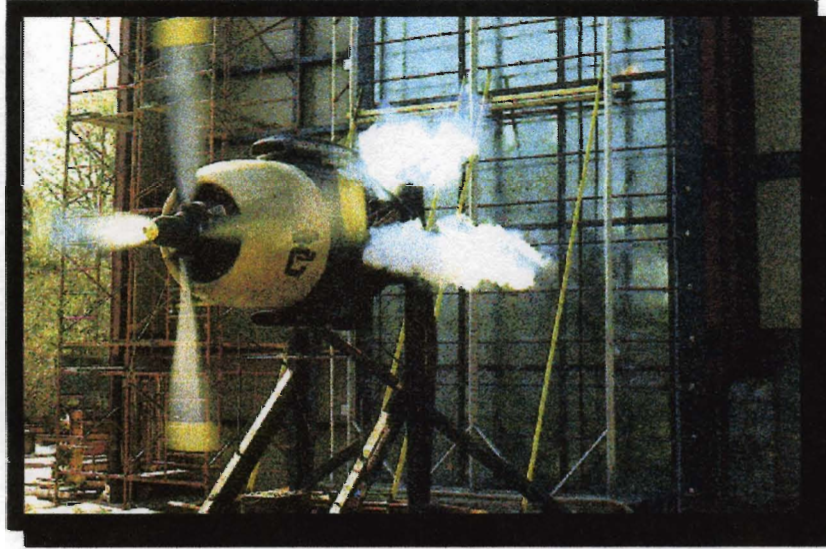




CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*



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**TEST REPORT:**

**AAMA 506-2000 Performance Testing  
Simpson Door Company  
Series 7001 Wood French Out-Swing  
REPORT #CCLI-05-083**

**August 3, 2005**

---

Prepared for:

**Simpson Door Company**  
400 Simpson Ave  
McCleary, WA 98557

1601 Luna Road  
Carrollton, Texas 75006

**S-UNITED, INC.**  
*A Quality Control Company*

Office: (972) 242-0556  
FAX: (972) 245-6047



AAMA 506-2000 PERFORMANCE TESTING  
SIMPSON DOOR COMPANY  
SERIES 7001 WOOD FRENCH OUT-SWING  
REPORT #CCL1-05-083

August 3, 2005

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| 4. IMPACT ACCEPTANCE CRITERIA ..... | 1 |
| 5. TEST SPECIMEN .....              | 2 |
| 6. DESCRIPTION.....                 | 2 |
| 7. PERFORMANCE RESULTS.....         | 4 |
| 8. CONCLUSION .....                 | 6 |

### APPENDIXES

- APPENDIX A: SIMPSON DOOR COMPANY 7001 WOOD FRENCH OUT-SWING  
PRODUCT DRAWINGS
- APPENDIX B: PHOTOGRAPH



**AAMA 506-2000 PERFORMANCE TESTING**  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
 REPORT #CCLI-05-083

August 3, 2005  
Page 1 of 6

**1. PROJECT DATA**

**Project:** AAMA 506-2000 Performance Testing

**Date(s) of Testing:** April 18-29, 2005

**Tested For:** Simpson Door Company  
 400 Simpson Ave Phone: (360) 495-3291  
 McCleary, WA 98557 Fax: (360) 495-2088

**Witnessed By:** (All or Partial Viewing)

John Quist Simpson Door Company

Brandon Newman Construction Consulting Laboratory, *International*  
 Wesley A. Wilson Construction Consulting Laboratory, *International*

**2. INTRODUCTION**

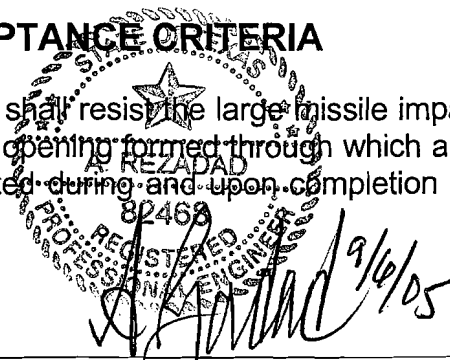
This report presents the performance characteristics of a Simpson Door Company Series 7001 Wood French Out-Swing. Tests were conducted on at Construction Consulting Laboratory, *International* (CCLI) testing facility in Carrollton, TX.

**3. SUMMARY**

Simpson Door Company Series 7001 Wood French Out-Swing was tested in accordance with AAMA 506-2000 and achieved a design 50 rating. The impact resistant series was also impacted with a large nominal 2x4 #2 yellow pine projectile weighing 9 lbs and measuring 8'-0". This missile size and weight complies with the Type D requirements of ASTM E 1996-03 and the Type C requirements of ASTM E 1996-97. At the completion of impacts, the test specimen was Uniform Load cycled at a Design 52.5 Psf test pressure in accordance with ASTM E 1886-04.

**4. IMPACT ACCEPTANCE CRITERIA**

The test specimen shall resist the large missile impact with no tear formed longer than 5" (130 mm) or no opening formed through which a 3" (76 mm) solid sphere can freely pass when evaluated during and upon completion of missile impacts and test loading program.



Florida Registered Professional Engineers Review: Reg. # 52849, February 28, 2007 – Abdol Rezaqad, P.E.  
 Signature: *[Handwritten Signature]* 8/9/05  
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**AAMA 506-2000 PERFORMANCE TESTING  
SIMPSON DOOR COMPANY  
SERIES 7001 WOOD FRENCH OUT-SWING  
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Page 2 of 6

**5. TEST SPECIMEN**

**Product Type:** Wood French Out-Swing **Product Drawings, Appendix A; and Photograph 1, Appendix B**

**Series Model:** Simpson Series 7001 Out-Swing

**Specifications:** AAMA 506-2000 (1996-03 Type D/1996-97 Type C)

**Design:** DP-52.5

**Frame Size:** 6'-2<sup>5</sup>/<sub>8</sub>" x 8'-1<sup>3</sup>/<sub>4</sub>" (74.625" x 97.750")

**Fixed Panel Size:** 3'-0" x 8'-0" (36" x 96")


**Active Panel Size:** 3'-0" x 8'-0" (36" x 96")

**Frame Dimension:** 4.632"

**Door Thickness:** 1.715"

**Configuration:** X.X

Refer to Mock-Up drawings in **Appendix A**. This report is not complete unless this laboratory symbol is stamped and initialed onto the drawings.

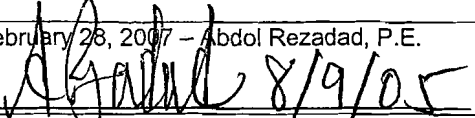
  
CONSTRUCTION  
CONSULTING  
LABORATORY,  
INTERNATIONAL  
  
1601 Luna Road  
Carrollton, Texas 75006  
Phone (972) 242-9556  
Report# 05-083 Date 8/3/05  
Reviewed BY 



**6. DESCRIPTION**

**Weather Strip:** Kerf mounted Q-Lon foam filled single leaf gasket located at exterior face of frame head, sill, jamb and fixed T-astragal. 5-Leg vinyl sweep at the bottom of door panel bottom rails attached with 1" x 0.050" diameter staples spaced 1" from each end and on 6" centers.

**Hardware:** Four (4) 4" 5 knuckle butt hinge located 7" from each end and 26.5" on center of active and inactive panel hinge stiles. Hinges attach to the door with four (4) #9 x 3/4" screws per hinge leaf, and to doorframe with two (2) #9 x 3/4" and two (2) #9 x 3" screws. Active door panel with a two-point lock consisting of the handle and lock set throw bolt located 36" from door panel bottom rail and a key actuated deadbolt located 42 1/4" from panel bottom rail. Handle set and deadlock keepers attached to T-astragal with two (2) #10 x 2 1/4" screws per keeper. Two (2) H.B Ives model #B253 brass surface bolts at top and bottom of each door panel lock stile. Surface bolt slides between two slide collars and engages keeper at interior of frame head and sill. Collars are attached to door panel with two (2) #6 x 1 1/2" screws per collar and keepers are attached to door frame members with two (2) #9 x 2 1/4" per keeper. Integral surface bolts at inactive panel attached with two (2) #9 x 1 1/2" fasteners with bolt keepers attached to frame head and sill with two (2) #8 x 2 1/4" screws per keeper.

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Signature:  8/9/05  
CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL



AAMA 506-2000 PERFORMANCE TESTING  
SIMPSON DOOR COMPANY  
SERIES 7001 WOOD FRENCH OUT-SWING  
REPORT #CCLI-05-083

August 3, 2005  
Page 3 of 6

**Cardinal I.G. Impact Resistant Sealed Insulated Glass:** Laminated interior lite, interior side is  $\frac{1}{8}$ " annealed, SentryGlas 0.090" interlayer, and  $\frac{1}{8}$ " annealed,  $\frac{1}{2}$ " aluminum air spacer, exterior side is  $\frac{1}{8}$ " fully tempered. Glass thickness is  $\frac{3}{4}$ " overall.

**Impact Resistant Glazing:** Interior glazed with Schnee Moorehead SM2100 Cura-sil reactive polymeric back bedding compound at exterior, and heel of glass, full perimeter at panel glazing leg. Glass stop rails part PP-005-0700 at exterior of glass and glazing stop part #PP-009-6000 at the interior of glass.

**Weep Arrangement:** Sloped sill.

**Reinforcement:** None.

**Installation:** Test specimen installed into a nominal 2"x10" test buck with two (2) #9 x 3" screws shot through hinge and frame jamb and into test buck. Two (2) #9 x 2 $\frac{1}{4}$ " screws shot through each surface bolt keeper and frame head and sill and into test buck at center midspan of frame.

**Other Features:** Panel corner construction is coped and butted and attached with  $\frac{5}{8}$ " x 4 $\frac{9}{16}$ " fluted wood dowels and Type 1 Polyvinyl Acetate Catalyzed adhesive. Top rail to stile connected with two (2) fluted wood dowels and bottom rail to stile connected with four (4) fluted wood dowels. T-Astragal attached to inactive panel with #8 x 1 $\frac{1}{2}$ " screws spaced approximately 2" from integral surface bolt and on 16" centers. Fasteners through handle and deadbolt keepers also penetrate though T-astragal and into door panel.

**Date Tests Started:** April 18, 2005

**Date Tests Completed:** April 29, 2005

**Testing Performed at:** Construction Consulting Laboratory, *International*  
Carrollton, Texas



*[Handwritten Signature]*  
9/20/05

*[Handwritten Signature]*  
9/20/05

Florida Registered Professional Engineers Review: Reg. # 52849, February 28, 2007 - Abdol Rezadad, P.E.

Signature: \_\_\_\_\_



**AAMA 506-2000 PERFORMANCE TESTING**  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
 REPORT #CCLI-05-083

August 3, 2005  
Page 4 of 6

**7. PERFORMANCE RESULTS**

For AAMA performance results see CCLI Report #05-107

| <u>Title of Test</u> | <u>Test Method</u> | <u>Measured</u> | <u>Allowed</u> |
|----------------------|--------------------|-----------------|----------------|
| Uniform Structural   | ASTM E 330-02      |                 |                |
| -Positive            |                    | 78.75 PSF       | 75.0 PSF       |
| -Negative            |                    | 78.75 PSF       | 75.0 PSF       |
| -Permanent Set       |                    | No Set          | 0.391"         |

**Specification: AAMA 506-2000: ASTM E 1886-04/ASTM E 1996-03 Missile Level Type D, 1996-97 Missile level Type C (#2 yellow pine weighing 9 lbs and measuring 7'-11" overall).**

**Test Specimen 1**

| Par No  | Speed    | Rotation | Title of Test      | Measured       | Allowable     |
|---------|----------|----------|--------------------|----------------|---------------|
| 5.3.1.1 | 50.1 fps | 0°       | Center of operable | No Penetration | See Section 4 |
| 5.3.2.1 | 50.7 fps | 0°       | Upper right corner | No Penetration | See Section 4 |

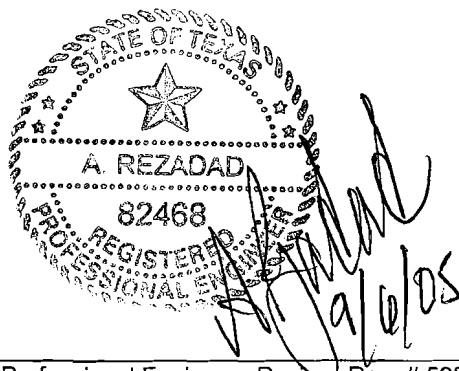
**Test Specimen 2**

| Par No  | Speed    | Rotation | Title of Test     | Measured       | Allowable     |
|---------|----------|----------|-------------------|----------------|---------------|
| 5.3.1.2 | 50.3 fps | 0°       | Lower left corner | No Penetration | See Section 4 |
| 5.3.2.2 | 50.5 fps | 0°       | Center of panel   | No Penetration | See Section 4 |

**Test Specimen 3, Photograph 3, Appendix B**

| Par No  | Speed    | Rotation | Title of Test        | Measured       | Allowable     |
|---------|----------|----------|----------------------|----------------|---------------|
| 5.3.1.3 | 51.2 fps | 0°       | Upper left corner    | No Penetration | See Section 4 |
| 5.3.3.6 | 50.4 fps | 0°       | Center of T-Astragal | No Penetration | See Section 4 |

The laboratory temperature was 86° F for the duration of testing. Test specimens were stored in the lab prior to testing and the temperature was recorded at 85° F. Visual inspections performed on the test specimens revealed there were no penetrations through the laminate and no separation of vision-to-member glazing at the conclusion of the large missile impact tests.

