

TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

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

**INSWING / OUTSWING
"IMPACT"**

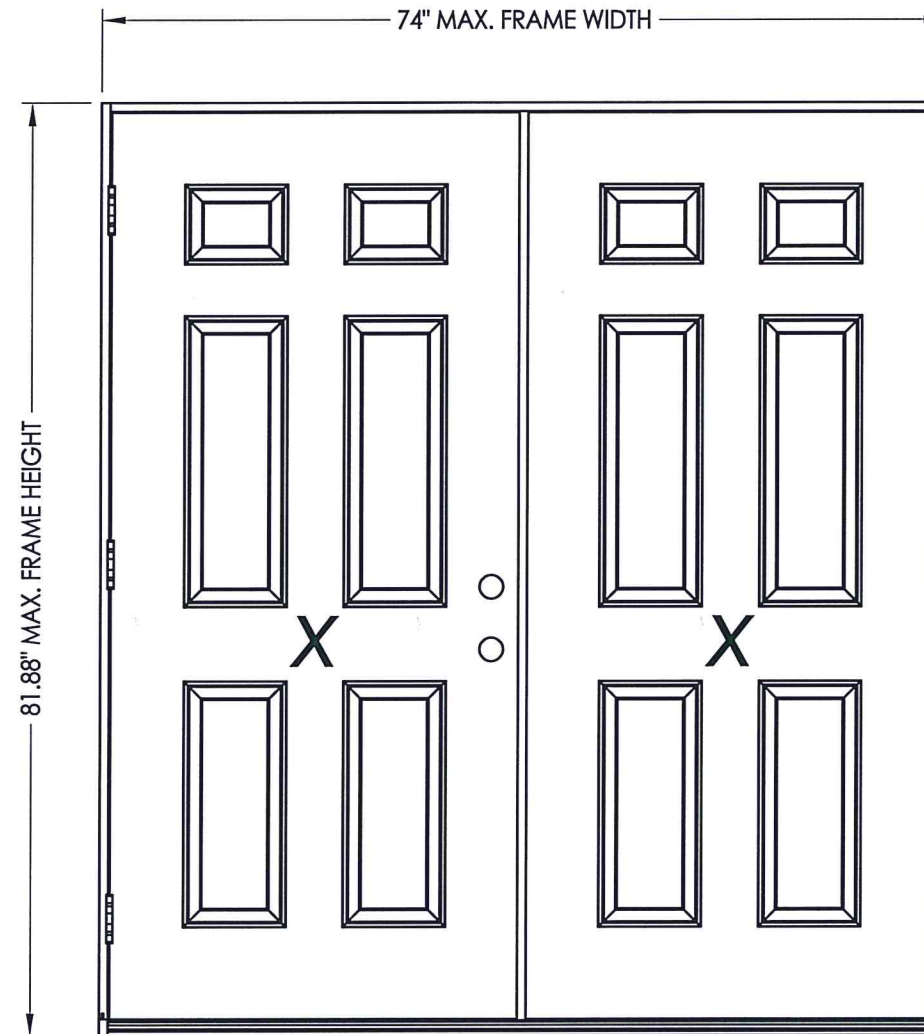
EVALUATED FOR USE IN THE STATE OF TEXAS

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. This system has been tested and evaluated as a large missile impact protective system for installation in areas requiring wind-borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
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



ASTRAGAL TYPE	SWING	MAX. FRAME DIMENSION	DESIGN PRESSURE PSF	
			POSITIVE	NEGATIVE
ENDURA	INSWING	74.0" x 81.88"	+55.0	-55.0
	OUTSWING	74.0" x 80.75"	+55.0	-55.0



