



TEST REPORT

Report No.: E4545.01-801-44

Rendered to:

GLASSCRAFT DOOR COMPANY

Houston, Texas

PRODUCT TYPE: Inswing and Outswing 8'0" Single Fiberglass Door with Speak Easy SERIES/MODEL: 8'0" Single Fiberglass Door with Speak Easy 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) | |



John H Wasker P.E.

2015.08.12 15:55:36 -05'00'



2ylu Wys
Digitally Signed by: Tyler Westerling

2015.08.12 11:27:18 -07'00'

Reference must be made to Report No. E4545.01-801-44, dated 07/01/15 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 10th Street Plano, Texas 75074 (469) 814-0687

3.0 Project Summary:

- 3.1 Product Type: In-Swing and Out-Swing 8'0" Fiberglass Door with Speak Easy
- **3.2 Series/Model**: 8'0" Fiberglass Door with Speak Easy (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 03/15/2015
- **3.5 Test Record Retention End Date**: All test records for this report will be retained until March 15, 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:

| rest specimens "rana "2. | | | | | |
|--|--------------------------|--------|-------------|--------|--|
| Overall Area: | Width millimeters inches | | Height | | |
| 2.4 m ² (25.52 ft ²) | | | millimeters | inches | |
| Overall size | 953 | 37-1/2 | 2489 | 98 | |
| Leaf | 914 | 36 | 2438 | 96 | |

The following descriptions apply to all specimens.

5.2 Frame Construction:

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

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

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 |





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5.0 Test Specimen Description: (Continued)

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" Annealed | 1/8" Annealed- 0.09" PVB Inerlayer- 1/8" Annealed | Exterior wet glazed |

| Location | Quantity | Daylight Opening | | Glass Bite |
|-----------|----------|------------------|------------|------------|
| Location | Quantity | millimeters | inches | Glass bite |
| Speakeasy | 1 | 152 x 292 | 6 x 11-1/2 | 1/2" |

5.6 Drainage: Sloped threshold was utilized.

5.7 Hardware:

| Description | Quantity | Location | |
|------------------|--|--|--|
| Door hinge | 4 | 12" and 28" from bottom; 9" and 34-1/2" from top; attached with two #9 x 3" and two #9 x 1" wood screws | |
| 3 point lock set | 1 | Inserted into lock stile of operable leaf, secured with nine #8 x 3" wood screws at 7-3/8", 14-1/4", 17-9/16 26-5/16", 45-13/16", 55-13/16", 62-3/16", 65-7/16 and 72-3/4" from bottom | |
| Strike plate | ate 4 On lock jamb in line with 3 point lock a secured with two #9 x 3" wood screws eac | | |
| Latch | 1 per leaf | Centered on speak easy lock stile | |
| Keeper | 1 per leaf | In line with latch, on speak easy frame | |
| Hinge | 2 per leaf | 3" from top and bottom of speak easy | |





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5.8 Reinforcement: No reinforcement was utilized.

5.9 Screen Construction: No screen 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.

| 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

| Title of Test | Results | Allowed | Note |
|--------------------------|--------------|--------------------|------|
| Uniform Load Deflection, | | | |
| per ASTM E 330 | | | |
| taken at leaf lock edge | | | |
| +2400 Pa (+50.13 psf) | 3 mm (0.13") | | |
| -2400 Pa (-50.13 psf) | 1 mm (0.02") | Report Only | 1, 2 |
| Uniform Load Structural, | | | |
| per ASTM E 330 | | | |
| taken at leaf lock edge | | | |
| +3600 Pa (+75.19 psf) | 1 mm (0.02") | 10 mm (0.38") max. | |
| -3600 Pa (-75.19 psf) | 1 mm (0.02") | 10 mm (0.38") max. | 1, 2 |

Test Specimen #2: Outswing

| Test 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) | 1 mm (0.02") | | |
| -2400 Pa (-50.13 psf) | 4 mm (0.16") | Report Only | 1, 2 |
| Uniform Load Structural, | | | |
| per ASTM E 330 | | | |
| taken at leaf lock edge | | | |
| +3600 Pa (+75.19 psf) | < 1 mm (0.01") | 10 mm (0.38") max. | |
| -3600 Pa (-75.19 psf) | < 1 mm (0.01") | 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.

