



TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

3'0 X 6'8
GLAZED PREMIUM FIBERGLASS
SINGLE DOOR WITH SIDELITES (CHS)
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.

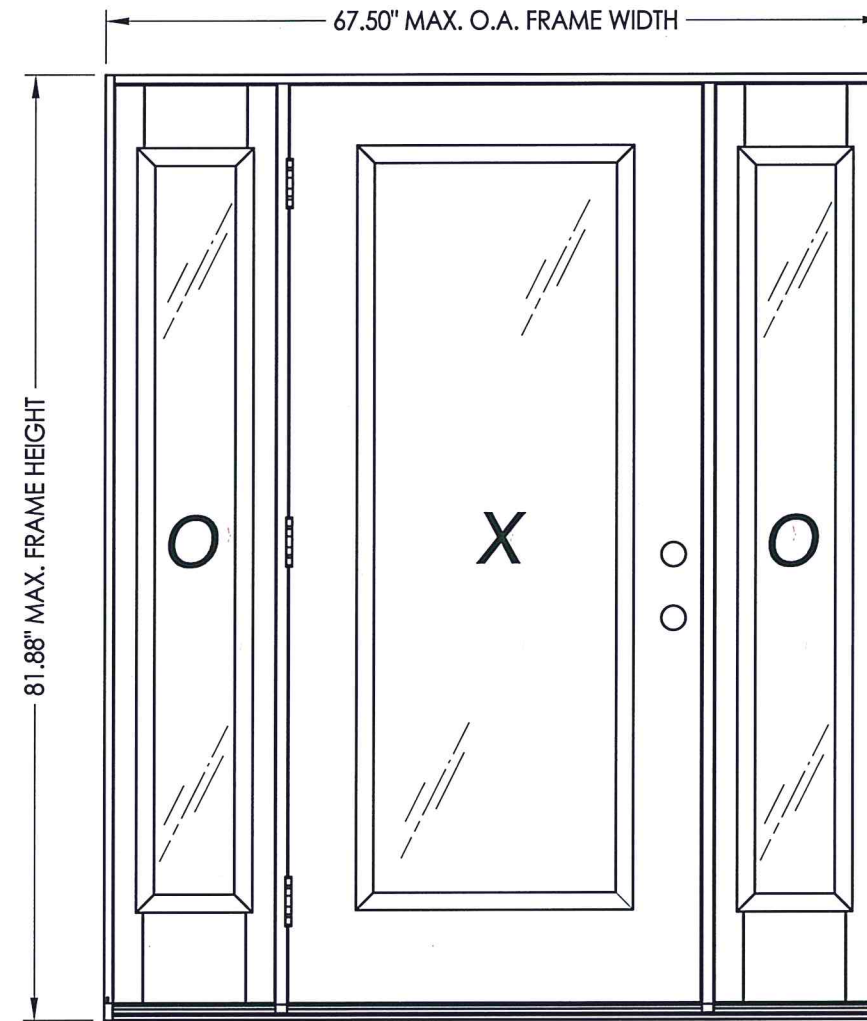
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6	Vertical cross sections
7	Frame anchoring
8	Components
9	Bill of materials

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

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

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CERTIFICATE OF REGISTRATION # F-11852



CONTINUOUS HEADER AND SILL

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
IN SWING	67.50" x 81.88"	G1	+55.0	-55.0
OUT SWING	67.50" x 80.75"		+55.0	-55.0