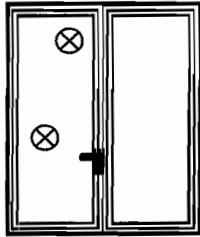


Florida Registered Professional Engineers Review. Reg. # 52849, February 28, 2007 – Abdol Rezadad, P.E.  
 Signature: *[Handwritten Signature]* 8/9/05  
 CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL

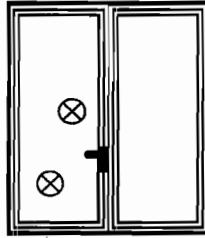


**AAMA 506-2000 PERFORMANCE TESTING**  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
 REPORT #CCLI-05-083

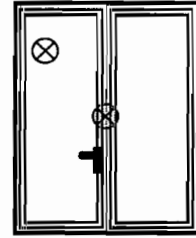
August 3, 2005  
Page 5 of 6



**TEST SPECIMEN 1**



**TEST SPECIMEN 2**



**TEST SPECIMEN 3**

⊗ Impact #1    ⊗ Impact #2

**Uniform Static Air Cyclic Test**

**Test Specimens 1, 2, & 3**

| Load Direction       | Sequence | Range                          | Cycle Time  | Cycles | Damage |
|----------------------|----------|--------------------------------|-------------|--------|--------|
| 52.5 PSF<br>Positive | Cycle 1  | 0.2 $P_{max}$ to 0.5 $P_{max}$ | < 3 seconds | 3500   | None   |
|                      | Cycle 2  | 0 to 0.6 $P_{max}$             | < 3 seconds | 300    | None   |
|                      | Cycle 3  | 0.5 $P_{max}$ to 0.8 $P_{max}$ | < 3 seconds | 600    | None   |
|                      | Cycle 4  | 0.3 $P_{max}$ to 1.0 $P_{max}$ | < 3 seconds | 100    | None   |

2-mil polyethylene plastic was duct taped to frame and covered specimens to maintain chamber pressure. . Plastic did not enhance the structural properties of the test specimen.

| Load Direction       | Sequence | Range                          | Cycle Time  | Cycles | Damage |
|----------------------|----------|--------------------------------|-------------|--------|--------|
| 52.5 PSF<br>Negative | Cycle 1  | 0.3 $P_{max}$ to 1.0 $P_{max}$ | < 3 seconds | 50     | None   |
|                      | Cycle 2  | 0.5 $P_{max}$ to 0.8 $P_{max}$ | < 3 seconds | 1050   | None   |
|                      | Cycle 3  | 0 to 0.6 $P_{max}$             | < 3 seconds | 50     | None   |
|                      | Cycle 4  | 0.2 $P_{max}$ to 0.5 $P_{max}$ | < 3 seconds | 3350   | None   |

2-mil polyethylene plastic was duct taped to frame and covered specimens to maintain chamber pressure. Plastic did not enhance the structural properties of the test specimen.

Visual inspections performed on the test specimens revealed there were no penetrations through the laminate and no separation of vision-to-member glazing at the conclusion of the cyclic pressure differentials.

Detailed extrusion and assembly drawings indicating measured wall thickness and corner construction are on file and have been compared to the test sample submitted. These records will be retained at **CCLI** for a period of four years.



Florida Registered Professional Engineers Review, Reg. # 52849, February 28, 2007 - Abdol Rezaad, P.E.

Signature: *A. Rezaad* 8/9/05



AAMA 506-2000 PERFORMANCE TESTING  
SIMPSON DOOR COMPANY  
SERIES 7001 WOOD FRENCH OUT-SWING  
REPORT #CCLI-05-083

August 3, 2005  
Page 6 of 6

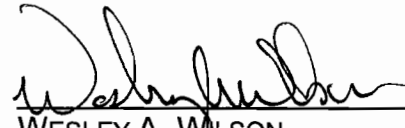
### 8. CONCLUSION

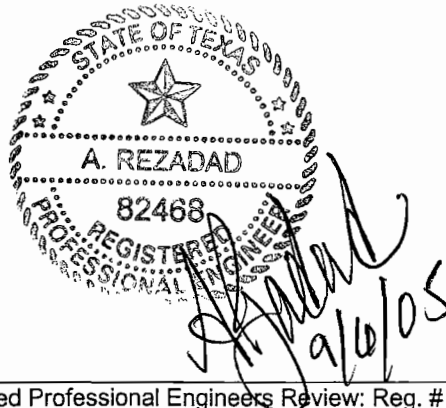
The Series 7001 Wood French Out-Swing door passed the impact resistant criteria of AAMA 506-2000 and achieved a design 52.5 psf. The above results were achieved by using the designated test methods and indicate compliance with the above specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

Respectfully submitted,

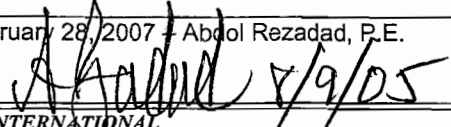
**CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL**

  
\_\_\_\_\_  
BRANDON NEWMAN  
TESTING TECHNICIAN

  
\_\_\_\_\_  
WESLEY A. WILSON  
LABORATORY MANAGER



Florida Registered Professional Engineers Review: Reg. # 52849, February 28, 2007 / Abdul Rezadad, P.E.

Signature: 

CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL



AAMA 506-2000 PERFORMANCE TESTING  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
REPORT #CCLI-05-083

August 2, 2005

**APPENDIXES**



AAMA 506-2000 PERFORMANCE TESTING  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
REPORT #CCLI-05-083

August 2, 2005

## APPENDIX A

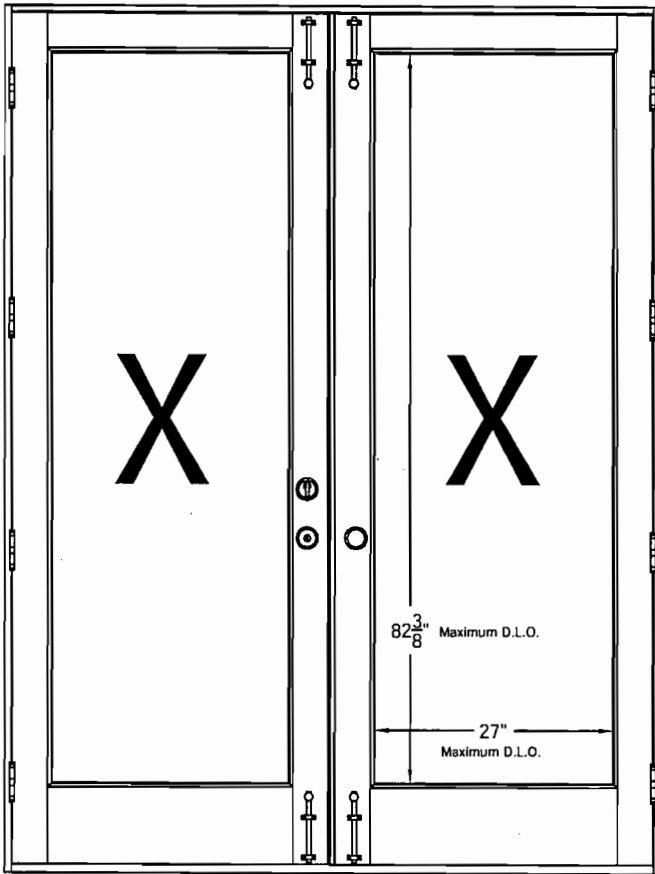
### PRODUCT DRAWINGS

| <u>Drawings</u>                | <u>Part #</u>       | <u>Date</u> |
|--------------------------------|---------------------|-------------|
| COVER                          |                     |             |
| LAYOUT DETAIL                  | D-7001-300-800-0300 | 6/4/2005    |
| OUT-SWING DETAILS 1/11 & 2/11  | D-7001-300-800-0300 | 6/4/2005    |
| OUT-SWING DETAILS 1/12         | D-7001-300-800-0300 | 6/4/2005    |
| ENDURA ADJUSTABLE SILL         | D-7001-300-800-0300 | 6/4/2005    |
| CONFIGURATION OF OPENINGS      | D-7001-300-800-0300 | 6/4/2005    |
| UNIT ASSEMBLY NOTES            | D-7001-300-800-0300 | 6/4/2005    |
| HINGE & LOCKSET PLACEMENTS     | D-7001-300-800-0300 | 6/4/2005    |
| LAMINATED I.G. ORIENTATION     | D-7001-300-800-0300 | 6/4/2005    |
| LAMINATED I.G. MAKEUP          | D-7001-300-800-0300 | 6/4/2005    |
| ASTRAGAL CROSS SECTION         | D-7001-300-800-0300 | 6/4/2005    |
| DOOR JAMB CROSS SECTION        | D-7001-300-800-0300 | 6/4/2005    |
| GLAZING BEAD                   | PP-009-6000         | 6/4/2005    |
| VIEW SAVER DOUBLE COPE         | PP-001-0701         | 6/4/2005    |
| VIEW SAVER WITH ID MARK        | PP-005-0700         | 5/31/2005   |
| STILE AND RAIL INTERSECTION    | D-7001-300-800-0300 | 6/4/2005    |
| CONSTRUCTION OF STILE AND RAIL | D-7001-300-800-0300 | 6/4/2005    |
| SURFACE BOLT                   | 2538                | 8/1/2005    |

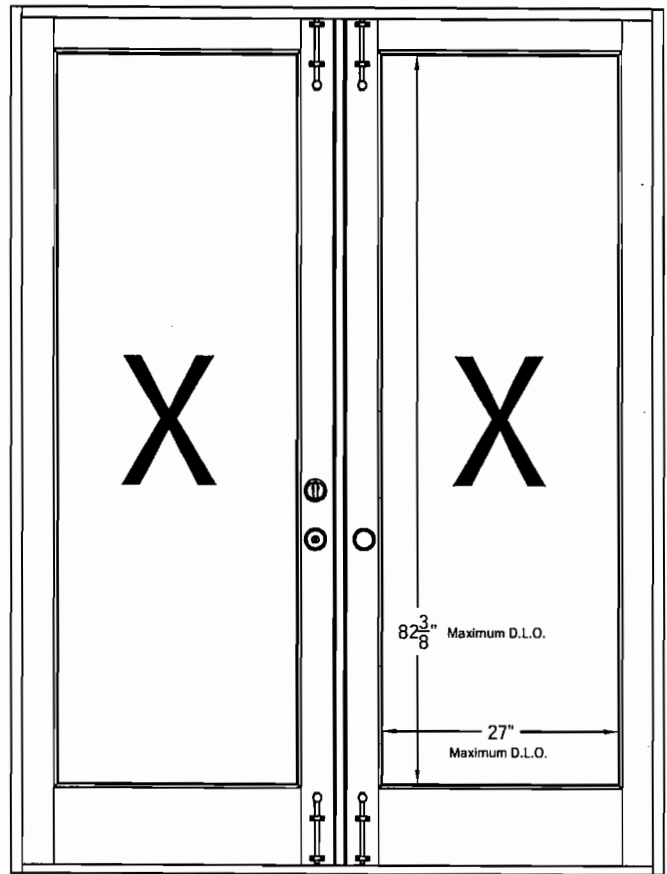
Submittal Information for Door Unit Evaluation  
to: Texas Department of Insurance for compliance  
evaluation of wind loads specified in the  
International Residential Code (IRC) and the  
International Building Code (IBC).

