



TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

6'0 X 6'8
FLUSH-GLAZED FIBERGLASS
DOUBLE DOOR
IN SWING / OUT SWING
"NON-IMPACT"

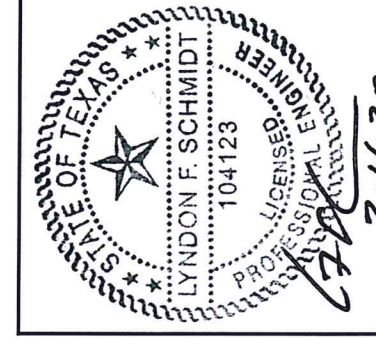
EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 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 areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 of the IBC.
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.

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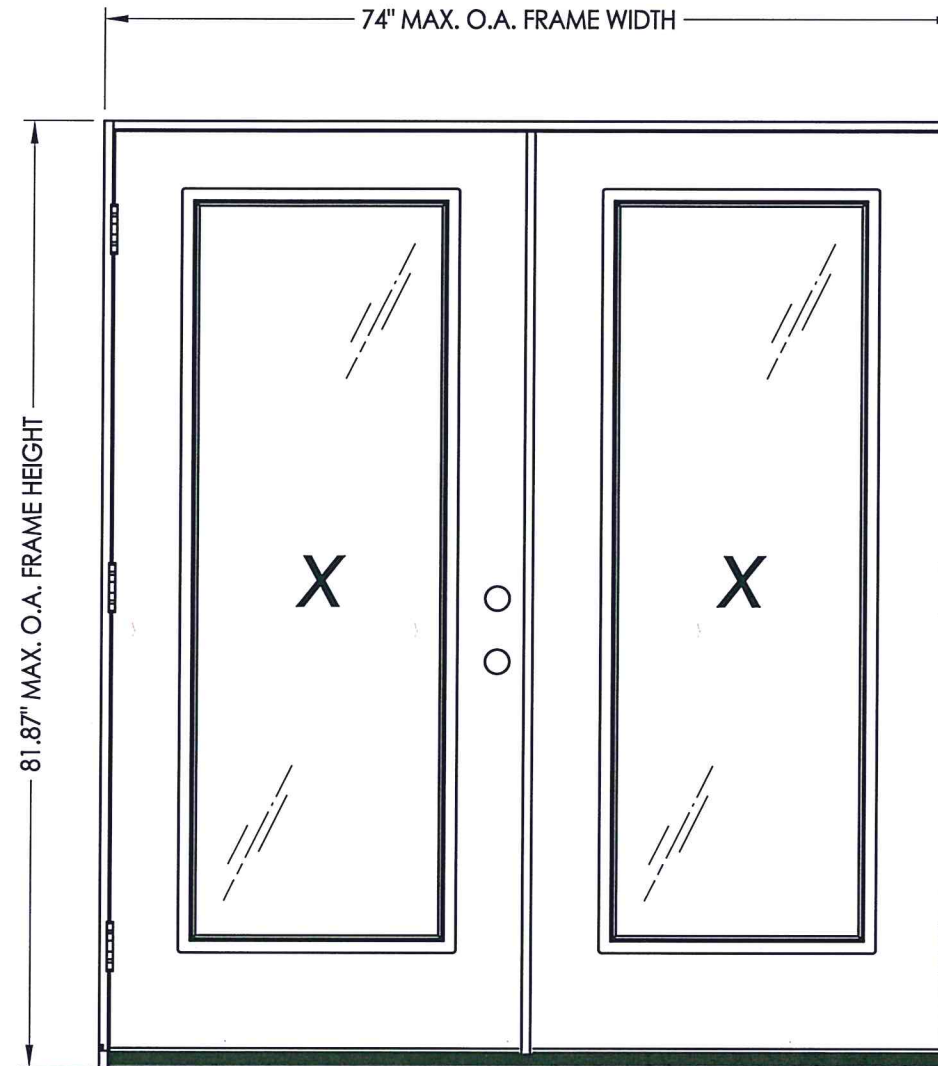
| SHEET # | DESCRIPTION |
|---------|--|
| 1 | Typical elevations, design pressures & general notes |
| 2 | Door panel construction details & glazing details |
| 3 | Horizontal cross sections |
| 4 | Vertical cross sections |
| 5 | Frame anchoring |
| 6 | Components |
| 7 | Endura astragal details |
| 8 | Bill of materials |