For ARCHITECTURAL TESTING, Inc.

Digitally Signed by: Clint Barnett

Clint Barnett Technician Digitally Signed by: John H. Waskow

John H. Waskow, P.E.

Director – Regional Operations

Digitally Signed by: Tyler Westerling

Tyler Westerling, P.E. Senior Project Engineer

CB/JW: hd

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

Appendix-A: Drawings (12)





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Revision Log

| <u>Rev. #</u> | <u>Date</u> | Page(s) | Revision(s) | | | | | | | |
|---------------|-------------|------------|--------------------------------------|--|--|--|--|--|--|--|
| 1 | 07/24/15 | 4 | Changed frame material to fiberglass | | | | | | | |
| 2 | 08/10/15 | Cover Page | Added second P.E. Seal | | | | | | | |
| 2 | 08/10/15 | 6 | Added third signature. | | | | | | | |



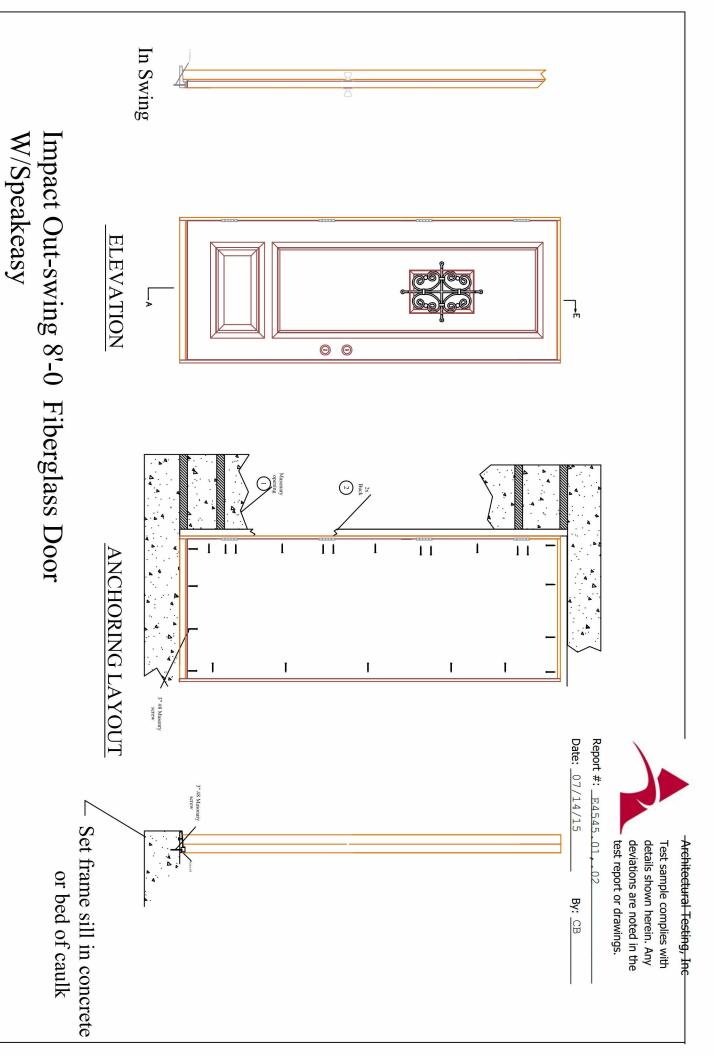


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Appendix A

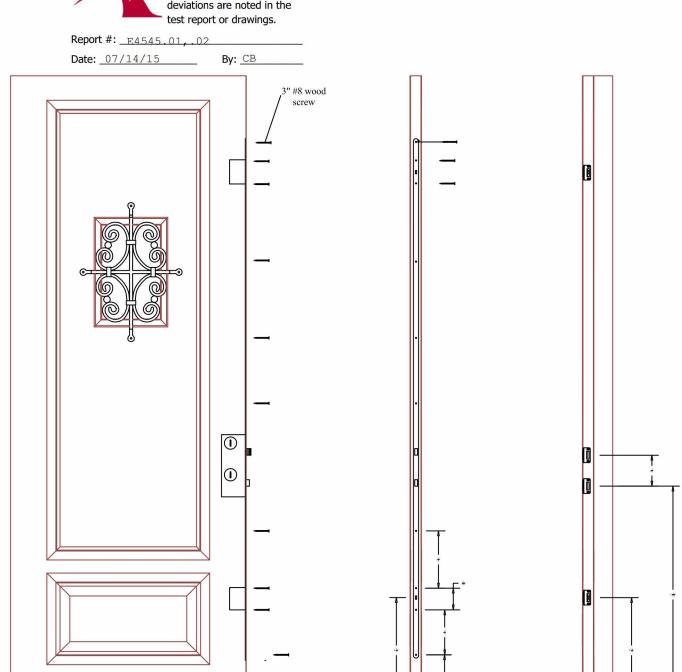
Drawings



Inside View / Out swing

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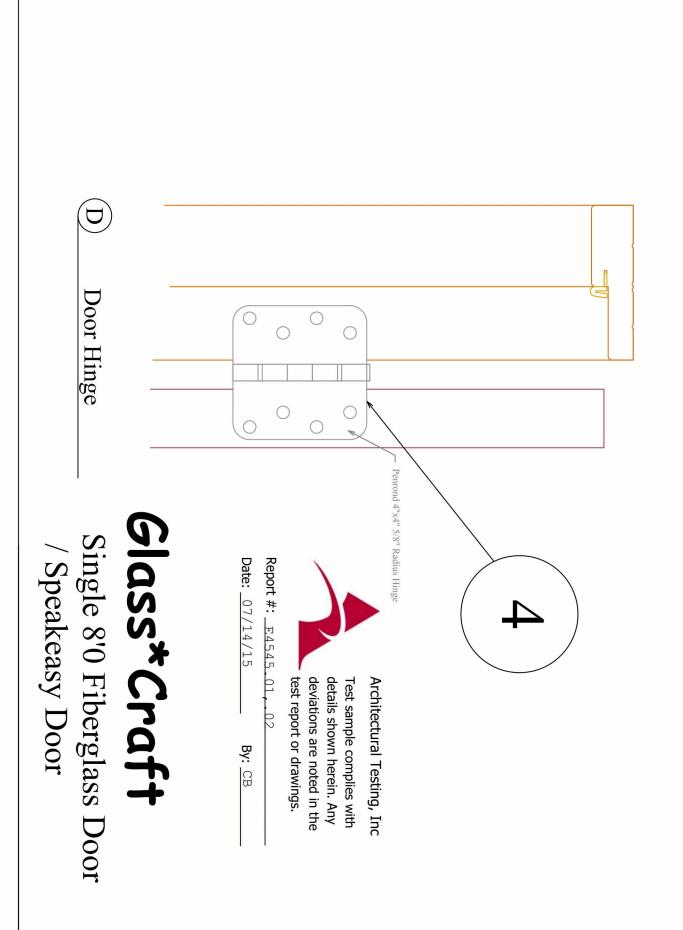


