Trinity Glass INTERNATIONAL
4621 192nd STREET EAST TACOMA, WA 98446

# 6'0 X 6'8 OPAQUE PREMIUM FIBERGLASS DOUBLE DOOR

## INSWING / OUTSWING "IMPACT"

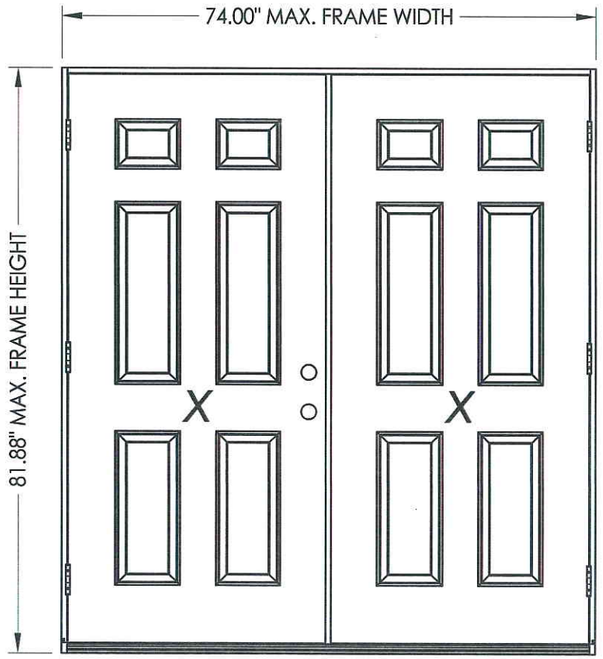
EVALUATED FOR USE IN THE STATE OF TEXAS

The Trinity Opaque Premium Fiberglass Door described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in wind borne debris regions, the opaque door panel complies with Sections R301.2.1.2 of the IRC and 1609.1.2 of the IRC as an impact resistant product and does not require the use of an approved impact resistant covering. This product does not meet the requirements for enhanced protection of essential facilities as defined in ASTM E1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

SUPPORTING DOCUMENTS & EVIDENCE

1. Testing per ASTM E330-02, ASTM E1886-02 and ASTM E1996-02 as performed by Testing Evaluation Laboratories, Inc. and reported in test report numbers TEL 08-01370020-A, TEL 08-01370020 and TEL 05-0411-3, signed by Wendell W. Haney, P.E.
2. Calculations (Anchoring and Glass load resistance report ASTM E1300-04) prepared by Lyndon F. Schmidt, P.E.
3. Certificate of Participation issued by the National Accreditation and Management Institute, Inc., certifying that Trinity Glass Int'l is manufacturing products within a Quality Assurance program.




| ASTRAGAL TYPE | SWING | MAX. FRAME DIMENSION | GLASS TYPE | DESIGN PRESSURE (PSF) | |
|---|---|---|---|---|---|
| | | | | POSITIVE | NEGATIVE |
| ENDURA | INSWING | 74.00" x 81.88" | G1 | +55.0 | -55.0 |
| TRC | | 74.00" x 81.88" | | +55.0 | -55.0 |
| PVC | | 74.00" x 81.88" | | +43.0 | -47.0 |
| COLUMBIA | | 74.00" x 81.88" | | +55.0 | -55.0 |
| ENDURA | OUTSWING | 74.00" x 80.75" | G1 | +55.0 | -55.0 |
| TRC | | 74.00" x 80.75" | | +55.0 | -55.0 |
| PVC | | 74.00" x 80.75" | | +43.0 | -43.0 |
| COLUMBIA | | 74.00" x 80.75" | | +55.0 | -55.0 |

Refer to Table (sheet 4) for Passage Lock Rating Limitations

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| SHEET # | DESCRIPTION | SHEET # | DESCRIPTION |
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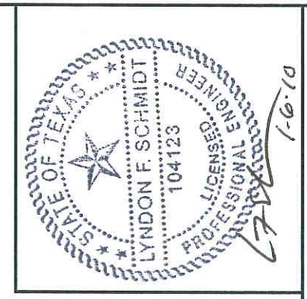
| 1 | Typical elevations, design pressures & general notes | 7 | Endura astragal details |
| 2 | Door panel construction details | 8 | TRC astragal details |
| 3 | Horizontal cross sections | 9 | PVC astragal details |
| 4 | Vertical cross sections | 10 | Columbia astragal details |
| 5 | Frame anchoring | 11 | Bill of materials |
| 6 | Components | | |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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

DATE: 8/24/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-585
SHEET 1 OF 11

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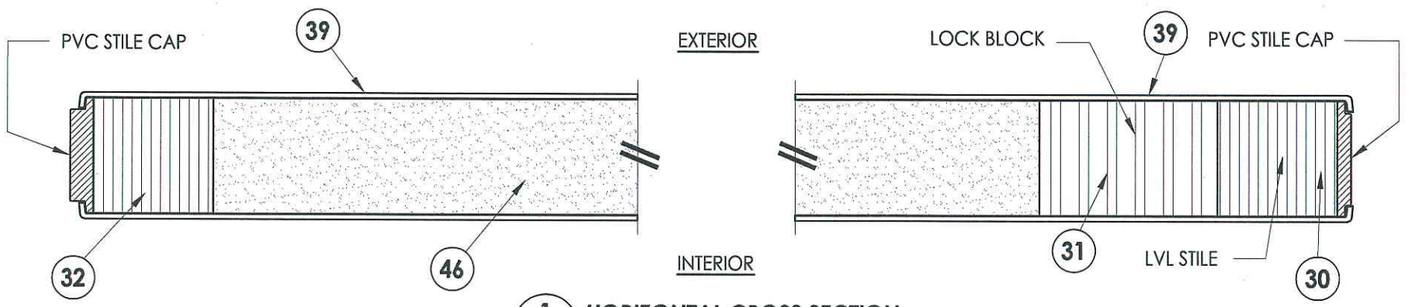
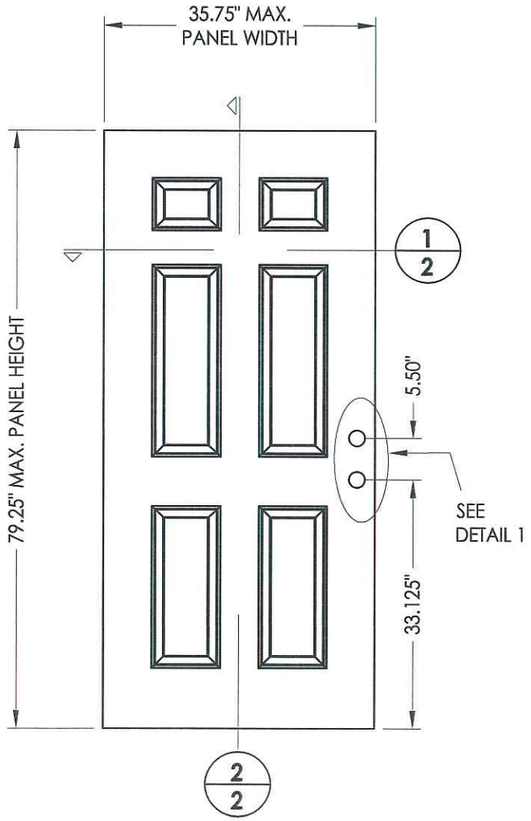
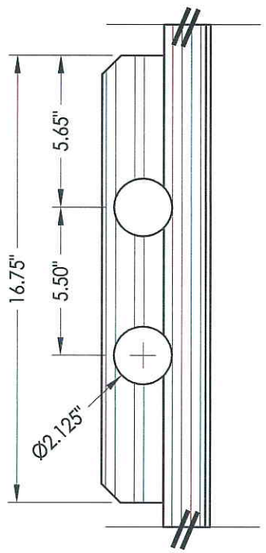


