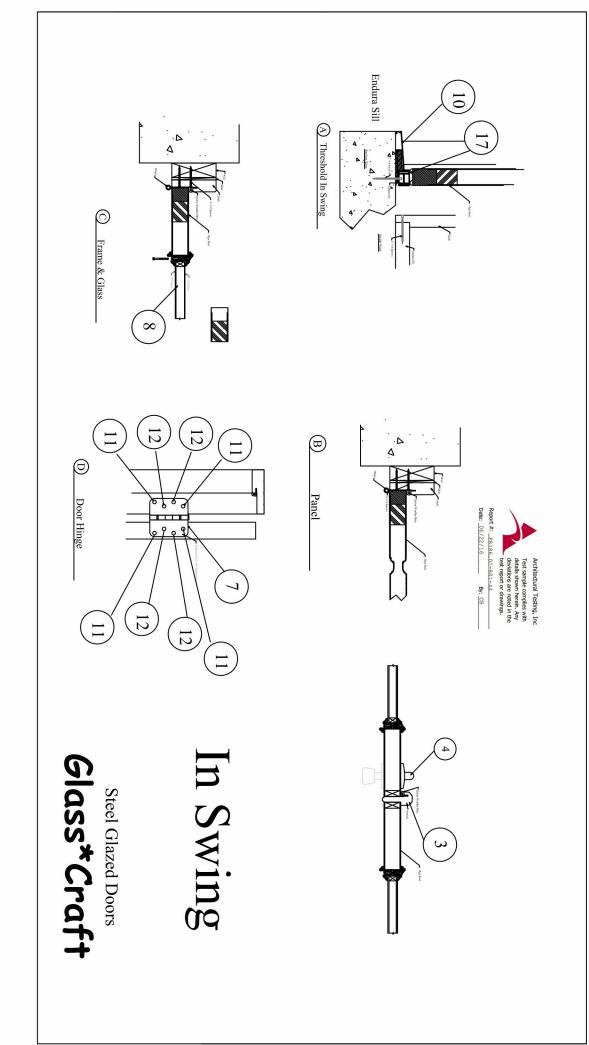


Wind Load In-swing Out swing Triple 8'-0 Steel Double Full Light Glazed Door & Single Full Light Glaze Door.

Test specifications and Quotes

ASTM E-330-02
Qty. 2 Sample Req'd

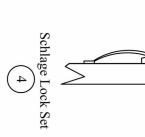


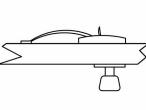


## List of Material

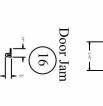
Endura Sill (10) ZAIL 5866 / I/S

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	Rockwood Surface Bolts #580	5
Metal	Imperial USA Ltd.	4
Alum.	Astrical	သ
Wood	2x Buck	2
CONC.	Masonry	1
Material	Description	Item#