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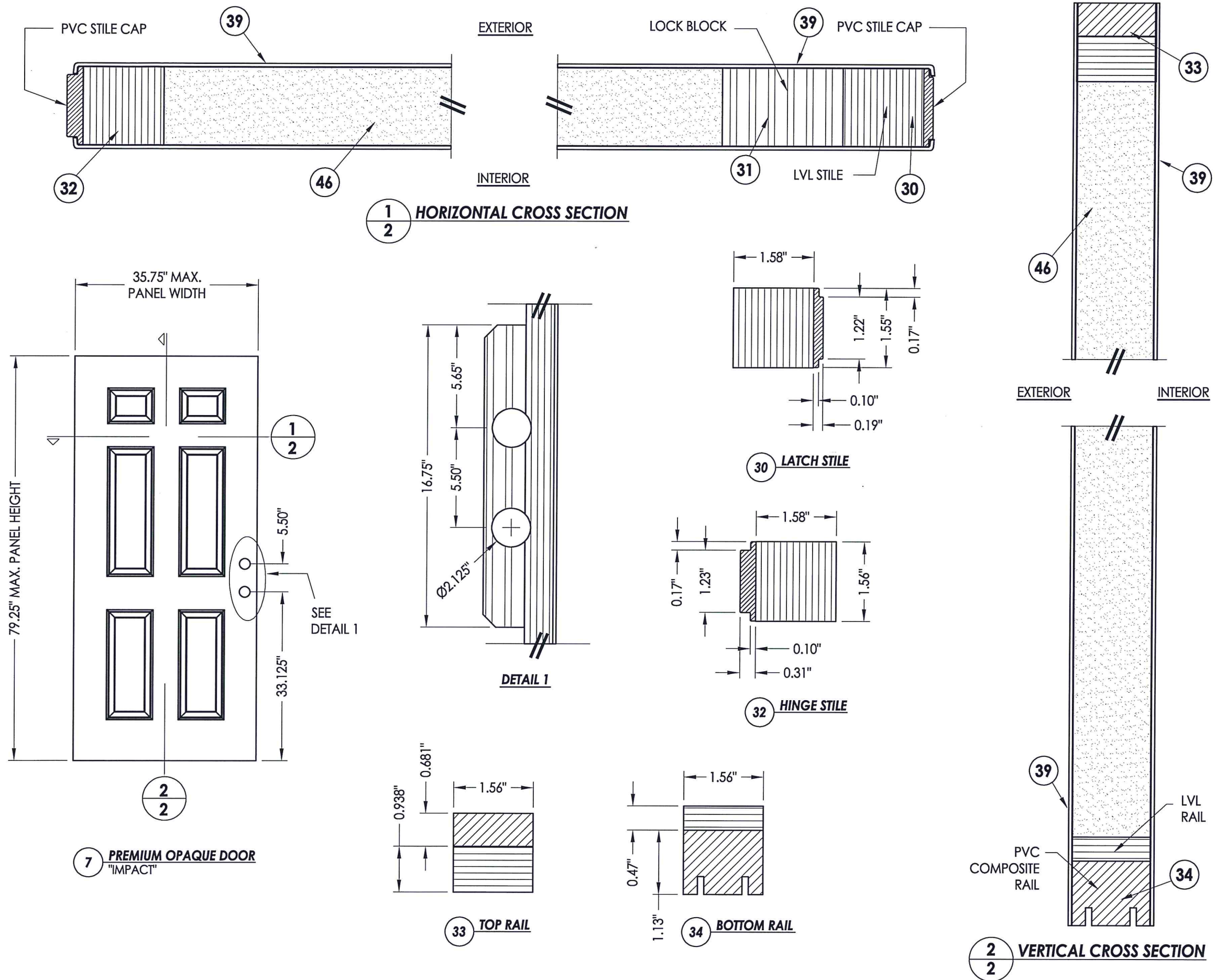
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CERTIFICATE OF REGISTRATION # F-11852

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

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

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 8/29/05
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: TX-585
SHEET 1 OF 8



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

PART OR ASSEMBLY:
DOOR PANEL
CONSTRUCTION DETAILS

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 8/24/05

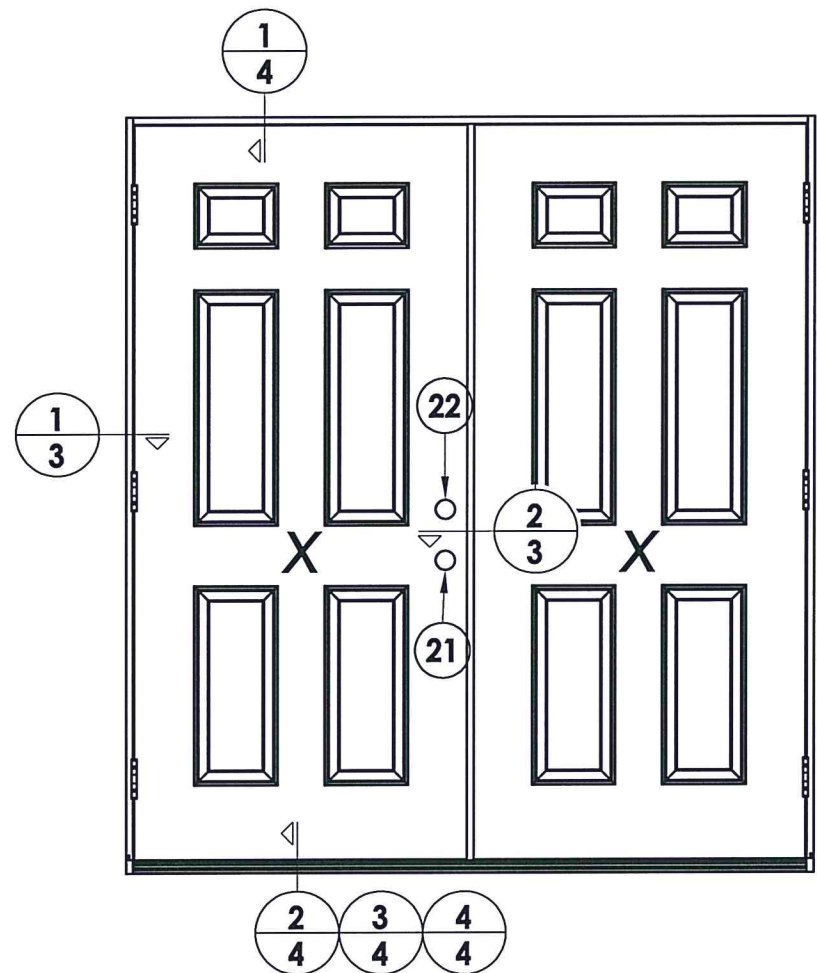
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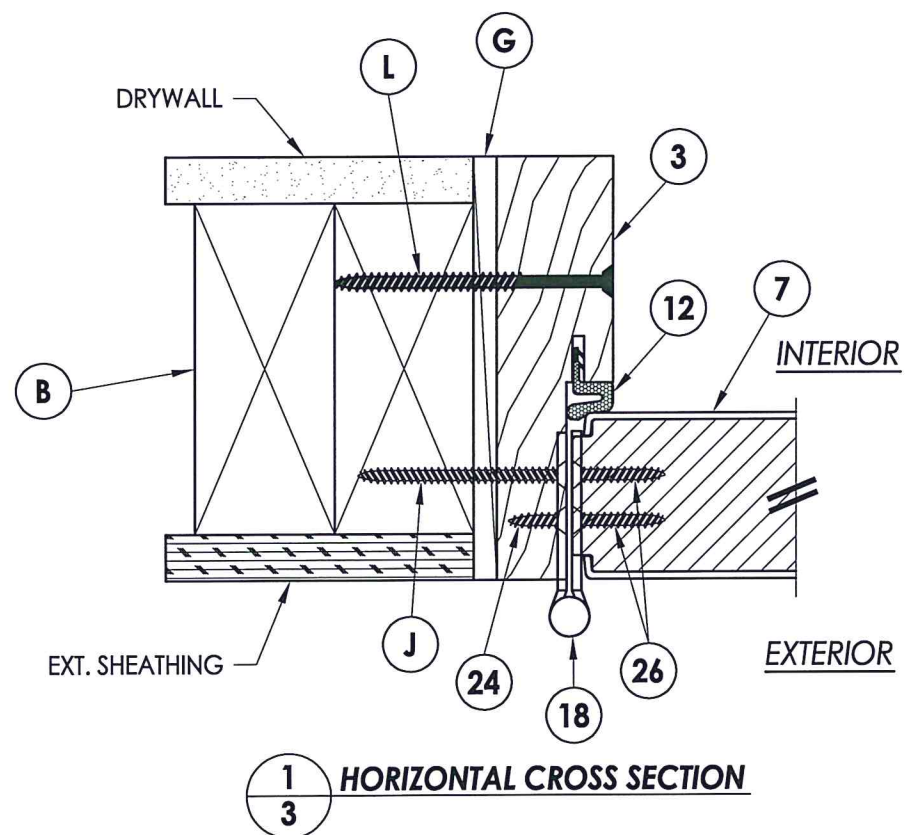
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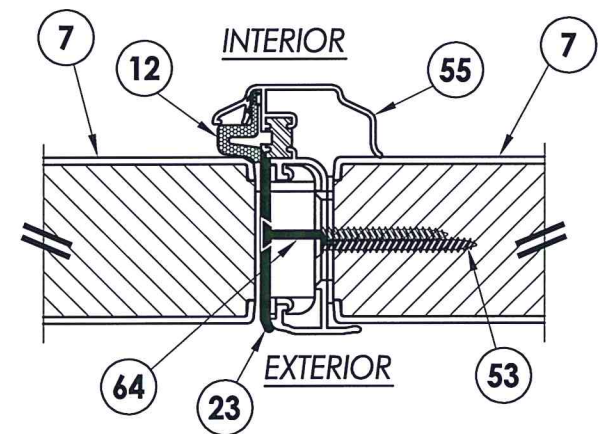
SHEET 2 OF 8