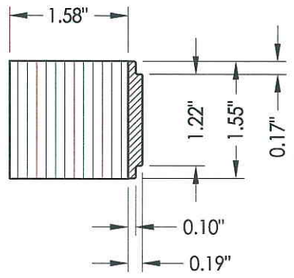

1/2 **HORIZONTAL CROSS SECTION**



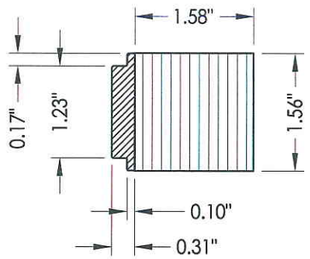

7 **PREMIUM OPAQUE DOOR**
"IMPACT"




**DETAIL 1**




30 **LATCH STILE**

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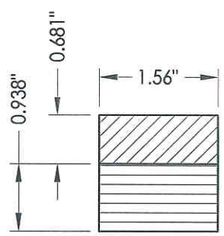
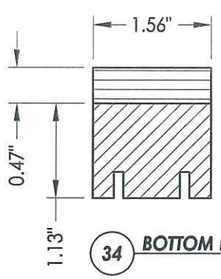
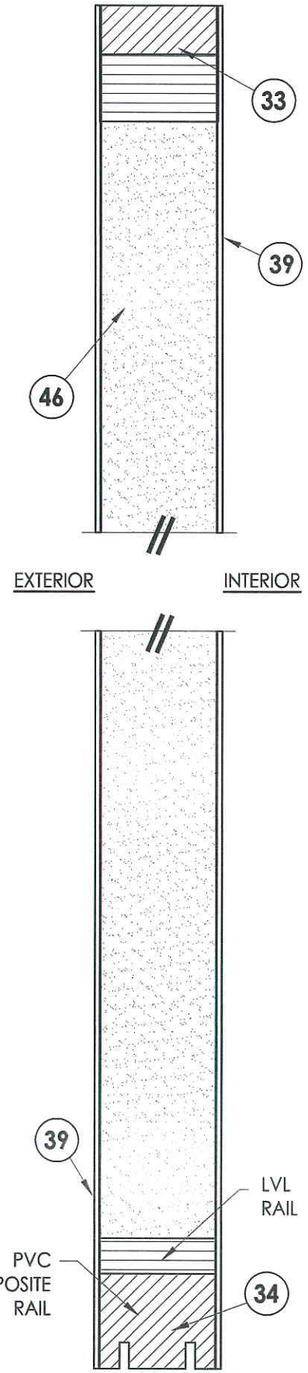



33 **TOP RAIL**




34 **BOTTOM RAIL**




2/2 **VERTICAL CROSS SECTION**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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: DOOR PANEL CONSTRUCTION DETAILS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

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SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-585
SHEET 2 OF 11

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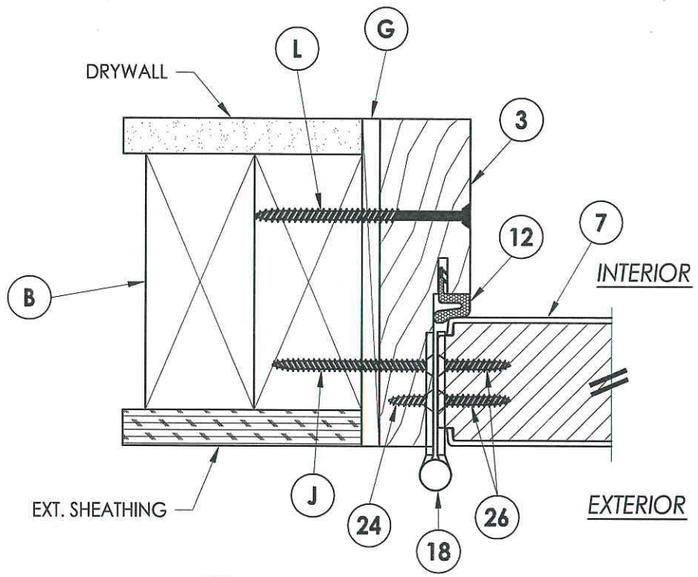
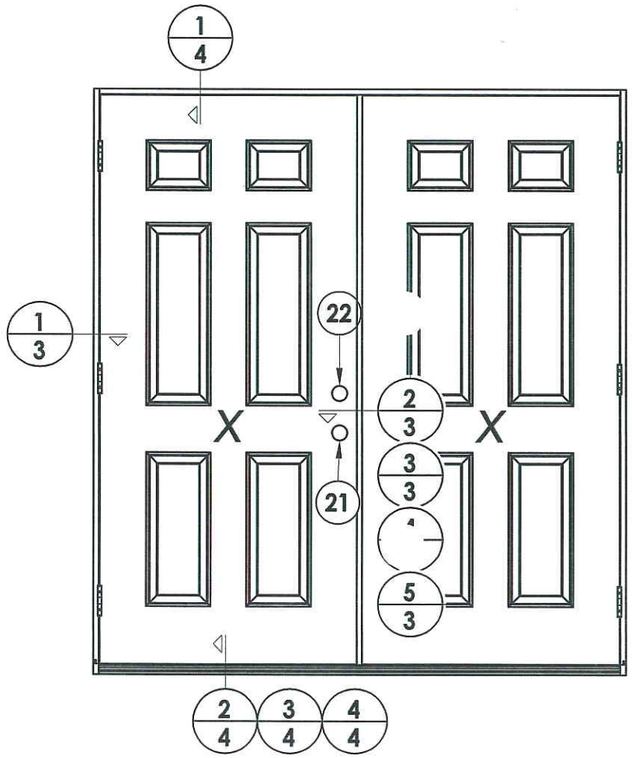
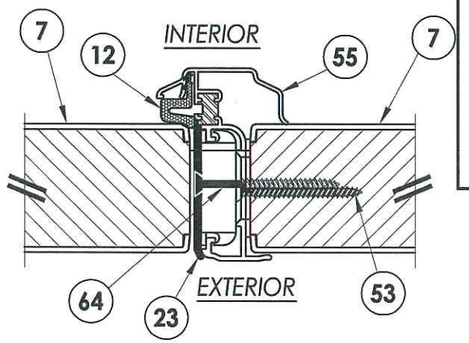
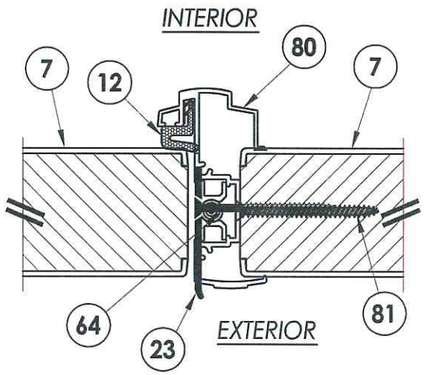