# Simpson®

Simpson Door Co.  
400 Simpson Ave.  
McCleary, WA 98557  
ph. 360-495-3291  
fx. 360-495-2088

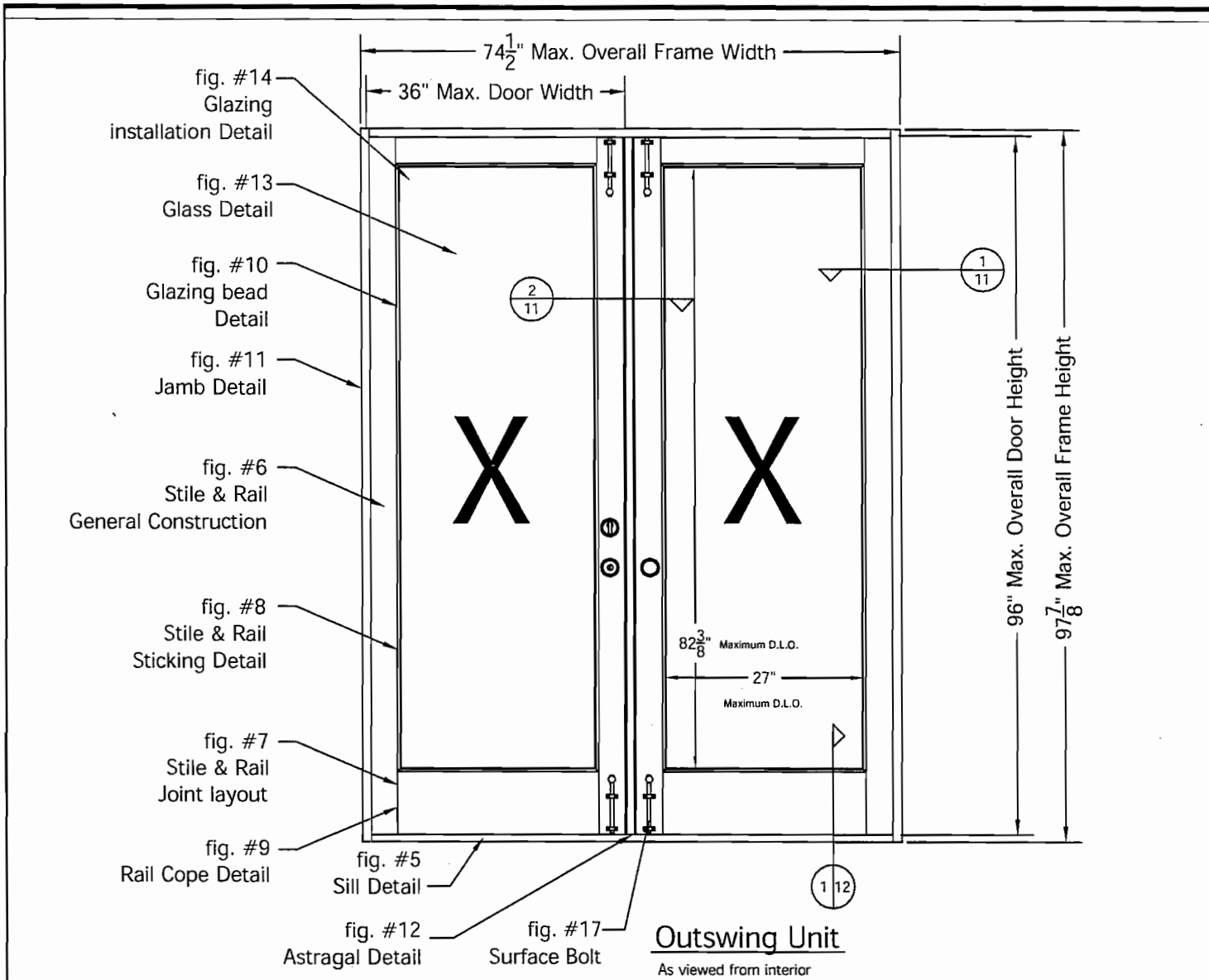


Inswing Unit  
As viewed from interior



Outswing Unit  
As viewed from interior

CONSTRUCTION CONSULTING LABORATORY INTERNATIONAL  
1801 Luna Road  
Carrollton, Texas 75006  
Phone (972) 242-0555  
Report# 07-083 Date 8-4-05  
Reviewed By [Signature]



**Table of Contents**

| Page # | Description   | Page # | Description  |
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| 2      | fig. #1 - Full light Double Door operable inswing unit, Tested Elevation  | 13     | fig. #8 - Simpson Sticking Profile PP-005-0700                           |
| 3      | fig. #2 - Full light Double Door operable outswing unit, Tested Elevation | 14     | fig. #9 - Simpson Cope Profile PP-001-0701                               |
| 4      | fig. #3 - Configuration of openings overview                              | 15     | fig. #10 - Simpson Door Co. - Glazing bead Profile PP-009-6000           |
| 5      | Section Details 1/9 & 2/9   | 16     | fig. #11 - Jamb cross section  |
| 6      | Section Details 1/10  | 17     | fig. #12 - Astragal cross section  |
| 7      | Section Details 1/11 & 2/11   | 18     | fig. #13 - Cardinal Glass Co. Laminated IG Impact Glazing makeup section |
| 8      | Section Details 1/12  | 19     | fig. #14 - Laminated IG unit installation direction section view         |
| 9      | fig. #4 - Endura products Inswing Adjustable Sill cross section           | 20     | fig. #15 - Hinge & Lockset placement view                                |
| 10     | fig. #5 - Endura products Outswing Adjustable Sill cross section          | 21     | fig. #16 - Unit assembly notes   |
| 11     | fig. #6 - General construction of Stile & Rail rough stock                | 22     | fig. #17 - Surface Bolt by H.B. Ives Model 253B                          |

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**Revisions**

| Rev. # | Description           | Date | by Whom |
|--------|-----------------------|------|---------|
| 1      | CONSULTING            |      |         |
| 2      | INTERNATIONAL         |      |         |
| 3      | 1607 Lima Road        |      |         |
| 4      | CONTACT: 1-800-750-06 |      |         |
| 5      | Phone: 607-333-3333   |      |         |

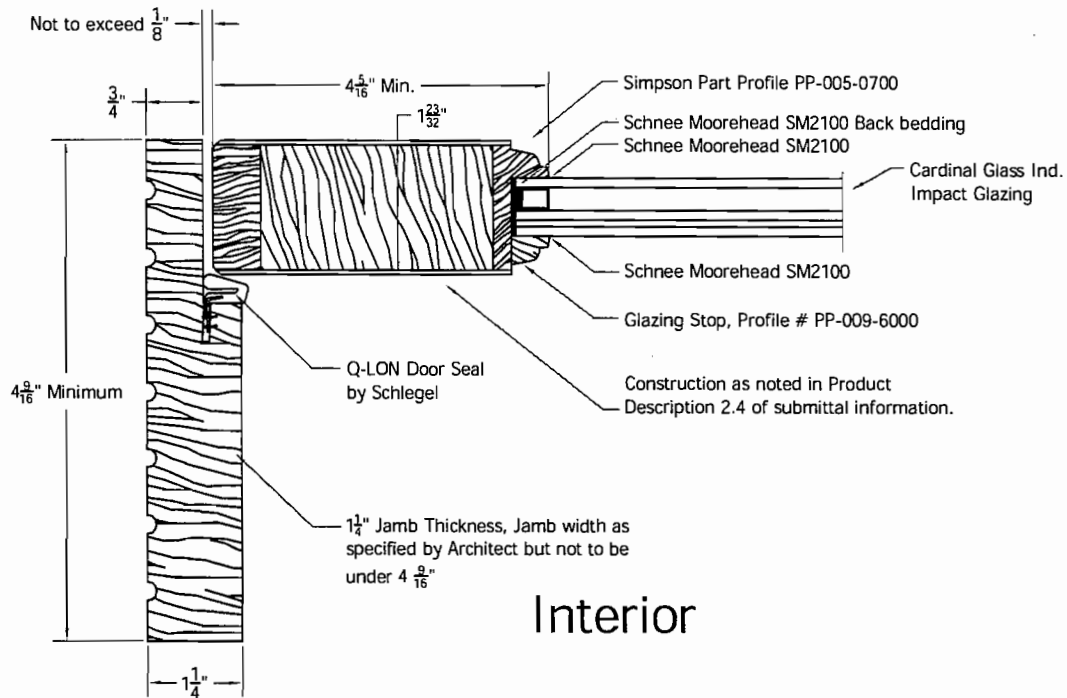
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| TITLE <b>fig. #2</b><br>Wood French Outswing Door unit |    |                     |     |
| DRAWING NO. D-7001-300-800-0300                        |    |                     |     |
| LAYOUT   | 00 | SCALE               | NTS |
| DRAWN BY: S. Beerbower                                 |    | BORE PATTERN # 7054 |     |
| DATE   |    | 6/4/2005            |     |

**Simpson®**

Report: 05-083 date 8-4-05  
Reviewed BY: B.N.

Exterior

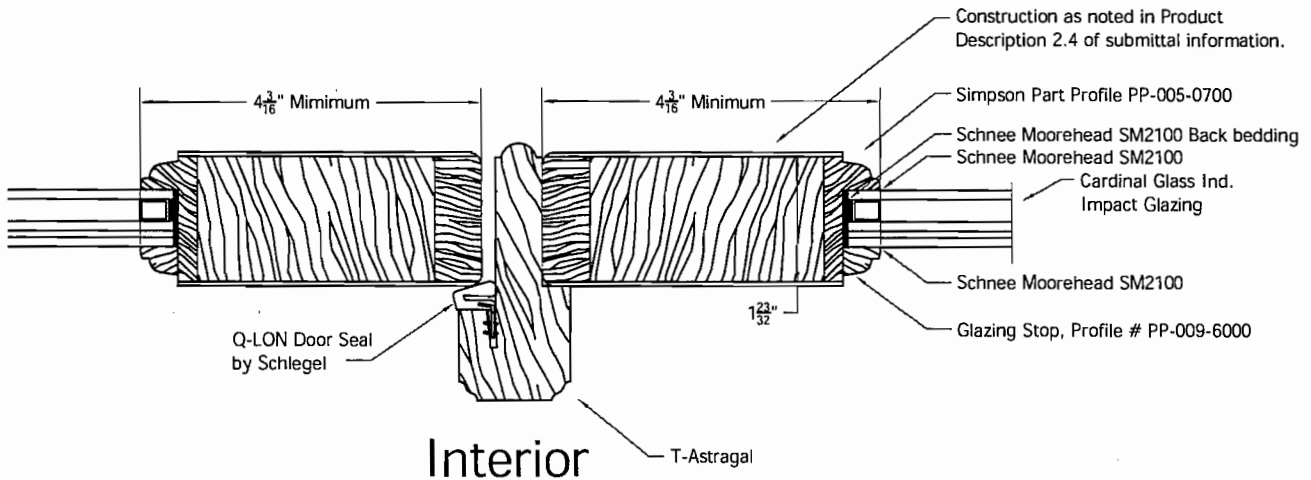
Section  $\frac{1}{11}$



Interior

Section  $\frac{2}{11}$

Exterior



Interior

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TITLE Outswing Sections  
Section Details 1/11 & 2/11

