

6'0 X 6'8 GLAZED PREMIUM FIBERGLASS DOUBLE DOOR WITH SIDELITES (BOXED) IN SWING / OUT SWING "NON-IMPACT"

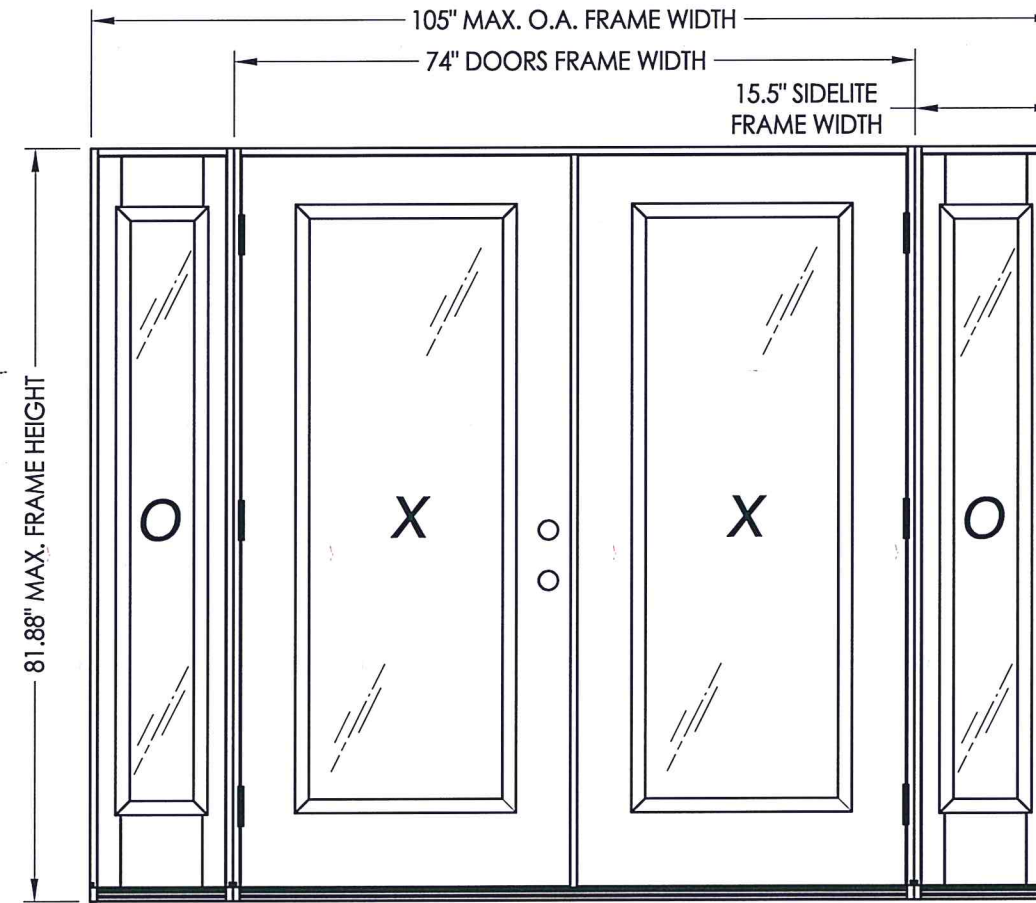
EVALUATED FOR USE IN THE STATE OF TEXAS

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 wind borne debris regions, the opaque door panel has been tested and evaluated as an impact resistant product and does not require the use of an approved impact resistant covering. The sidelite must be protected with an impact resistant covering that complies with Sections R301.2.1.2 and 1609.1.2. This opaque door 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.

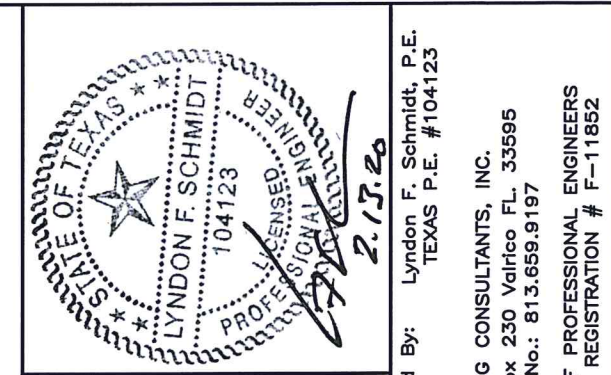
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2	Door panel construction details & glazing details
3	Sidelite panel construction details & glazing details
4	Horizontal cross sections
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6	Vertical cross sections
7	Frame anchoring
8	Components
9	Endura astragal details
10	Bill of materials



DOUBLE with BOXED SIDELITES

ASTRAGAL TYPE	SWING	MAX. FRAME DIMENSION	DESIGN PRESSURE PSF)	
			POSITIVE	NEGATIVE
ENDURA	IN SWING	105.0" x 81.88"	+45.0	-50.0
	OUT SWING	105.0" x 80.75"	+45.0	-45.0



Documents Prepared By: Lyndon F. Schmidt, P.E.
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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

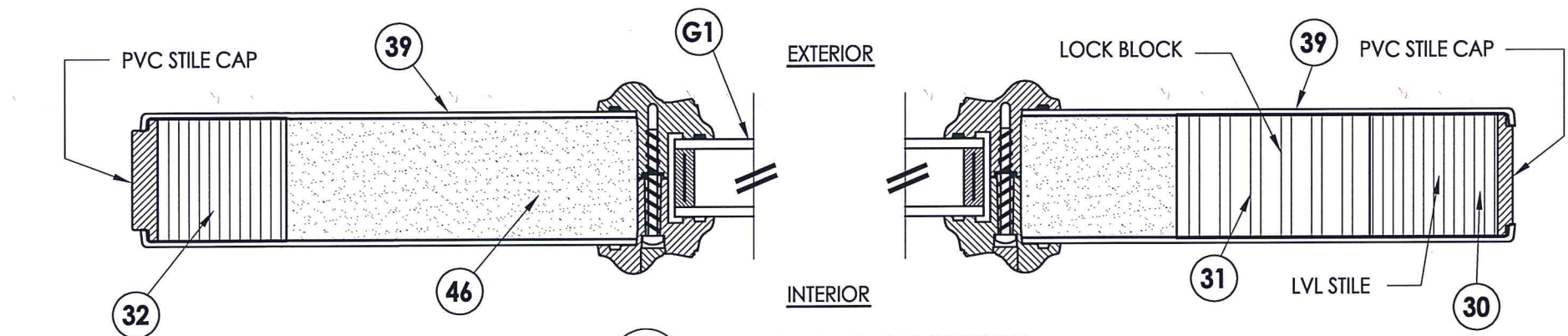
PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

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

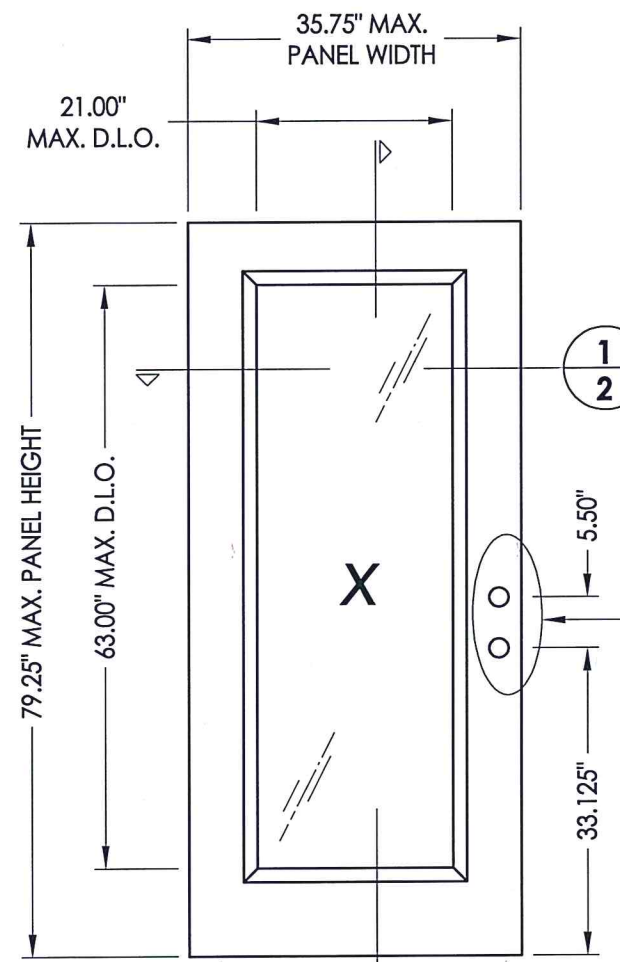
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3	2/12/20	LFS	UPDATE TO 2018 IBC/IRC
2	7/23/09	AL	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	EW	REVISED LOCKSET NOMENCLATURE