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

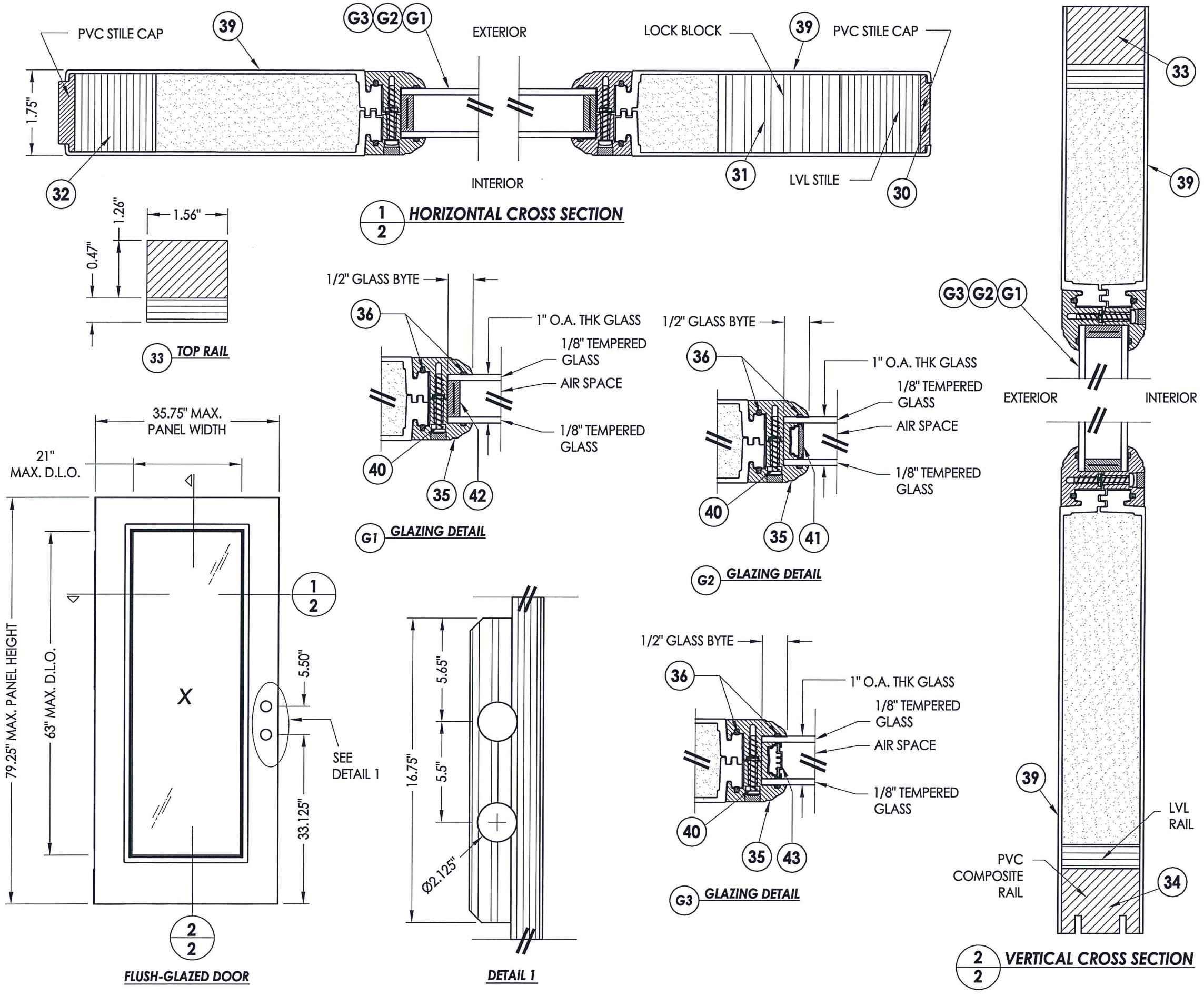


| ASTRAGAL TYPE | SWING | MAX. FRAME DIMENSION | GLASS TYPE | DESIGN PRESSURE PSF) | |
|---------------|-----------|----------------------|-------------|----------------------|----------|
| | | | | POSITIVE | NEGATIVE |
| ENDURA | IN SWING | 74.00" x 81.88" | G1, G2 & G3 | +55.0 | -60.0 |
| | OUT SWING | 74.00" x 80.75" | | +55.0 | -55.0 |

Refer to Table (sheet 3) for Passage Lock Rating Limitations

| | |
|-------------------|---|
| PRODUCT: | TRINITY GLASS INT'L 6'8 FLUSH GLAZED |
| PART OR ASSEMBLY: | TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES |
| DATE | 8/29/05 |
| SCALE | N.T.S. |
| DWG. BY: | WH |
| CHK. BY: | LFS |
| DRAWING NO.: | TX-601 |
| SHEET | 1 of 8 |

R:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR 181\C - Drawings\DR-181 2018 IBC\TX-601.dwg, 2



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 2.4.20

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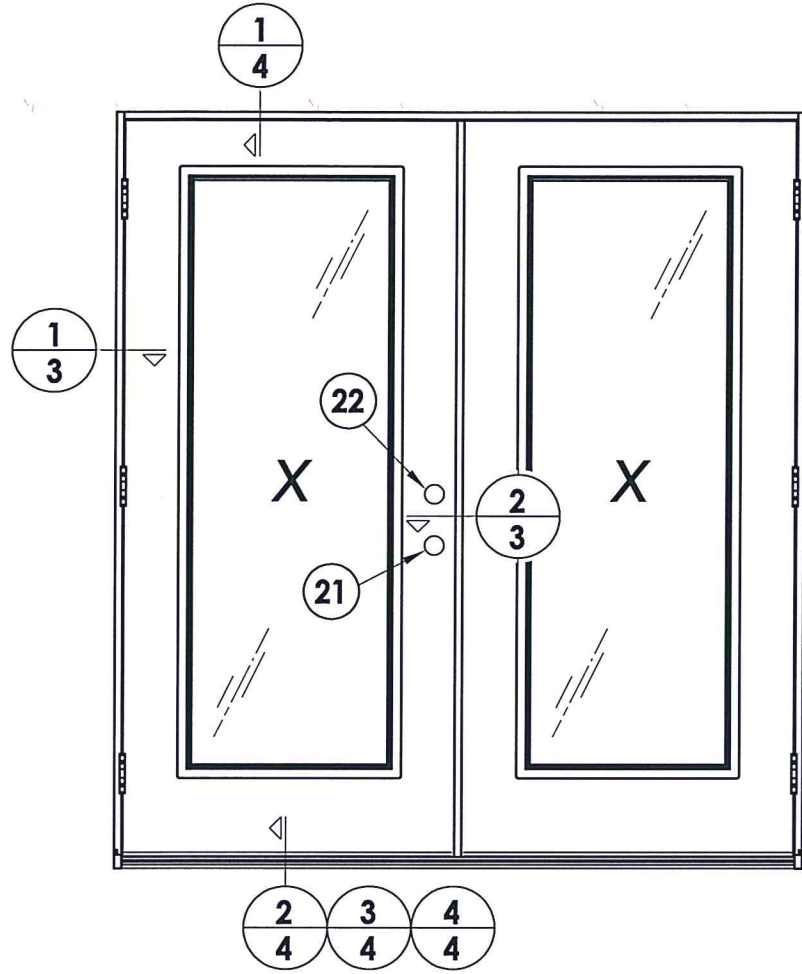
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PRODUCT: TRINITY GLASS INT'L
 6"8 FLUSH GLAZED

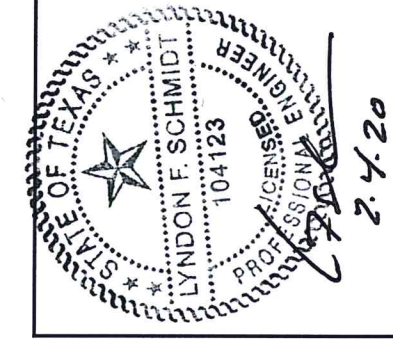
PART OR ASSEMBLY:
 DOOR PANEL CONSTRUCTION
 DETAILS AND GLAZING DETAILS

| NO. | DATE | REVISIONS |
|-----|---------|----------------------------------|
| 3 | 2/03/20 | UPDATE TO 2018 IBC/IRC LFS |
| 2 | 7/27/09 | TDI PRODUCT EVALUATION UPDATE AL |
| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE EW |