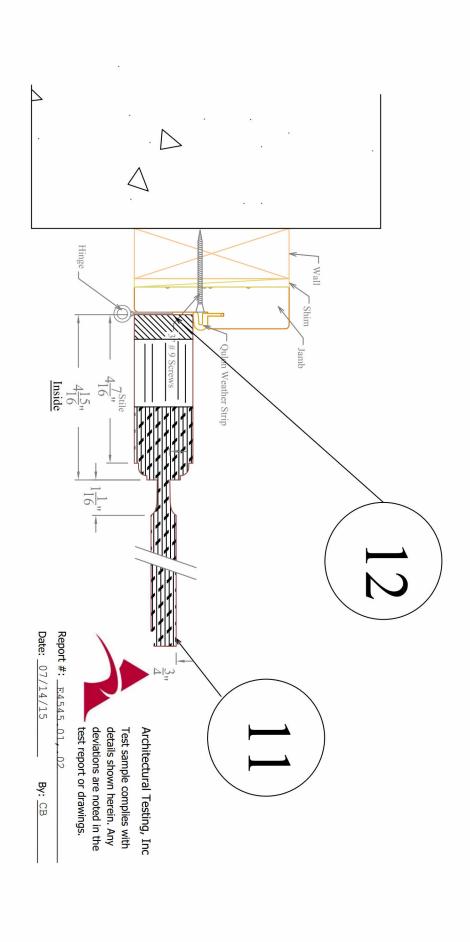


Three point lock set screw location and strike plate

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Impact Fiberglass Glazed Doors

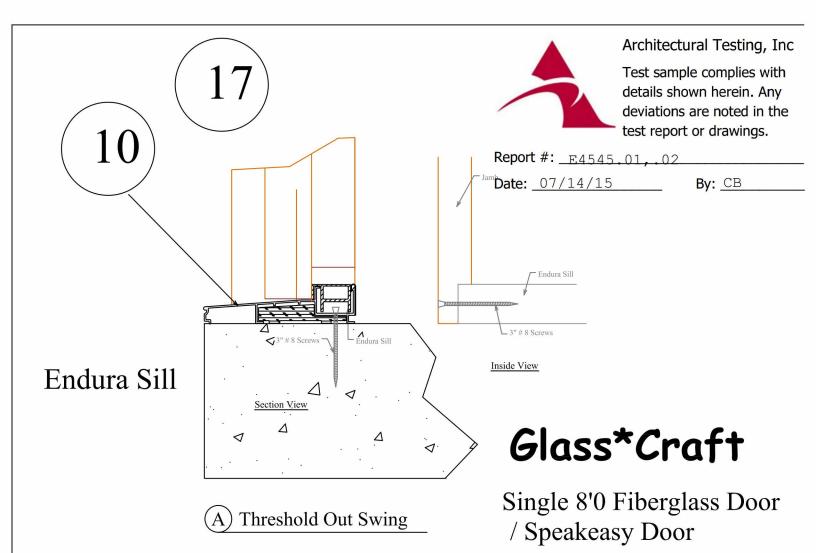




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B

Single 8'0 Fiberglass Door / Speakeasy Door



Install Outside Housing

MOTE: Do not install adapter ring if using 1%" (38 mm) hole.

- FOR F360/F360: Ensure pin is positioned to side through correct backs et alot in deadbolt.
- b. Insert housing through escutcheon and adapter ring and into door. Driver bar should side under deadboit.

Instalación del alojamiento exterior.

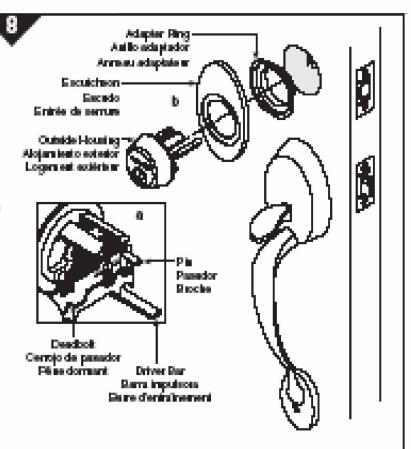
MOTA: Si se usa un agujero de 35 mm no se instala un anillo adaptador.

- BARA LOS MODELOS F350/F352: Se debe verificar que el passador está colocado de ramera que se desfice a través de la ramas en el passado que corresponda a la distancia correcta del borde de la puerta al centro de la bocallave.
- b. Introducir el alojamiento en la puerta, a través del escudo y del anil lo adaptador. La barra impulsora debe destizares debajo del pasado.

Installation du logement extérieur

REMARQUE: Ne pas installer l'annesu adaptateur si le trou 35 mm est utilisé.