HARDWARE CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 740	21
	DEADBOLT: 780	22
KWIKSET	LOCK: COMBO 660	21
	DEADBOLT: COMBO 660	22
SCHLAGE	LOCK: MAX. SECURITY	21
	DEADBOLT: MAX. SECURITY	22



1
3 HORIZONTAL CROSS SECTION



2 HORIZONTAL CROSS SECTION
3 Endura astragal



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2.11.20

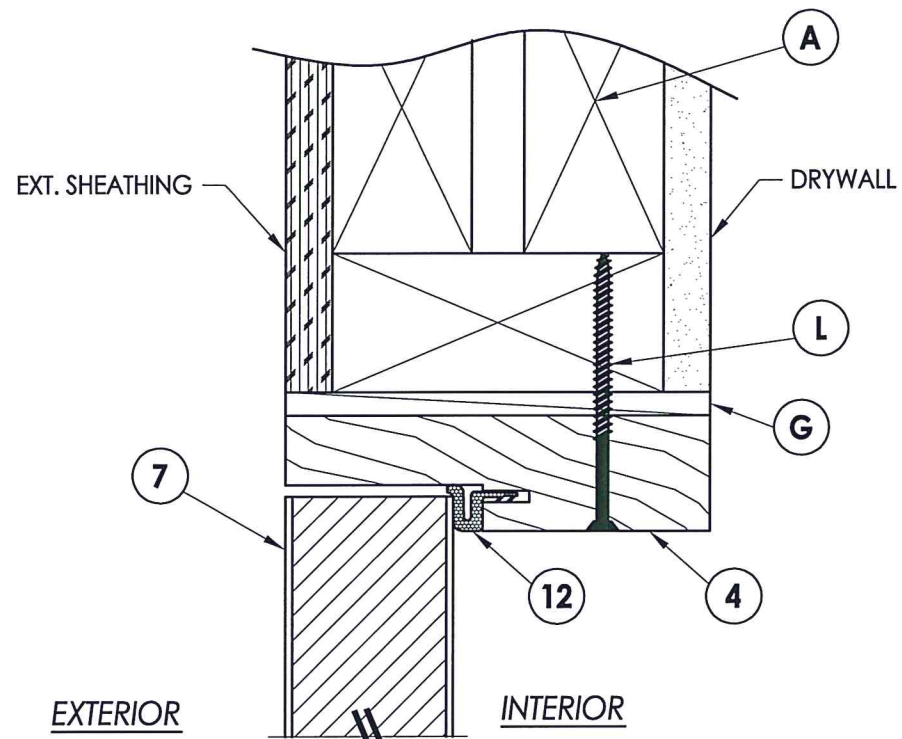
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6'8 PREMIUM OPAQUE