DRAWING NO. D-7001-300-800-0300

LAYOUT 00 SCALE NTS BORE PATTERN # 7054

DRAWN BY: S. Beerbower DATE 6/4/2005

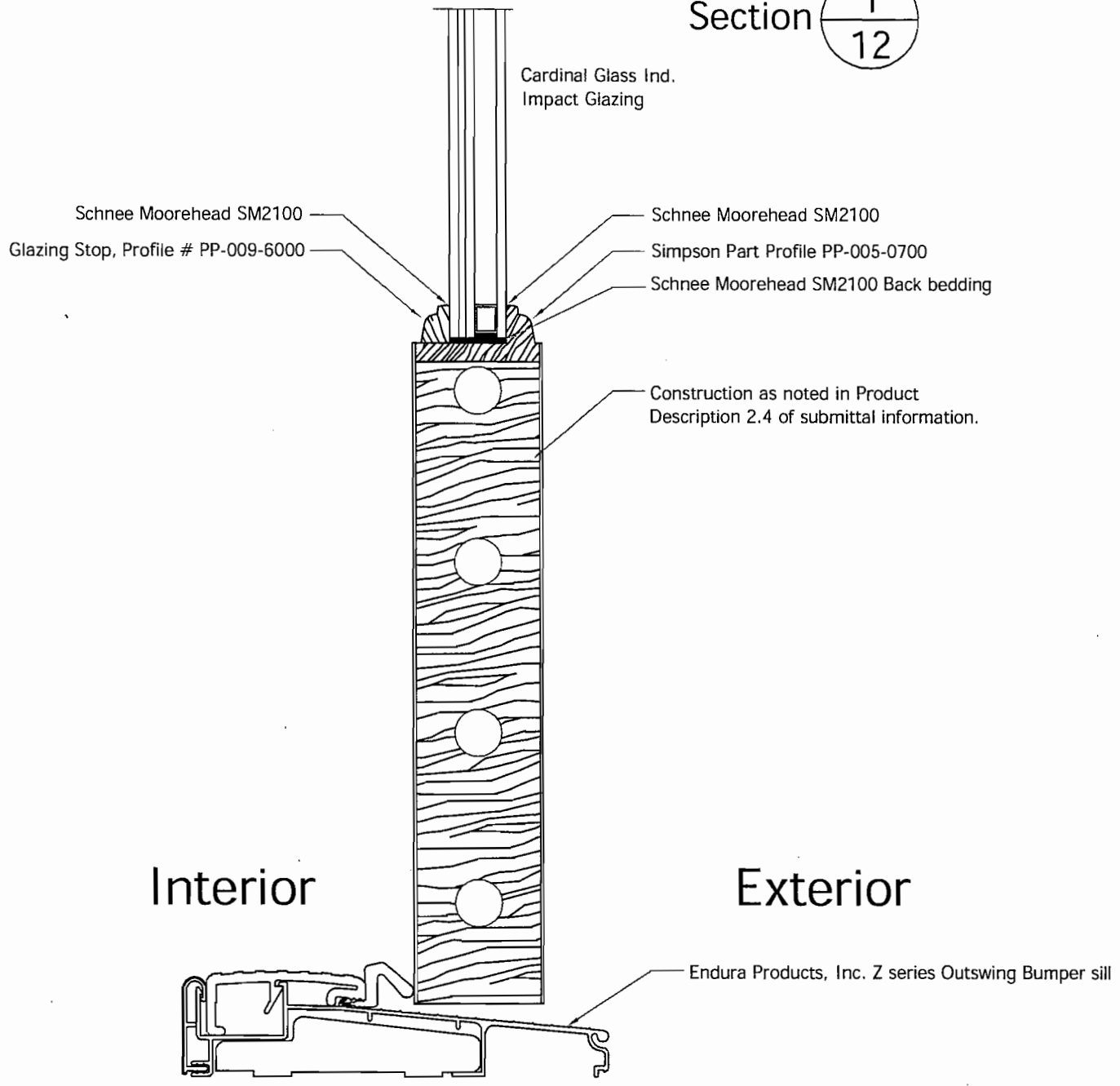
**Simpson**<sup>®</sup>

Revisions

| Rev. # | Description                        | Date | by Whom |
|--------|------------------------------------|------|---------|
|        | CONSULTING LABORATORY INFORMATION: |      |         |
|        | 1007 LUNA ROAD                     |      |         |
|        | CHICAGO, ILLINOIS 60606            |      |         |
|        | Phone (773) 622-1100               |      |         |

Report 05-083 Date 8-4-05  
Reviewed BY: BA

Section  $\frac{1}{12}$



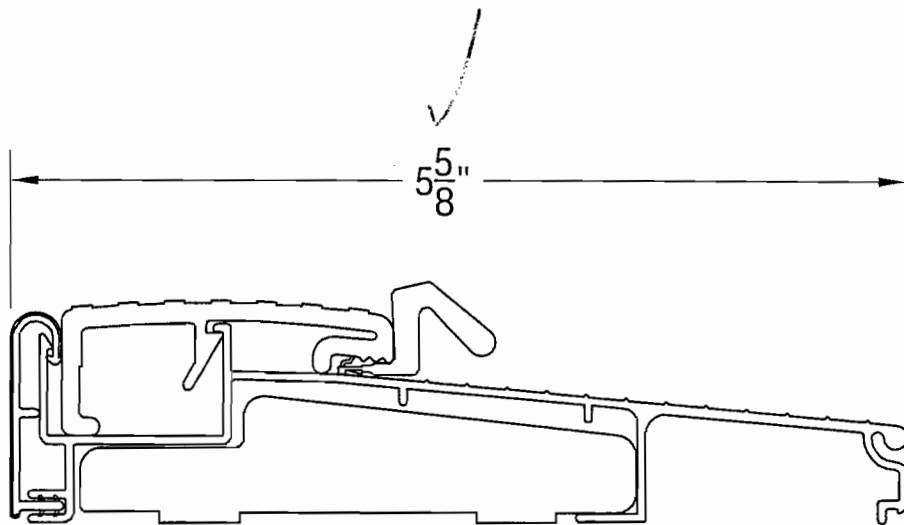
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|   |              |       |          |
|---|--------------|-------|----------|
| TITLE                                     |              |       |          |
| Outswing sections<br>Section Details 1/12 |              |       |          |
| DRAWING NO. D-7001-300-800-0300           |              |       |          |
| LAYOUT                                    | 00           | SCALE | NTS      |
| BORE PATTERN #                            |              | 7054  |          |
| DRAWN BY:                                 | S. Beerbower | DATE  | 6/4/2005 |


| Rev. # | CONSTRUCTION Description | Date | by Whom |
|--------|--------------------------|------|---------|
|        | LABORATORY               |      |         |
|        | 1801 Linn Drive          |      |         |
|        | Carrollton, Texas 75006  |      |         |
|        | Phone (972) 242-8800     |      |         |
|        | Facsimile (972) 242-8800 |      |         |



Reviewed BY: BA



Endura Products, Inc. Z- Series Outswing Bumper sill


 CONSTRUCTION  
 CONSULTING  
 LABORATORY  
 INTERNATIONAL  
 1601 Luna Road  
 Carrollton Texas 75006  
 Phone (972) 242-0506  
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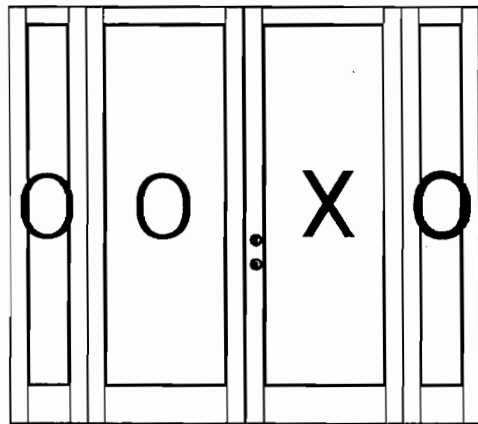
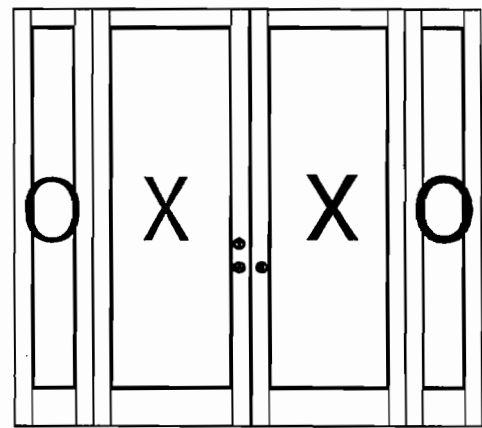
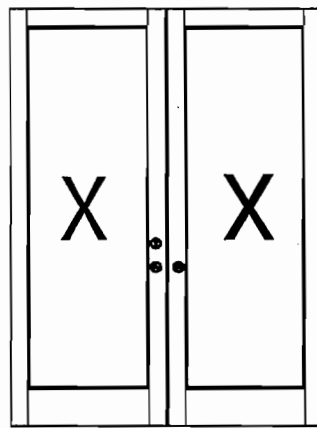
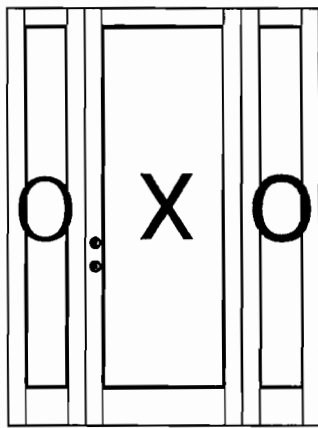
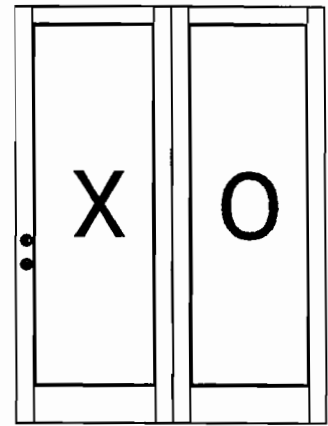
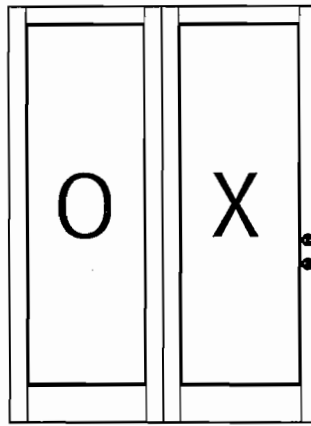
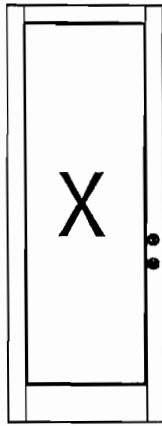
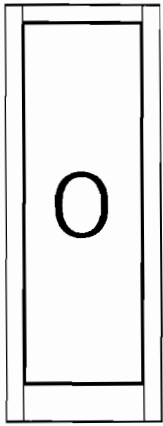
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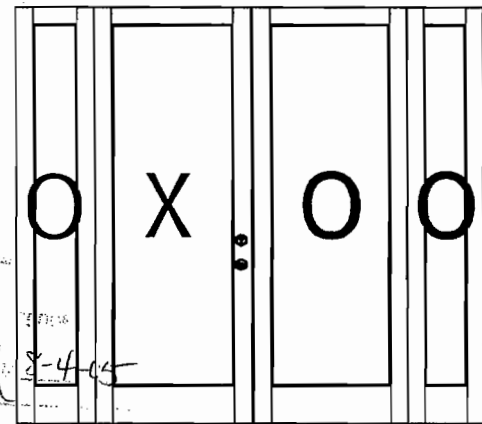
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|---|-----------|---------------------|--|
| TITLE fig. #5<br>Endura Products Outswing Adjustable Sill<br>Model # ZFOB5625 |           |                     |  |
| DRAWING NO. D-7001-300-800-0300   |           |                     |  |
| LAYOUT 00   | SCALE NTS | BORE PATTERN # 7054 |  |
| DRAWN BY: S. Beerbower  |           | DATE 6/4/2005       |  |

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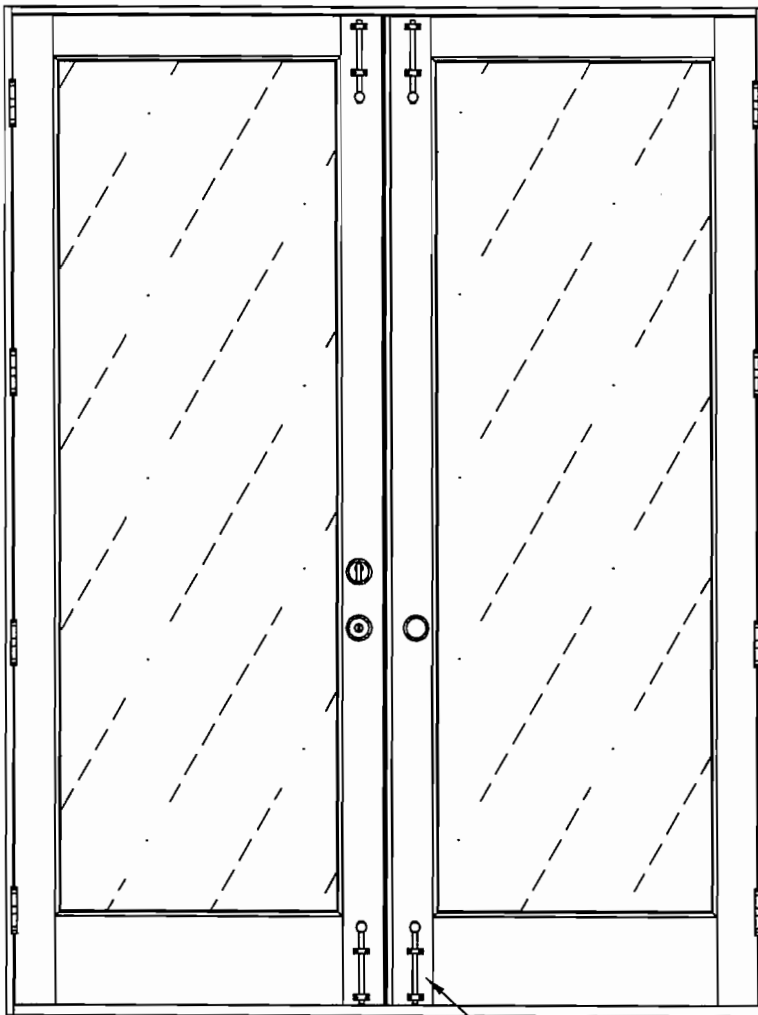
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TITLE fig. #3  
Configuration of Openings / Overview

DRAWING NO. D-7001-300-800-0300

|                        |               |                     |
|------------------------|---------------|---------------------|
| LAYOUT 00              | SCALE NTS     | BORE PATTERN # 7054 |
| DRAWN BY: S. Beerbower | DATE 6/4/2005 |                     |

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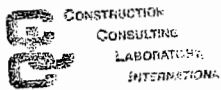


Each Jamb to header (2 typ.) are to have a caulking sealer applied to joint before assembly. Each joint is to be fastened with four each 2" long 3/4" crown gun driven staples.