1/3 **HORIZONTAL CROSS SECTION**

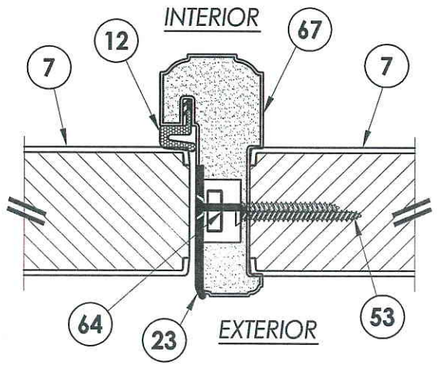


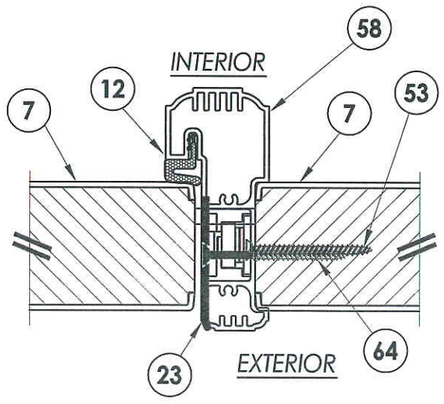

4/3 **HORIZONTAL CROSS SECTION**
Endura astragal




5/3 **HORIZONTAL CROSS SECTION**
Columbia astragal




2/3 **HORIZONTAL CROSS SECTION**
PVC astragal




3/3 **HORIZONTAL CROSS SECTION**
TRC astragal

**LOCK & DEADBOLT RATINGS CHART**

| MANUFACTURER | MODEL | ITEM # | MAX. DESIGN PRESSURE (PSF) POSITIVE | MAX. DESIGN PRESSURE (PSF) NEGATIVE |
|---|---|---|---|---|
| KWIKSET | LOCK: 740<br>DEADBOLT: 780 | 21<br>22 | +55.0 | -55.0 |
| KWIKSET | LOCK: COMBO 660<br>DEADBOLT: COMBO 660 | 21<br>22 | +55.0 | -55.0 |
| SCHLAGE | LOCK: MAX. SECURITY<br>DEADBOLT: MAX. SECURITY | 21<br>22 | +55.0 | -55.0 |

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PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

DATE: 8/24/05
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CHK. BY: LFS
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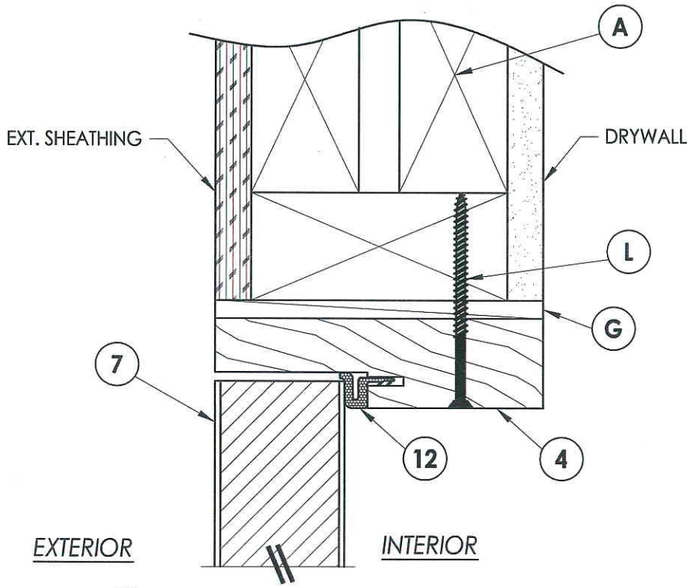
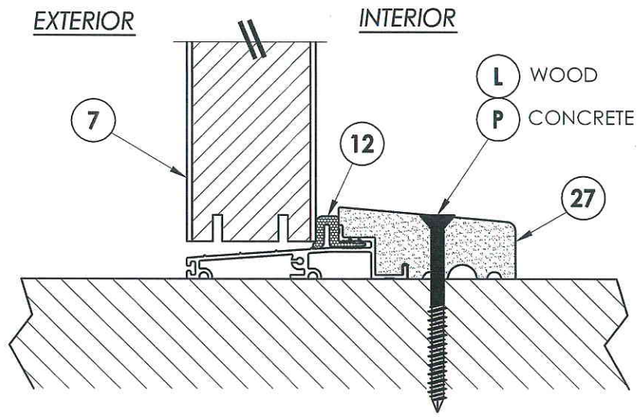
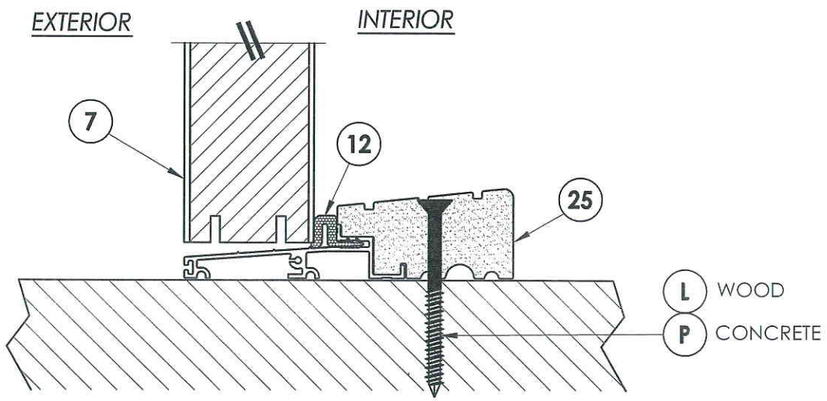