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-595
SHEET 1 OF 10

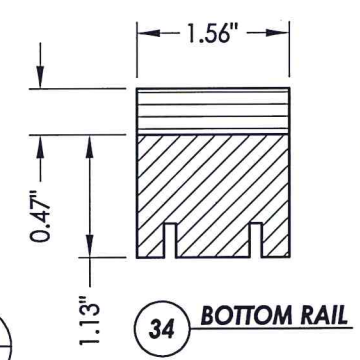
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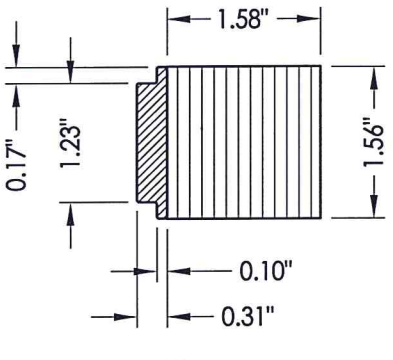
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2 HORIZONTAL CROSS SECTION



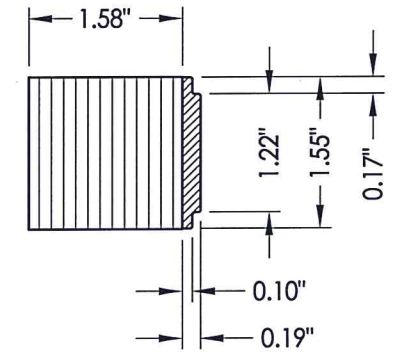
7 PREMIUM LIPLITE FIBERGLASS DOOR



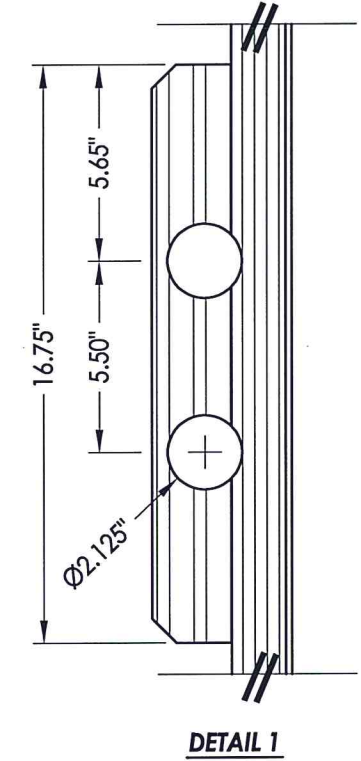
34 BOTTOM RAIL



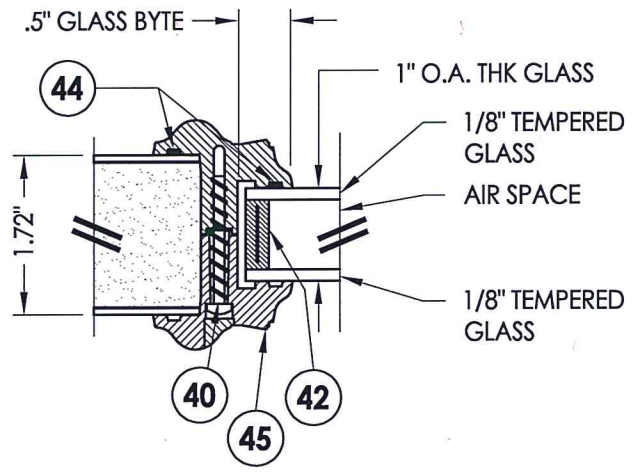
32 HINGE STILE



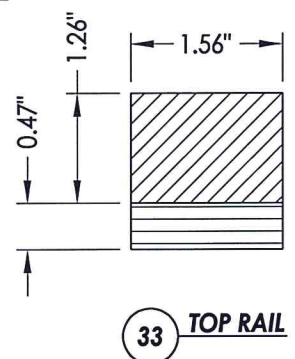
30 LATCH STILE



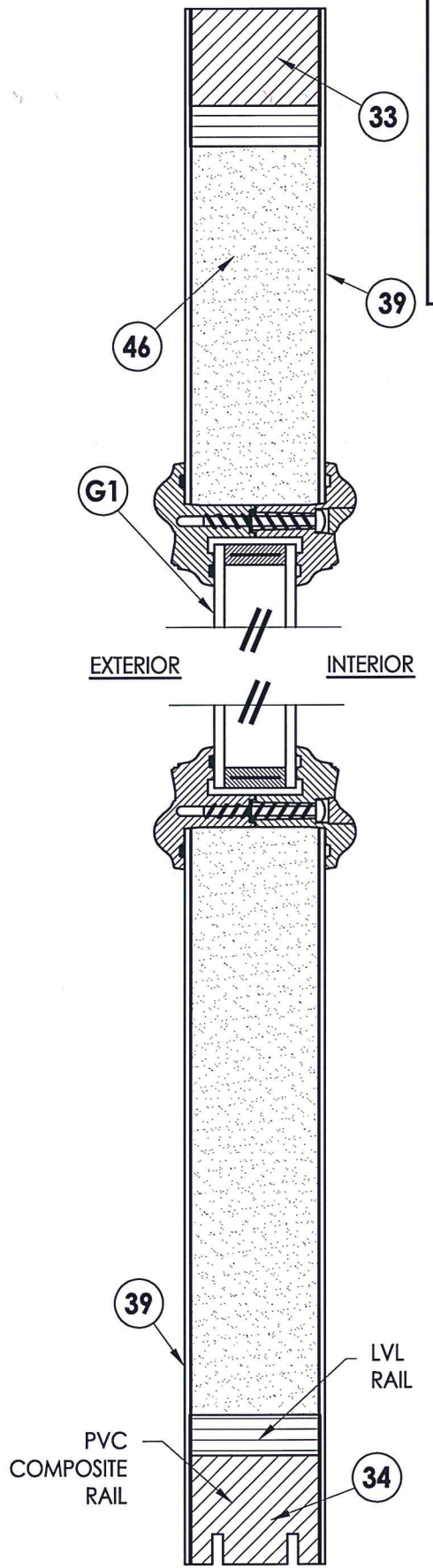
DETAIL 1



G1 GLAZING DETAIL



33 TOP RAIL



2
2 VERTICAL CROSS SECTION



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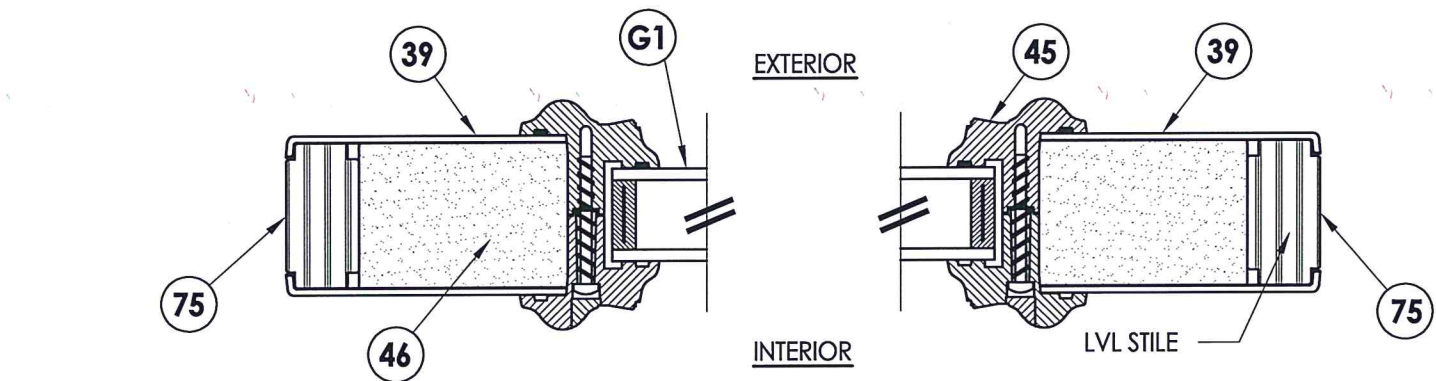
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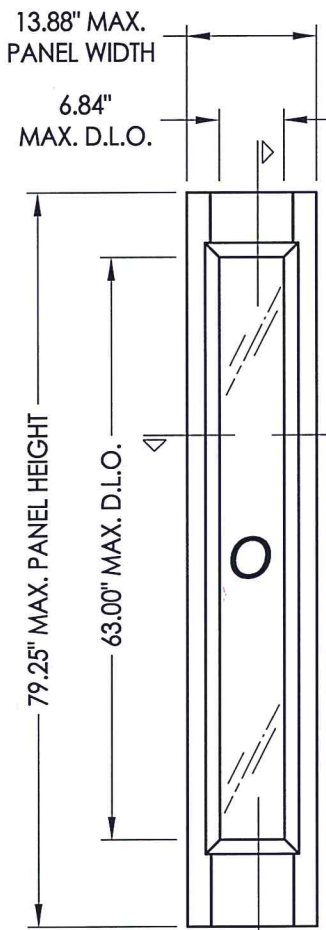
PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

NO.	DATE	REVISIONS
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		EW BY
		LFS BY

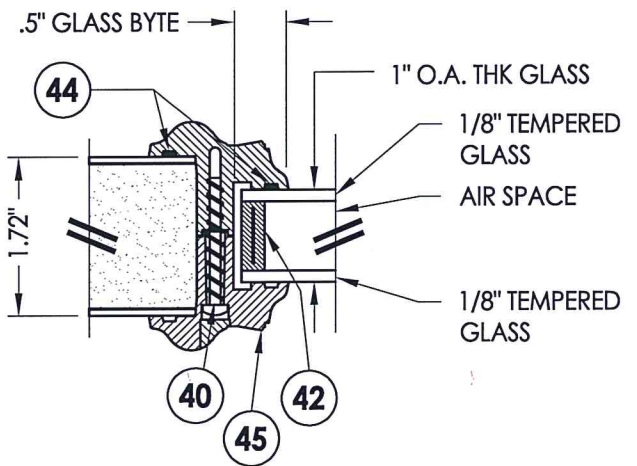
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SHEET 2 OF 10