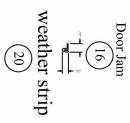




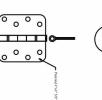




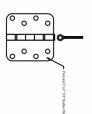
Astrical 3

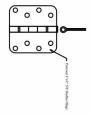




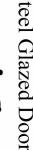


Glass









# Steel Glazed Doors Glass\*Craft



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

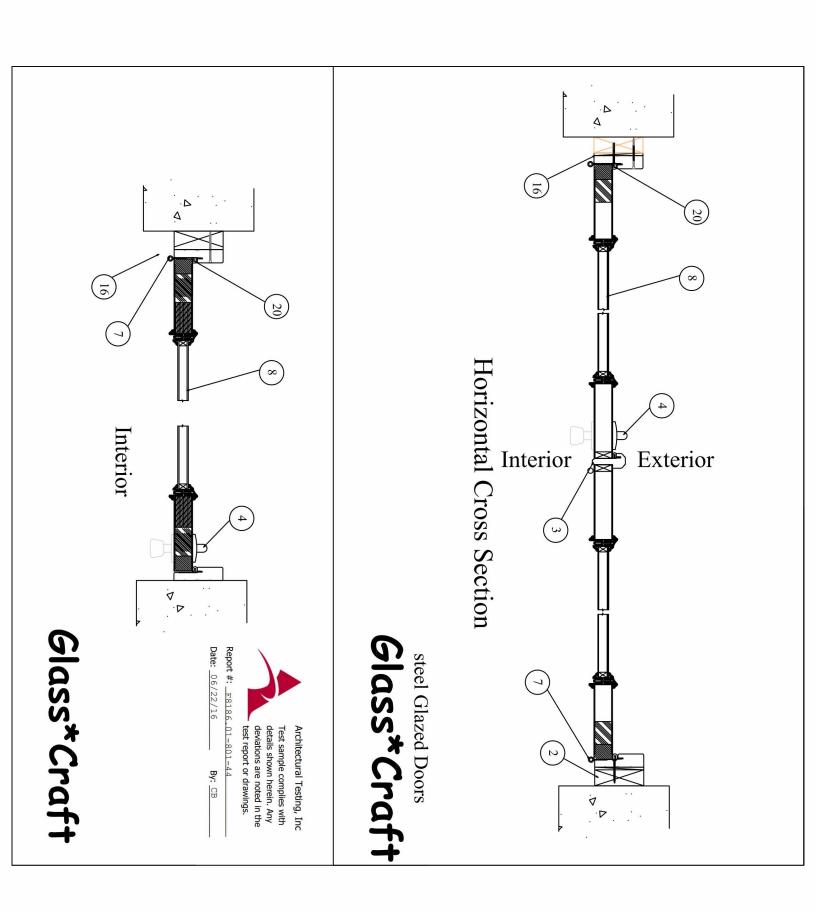
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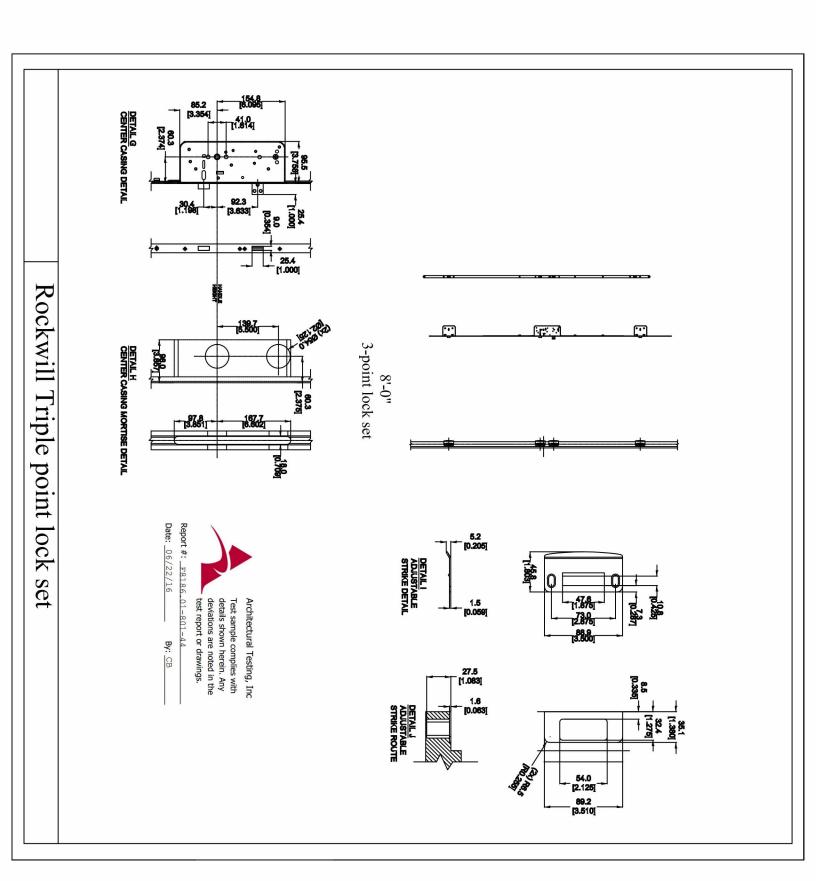
Date: 06/22/16