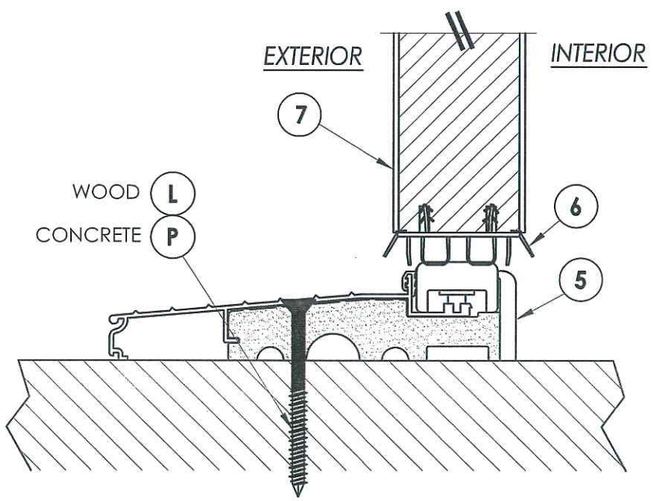

1/4 **VERTICAL CROSS SECTION**
Outswing shown
Inswing also approved




2/4 **VERTICAL CROSS SECTION**
Outswing configuration




3/4 **VERTICAL CROSS SECTION**
Outswing configuration




4/4 **VERTICAL CROSS SECTION**
Inswing configuration

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

| NO. | DATE | BY |
|---|---|---|
| 2 | 7/27/09 | AL |
| 1 | 6/28/06 | EW |

REVISIONS
TDI PRODUCT EVALUATION UPDATE
REVISED LOCKSET NOMENCLATURE

DATE: 8/24/05
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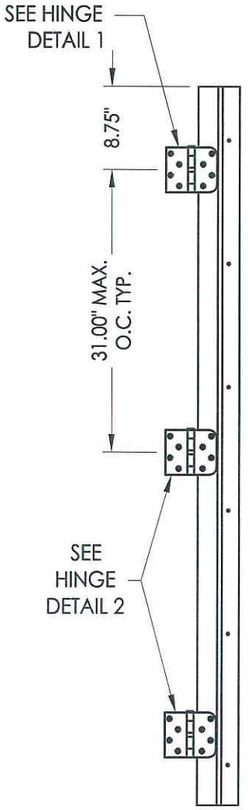
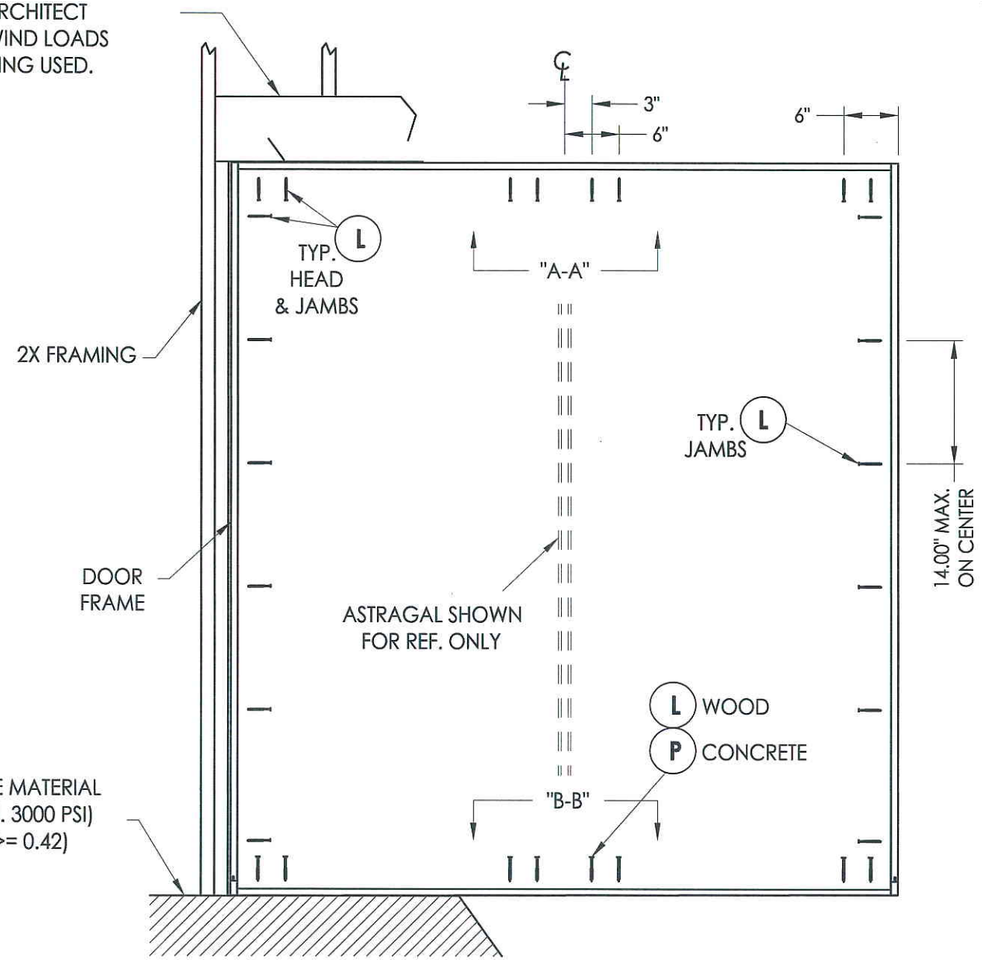
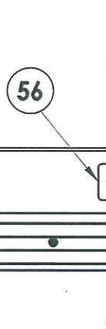
2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED.