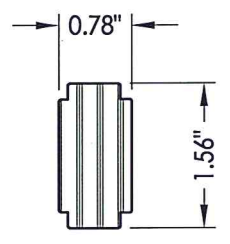
1
3 HORIZONTAL CROSS SECTION



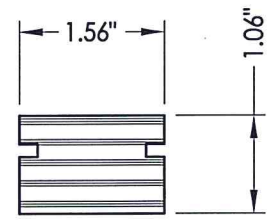
66 PREMIUM LIPLITE FIBERGLASS SIDELITE



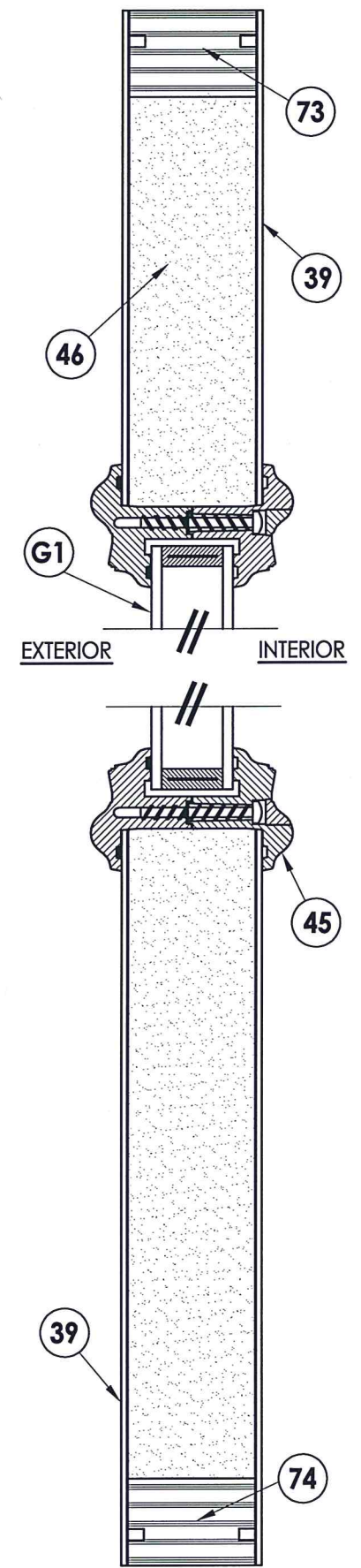
G1 GLAZING DETAIL



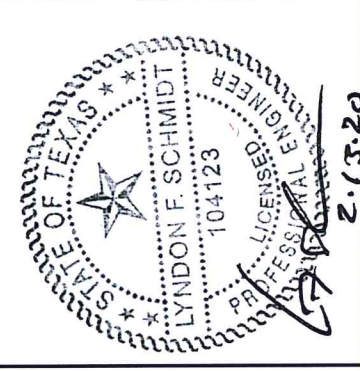
75 SIDELITE STILE



74 **73** TOP & BOTTOM RAIL SIDELITE



2
3 VERTICAL CROSS SECTION



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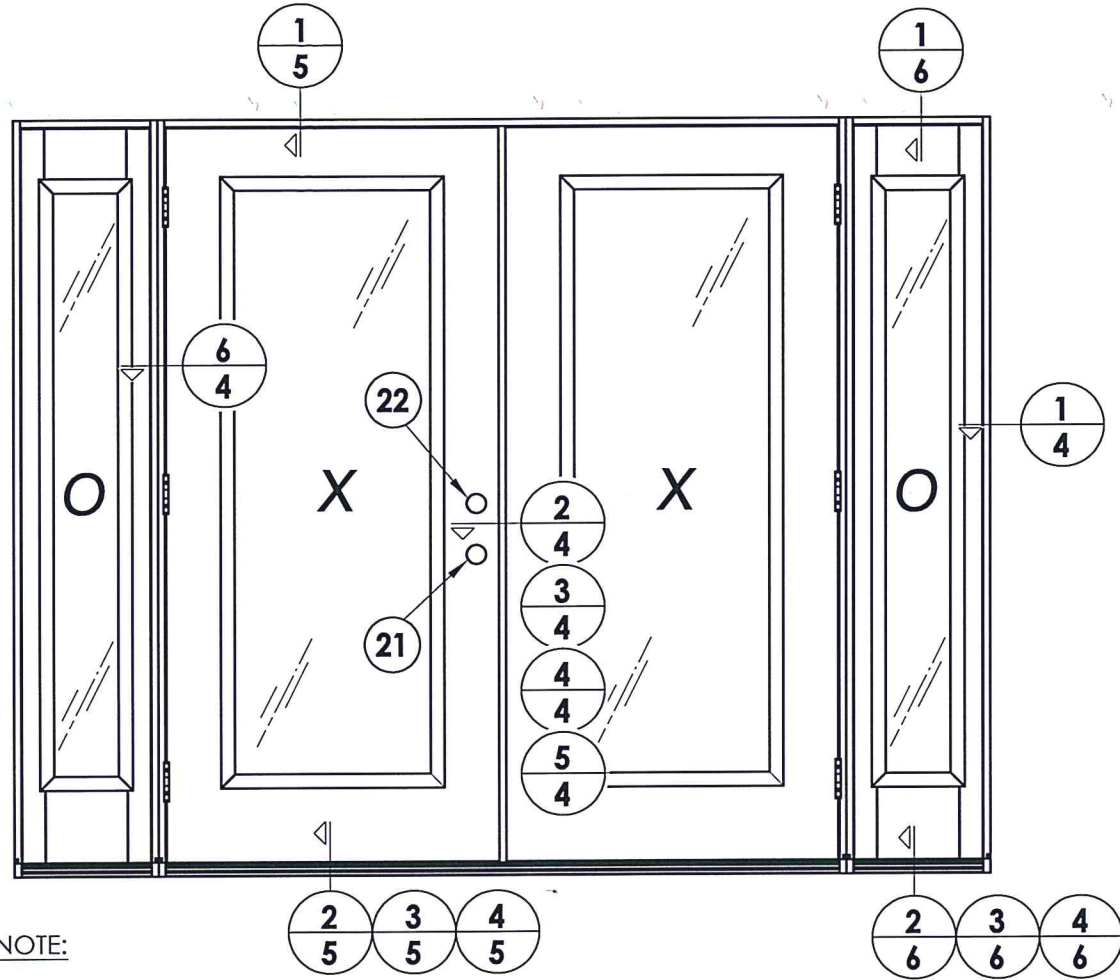
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PART OR ASSEMBLY: SIDELITE PANEL CONSTRUCTION DETAILS AND GLAZING DETAILS

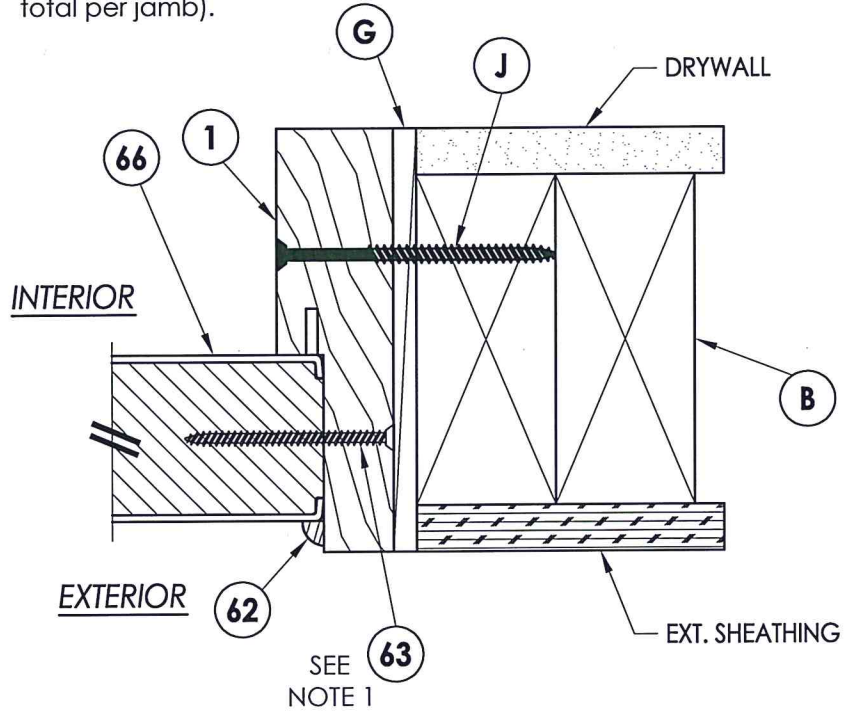
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SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-595
SHEET 3 OF 10