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

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

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

DATE: 8/26/05

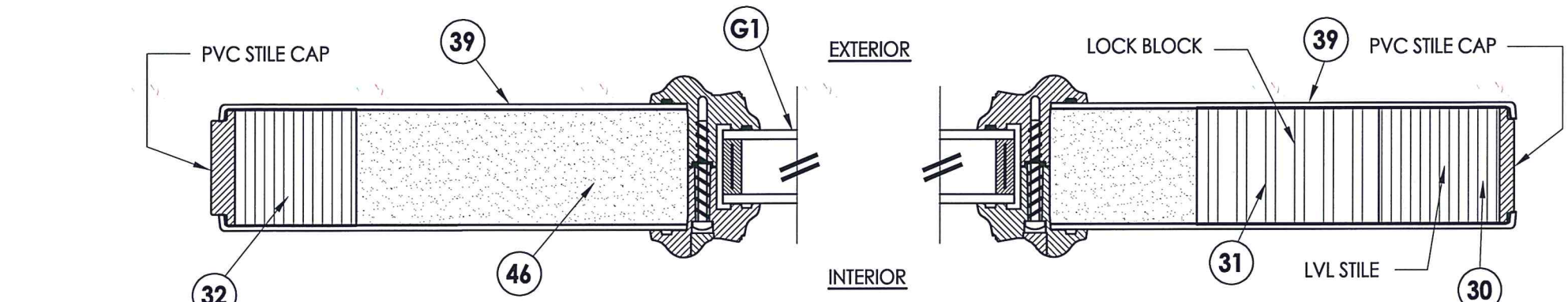
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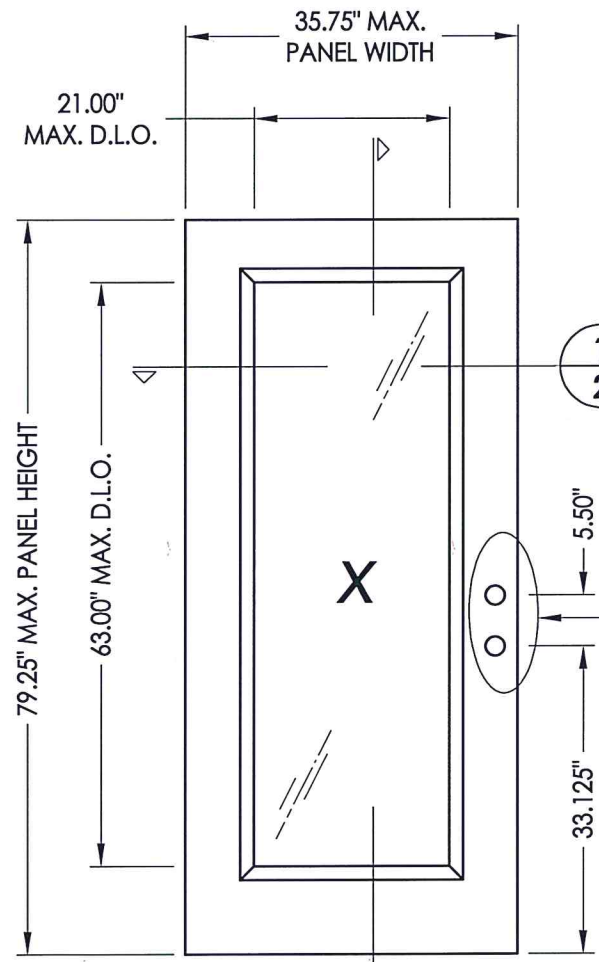
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DRAWING NO.: TX-596