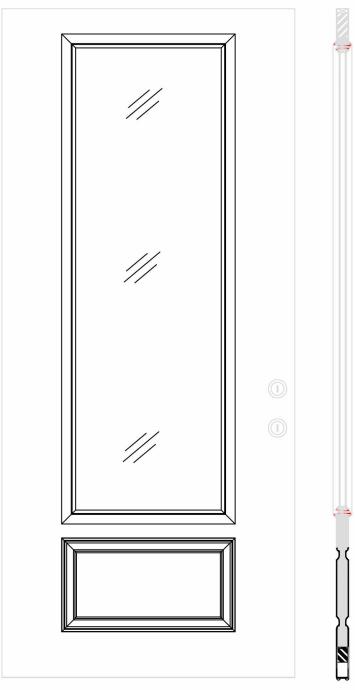
Penrond 4"x4" 5/8" Radius Hinge

(7)

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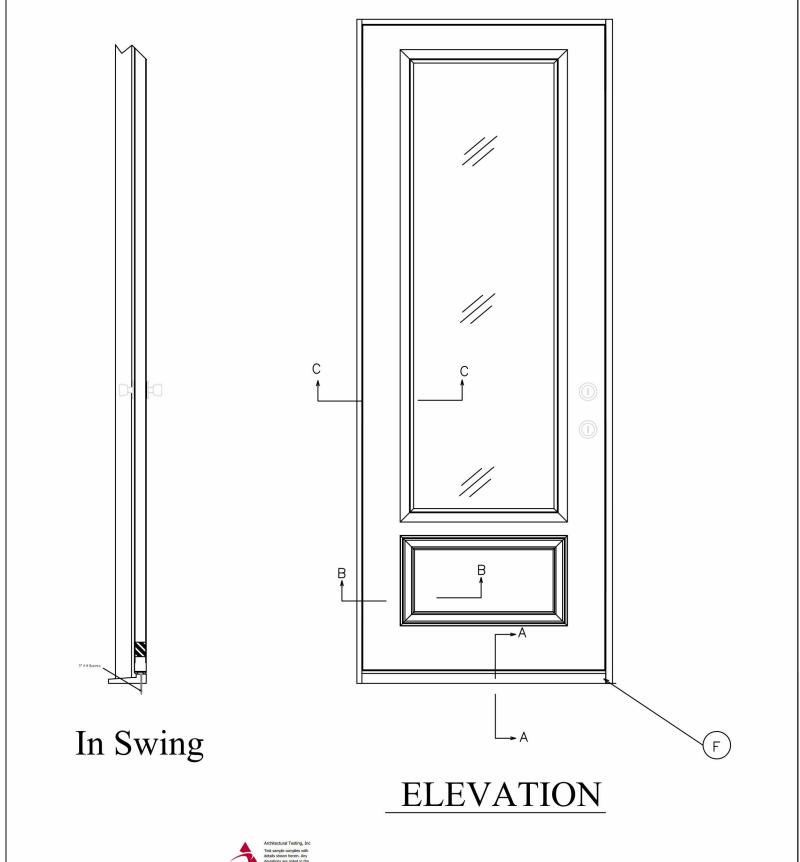




Architectural Testing, Inc Test sample complies with details shown herein. Any deviations are noted in the test report or drawings.