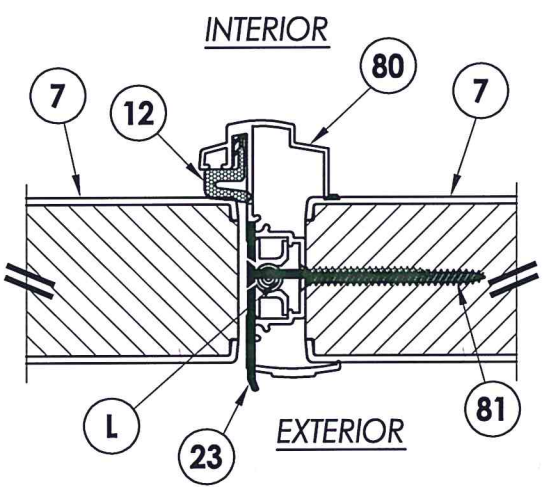
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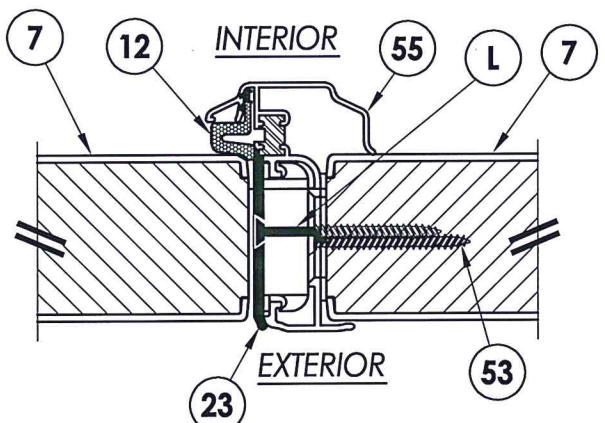
NOTE:
 1. Sidelite ass'y fastener: 6" from each end and 4 more screws equally spaced between (6 screws total per jamb).



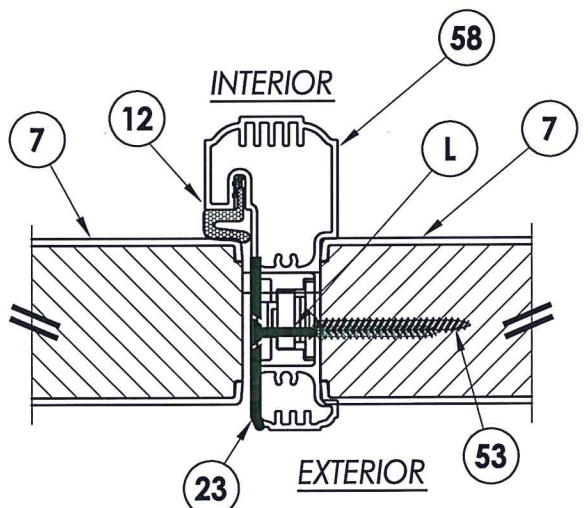
1 HORIZONTAL CROSS SECTION
4 Outswing shown
 Inswing also approved



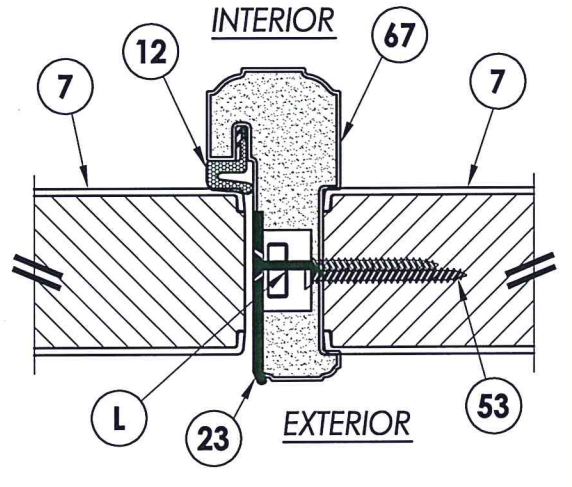
5 HORIZONTAL CROSS SECTION
4 Columbia astragal



2 HORIZONTAL CROSS SECTION
4 Endura astragal



3 HORIZONTAL CROSS SECTION
4 TRC astragal



4 HORIZONTAL CROSS SECTION
4 PVC astragal

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



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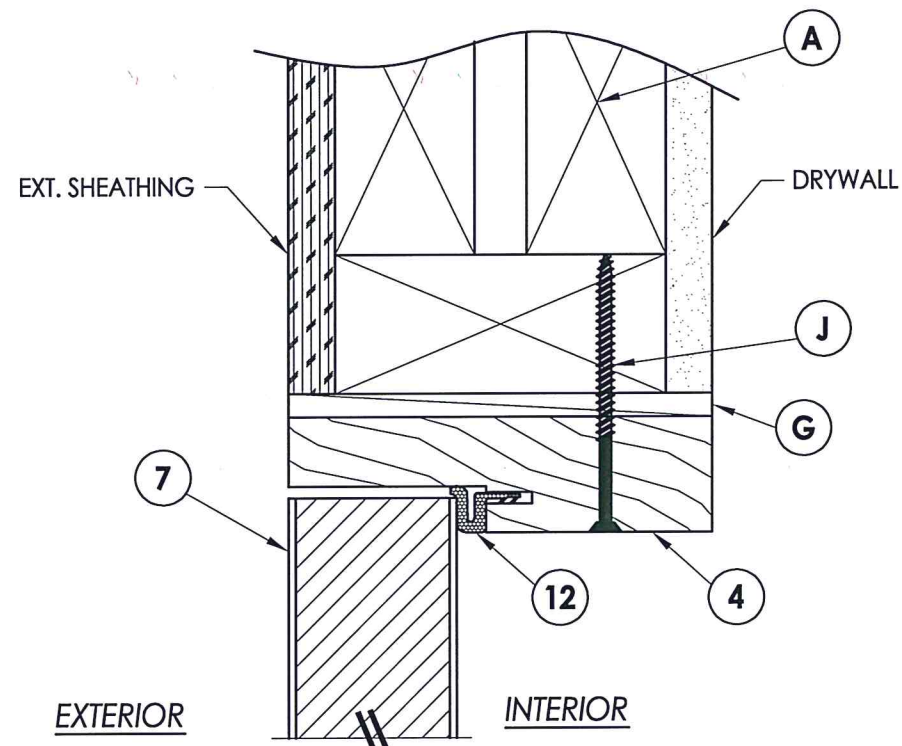
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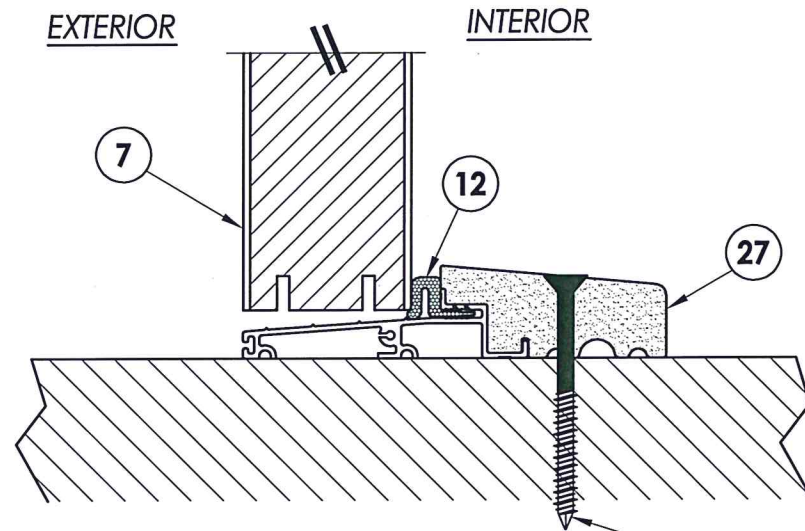
PART OR ASSEMBLY:
 HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

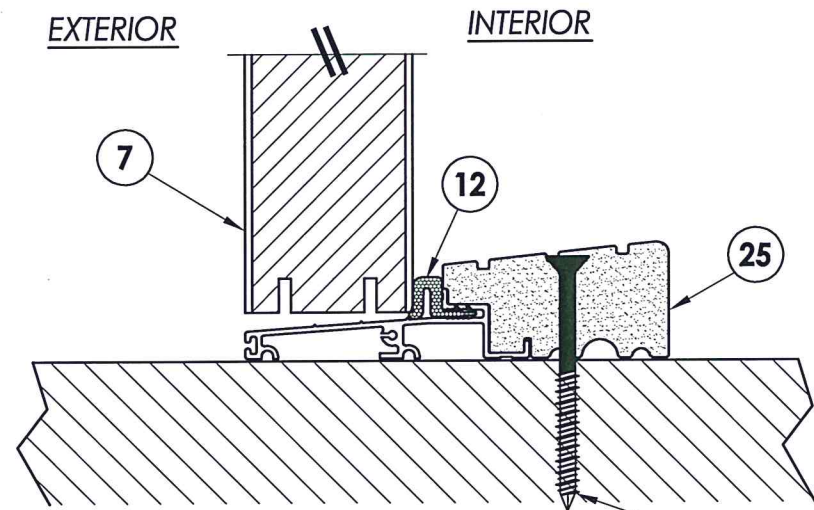
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 SCALE: N.T.S.
 DWG. BY: EW
 CHK. BY: LFS
 DRAWING NO.: TX-595
 SHEET 4 OF 10