Four each #9 x 3/4" Penrod Screws to attach each hinge to door slab, use two each #9 x 3/4" Penrod Screws to attach each hinge to Jamb leaving 2 screw holes open on each hinge to be used in bucking the door unit. Secure door unit into buck using #10 by 3" wood screws and #9 x 2 1/2" FHWS screws in remaining open hinge holes when bucking the door.

Each Jamb to Sill joints (2 typ.) are to have caulking sealer applied to joint before assembly. Each joint is to be fastened with four each 2" long 3/4" crown gun driven staples.

Surface bolts are to be attached as recommended by Installation Instructions.



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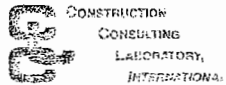
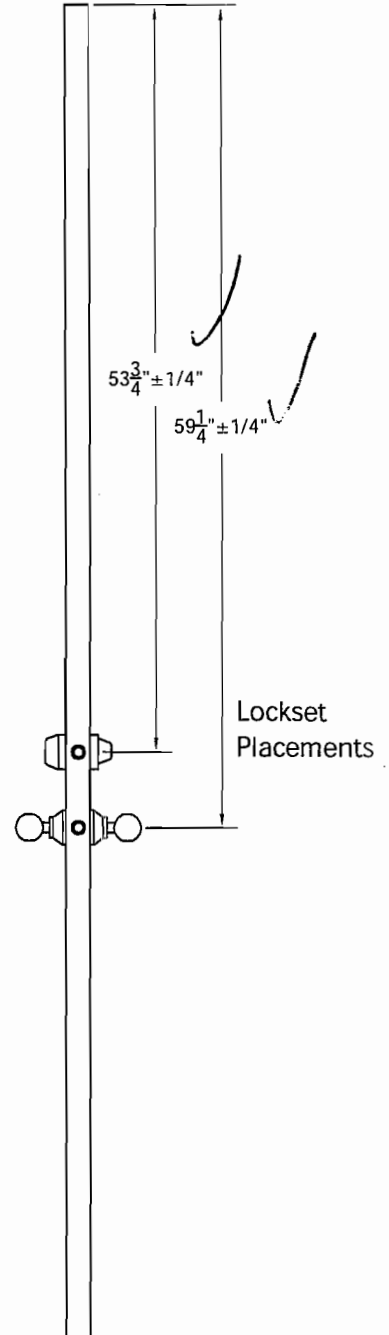
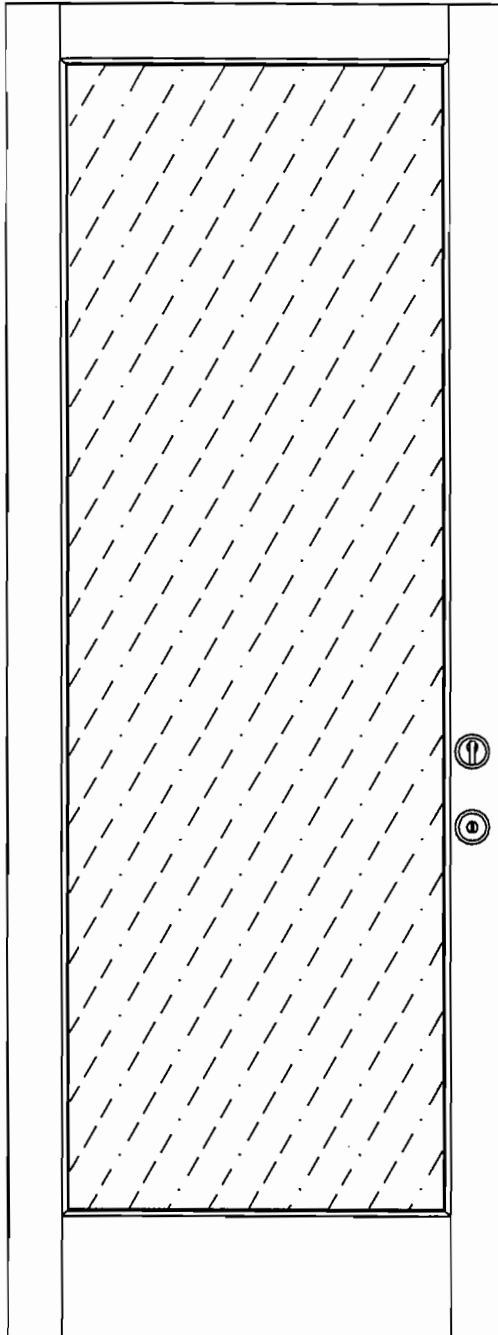
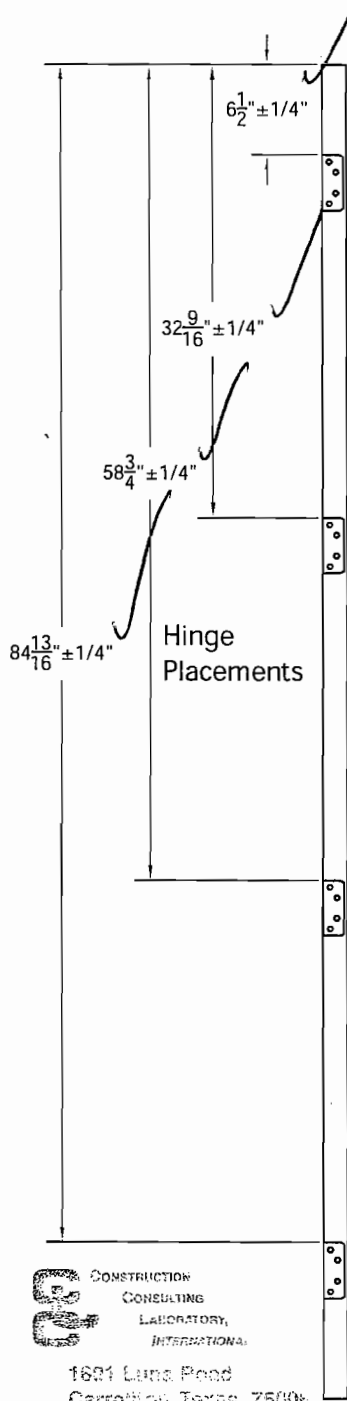
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| TITLE fig. #16<br>Unit Assembly notes |               |                     |
| DRAWING NO. D-7001-300-800-0300       |               |                     |
| LAYOUT 00                             | SCALE NTS     | BORE PATTERN # 7054 |
| DRAWN BY: S. Beerbower                | DATE 6/4/2005 |                     |





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TITLE fig. #15  
Hinge & Lockset placements

DRAWING NO. D-7001-300-800-0300

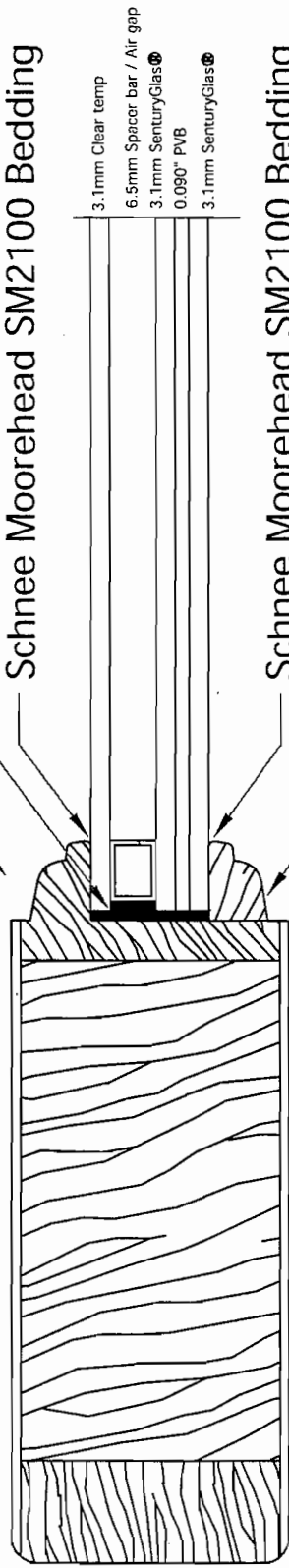
LAYOUT 00 SCALE NTS BORE PATTERN # 7054

DRAWN BY: S. Beerbower DATE 6/4/2005



# Exterior

Simpson Part Profile PP-005-0700  
 Schnee Moorehead SM2100 Back Bedding  
 Schnee Moorehead SM2100 Bedding  
 Schnee Moorehead SM2100 Bedding  
 Glazing Stop, Profile # PP-009-6000



# Interior

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TITLE fig. #14  
 Laminated IG unit installation orientation

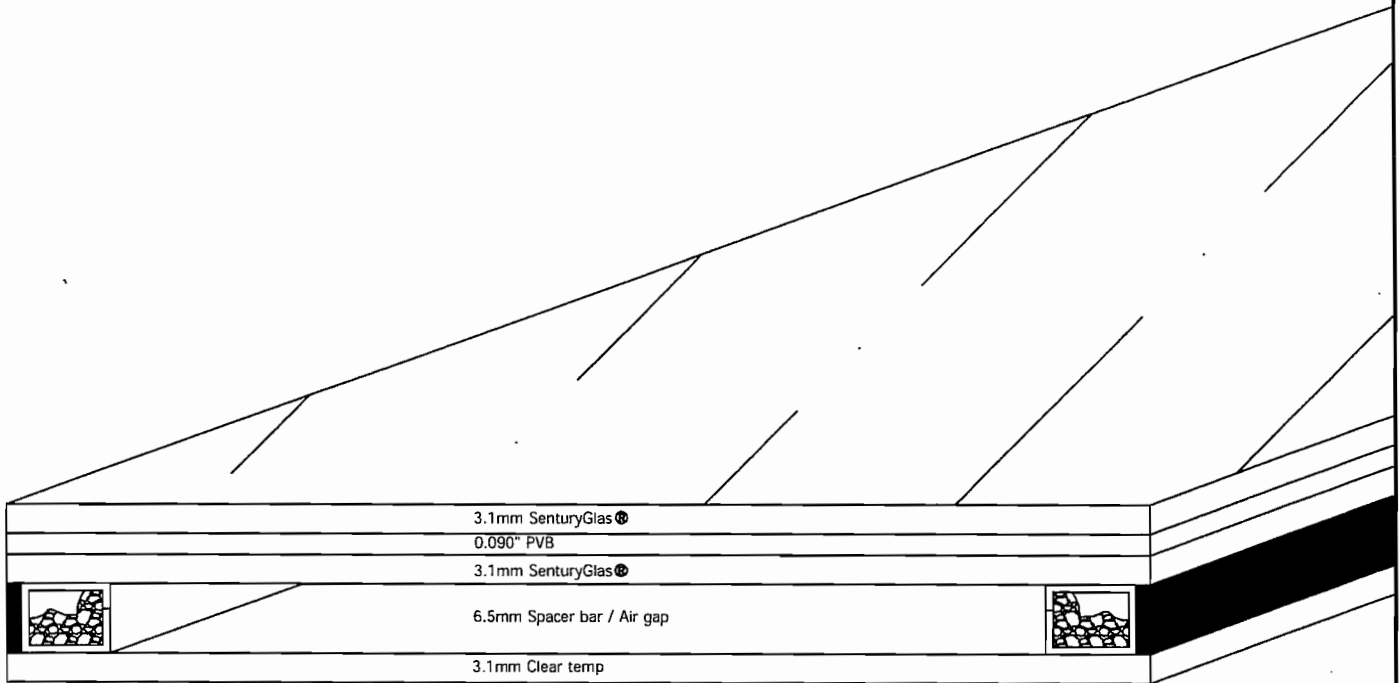
DRAWING NO. D-7001-300-800-0300

LAYOUT 00 SCALE NTS BORE PATTERN # 7054

DRAWN BY: S. Beerbower DATE 6/4/2005



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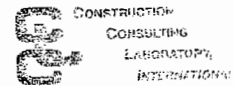
Cardinal IG Co. Glazing Material.

IG Unit makeup is as follows:

3.1 mm Clear temp, 6.5 mm Spacer bar, 8.6mm Laminated sheet.