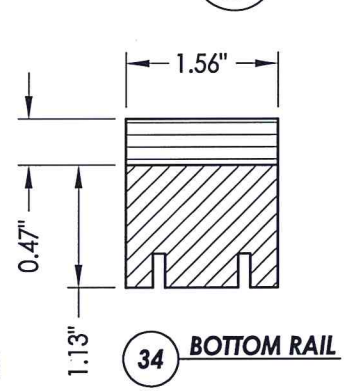
SHEET 1 OF 9



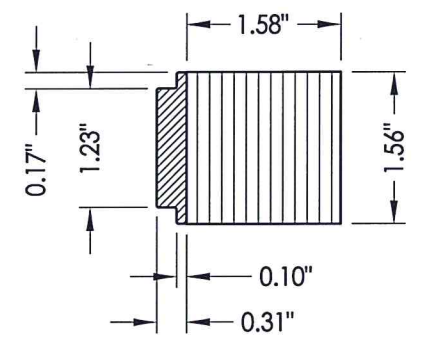
1 HORIZONTAL CROSS SECTION



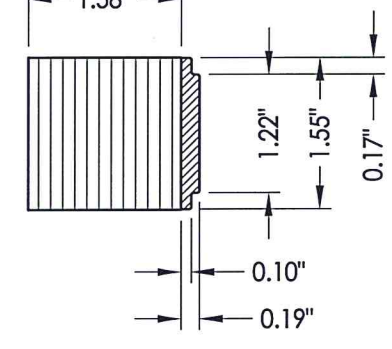
7 PREMIUM LIPLITE FIBERGLASS DOOR



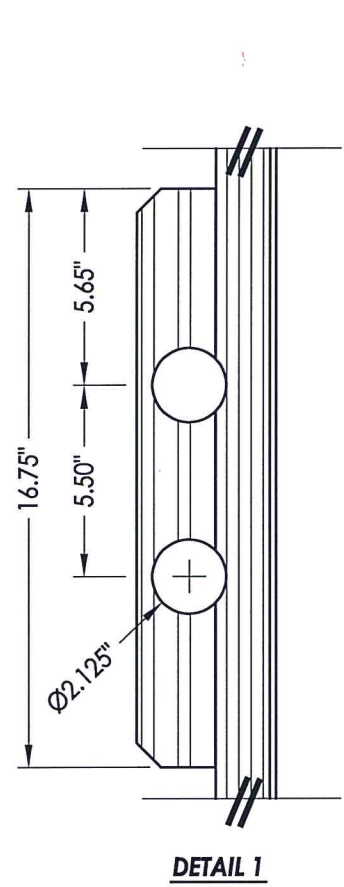
34 BOTTOM RAIL



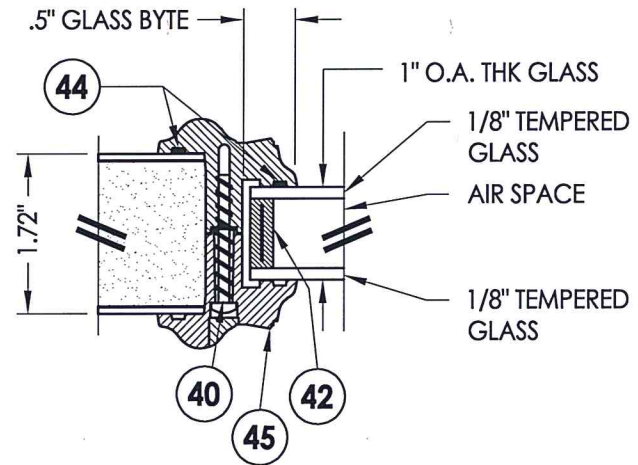