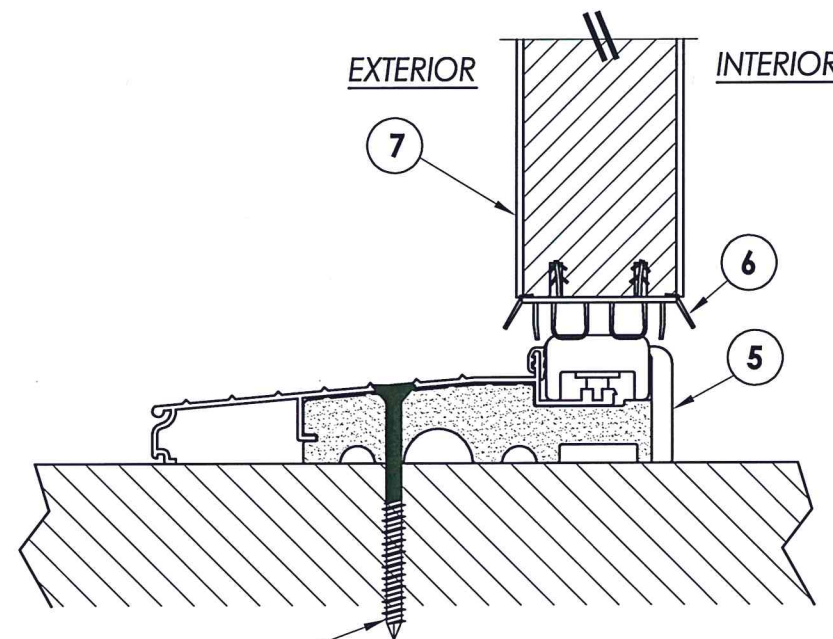
1 VERTICAL CROSS SECTION
5 Outswing shown
 Inswing also approved



2 VERTICAL CROSS SECTION
5 Outswing configuration



3 VERTICAL CROSS SECTION
5 Outswing configuration



4 VERTICAL CROSS SECTION
5 Inswing configuration



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 TRINITY GLASS INT'L
 PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
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2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		BY
		EW
		AL
		LFS

DATE: 8/26/05

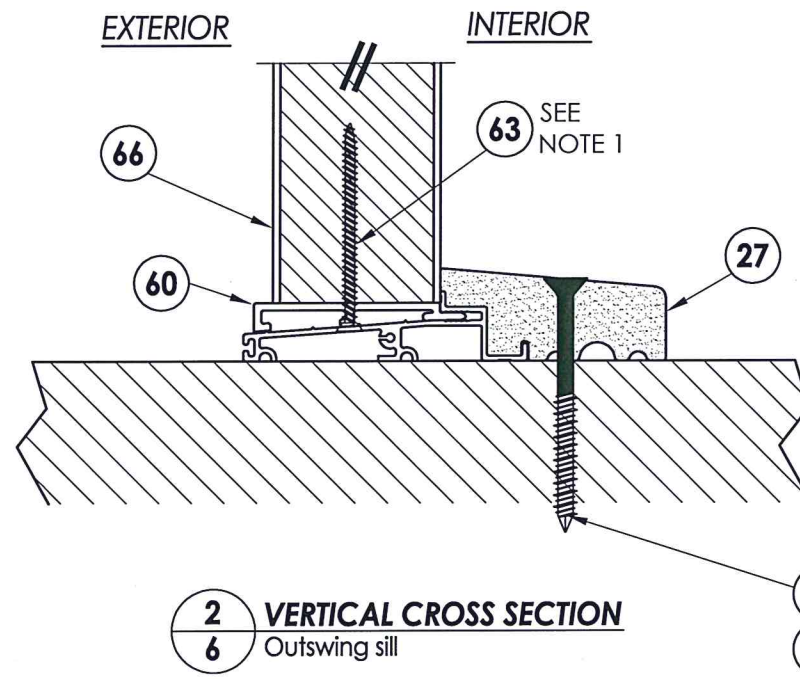
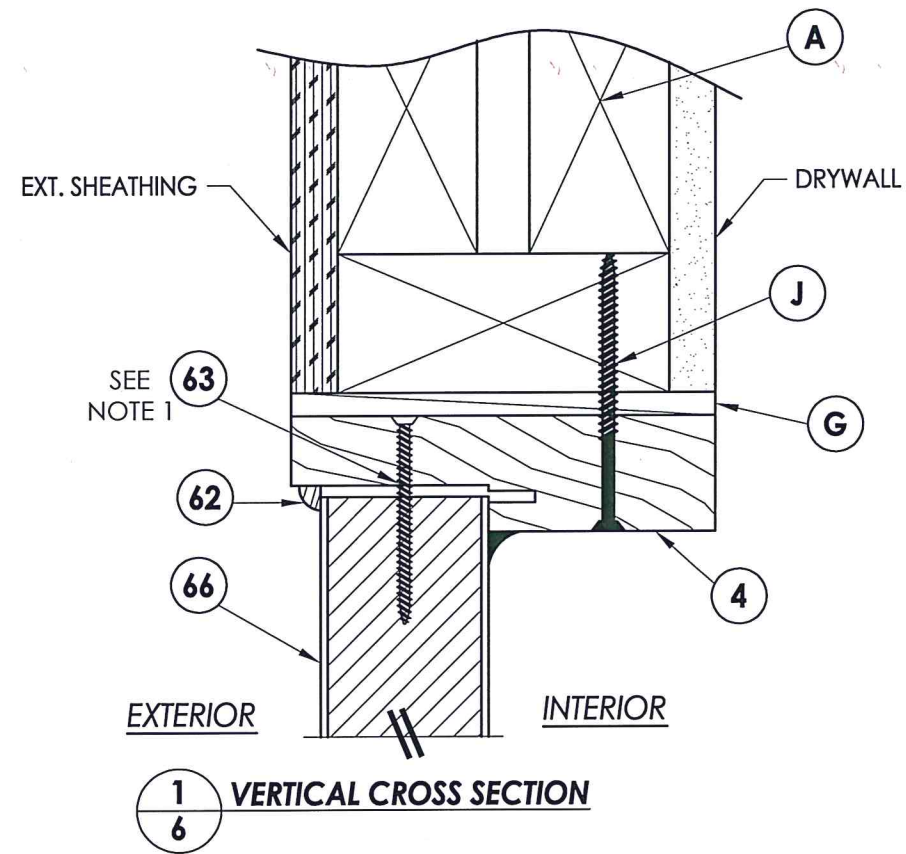
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DWG. BY: EW

CHK. BY: LFS

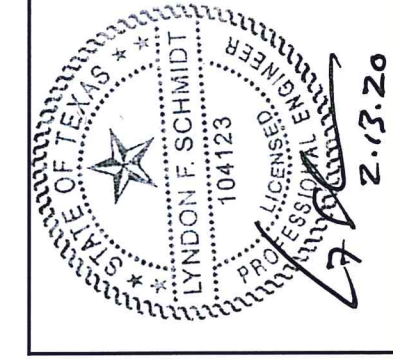
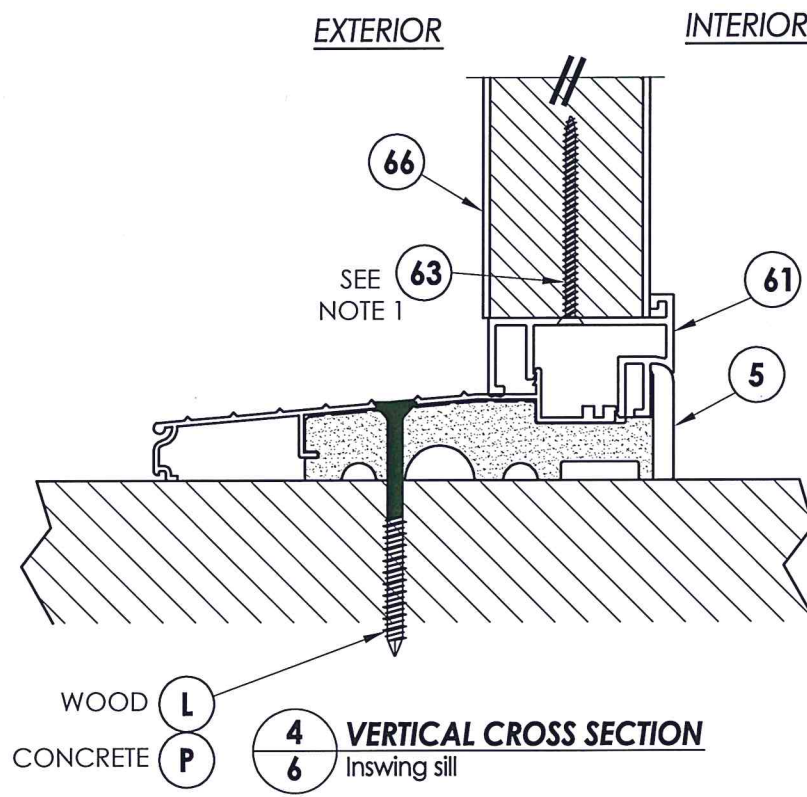
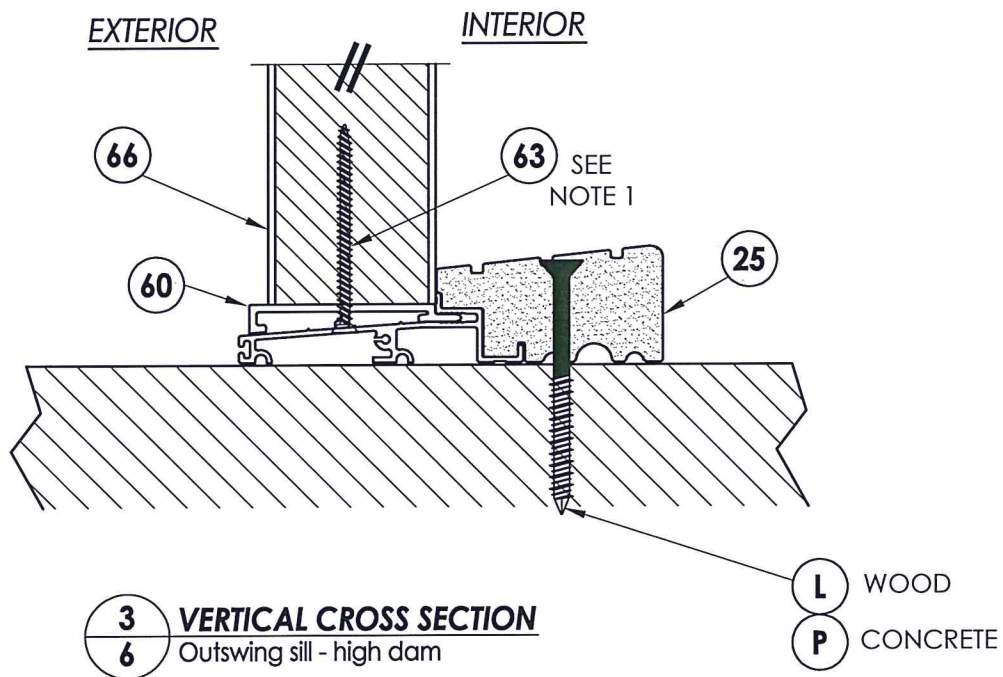
DRAWING NO.: TX-595