Laminated sheet makeup is as follows:

3.1mm SenturyGlas®, 0.090"PVB, 3.1mm SenturyGlas®



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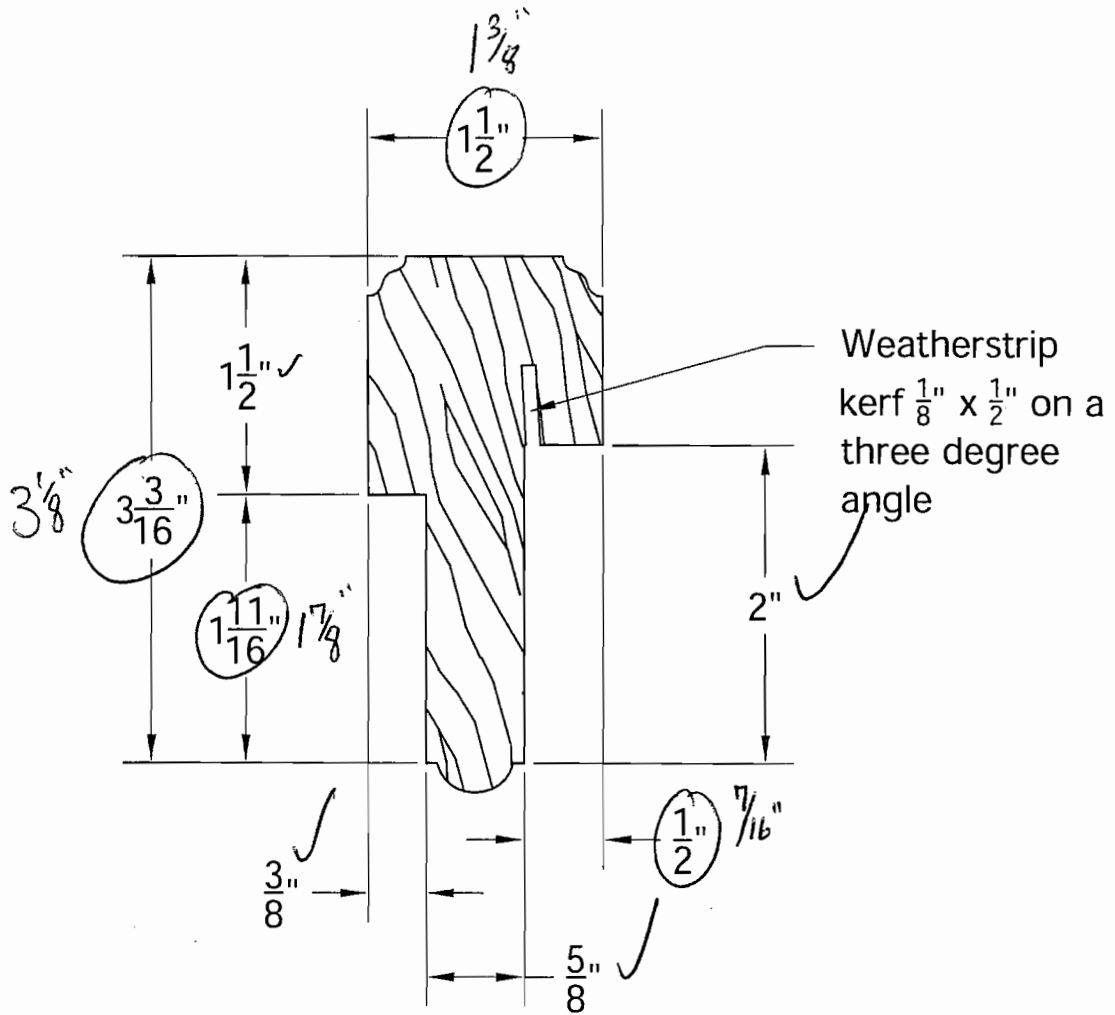
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TITLE fig. #13  
 Laminated IG unit makeup

DRAWING NO. D-7001-300-800-0300

|                        |               |                     |
|------------------------|---------------|---------------------|
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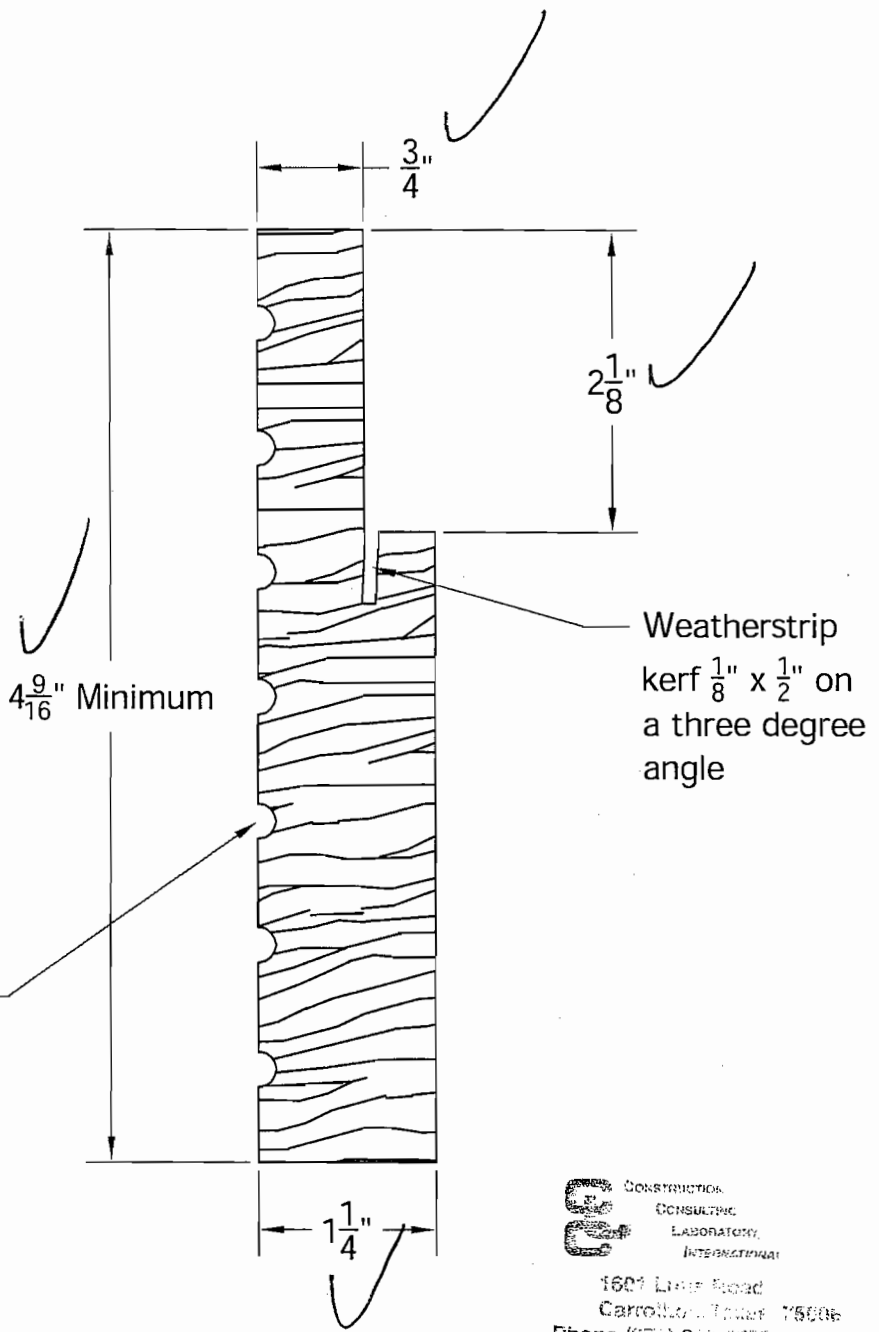
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| TITLE fig. #12<br>Astragal cross section |           |                     |  |
| DRAWING NO. D-7001-300-800-0300          |           |                     |  |
| LAYOUT 00                                | SCALE NTS | BORE PATTERN # 7054 |  |
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Note:  
 Frame components are kerfed along the back side to provide relief from wood stresses and help in the prevention of bowing or warping of the frame.

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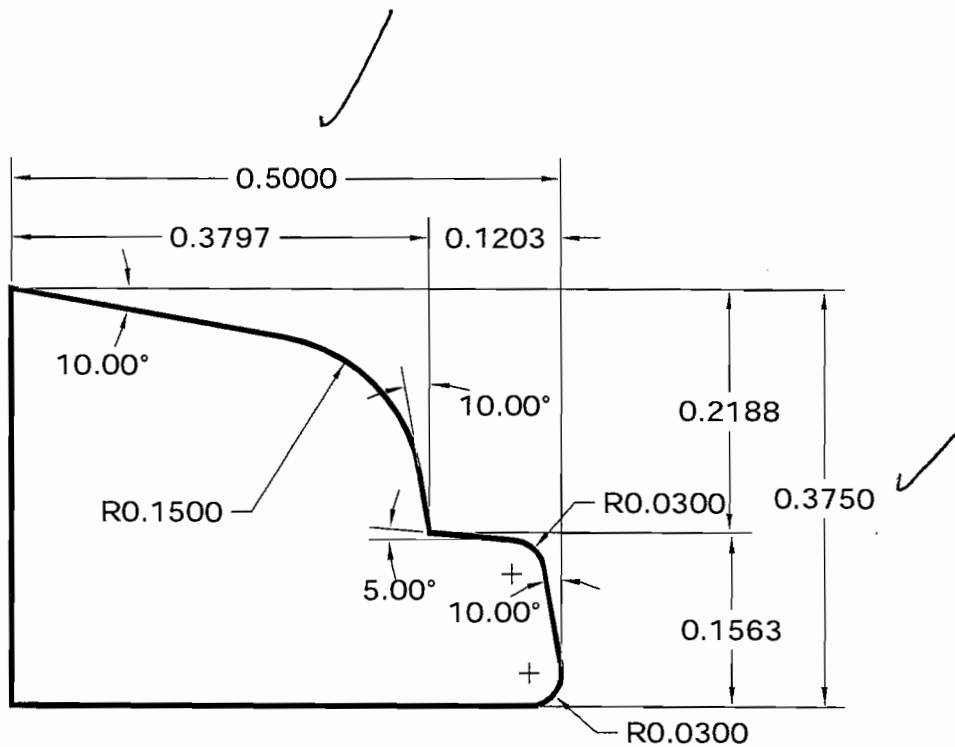
TITLE fig. #11  
 Door Jamb cross section

DRAWING NO. D-7001-300-800-0300

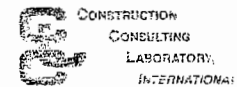
LAYOUT 00 SCALE NTS BORE PATTERN # 7054  
 DRAWN BY: S. Beerbower DATE 6/4/2005



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This Detail is of the Glazing bead (stop) that holds the glazing into the door unit. The Glazing bead is secured with Pneumatic driven brads 1" long by 18 gauge diameter placed at a spacing of 6 to 8 inches with a brad being placed within 3" of the end of any bead.



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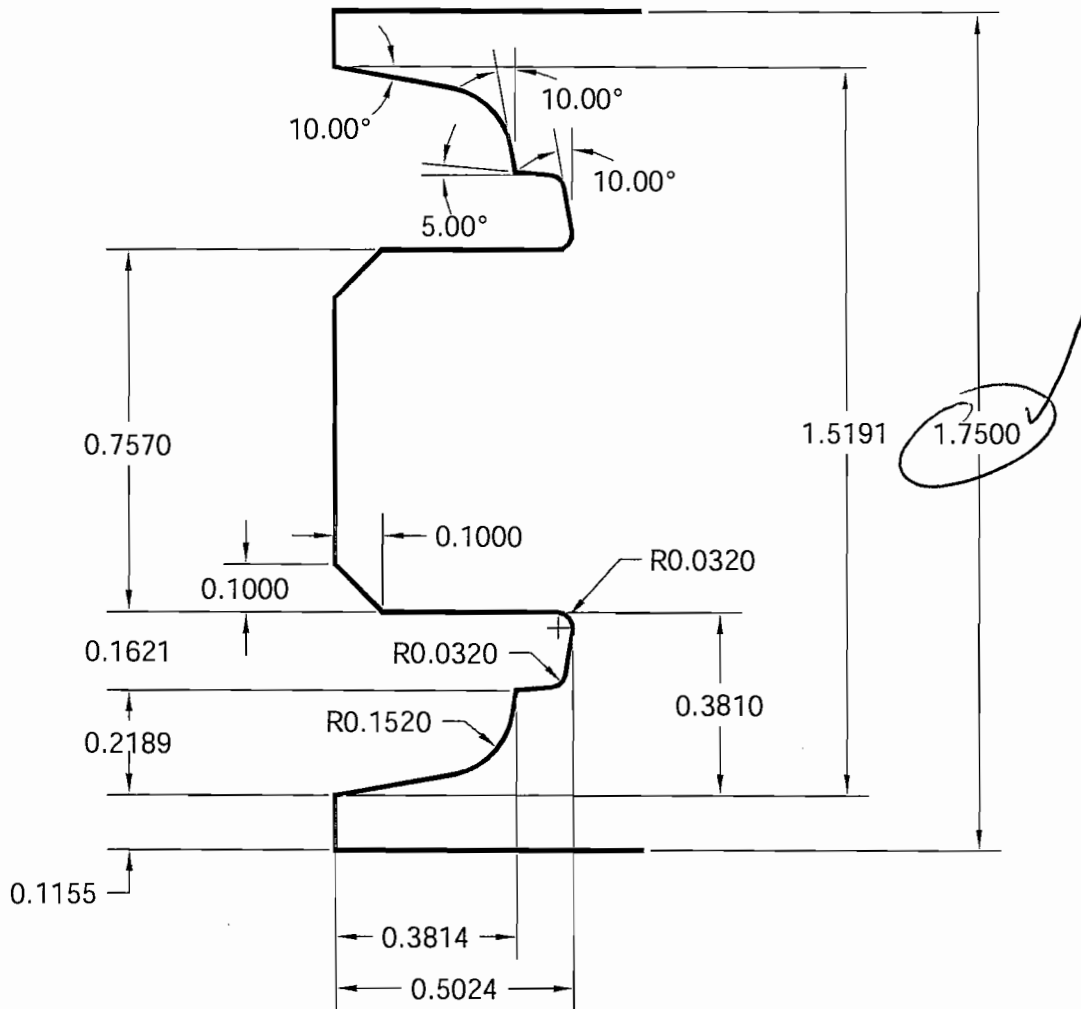
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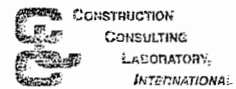
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| TITLE fig. #10<br>View Saver® Replacement Sticking & Glazing bead |           |                    |  |
| DRAWING NO. PP-009-6000   |           |                    |  |
| LAYOUT 00   | SCALE NTS | BORE PATTERN # N/A |  |
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This detail is used on the ends of the Door rails.