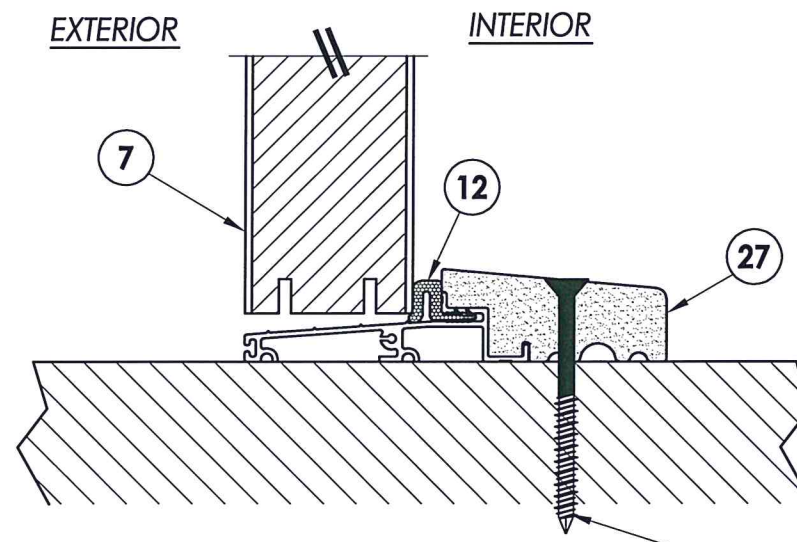
PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
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		NO. DATE
		BY

DATE: 8/24/05
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DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-585
SHEET 3 OF 8

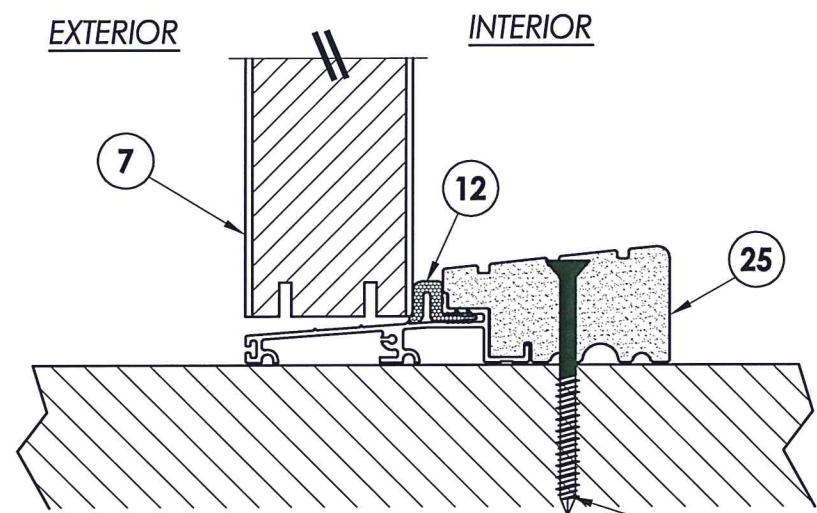


1 VERTICAL CROSS SECTION
4 Outswing shown
 Inswing also approved



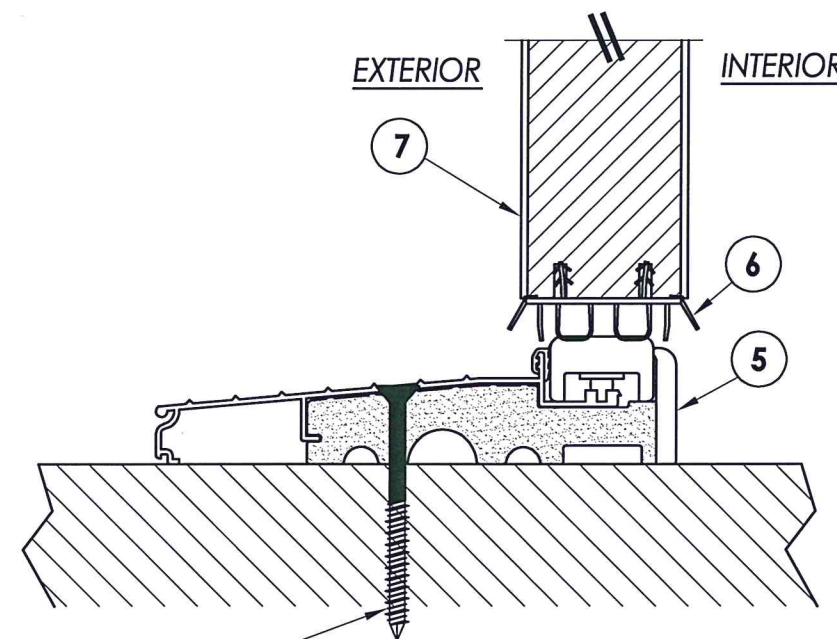
2 VERTICAL CROSS SECTION
4 Outswing configuration

L WOOD
P CONCRETE



3 VERTICAL CROSS SECTION
4 Outswing configuration

L WOOD
P CONCRETE



4 VERTICAL CROSS SECTION
4 Inswing configuration

L WOOD
P CONCRETE



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

PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
3	2/10/20	UPDATE TO 2018 IBC/IRC	LFS
2	7/27/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/24/05