DATE: 8/29/05
 SCALE: N.T.S.
 DWG. BY: WH
 CHK. BY: LFS
 DRAWING NO.: TX-601
 SHEET 2 OF 8



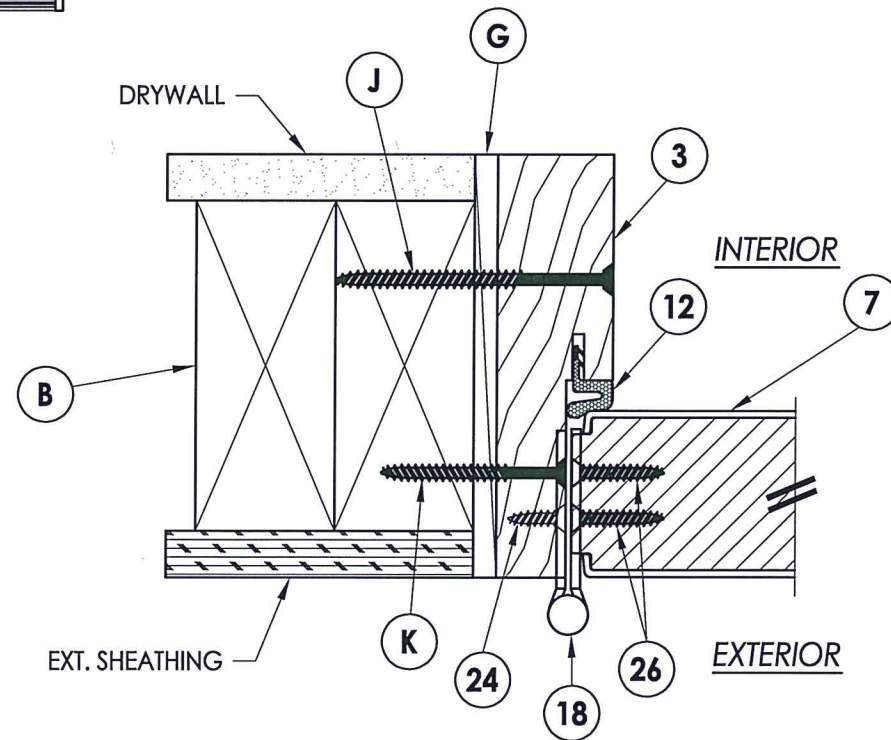
| LOCK & DEADBOLT RATINGS CHART | | | | |
|-------------------------------|-------------------------|--------|----------------------------|----------|
| MANUFACTURER | MODEL | ITEM # | MAX. DESIGN PRESSURE (PSF) | |
| | | | POSITIVE | NEGATIVE |
| KWIKSET | LOCK: 740 | 21 | +65.0 | -65.0 |
| | DEADBOLT: 780 | 22 | | |
| KWIKSET | LOCK: COMBO 660 | 21 | +65.0 | -65.0 |
| | DEADBOLT: COMBO 660 | 22 | | |
| SCHLAGE | LOCK: MAX. SECURITY | 21 | +60.0 | -60.0 |
| | DEADBOLT: MAX. SECURITY | 22 | | |



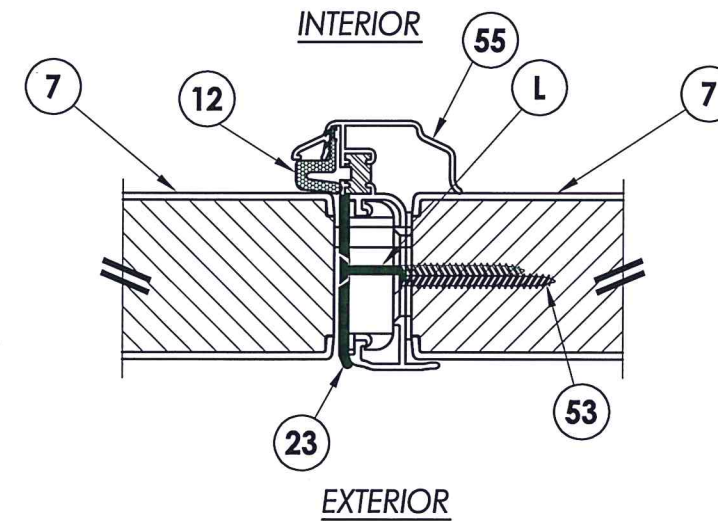
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1 HORIZONTAL CROSS SECTION
3 Outswing shown
Inswing also approved