SHEET 5 of 10



NOTE:

- Screws thru head and sill jamb located 3" from each end and on center line.

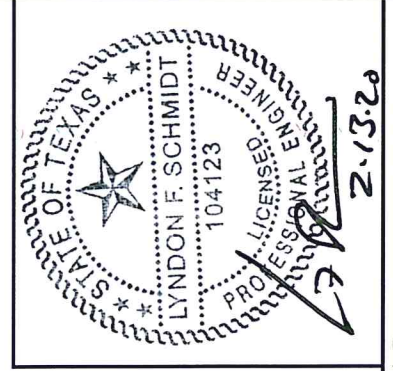
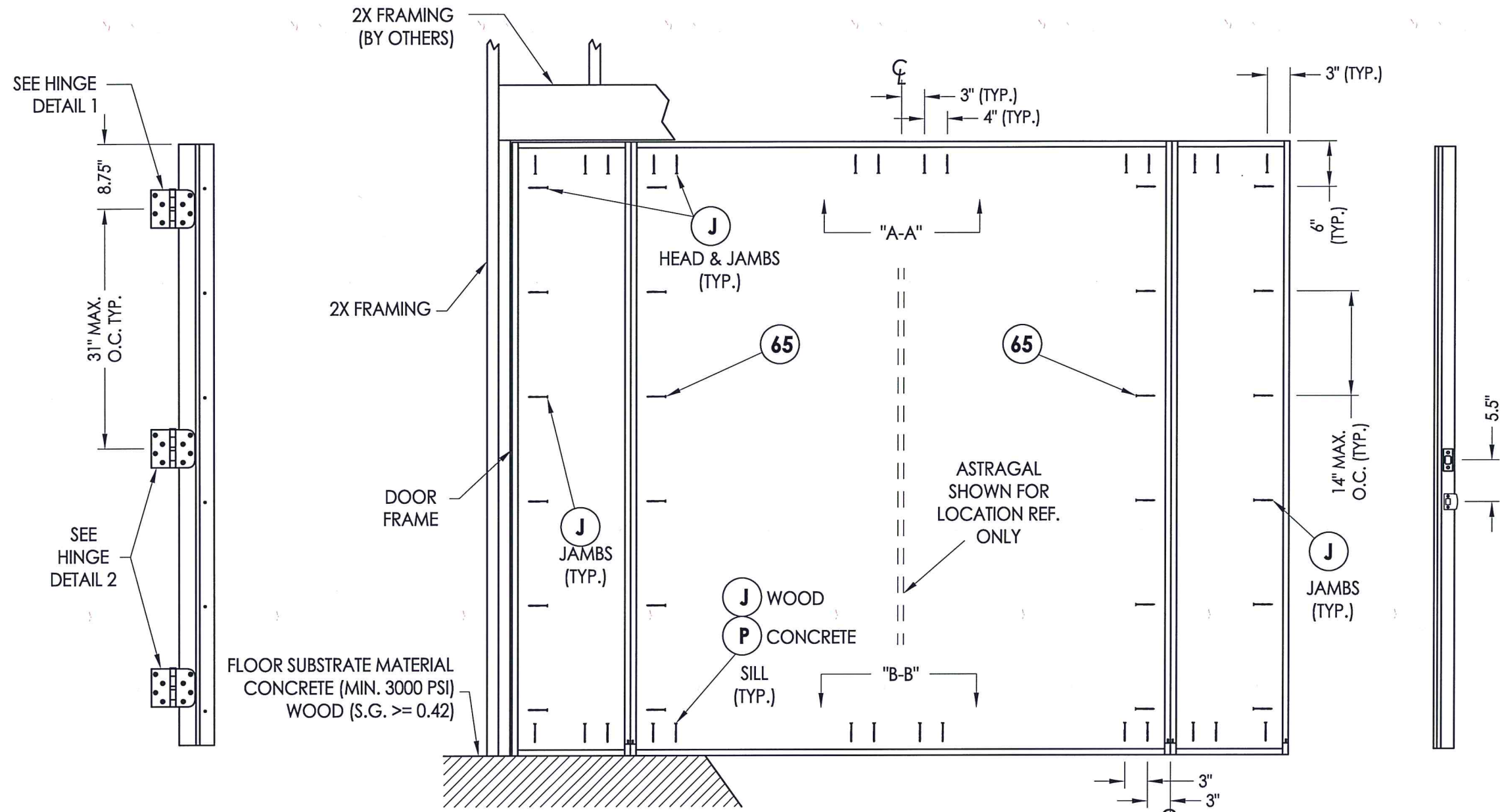


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PRODUCT:	TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS		
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS		
DATE:	8/26/05		
SCALE:	N.T.S.		
DWG. BY:	EW		
CHK. BY:	LFS		
DRAWING NO.:	TX-595		
SHEET	6 of 10		
NO.	DATE	BY	
3	2/12/20	UPDATE TO 2018 IBC/IRC	LFS
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW
REVISIONS			



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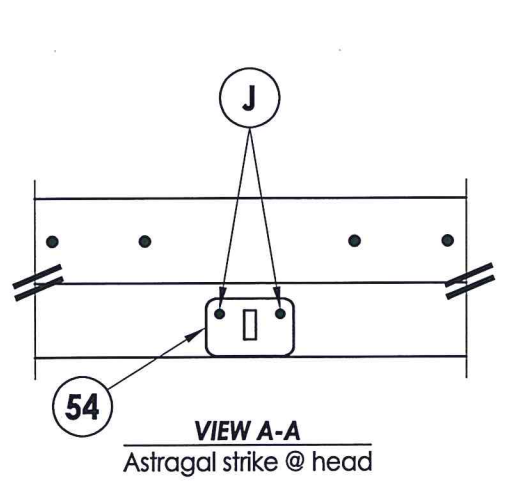
PRODUCT:
TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
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1	6/28/06	REVISED LOCKSET NOMENCLATURE

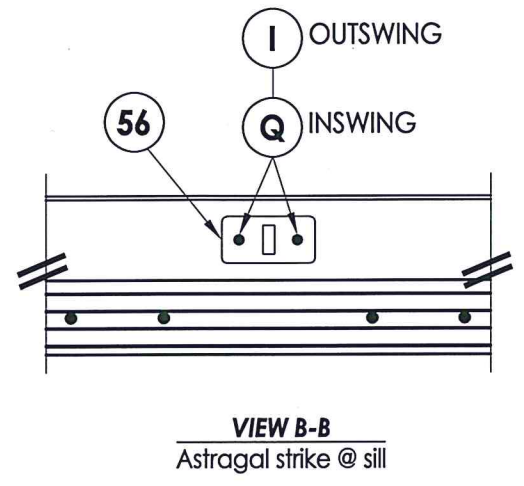
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DRAWING NO.: TX-595
SHEET 7 of 10