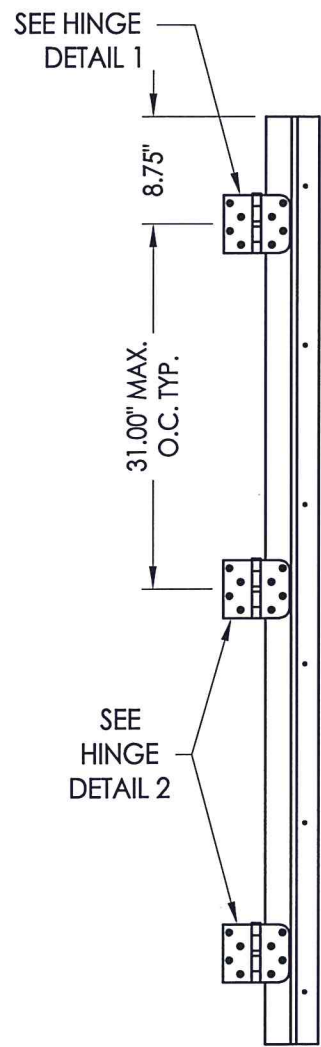
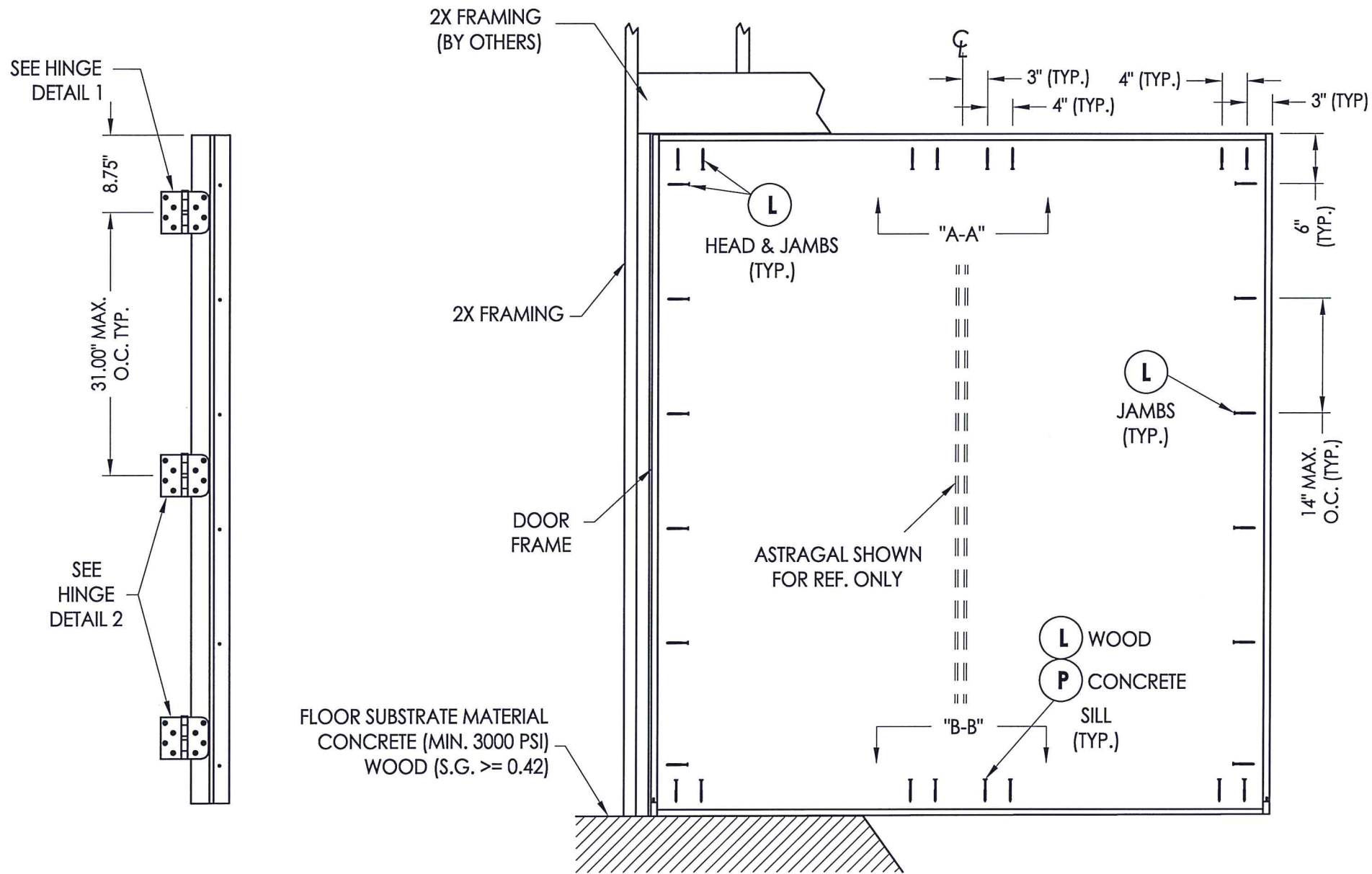
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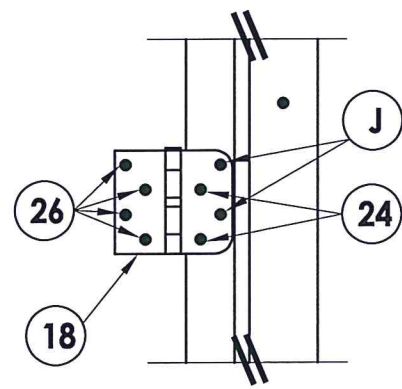
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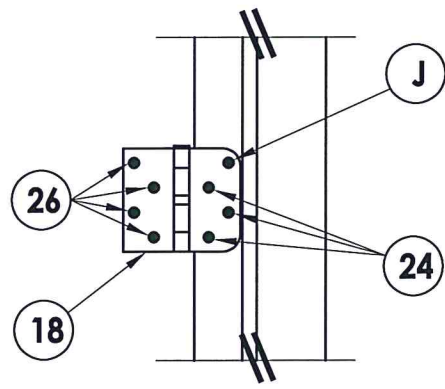
SHEET 4 OF 8