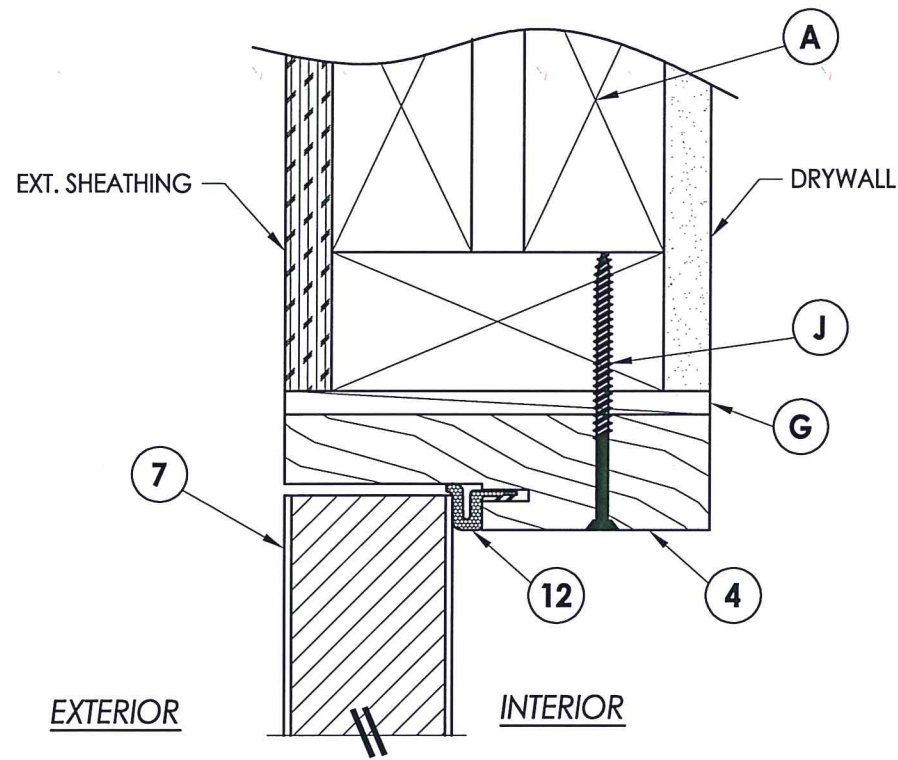


2 HORIZONTAL CROSS SECTION
3 Outswing shown
Inswing also approved

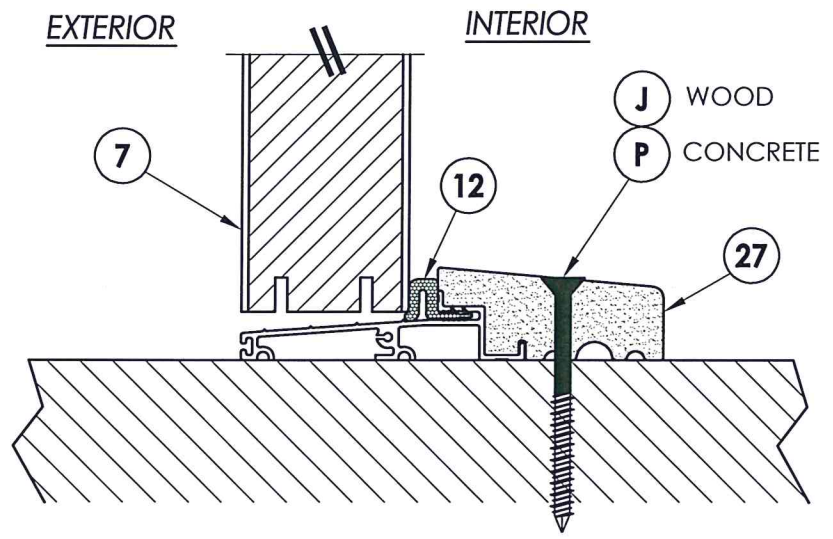
PRODUCT: TRINITY GLASS INT'L
6 8 FLUSH GLAZED
PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

| NO. | DATE | REVISIONS |
|-----|---------|-------------------------------|
| 3 | 2/03/20 | UPDATE TO 2018 IBC/IRC |
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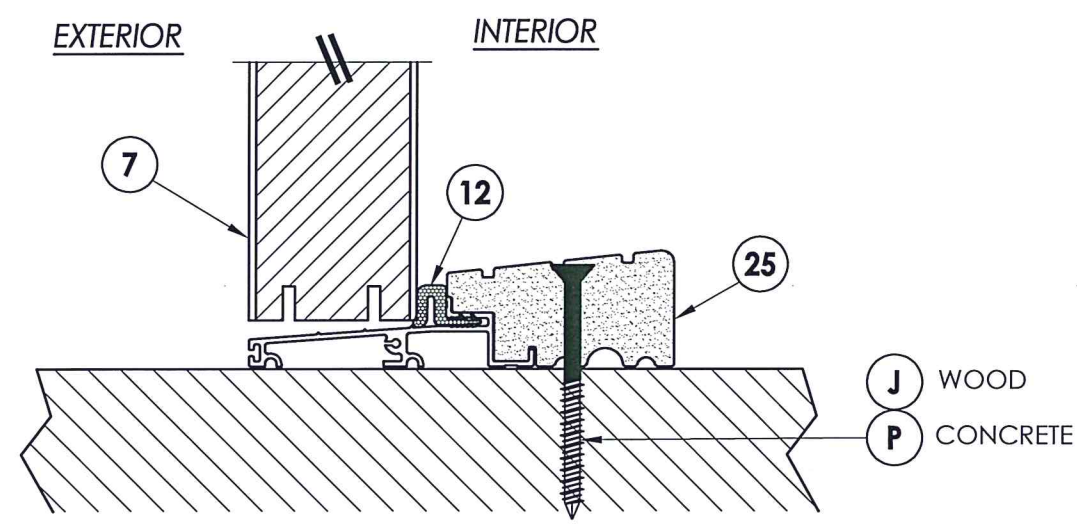
DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-601
SHEET 3 OF 8



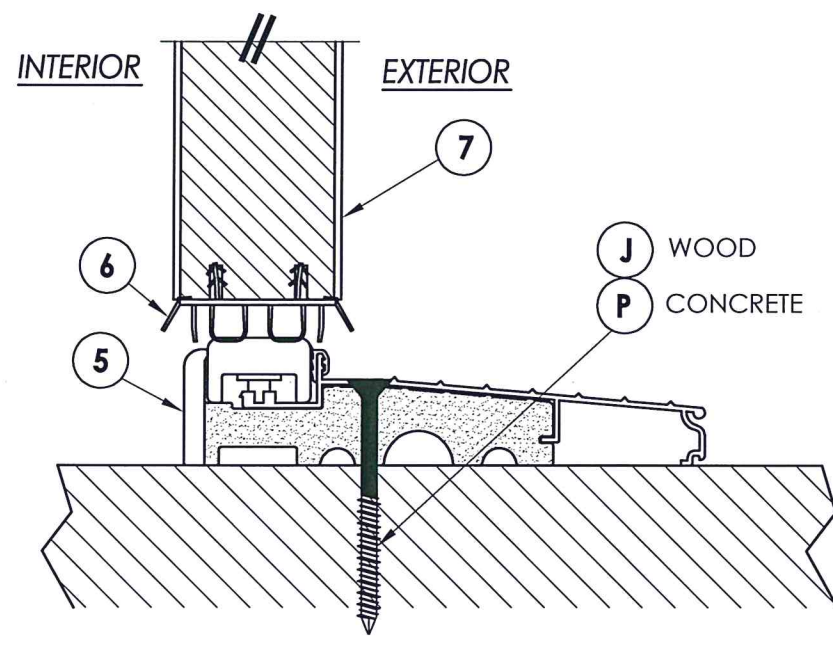
1 VERTICAL CROSS SECTION
4 Outswing shown
 Inswing also approved