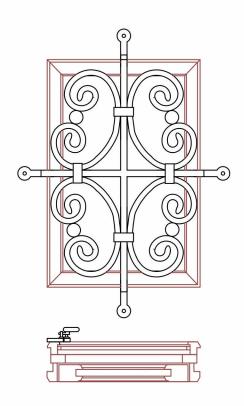
- pOUR les modéles F350/F352: S'assurer que la broche est placée de sorte à glasser dans la fente d'écartement correct du père dormant.
- b. Inserer le logement par l'entré e de serrure et l'anneau adaptateur et dans la porte. La baire d'entraînement doit glisser sous le pêne dormant.

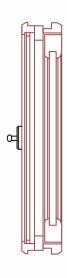




Report #: <u>E4545.01,.02</u>

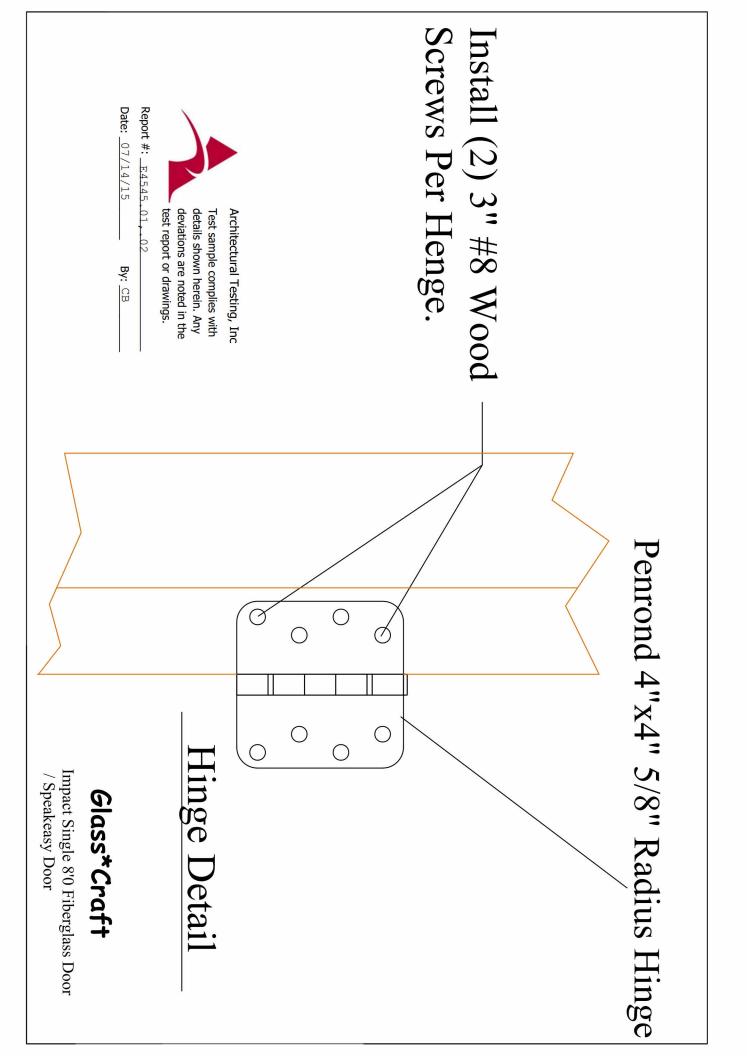
Date: 07/14/15 By: CB





Speakeasy

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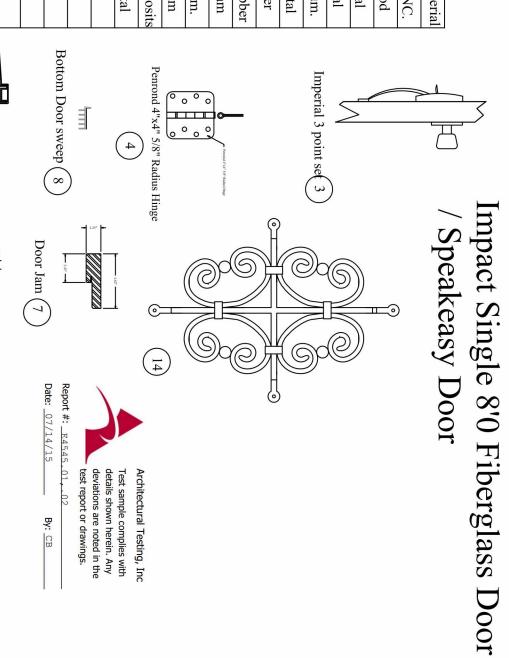
List of Material