HINGE JAMB

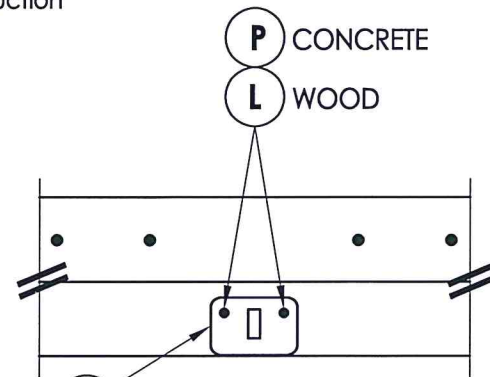


HINGE DETAIL 1



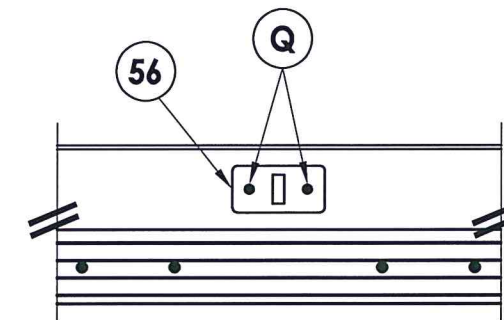
HINGE DETAIL 2

FRAME ANCHORING
Stud construction

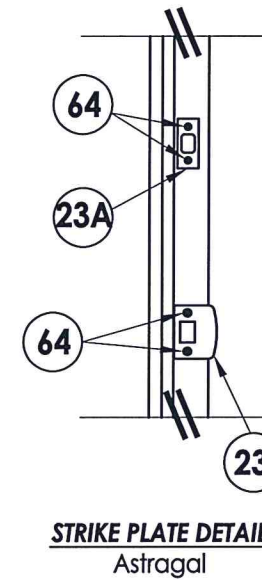


VIEW A-A
Astragal strike @ head

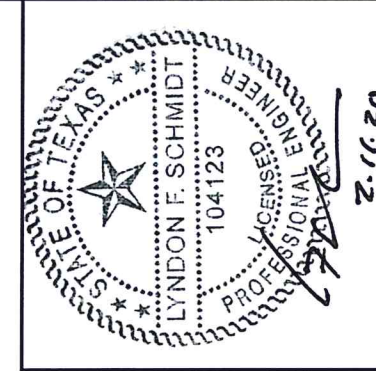
ASTRAGAL STRIKE



VIEW B-B
Astragal strike @ sill



STRIKE PLATE DETAIL
Astragal



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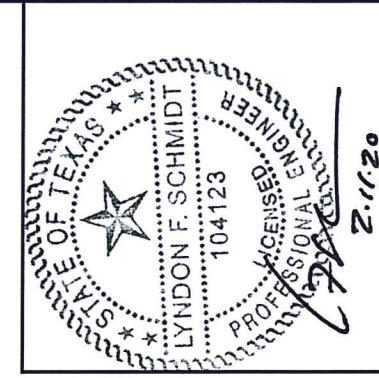
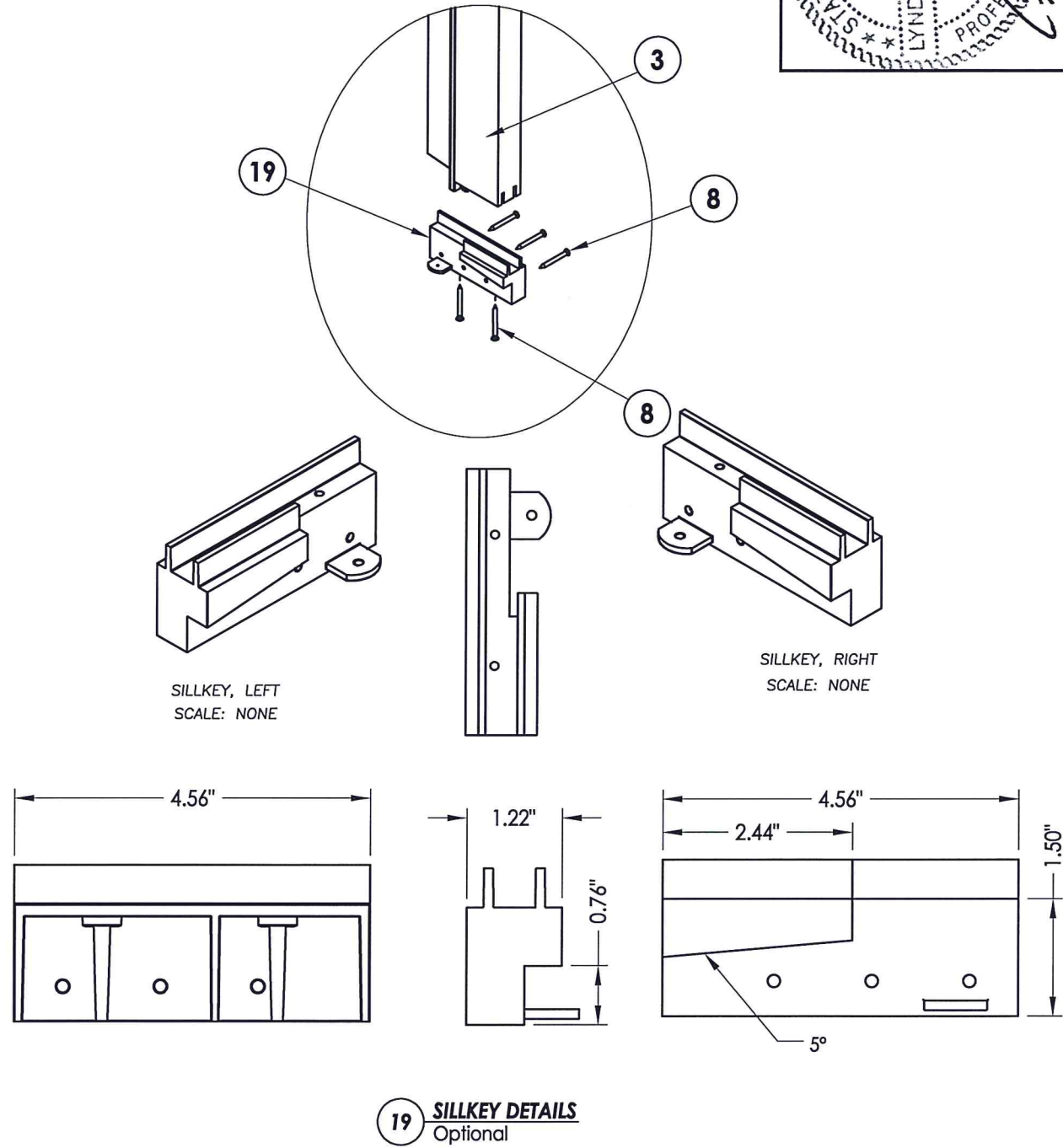