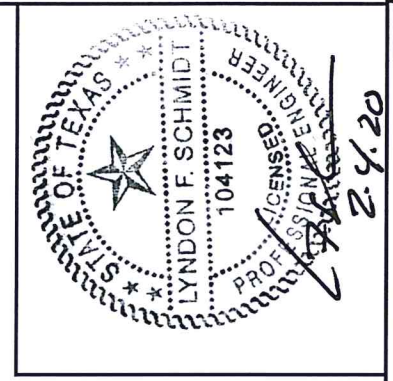
2 VERTICAL CROSS SECTION
4 Outswing configuration



3 VERTICAL CROSS SECTION
4 Outswing configuration



4 VERTICAL CROSS SECTION
4 Inswing configuration



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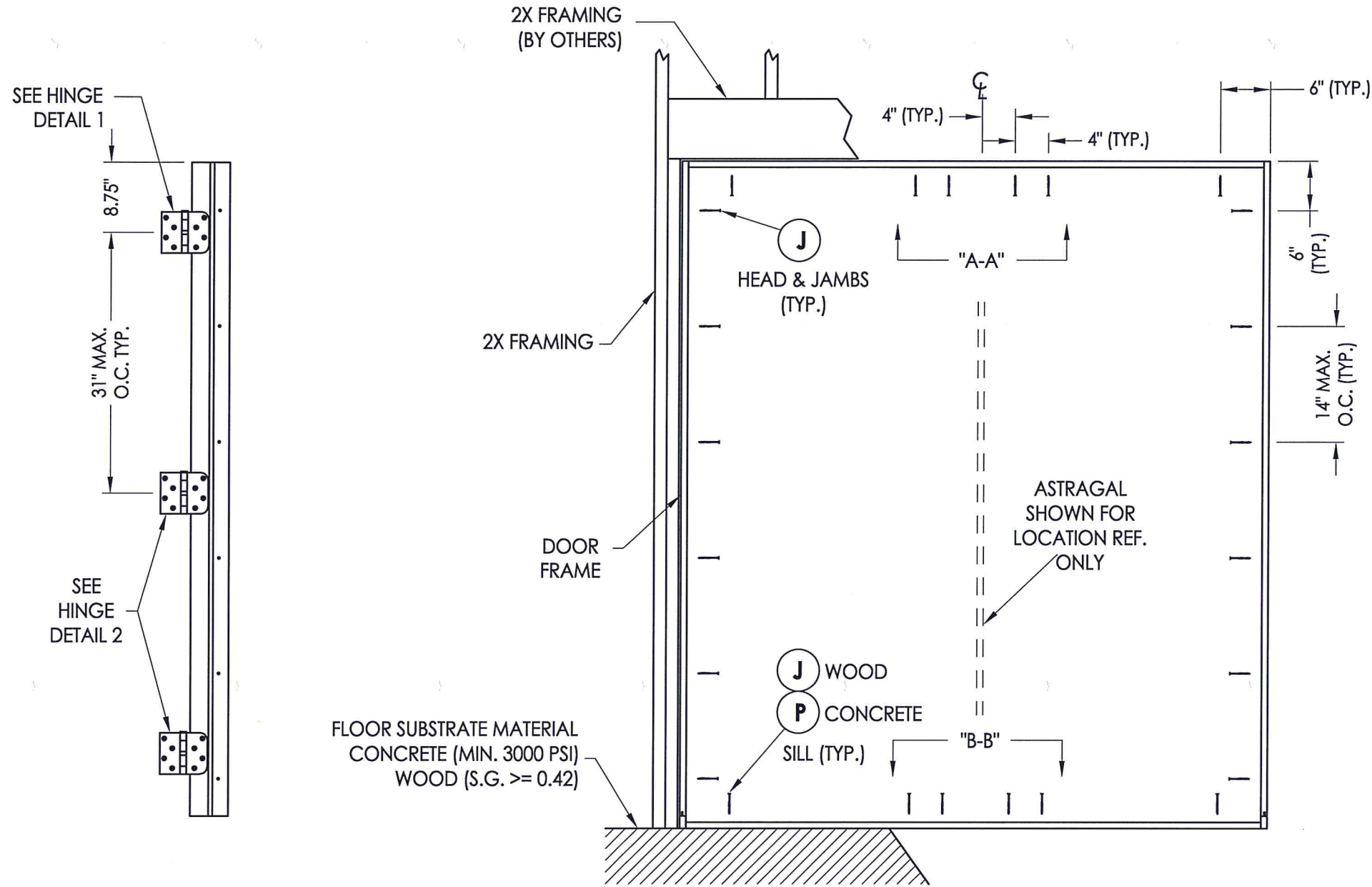
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PRODUCT: TRINITY GLASS INT'L
 6 8 FLUSH GLAZED
 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

| NO. | DATE | REVISIONS |
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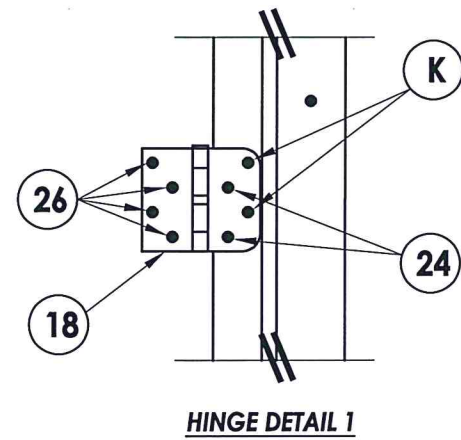
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 SCALE: N.T.S.
 DWG. BY: WH
 CHK. BY: LFS
 DRAWING NO.: TX-601
 SHEET 4 OF 8