| | | | | 14 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | သ | 2 | 1 | Item# |
|--|--|--|--|------------------------|-----------|-----------|-----------------------------|---------------|-------------------|----------|------------------|-----------------------------|---------------------------------|---------------------------|---------|---------|-------------|
| | | | | Impact speakeasy grill | Stile | Door Fill | Endura Sill ZAIL 5866 / O/S | weather strip | Bottom Door sweep | Door Jam | 3" #9 Wood screw | Endura Sill ZAIL 5866 / I/S | Penrond 4"x4" 5/8" Radius Hinge | Imperial 3 point lock set | 2x Buck | Masonry | Discription |
| | | | | Metal | Composits | Foam | Alum. | Foam | Rubber | Fiber | Metal | Alum. | Metal | Metal | Wood | CONC. | Material |

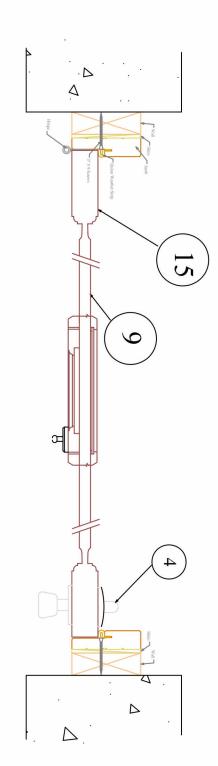
Endura Sill (10) ZAIL 5866 / I/S

weather strip (9)

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Exterior

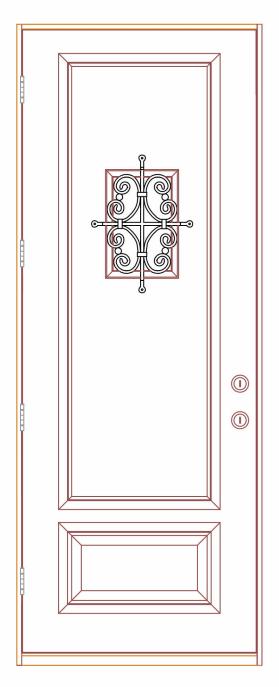




Interior

Horizontal Cross Section

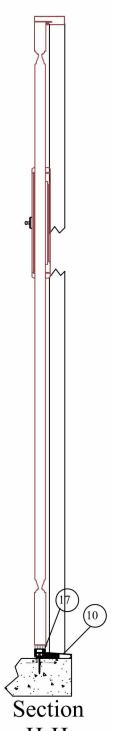
Impact Single 8'0 Fiberglass D&dass*Craft / Speakeasy Door





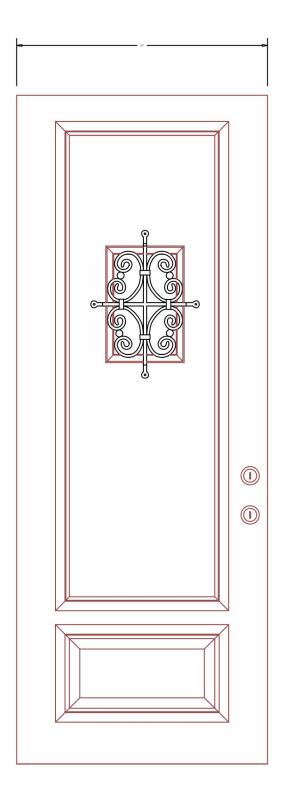
Report #: <u>E4545.01,.02</u>

Date: 07/14/15 By: CI



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Impact Single 8'0 Fiberglass Door / Speakeasy Door





Architectural Testing, Inc

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

Report #: <u>E4545.01,.02</u>

Date: _07/14/15_____

By: <u>CB</u>

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ImpactSingle 8'0 Impact Fiberglass Door / Speakeasy Door