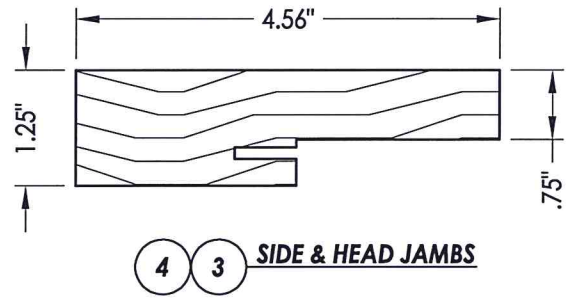
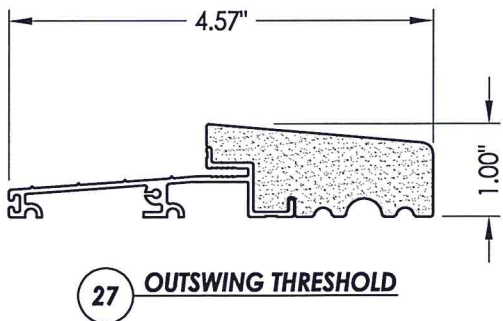
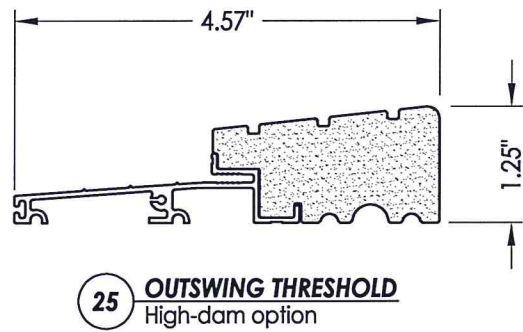
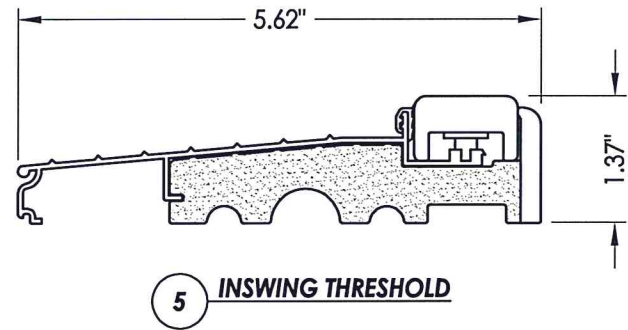
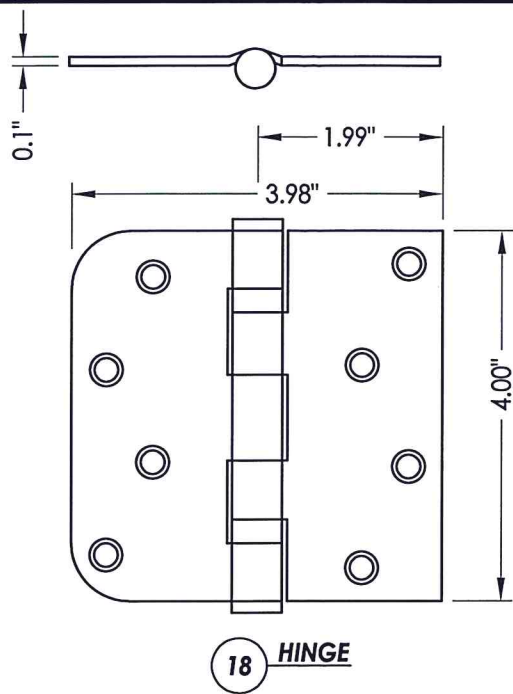
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PRODUCT: TRINITY GLASS INT'L
6 8 PREMIUM OPAQUE

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
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SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-585
SHEET 5 of 8