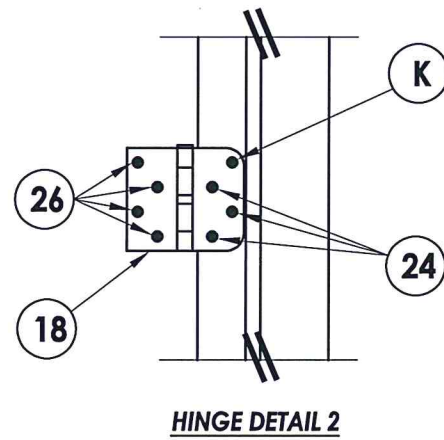
HINGE JAMB

FRAME ANCHORING
Stud construction

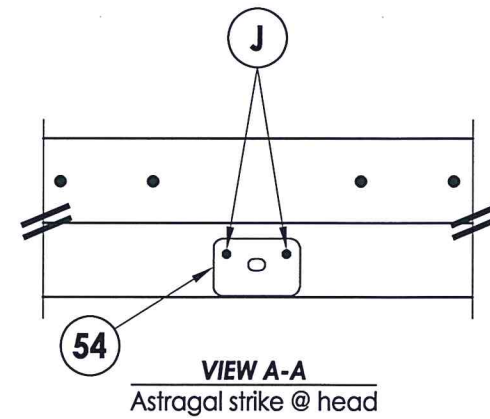
ASTRAGAL



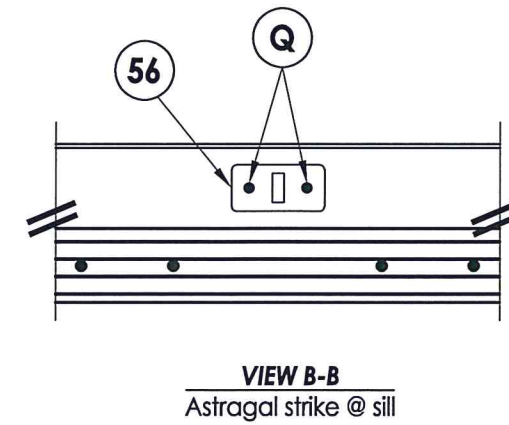
HINGE DETAIL 1



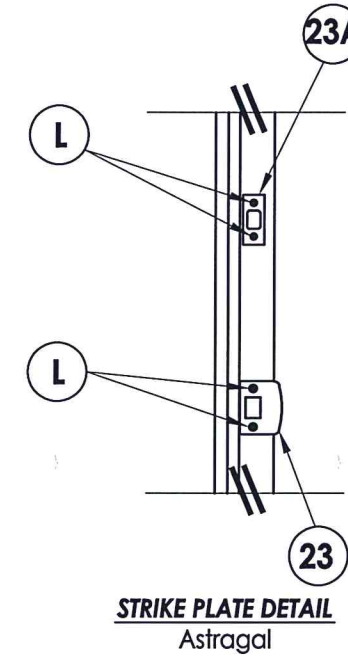
HINGE DETAIL 2



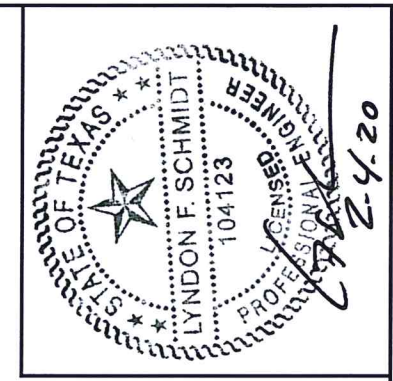
VIEW A-A
Astragal strike @ head



VIEW B-B
Astragal strike @ sill



STRIKE PLATE DETAIL
Astragal



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PRODUCT: TRINITY GLASS INT'L
6"8" FLUSH GLAZED

PART OR ASSEMBLY:
FRAME ANCHORING

| NO. | DATE | REVISIONS |
|-----|---------|-------------------------------|
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DATE: 8/29/05

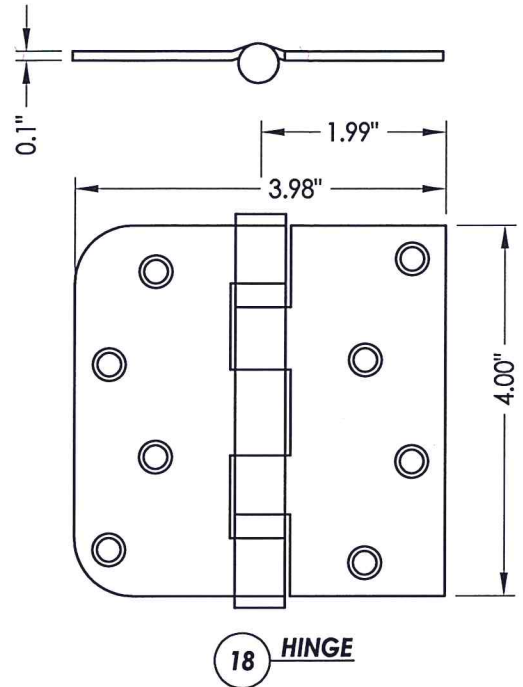
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DWG. BY: WH