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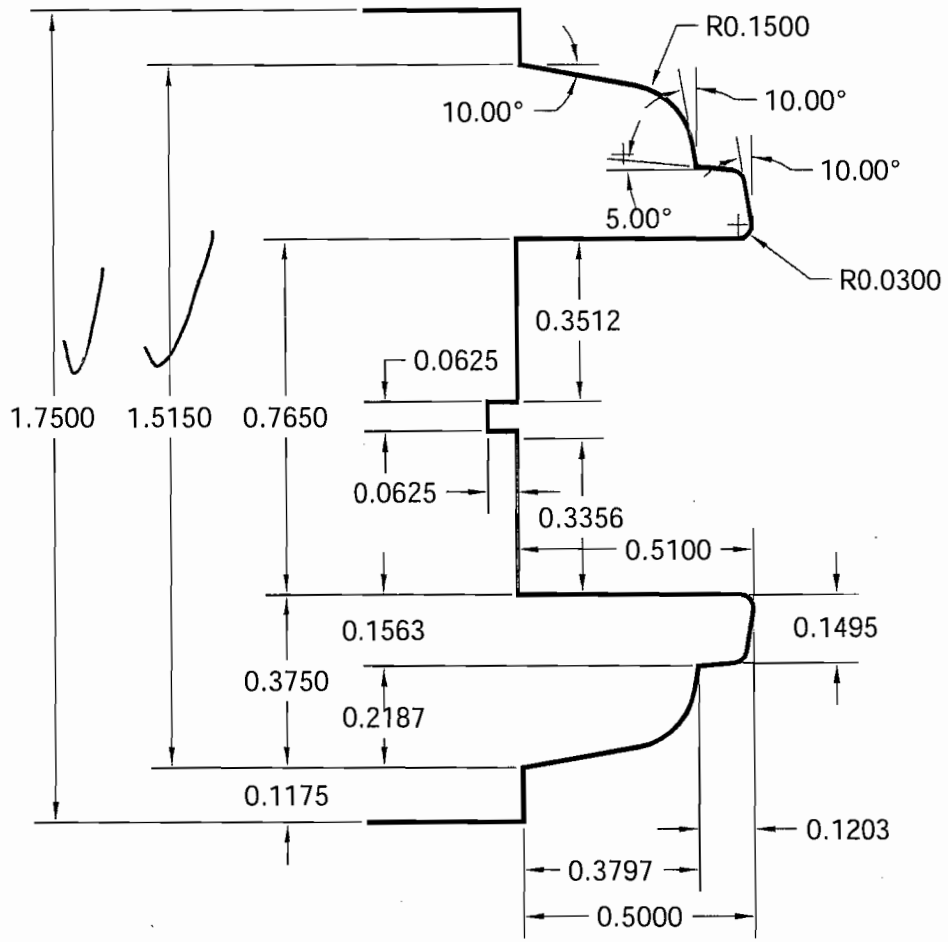
TITLE fig. #9  
 View Saver® Double Cope

DRAWING NO. PP-001-0701

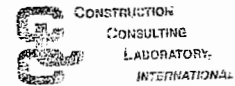
LAYOUT 00 SCALE NTS

DRAWN BY: S. Beerbower DATE 5/31/2005





This Detail is used on the edges of the Door Stiles and Rails that face into the glazing opening.



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TITLE fig. #8  
View Saver® Double Sticking w/ID Mark

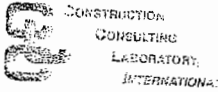
DRAWING NO. PP-005-0700

LAYOUT 00 SCALE NTS  
DRAWN BY: S. Beerbower DATE 5/31/2005

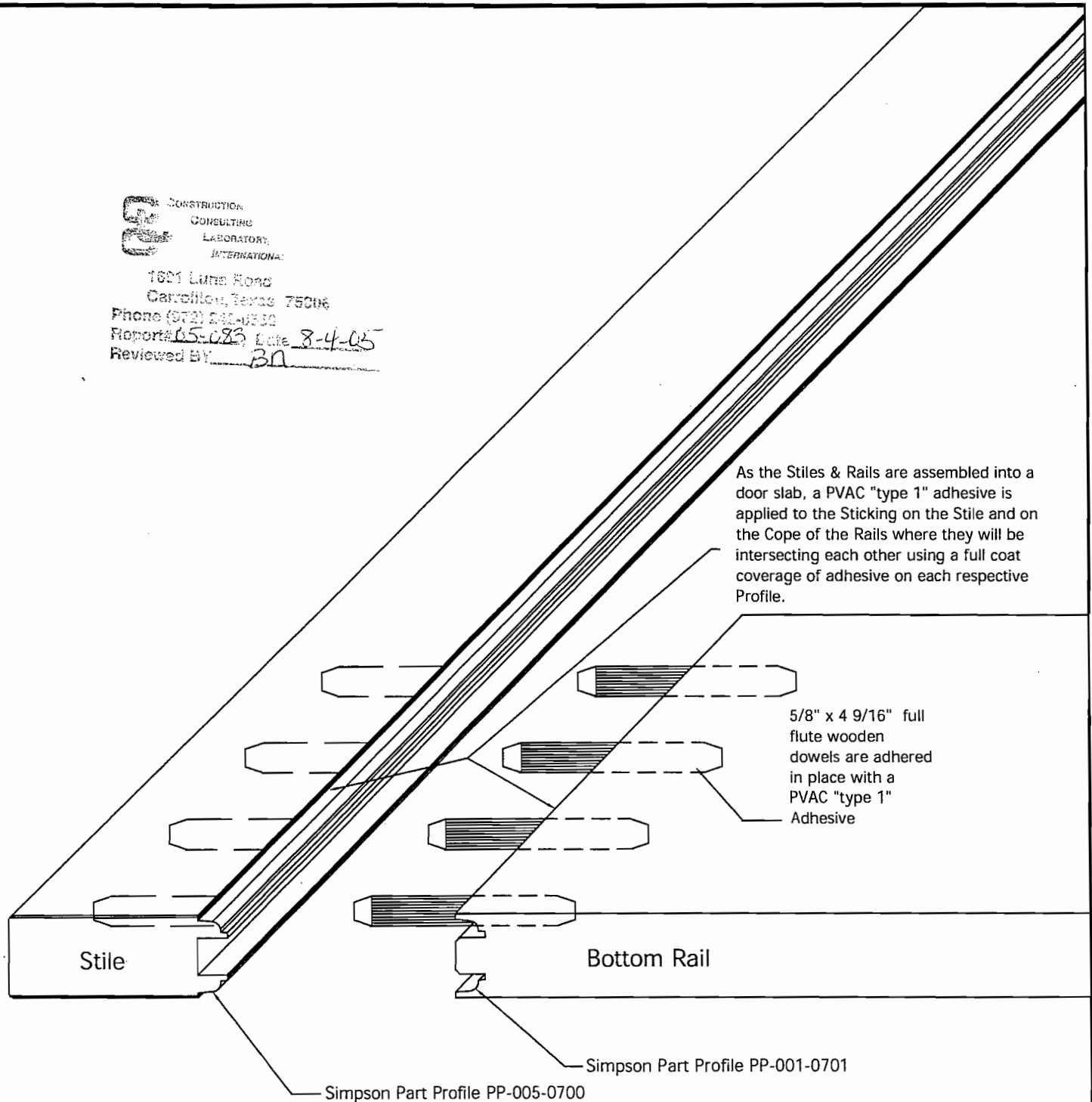


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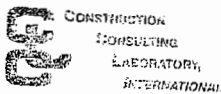
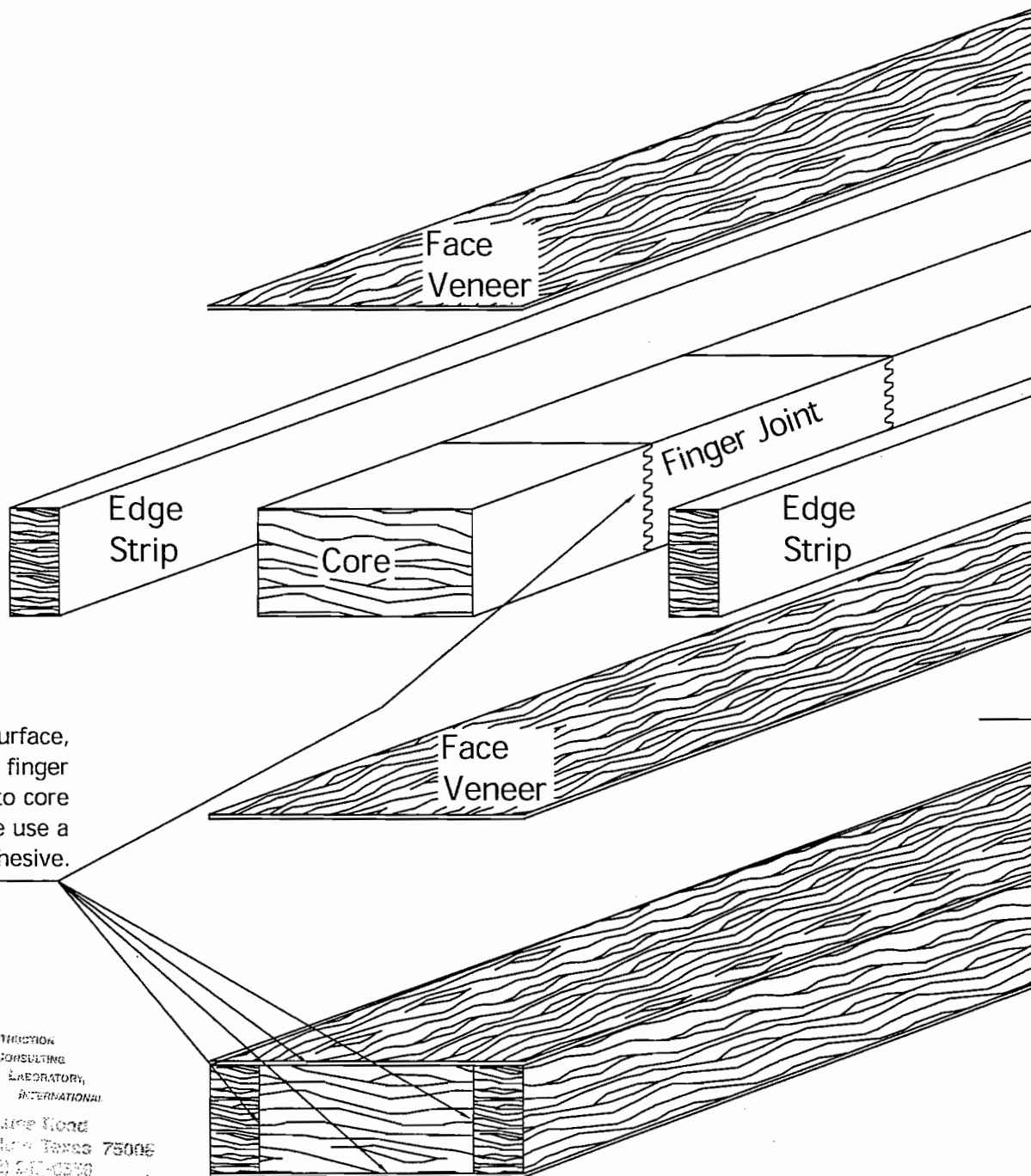
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|--|-----------|---------------------|--|
| TITLE fig. #7<br>Stile & Rail Joint intersection joint |           |                     |  |
| DRAWING NO. D-7001-300-800-0300                        |           |                     |  |
| LAYOUT 00  | SCALE NTS | BORE PATTERN # 7054 |  |
| DRAWN BY: S. Beerbower                                 |           | DATE 6/4/2005       |  |