HINGE JAMB



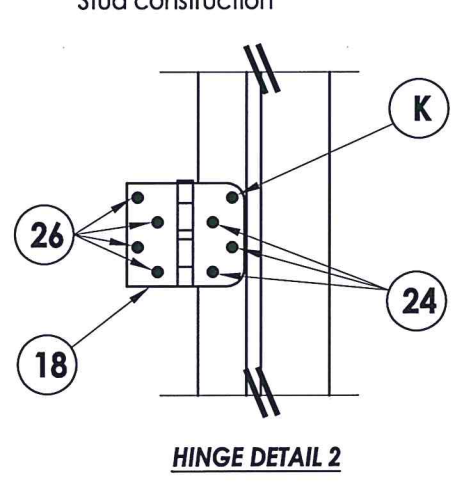
VIEW A-A
Astragal strike @ head

FRAME ANCHORING
Stud construction



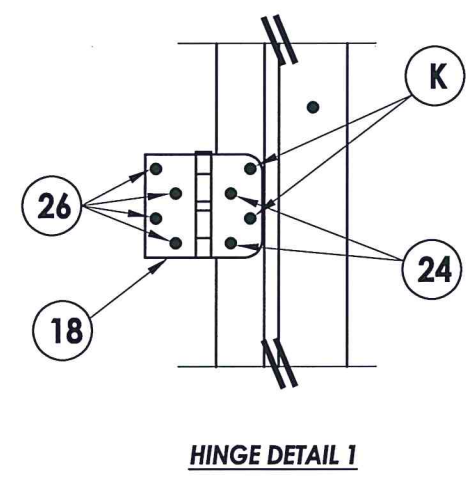
VIEW B-B
Astragal strike @ sill

HINGE DETAIL 2

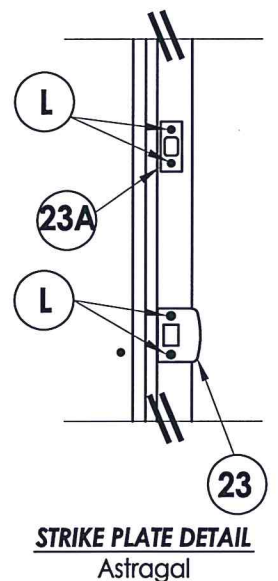


HINGE DETAIL 2

ASTRAGAL STRIKE

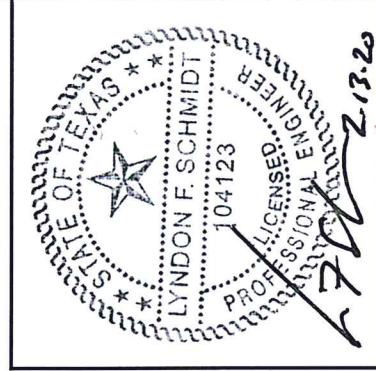
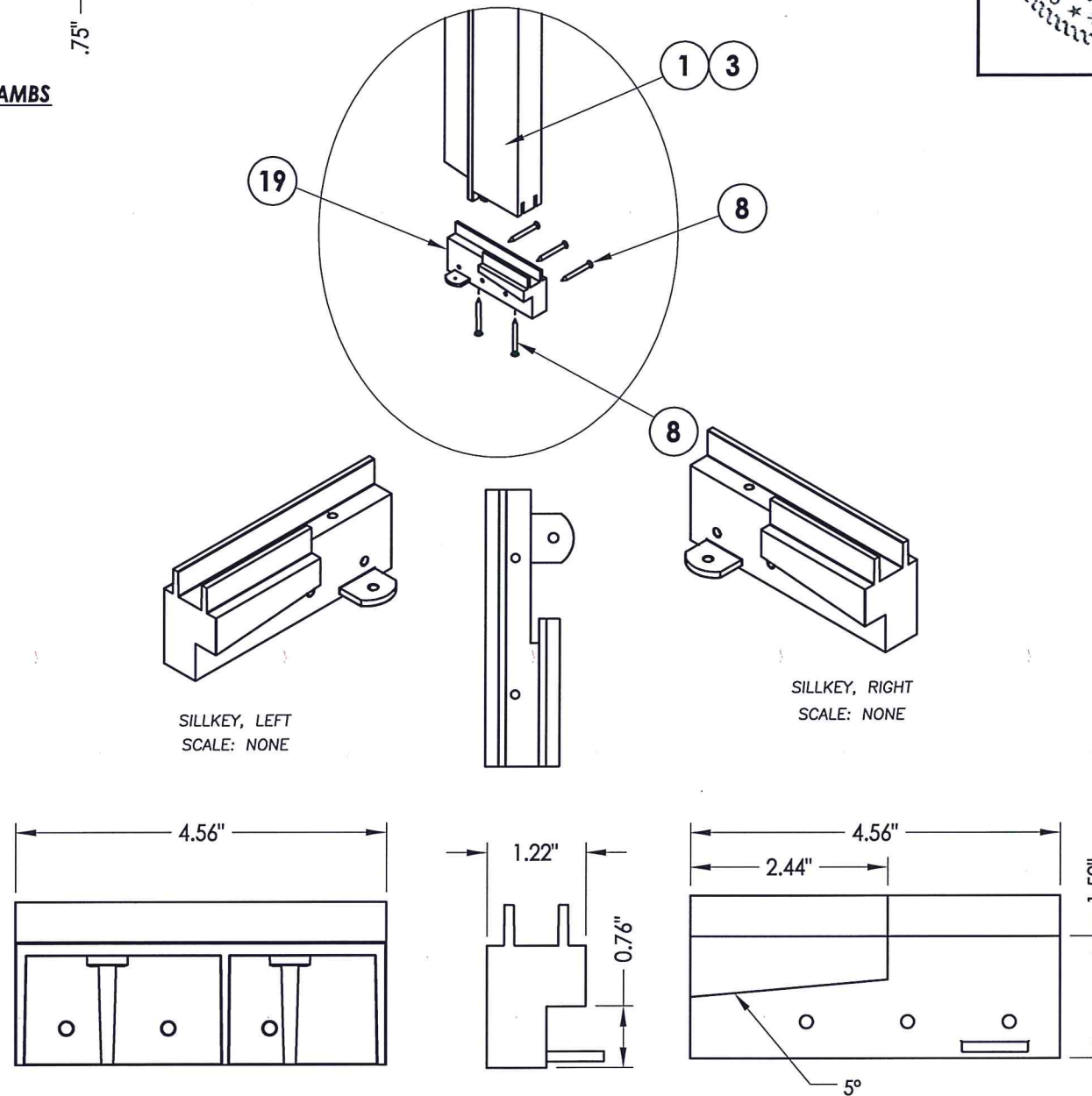
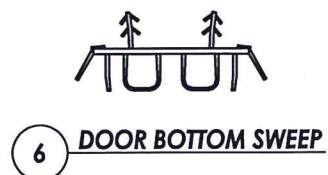
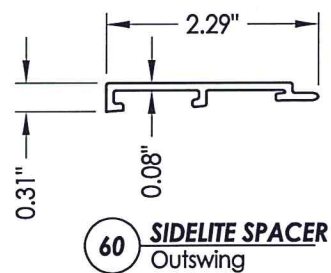
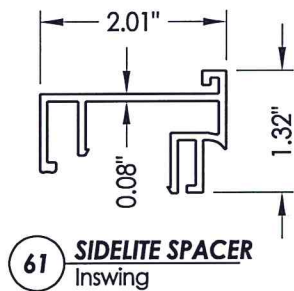
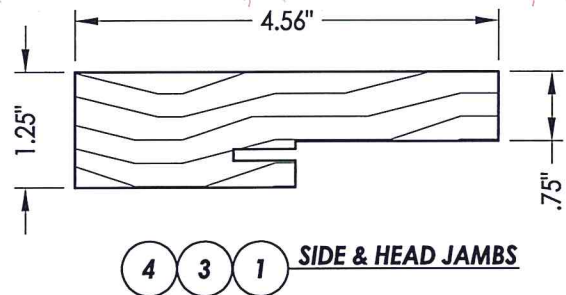
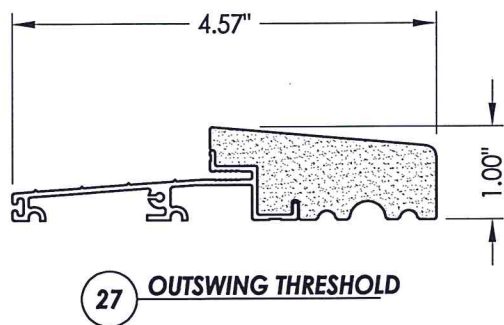
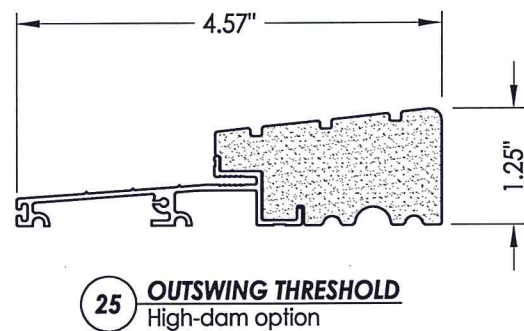
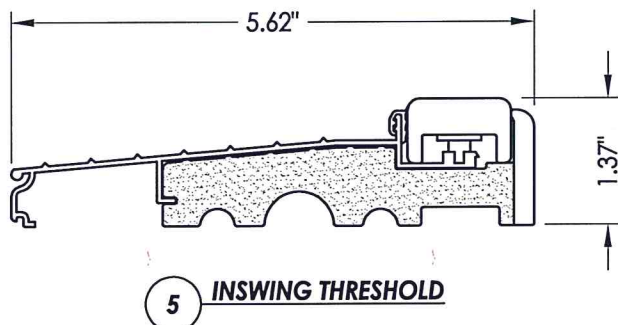
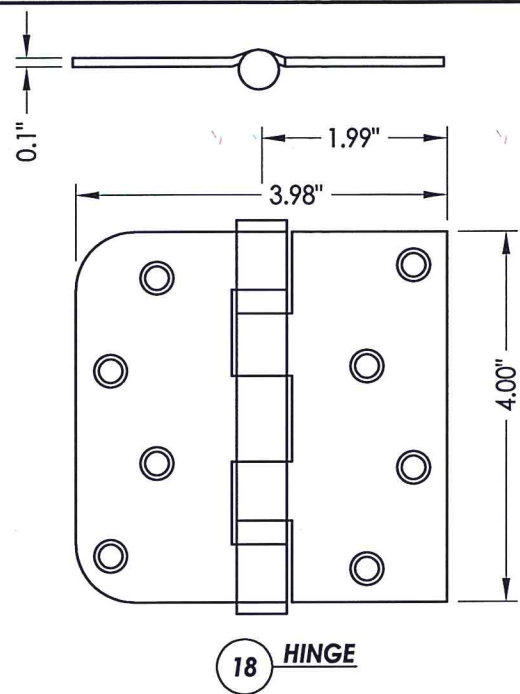