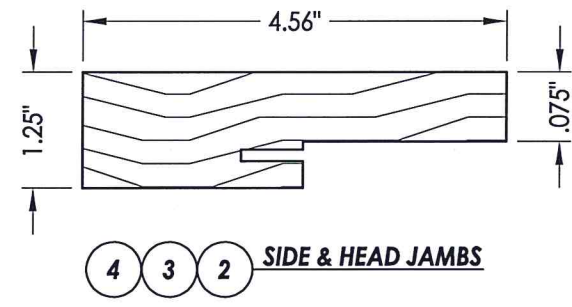
CHK. BY: LFS

DRAWING NO.: TX-601

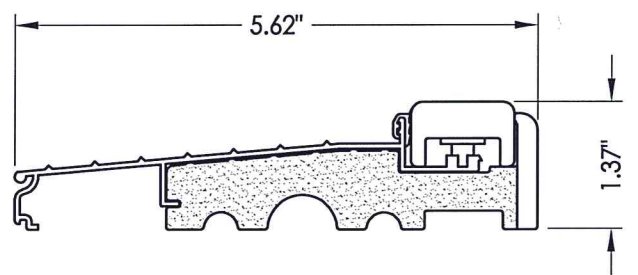
SHEET 5 OF 8



18 HINGE



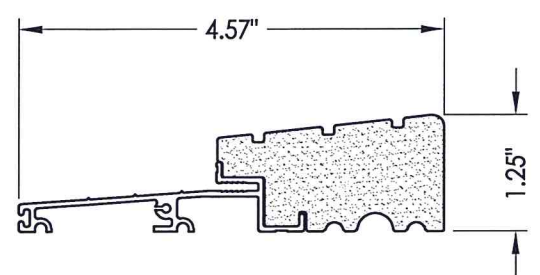
4 3 2 SIDE & HEAD JAMBS



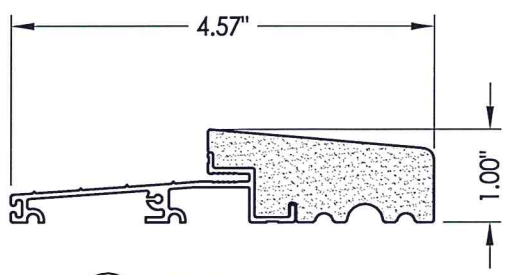
5 INSWING THRESHOLD



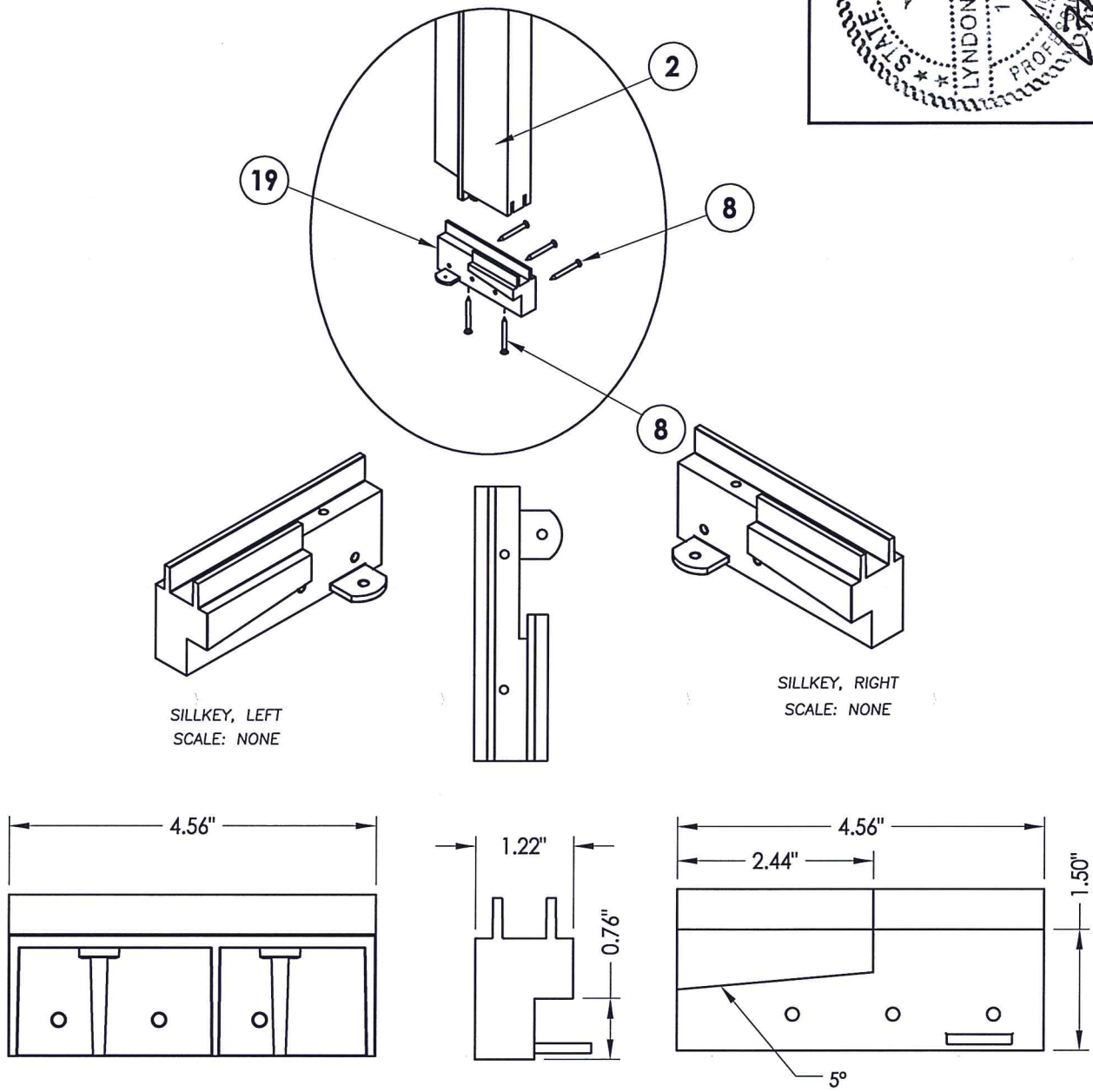
6 DOOR BOTTOM SWEEP



25 OUTSWING THRESHOLD
High-dam option



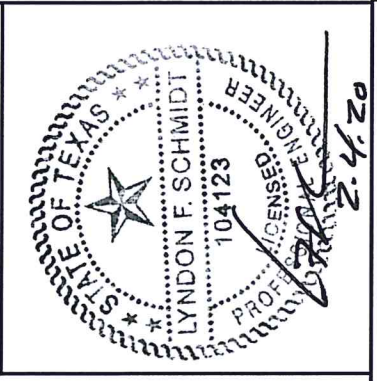
27 OUTSWING THRESHOLD



SILLKEY, LEFT
SCALE: NONE

SILLKEY, RIGHT
SCALE: NONE

19 SILLKEY DETAILS
Optional



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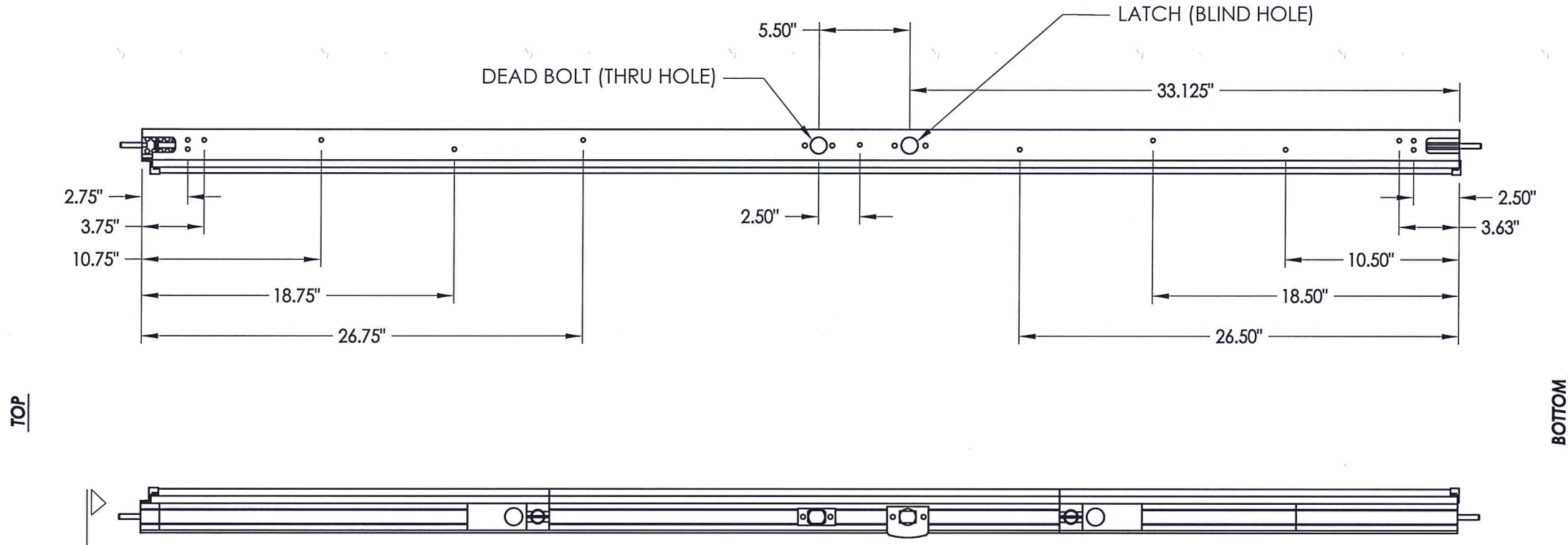
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| | |
|-------------------|---|
| PRODUCT: | TRINITY GLASS INT'L 6 8 FLUSH GLAZED |
| PART OR ASSEMBLY: | COMPONENTS |

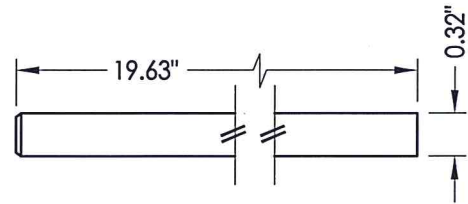
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| 1 | 6/28/06 | REVISED LOCKSET NOMENCLATURE |

| | |
|--------------|---------|
| DATE: | 8/29/05 |
| SCALE: | N.T.S. |
| DWG. BY: | WH |
| CHK. BY: | LFS |
| DRAWING NO.: | TX-601 |
| SHEET | 6 of 8 |

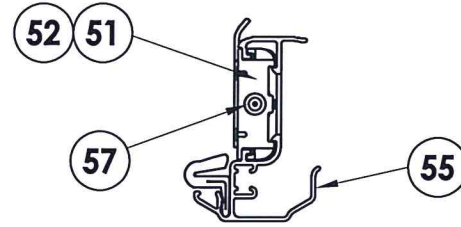


6'8 ALUMINUM ASTRAGAL ASSEMBLY
By Endura Products

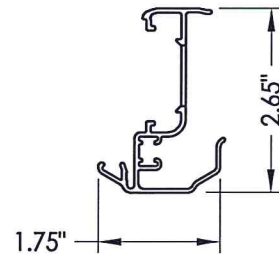
A-A



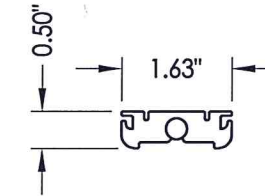
57 SLIDE BOLT ROD
MATL: Steel



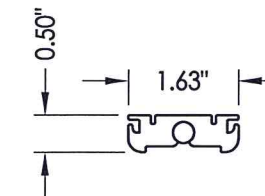
VIEW A-A
Aluminum Astragal Assembly



55 ALUMINUM ASTRAGAL
By Endura Products



52 TOP BOLT RETAINER
MATL: 9-3/4\"/>



51 TOP BOLT RETAINER
MATL: 4-3/4\"/>



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PRODUCT: TRINITY GLASS INT'L
6 8 FLUSH GLAZED
PART OR ASSEMBLY:
ENDURA ASTRAGAL DETAILS

| NO. | DATE | REVISIONS |
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DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-601