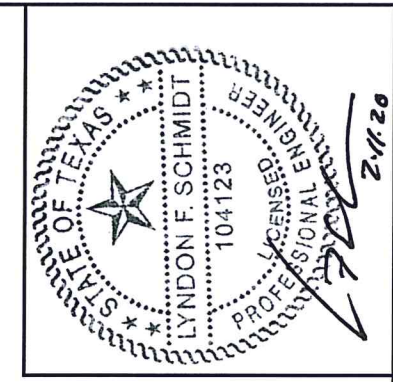
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PRODUCT: TRINITY GLASS INT'L
6 8 PREMIUM OPAQUE
PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
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		EW
		BY

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SHEET 6 OF 8

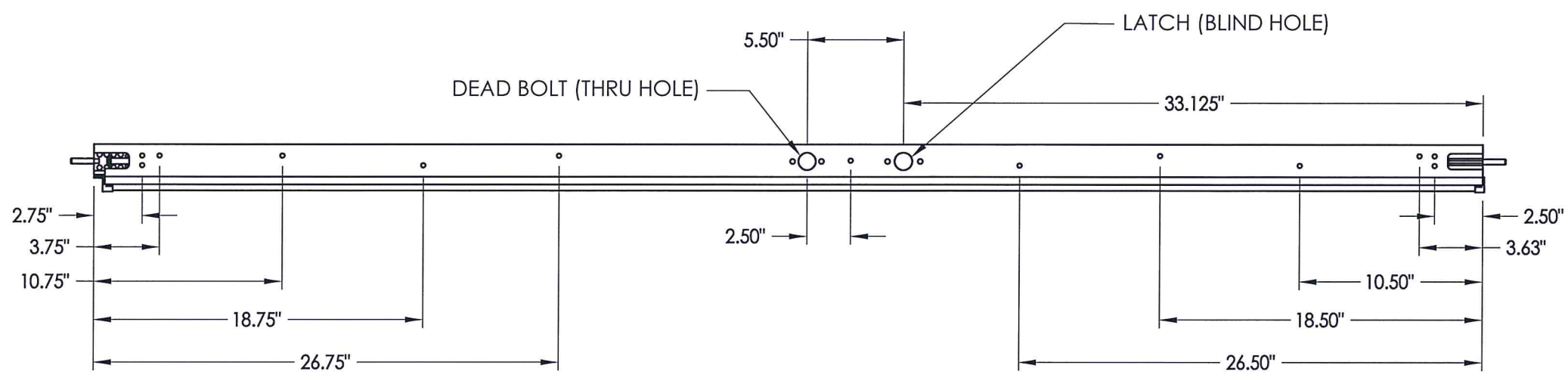


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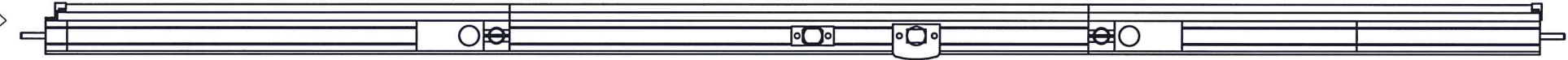
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TOP

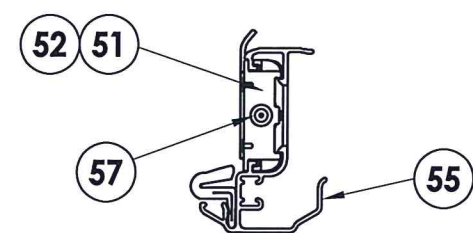


BOTTOM

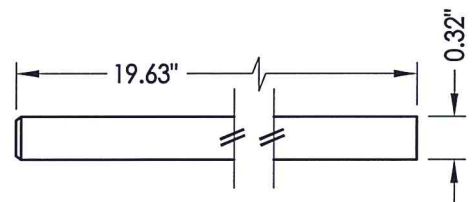
A-A



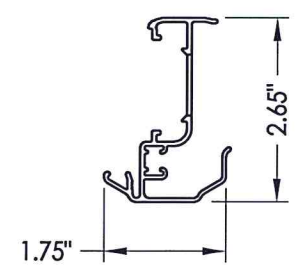
6'8 ALUMINUM ASTRAGAL ASSEMBLY
By Endura Products



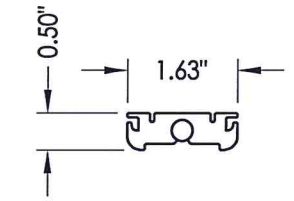
VIEW A-A
Aluminum Astragal Assembly



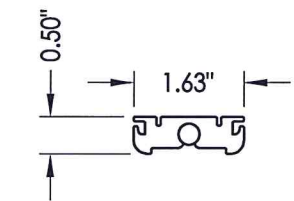
57 SLIDE BOLT ROD
MATL: Steel



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

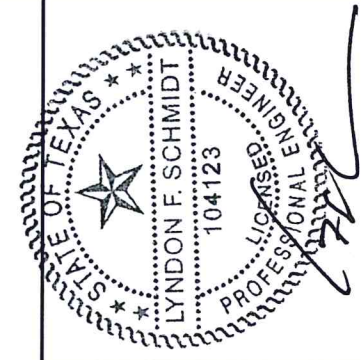
PRODUCT:	TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE
PART OR ASSEMBLY:	ENDURA ASTRAGAL DETAILS

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
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		BY

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DRAWING NO.:	TX-585
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	#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



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PRODUCT: TRINITY GLASS INT'L
 6'8 PREMIUM OPAQUE
 PART OR ASSEMBLY:
 BILL OF MATERIALS

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		EW
		BY

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