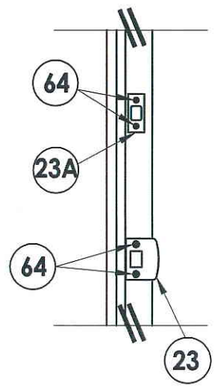



***HINGE JAMB***



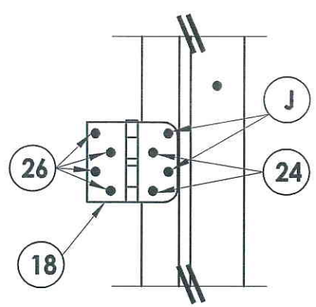

***FRAME ANCHORING***
Stud construction



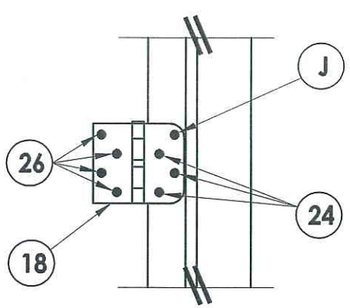




***STRIKE PLATE DETAIL***
Astragal

***ASTRAGAL STRIKE***




***HINGE DETAIL 1***

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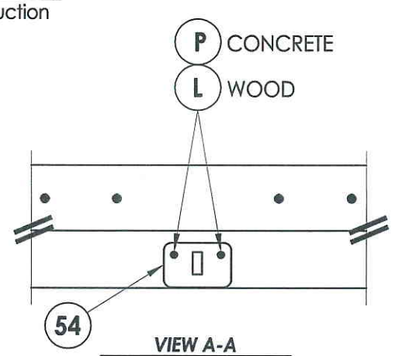
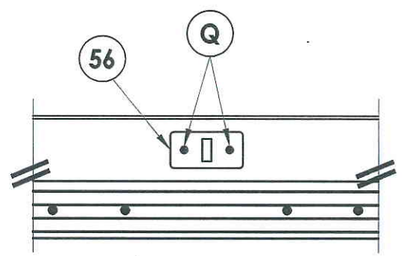



***VIEW A-A***
Astragal strike @ head




***VIEW B-B***
Astragal strike @ sill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CERTIFICATE OF REGISTRATION # F-11852


STATE OF TEXAS ★★★ LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER ★★★ 1-6-10

PRODUCT: *TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE*

PART OR ASSEMBLY: *FRAME ANCHORING*

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

DATE: 8/24/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-585
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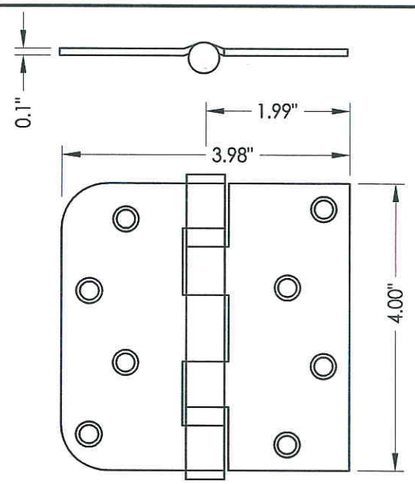
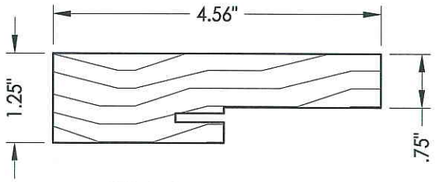
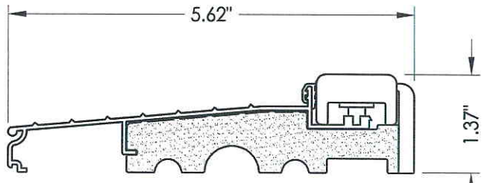


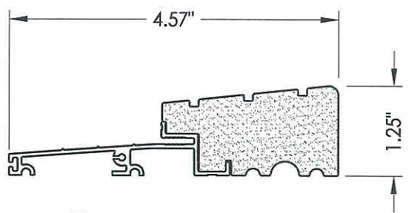

18 **HINGE**



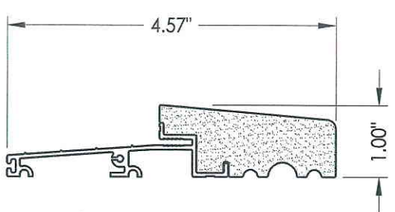

4 3 **SIDE & HEAD JAMBS**




5 **INSWING THRESHOLD**

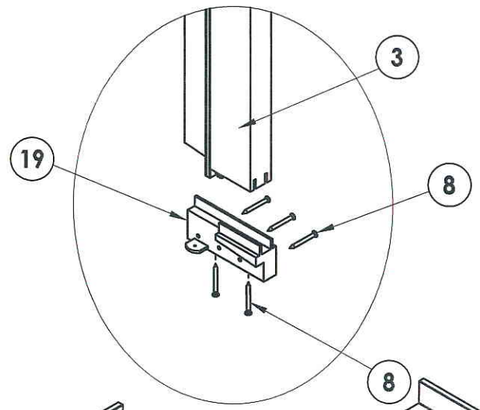


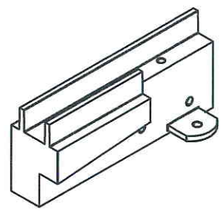

25 **OUTSWING THRESHOLD**
High-dam option



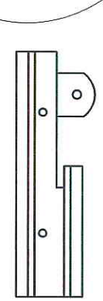

27 **OUTSWING THRESHOLD**

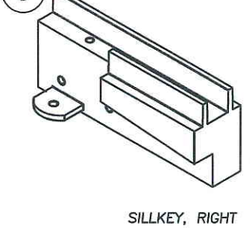
6 **DOOR BOTTOM SWEEP**



SILLKEY, LEFT
SCALE: NONE





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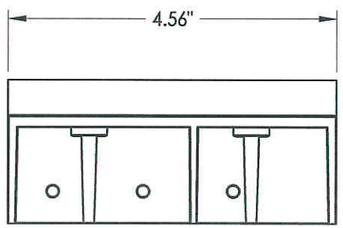
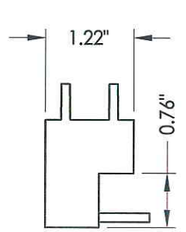
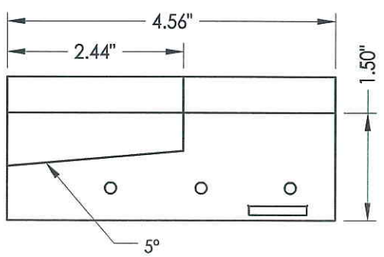
SCALE: NONE




19 **SILLKEY DETAILS**
Optional

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LICENSED PROFESSIONAL ENGINEER