Report #: F8186.01-801-44

Date: \_06/22/16

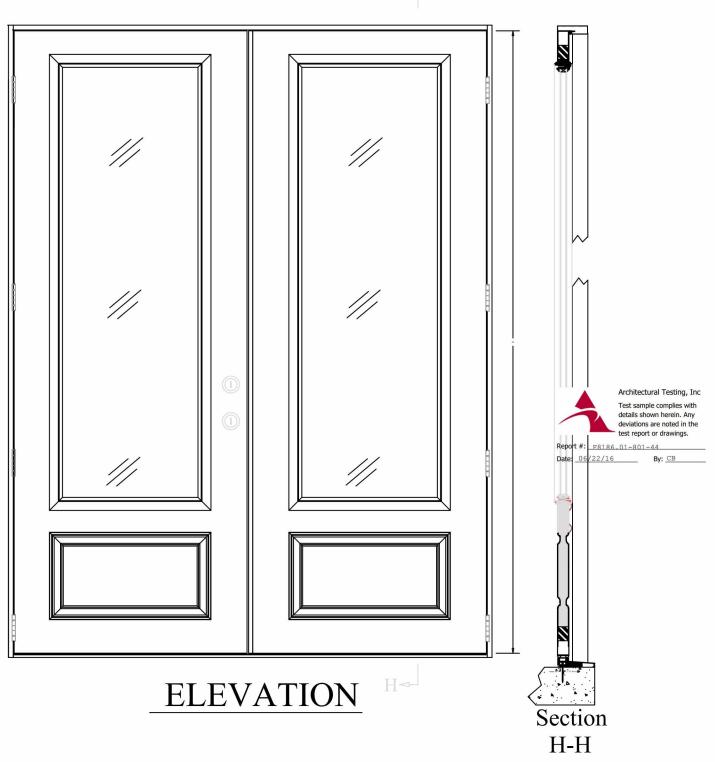


Test sample compiles with details shown herein. Any devisitions are noted in the test report or drawings.

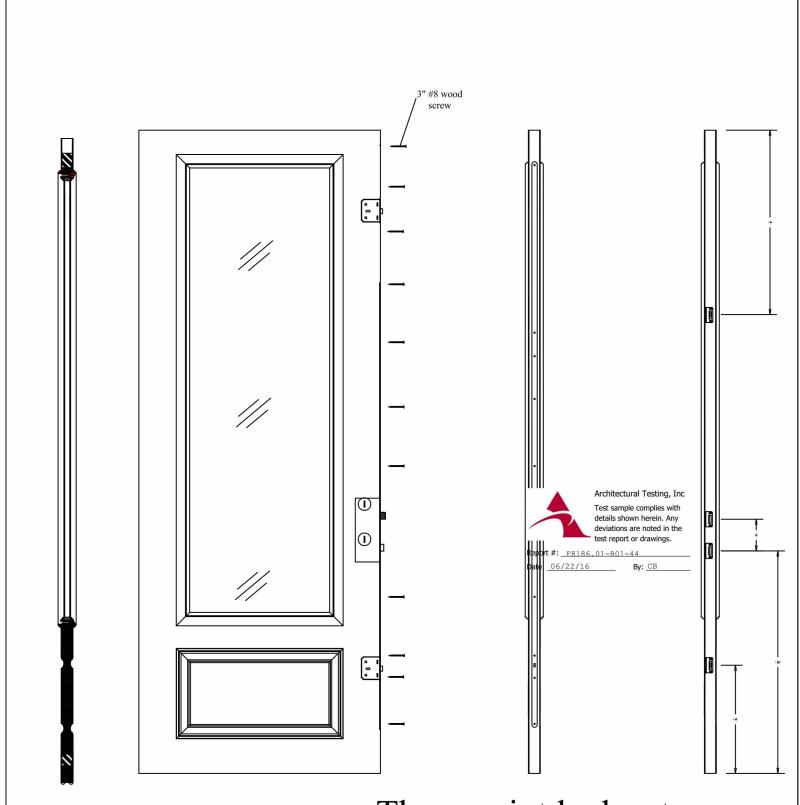
Report #: P8186. n1-811-44

Date: 06/22/16 By: CB

SteelGlazed Doors



Steel Glazed Doors



Three point lock set screw location and strike plate

Glass\*Craft

Steel Glazed Doors

### See Hinge Detail Architectural Testing, Inc Test sample complies with details shown herein. Any deviations are noted in the test report or drawings. Report #: F8186.01-801-44 Date: 06/22/16 By: CB **ANCHORING LOCATION**

Steel Glazed
Door I/Sing