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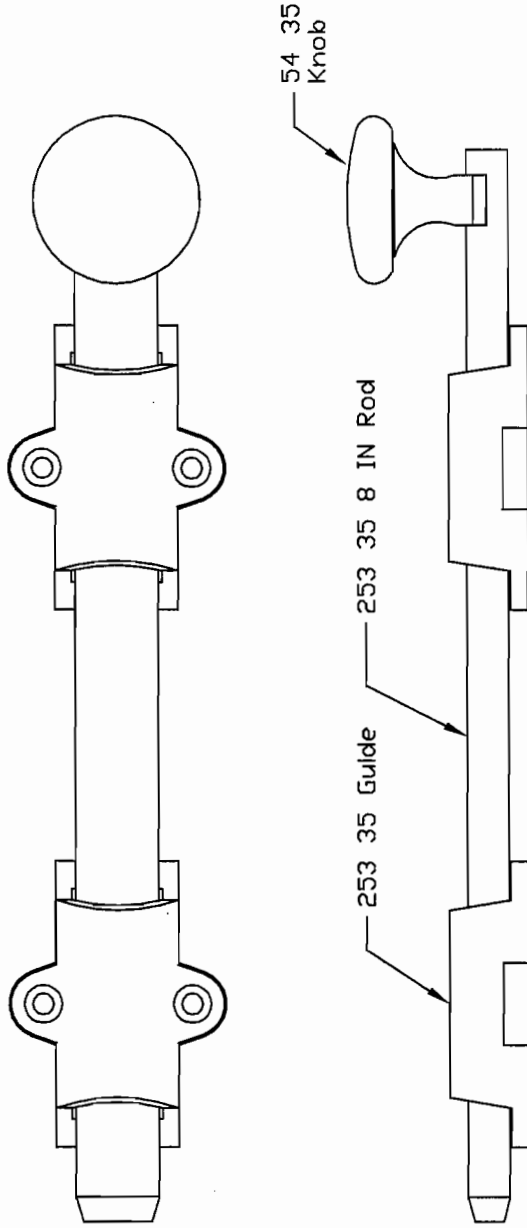
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| TITLE fig. #6                                    |           |                     |  |
| General construction of Stile & Rail rough stock |           |                     |  |
| DRAWING NO. D-7001-300-800-0300                  |           |                     |  |
| LAYOUT 00  | SCALE NTS | BORE PATTERN # 7054 |  |
| DRAWN BY: S. Beerbower                           |           | DATE 6/4/2005       |  |

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|  |       | <b>H.B. IVES</b><br>AN IRVING-CLOUD CO.<br>P.O. BOX 1897, NEW HAVEN, CONN. 06506  |     |
| <b>MATERIAL</b><br>BRASS                                 |       | <b>PRODUCT LINE AND PART DESCRIPTION</b><br>253B 8" SURFACE BOLT ASSEMBLY DRAWING |     |
| <b>MACHINED SURFACE TEXTURE</b> X/                       |       | <b>DATE</b> 8/1/2005  |     |
| <b>DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED</b> |       | <b>DATE</b> 8/1/2005  |     |
| XXX  | XX    | FRAC  | ANG |
| ±.005  | ±.010 | ±.020   | ±1° |
| <b>SCALE</b><br>1:1                                      |       | <b>DRAWING NUMBER</b><br>X  |     |
| <b>DESCRIPTION</b>                                       |       | <b>REV.</b><br>A  |     |
| New drawing in CAD                                       |       | <b>DATE</b> 08/01/05  |     |
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TITLE fig. #17  
 Surface Bolt by H.B. Ives  
 Model # 253B 8"

DRAWING NO. D-7001-300-800-0300

|           |              |       |          |                |      |
|-----------|--------------|-------|----------|----------------|------|
| LAYOUT    | 00           | SCALE | NTS      | BORE PATTERN # | 7054 |
| DRAWN BY: | S. Beerbower | DATE  | 8/6/2005 |                |      |

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|        |      |         |             |

# Simpson Door Company

## Impact Resistant Door Assembly and Installation Instructions

### 1) Door Preparation

#### a) Prep doors and frames for hinges and locksets

A Match hinge locations on the frame assembly and door slab; four each 4" door hinges on 8'-0" doors (three hinges on 6'-8") are to be located as follows from the top of the door to the top to the hinge.

##### (1) 8'-0" Door hinge locations

(a) Top hinge 6-1/2" +/- 1/2"

(b) Upper hinge 32-9/16" +/- 1/2"

(c) Lower hinge 58-3/4" +/- 1/2"

(d) Bottom hinge 84-13/16" +/- 1/2"

##### (2) 6'-8" Door hinge locations

(a) Top hinge 6-1/2" +/- 1/2"

(b) Upper hinge 37-5/8" +/- 1/2"

(c) Lower hinge 68-13/16" +/- 1/2"

#### b) Lockset locations

A Passage lockset location from top of door

(1) 8'-0" tall doors are 59-1/4" with either a 2-3/8" or 2-3/4" backset.

(2) 6'-8" tall doors are 43-11/16" with either a 2-3/8" or 2-3/4" backset.

B Deadbolt to be 5-1/2" on center above the passage lockset.

### 2) Frame Assembly

#### c) Assembly of the frame set is by butted corner and coped corner construction.

A Start the assembly of the frame set at the head.

B Caulk in-between the butted joints where the frame legs meet with the header.

C Secure the joint using four each 2" long by 3/4" wide crown gun-driven staples at each joint making sure the header fits tight against the frame when stapled together.

D Remove excess caulking squeeze-out from joint area.

E Caulk ends of the sill and the insides of the coped frame legs where the sill mounts.

F Position sill inside frame legs at the appropriate position making sure the bottom of the sill is flush with the frame leg before stapling together.

G Secure the joint using four each 2" long by 3/4" wide crown gun-driven staples at each coped sill joint making sure of a tight fit between the sill and the frame leg.

H Remove excess caulking squeeze-out from area.

I Cut and install Q-LON door seal in weather-strip kerf around the perimeter of the frame rabbet.

**d) Door Placement**

- A Use four (4) each #9 x 3/4" FHWS to attach each hinge to door slab, use 2 each #9 x 3/4" FHWS to attach each hinge to the frame leaving two screw holes open on each hinge to be used during installation. Put upper and lower hinges in hinge pockets first and secure. Then place and secure the top and bottom hinges.
- B When placing and securing the hinges make sure the hinges seat all the way down in the pocket then install the screws.
- C Install astragal to inactive door panel with a pneumatic nailer using 15 gauge 2" nails approximately every 8".
- D Put Simple Solution pads in place behind the Q-Lon weather-strip on the frame at the top of the sill before closing the unit.
- E Close doors (astragal side first).
- F Secure shipping clips to the unit to keep the doors from opening during transport to the rough opening at the jobsite.

**e) Installing the Door Unit**

- A Remove any shipping clips that would interfere with the normal operation of the door during installation.
- B Check the dimensions of the rough opening prior to installation and make any necessary adjustments. The rough opening needs to be one (1) inch wider than the assembled door unit, and 1/2" taller.
- C Put a 3/8" unbroken bead of silicone caulking on top of the sub-sill for the entire length of the door frame, flooding the corner of the sub-floor where it meets the sill plate of the wall.
- D Bring the caulking up the studs a minimum of 8".
- E Set the assembled door unit in the opening, shimming behind the hinge pockets on either side to center the door unit in the opening. Single door units should shim behind the hinge pockets and set matching shim locations on the strike side of the frame. Install one #9 x 2-1/2" screw through the top hinge and shim assembly into the stud wall opening to secure the frame in place.
- F Check the doors and align them to be square, plumb, level, and in the same plane. Make any necessary adjustments. The sill must be level. Remember, the studs might not be in the same plane, do not count on the opening being square, plumb, level, and in the same plane. This is the time to make any adjustments.
- G Fasten into the rough opening and secure the unit using two (2) #9 x 2-1/2" FHWS through each hinge securing the frame with a minimum 1-1/2" penetration into the wood studs.

**(1) Inswing notes**

- (a) Secure the inswing frame head to the header by using the two Ives by Schlage D-Ring universal strike plates installed into the head frame to receive the surface bolts installed on each door leaf, secured with three #8 x 3" wood screws gaining a minimum 1-1/2" penetration into the rough opening header. Do not over tighten the screws and distort or 'crown' the frame head toward the header significantly. Shim as necessary at the screw location to keep the frame aligned properly. Single doors will use only one surface bolt assembly.

(b) Secure the inswing sill to the buck using the two Ives by Schlage D-Ring universal strike plates installed through the sill to receive the surface bolts installed on each door leaf, secured with three #8 x 3" wood screws through the sill into the buck gaining a minimum 1-1/2" penetration into the sub-floor. Drill first with 1/8" drill to gain the necessary penetration. Do not over tighten the screws and distort the sill assembly. The screws should be tight and firm, not screwed down as far as they can go. But they must be level with the top of the sill assembly. Do not allow the screws to interfere with the operation of the door by protruding above the sill assembly.

(2) Outswing notes

(a) Secure the inswing frame head to the header by using the two Ives by Schlage mortise strike plates installed into the head frame to receive the surface bolts installed on each door leaf, secured with three #8 x 3" wood screws gaining a minimum 1-1/2" penetration into the rough opening header. Do not over tighten the screws so as to distort the frame head or bow the header significantly. Shim as necessary at the screw location to keep the frame aligned properly. Single door units will use only one surface bolt assembly.

(b) Secure the outswing sill to the sub-floor using the two Ives by Schlage mortise strike plates installed into the sill to receive the surface bolts installed on each door leaf, secured with three #8 x 3" wood screws through the sill into the sub-floor gaining a minimum 1-1/2" penetration into the buck. Pre-drill as necessary so as to not distort the sill assembly, the screws need to be set firm, but not so as to over tighten the screws and disfigure the alignment of the sill assembly or strip the screw pockets.

f) **Installation of Surface Bolts**

A Mark location and install surface bolts at the top and bottom of each door slab. Center the bolt on the stile and set the keepers to allow for maximum throw into the strike plates. Use a minimum of two surface bolt keepers on the face of the door slab. Keep the surface bolt retainer within 1/4" of the bottom and 1/4" of the top edge of the door slab. Use two #6 x 1-1/2" FHWS to hold each retainer to the door slab.

B Outswing doors need to have the frame header and sill assembly drilled to receive the bolts. Mark the location for the surface bolt on the sill and header, drill 1/8" pilot holes in all marked locations then increase the header hole and sill holes to 3/4" diameter 1" deep.

C Check all screws to be certain they are firm and flush as intended to give maximum holding power to the threads. Do not over tighten and strip the wood in the screw holes.

g) **Install door lock sets according to the manufacturers instructions**

A Follow the lock manufacturer's instructions for installation into the door panel.

B Additional lockset notes:

(1) It is important to install two #10 x 3" FHWS security screws through the security strike plate for the deadbolt as provided by and required by the lockset manufacturer as security against forced entry.

(2) Simpson Door recommends using a small bead (1/8" or less) of silicone around the exterior perimeter edge of the 2-1/8" face bore for both the passage and the deadbolt locks to help prevent moisture migration.

h) **Insulate around the door frame and trim with your choice of interior and exterior trim.**



AAMA 506-2000 PERFORMANCE TESTING  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
REPORT #CCLI-05-083

August 2, 2005

**APPENDIX B**

**PHOTOGRAPH**



AAMA 506-2000 PERFORMANCE TESTING  
**SIMPSON DOOR COMPANY**  
**SERIES 7001 WOOD FRENCH OUT-SWING**  
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August 3, 2005



**PHOTOGRAPH 1**  
-Test Specimen 1-

|                           |   |
|---------------------------|---|
| <b>Product Type:</b>      | Wood French Out-Swing <b>Product Drawings, Appendix A</b>                                   |
| <b>Series Model:</b>      | Simpson Series 7001 Out-Swing   |
| <b>Specifications:</b>    | AAMA 506-2000 (1996-03 Type D/1996-97 Type C)   |
| <b>Design:</b>            | DP-52.5   |
| <b>Frame Size:</b>        | 6'-2 <sup>5</sup> / <sub>8</sub> " x 8'-1 <sup>3</sup> / <sub>4</sub> " (74.625" x 97.750") |
| <b>Fixed Panel Size:</b>  | 3'-0" x 8'-0" (36" x 96")   |
| <b>Active Panel Size:</b> | 3'-0" x 8'-0" (36" x 96")   |
| <b>Frame Dimension:</b>   | 4.632"  |
| <b>Door Thickness:</b>    | 1.715"  |
| <b>Configuration:</b>     | X.X   |

**- END OF REPORT -**