6.10

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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: *TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE*

PART OR ASSEMBLY: *COMPONENTS*

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

DATE: 8/24/05
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DWG. BY: EW
CHK. BY: LFS
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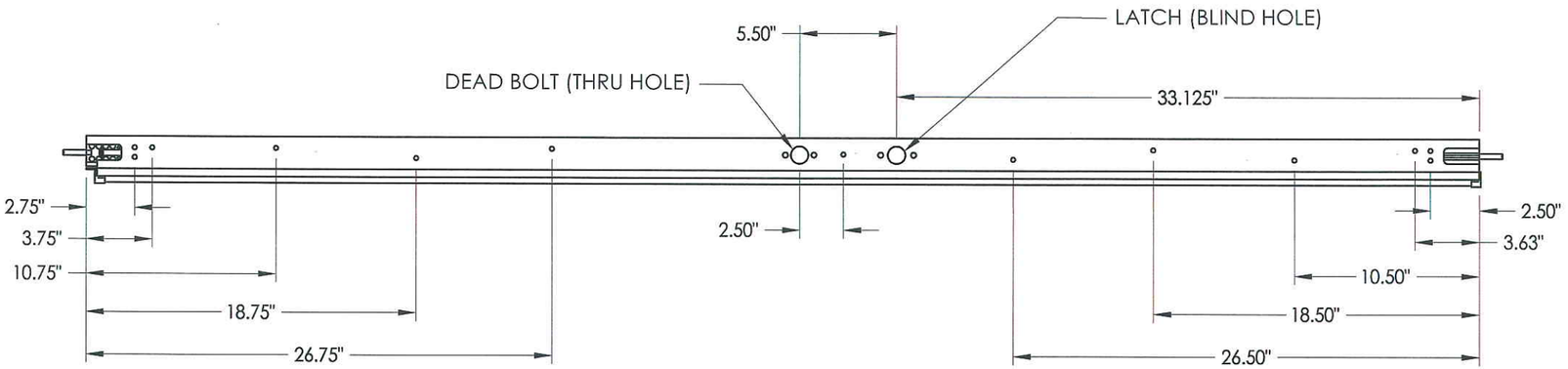
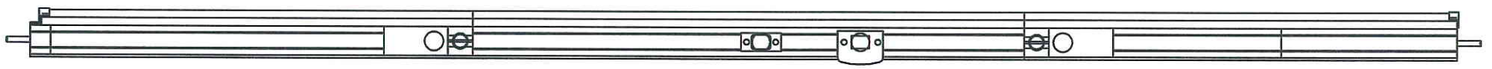


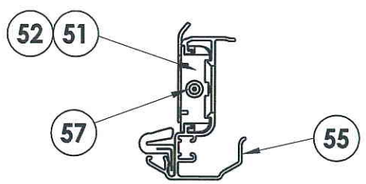

TOP

BOTTOM

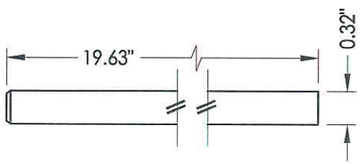


A-A

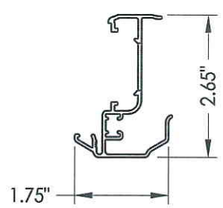
**6'8 ALUMINUM ASTRAGAL ASSEMBLY**
By Endura Products



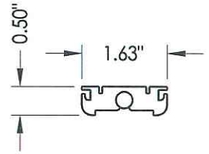

**VIEW A-A**
Aluminum Astragal Assembly



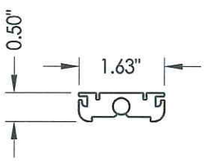

57 **SLIDE BOLT ROD**
MATL: Steel




55 **ALUMINUM ASTRAGAL**
By Endura Products




52 **TOP BOLT RETAINER**
MATL: 9-3/4" Long Aluminum




51 **TOP BOLT RETAINER**
MATL: 4-3/4" Long HDPE

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: ENDURA ASTRAGAL DETAILS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |

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CHK. BY: LFS
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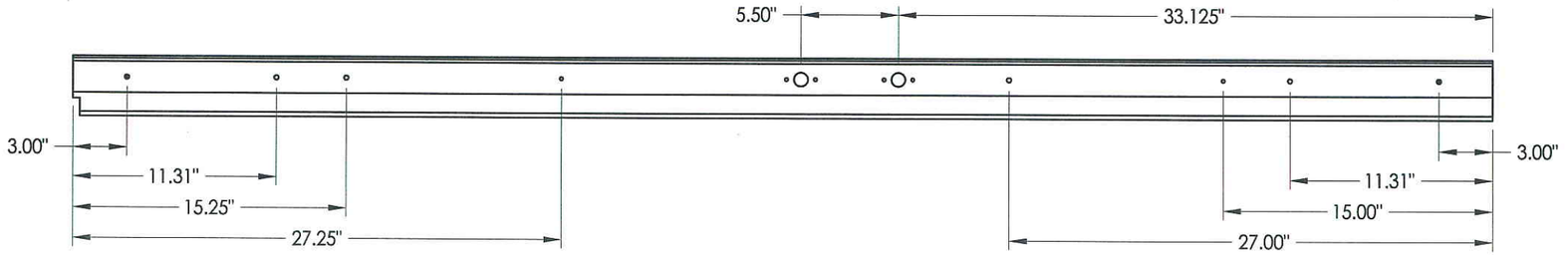
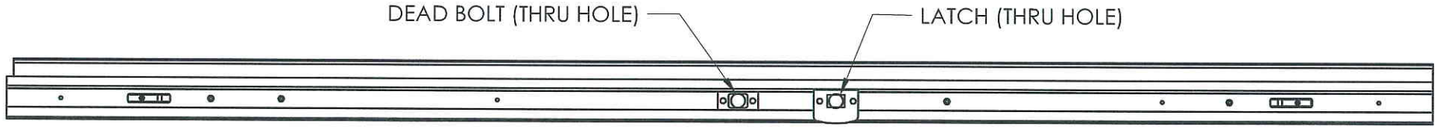