HINGE DETAIL 1



STRIKE PLATE DETAIL
Astragal

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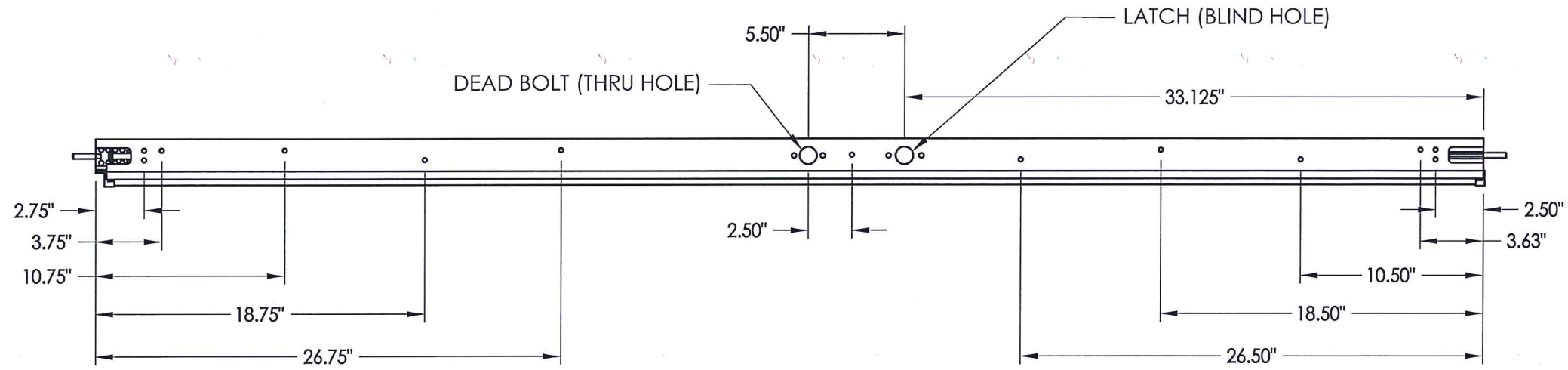
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PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY: COMPONENTS

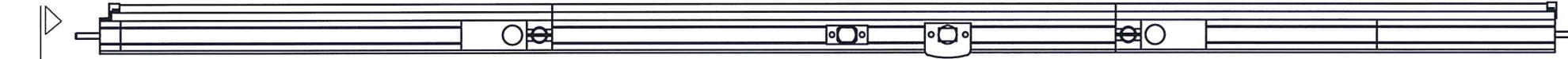
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SHEET 8 OF 10



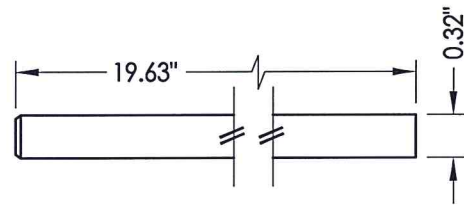
TOP

BOTTOM

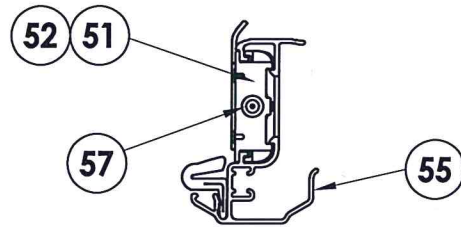


6'8 ALUMINUM ASTRAGAL ASSEMBLY
By Endura Products

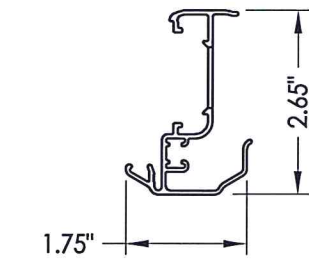
A-A



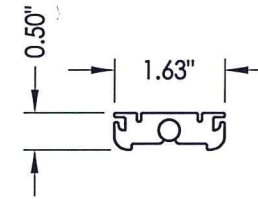
57 SLIDE BOLT ROD
MATL: Steel



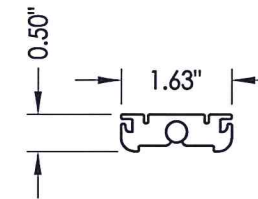
VIEW A-A
Aluminum Astragal Assembly



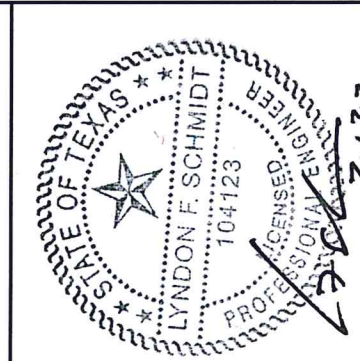
55 ALUMINUM ASTRAGAL
By Endura Products



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



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



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

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

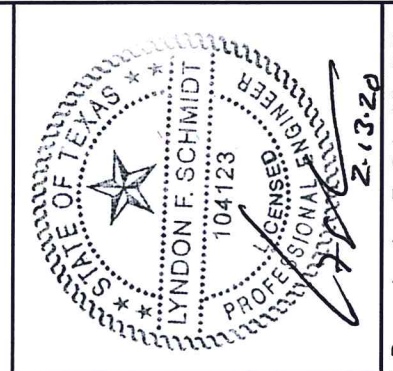
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
ENDURA ASTRAGAL DETAILS

NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		BY

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-595
SHEET 9 OF 10



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

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	2X HEADER FRAMING SG >= 0.42	WOOD	40	#8 X 1-1/8" SELF THREADING SCREW	STEEL
B	2X FRAMING SG >= 0.42	WOOD	42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
G	MAX. 1/4" SHIM SPACE	WOOD	44	HOT MELT SEALANT / SILICONE	-
I	3/16" X 2-1/4" ITW PFH CONCRETE SCREW	STEEL	45	LITE FRAME	PC/ASA
J	#10 X 3" PFH WS	STEEL	46	FOAM CORE	POLYURETHANE
K	#9 X 2" PFH WS	STEEL	51	4-3/4" LENGTH TOP BOLT RETAINER	HDPE
L	#8 X 2-1/2" PFH WS	STEEL	52	9-3/4" LENGTH TOP BOLT RETAINER	ALUMINUM
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL	53	#8 X 1-3/4" FPH SMS	STEEL
Q	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	54	ASTRAGAL STRIKE @ HEAD	STEEL
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	55	ASTRAGAL BY ENDURA PRODUCT	ALUMINUM
3	HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	56	ASTRAGAL STRIKE @ SILL	STEEL
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD	57	SLIDE BOLT ROD	STEEL
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUMINUM	60	SIDELITE SPACER - OUTSWING	PVC
6	DOOR BOTTOM SWEEP	PVC	61	SIDELITE SPACER - INSWING	PVC
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-	62	QUARTER ROUND	WOOD
8	#6 X 1-1/4" PFH DRYWALL SCREW	STEEL	63	#8 X 2-1/4" PFH SCREW	STEEL
12	WEATHER STRIP QEBD650 Q-LON	-	65	#10 X 2" PFH SCREW	STEEL
18	3.983" X 4.0" HINGE MIN 0.098" THICK	STEEL	66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
19	SILLKEY	PC/ASA	73	LVL SIDELITE TOP RAIL (FULL LITE)	POPLAR
21	LOCK (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL	74	LVL SIDELITE BOTTOM RAIL (FULL LITE)	POPLAR
22	DEADBOLT (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL	75	LVL SIDELITE STILE (FULL LITE)	POPLAR
23	STRIKE PLATE	STEEL			
23A	DEADBOLT PLATE	STEEL			
24	#9 X 5/8" PFH SCREW	STEEL			
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.			
26	#9 X 1" PFH SCREW	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.)	FIBERGLASS			

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.

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY: BILL OF MATERIALS

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