SHEET 7 OF 8

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 | #10 X 3" PFH WS | STEEL |
| K | #9 X 2" PFH WS | STEEL |
| L | #8 X 2-1/2" 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 |
| 2 | STRIKE JAMB - FINGER-JOINT PINE - SG >= 0.42 | WOOD |
| 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" 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 |
| 35 | LITE FRAME | PC/ASA |
| 36 | GLAZING COMPOUND | SILICONE |
| 39 | FIBERGLASS SKIN 0.079" MIN. THICKNESS | FIBERGLASS |
| 40 | #8 X 1-1/8" SELF THREADING SCREW | STEEL |
| 41 | POLYPROPYLENE & ALUMINUM COMBINATION GLAZING SPACER | POLY./ALUM. |
| 42 | ALUMINUM & BUTYL SPACER SYSTEM | ALUM./BUTYL |
| 43 | PVC & ALUMINUM SPACER SYSTEM | PVC/ ALUM. |
| 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" PFH SMS | STEEL |
| 54 | ASTRAGAL STRIKE @ HEAD | STEEL |
| 55 | ASTRAGAL BY ENDURA PRODUCT | ALUMINUM |
| 56 | ASTRAGAL STRIKE @ SILL | STEEL |
| 57 | SLIDE BOLT ROD | STEEL |



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PRODUCT: TRINITY GLASS INT'L
6'8 FLUSH GLAZED

PART OR ASSEMBLY:
BILL OF MATERIALS

| NO. | DATE | REVISIONS |
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DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-601
SHEET 8 OF 8

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 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" dimension are not exceeded.
- Concrete anchor table:

| ANCHOR TYPE | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|---------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW BUILDEX TAPCON® | 1/4" | 1-3/4" | 2" | 4" |
| ELCO ULTRACON® | 1/4" | 1-3/4" | 1" | 4" |

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.