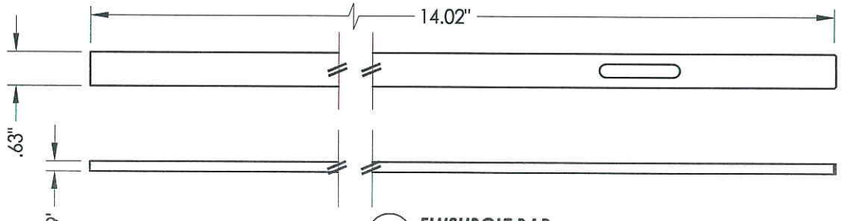

TOP

BOTTOM

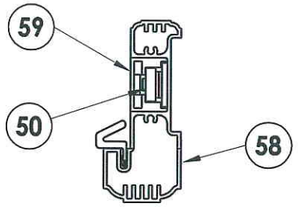



B-B

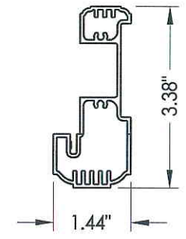
**6'8 ALUMINUM ASTRAGAL ASSEMBLY**
By Trinity



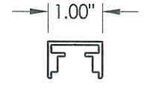

(50) **FLUSHBOLT BAR**
MATL: Steel




**VIEW B-B**
Aluminum Astragal Assembly




(58) **TRC ALUMINUM ASTRAGAL**
By Trinity




(59) **TRC ASTRAGAL CHANNEL**
By Trinity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CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: TRINITY GLASS INT'L. 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: TRC ASTRAGAL DETAILS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

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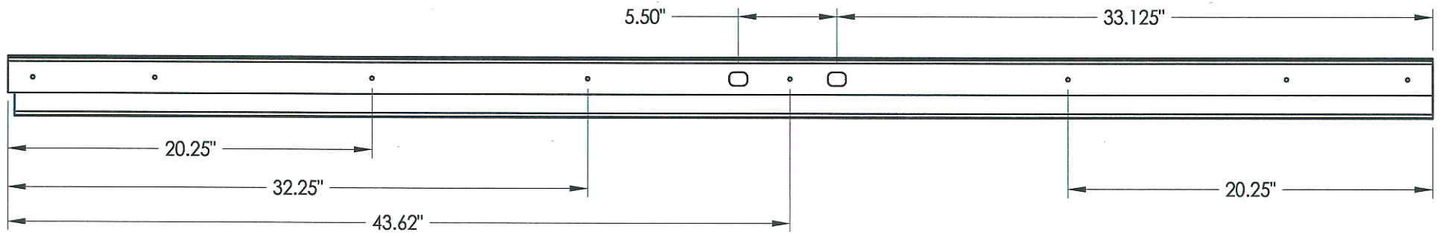
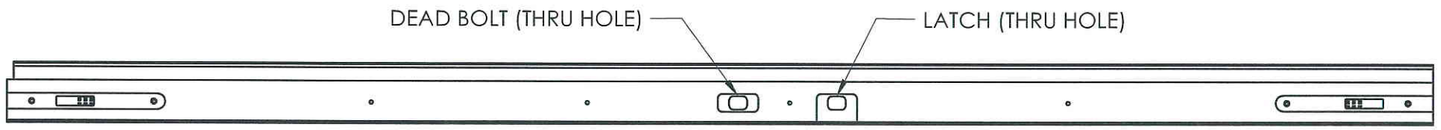


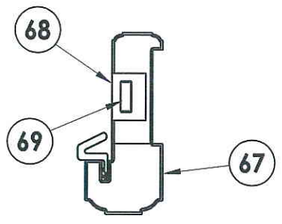

TOP

BOTTOM

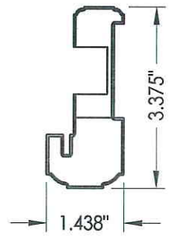



***6'8 PVC ASTRAGAL ASSEMBLY***
By Trinity

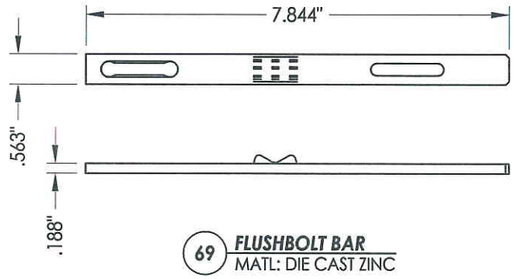
C-C



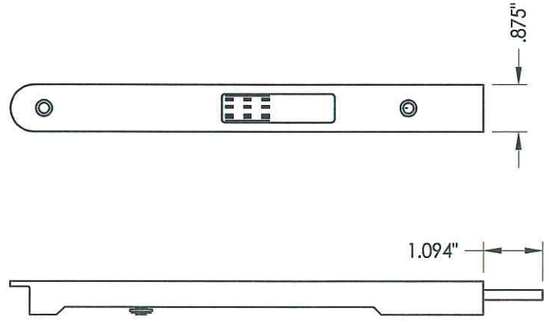

***VIEW C-C***
PVC ASTRAGAL ASSEMBLY




(67) ***PVC ASTRAGAL***
BY Trinity




(69) ***FLUSHBOLT BAR***
MATL: DIE CAST ZINC




(68) ***FLUSHBOLT***
MATL: 8.75" DIE CAST ZINC

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY: PVC ASTRAGAL DETAILS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

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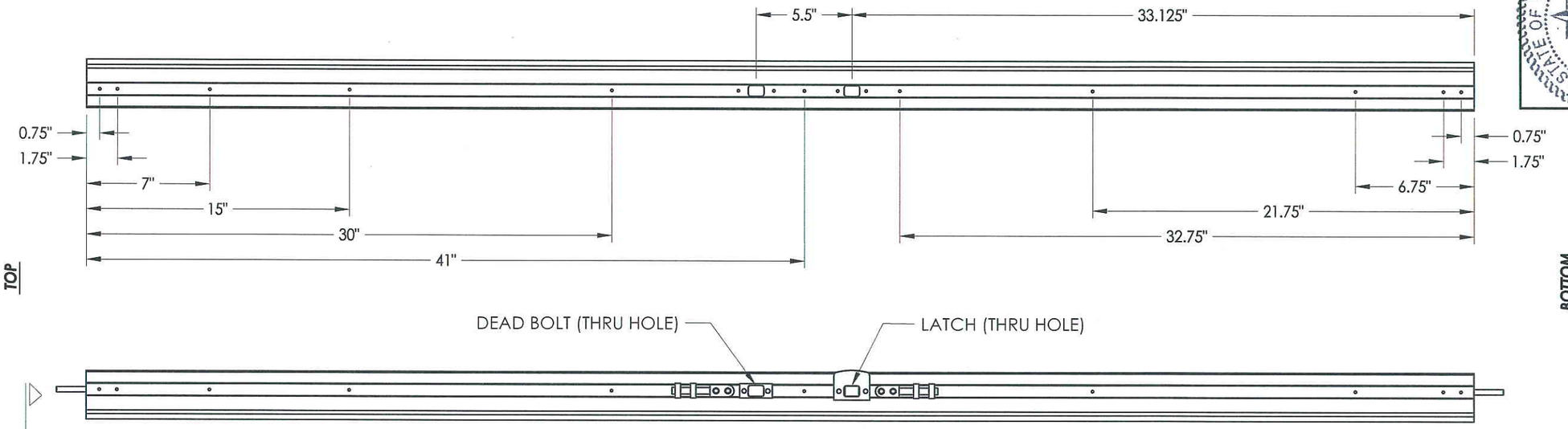
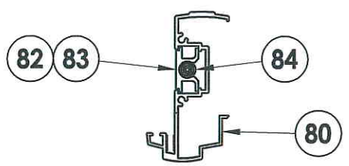
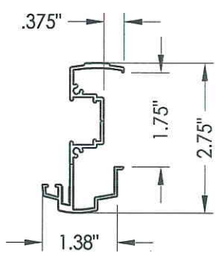



**6'8 ALUMINUM ASTRAGAL ASSEMBLY**
By Columbia

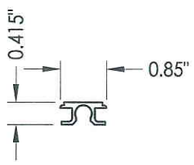
D-D



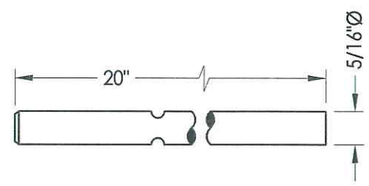

***VIEW D-D***
Aluminum Astragal Assembly




**80** ***ALUMINUM ASTRAGAL***
BY Columbia




**82** **83** ***FLUSHBOLT RETAINER***
Top / bottom
Aluminum 6063-T5




**84** ***FLUSHBOLT ROD***
Steel


Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: *TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE*

PART OR ASSEMBLY: *COLUMBIA ASTRAGAL DETAILS*

REVISIONS

| NO. | DATE | | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

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DWG. BY: EW
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## BILL OF MATERIALS

| ITEM | DESCRIPTION | MATERIAL |
|---|---|---|
| A | 2X HEADER FRAMING SG >= 0.42 | WOOD |
| B | 2X FRAMING SG >= 0.42 | WOOD |
| G | MAX. 1/4" SHIM SPACE | WOOD |
| J | #9 X 2-1/4" PFH WS | STEEL |
| L | #8 X 3" PFH WS | STEEL |
| P | 3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW | STEEL |
| Q | 3/16" X 3-1/4" ITW CONCRETE SCREW | STEEL |
| 3 | HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42 | WOOD |
| 4 | HEAD - FINGER-JOINT PINE - SG >= 0.42 | WOOD |
| 5 | INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE | ALUMINUM |
| 6 | DOOR BOTTOM SWEEP | PVC |
| 7 | DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS | - |
| 8 | #6 X 1-1/4 PFH DRYWALL SCREW | STEEL |
| 12 | WEATHER STRIP QEBD650 Q-LON | - |
| 18 | 3.983" X 4.0" HINGE MIN 0.098" THICK | STEEL |
| 19 | SILLKEY | PC/ASA |
| 21 | LOCK (SEE LOCK & DEADBOLT RATINGS CHART) | STEEL |
| 22 | DEADBOLT (SEE LOCK & DEADBOLT RATINGS CHART) | STEEL |
| 23 | STRIKE PLATE | STEEL |
| 23A | DEADBOLT PLATE | STEEL |
| 24 | #9 X 5/8" PFH WS | STEEL |
| 25 | OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE | ALUM./ COMP. |
| 26 | #9 X 1.0" PFH WS | STEEL |
| 27 | OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE | ALUM./ COMP. |
| 30 | LATCH STILE - SG >= 0.42 | LVL/PVC |
| 31 | LVL LOCK BLOCK | POPLAR |
| 32 | HINGE STILE - SG >= 0.42 | LVL/PVC |
| 33 | TOP RAIL - POPLAR LVL & WPC COMBINATION | POPLAR/WPC |
| 34 | BOTTOM RAIL - POPLAR LVL & WPC COMBINATION | POPLAR/WPC |
| 39 | FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,203 PSI MIN.) | FIBERGLASS |
| 46 | FOAM CORE | POLYURETHANE |
| 50 | FLUSHBOLT BAR | STEEL |
| 51 | 4-3/4" LENGTH TOP BOLT RETAINER | HDPE |
| 52 | 9-8/4" LENGTH TOP BOLT RETAINER | ALUMINUM |
| 53 | #8 X 1-3/4" FPH SMS | STEEL |
| 54 | ASTRAGAL STRIKE @ HEAD | STEEL |
| 55 | ENDURA ASTRAGAL BY ENDURA PRODUCTS | ALUMINUM |
| 56 | ASTRAGAL STRIKE @ SILL | STEEL |
| 57 | SLIDE BOLT ROD | STEEL |
| 58 | TRINITY ASTRAGAL BY TRC | ALUMINUM |
| 59 | ASTRAGAL CHANNEL BY TRC | ALUMINUM |
| 64 | #8 x 2" PFH SCREW | STEEL |
| 67 | PVC ASTRAGAL BY TRC | PVC |
| 68 | FLUSHBOLT | DIE CAST ZINC |
| 69 | FLUSHBOLT BAR | DIE CAST ZINC |

## BILL OF MATERIALS

| ITEM | DESCRIPTION | MATERIAL |
|---|---|---|
| 80 | EXTRUDED ALUMINUM ASTRAGAL BY COLUMBIA ALUM. PROD. | ALUMINUM |
| 81 | #8 X 2-1/2" PFH WS | STEEL |
| 82 | TOP FLUSHBOLT RETAINER 6063-T5 | ALUM. /STEEL |
| 83 | BOTTOM FLUSHBOLT RETAINER 6063-T5 | ALUM. /STEEL |
| 84 | 5/16"Ø X 20" LONG FLUSHBOLT ROD | STEEL |

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104123
LICENSED PROFESSIONAL ENGINEER
1.6.10

*CONCRETE ANCHOR NOTES:*

1. *Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.*
2. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions are not exceeded.*
3. *Concrete anchor table:*

| ANCHOR TYPE | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|---|---|---|---|---|
| ITW | 3/16" | 1-3/4" | 2-5/8" | 2-1/4" |
| ELCO | 3/16" | 1-3/4" | 1" | 3" |


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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: *TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE*

PART OR ASSEMBLY: *BILL OF MATERIALS*

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE | AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE | EW |

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