32 HINGE STILE



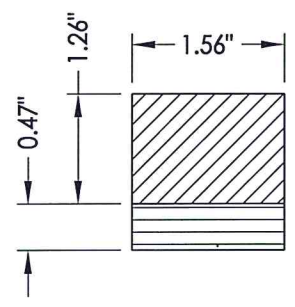
30 LATCH STILE



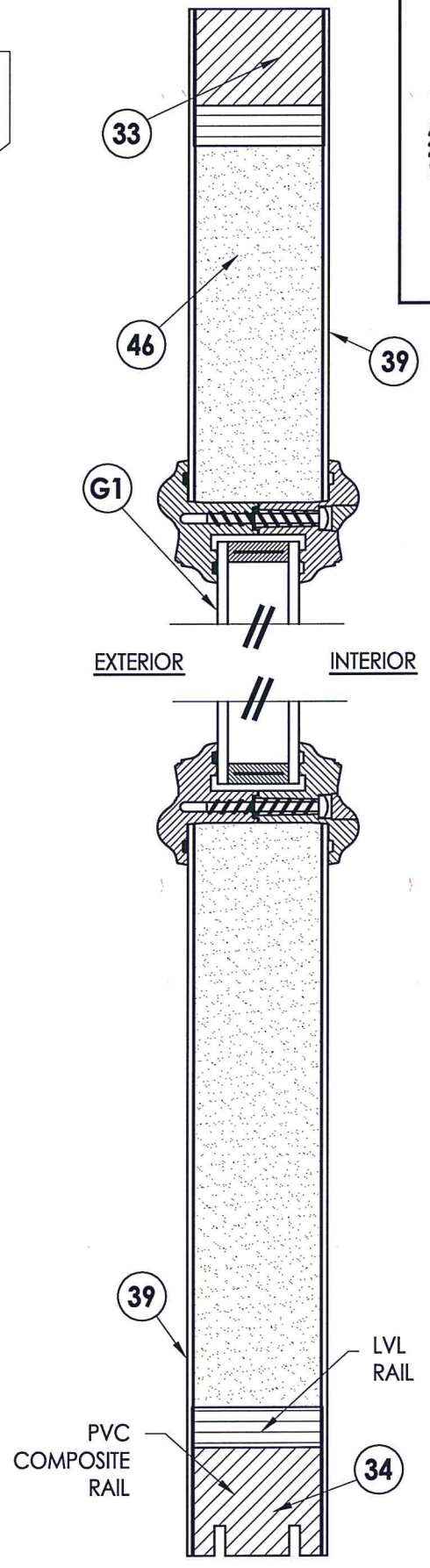
DETAIL 1



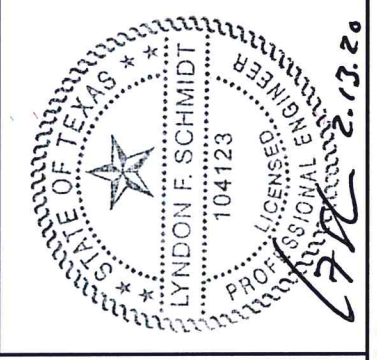
G1 GLAZING DETAIL



33 TOP RAIL



2 VERTICAL CROSS SECTION



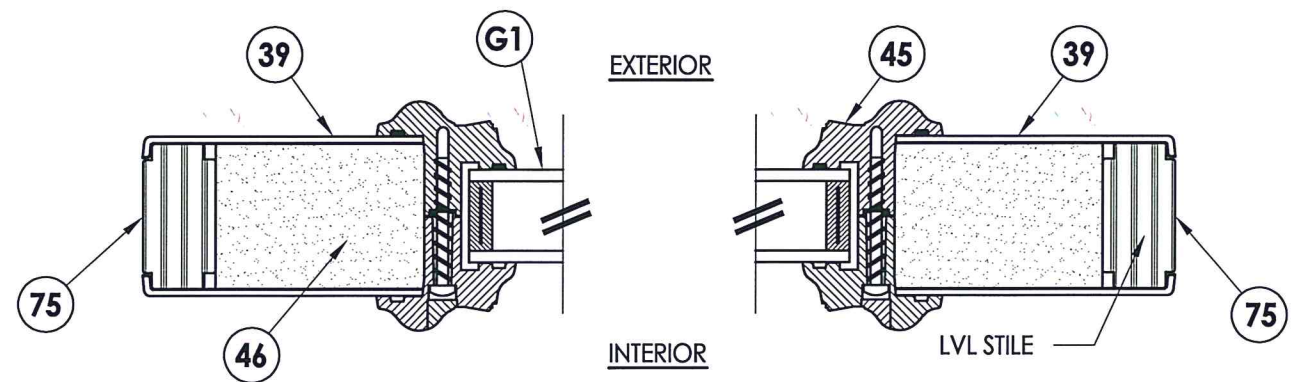
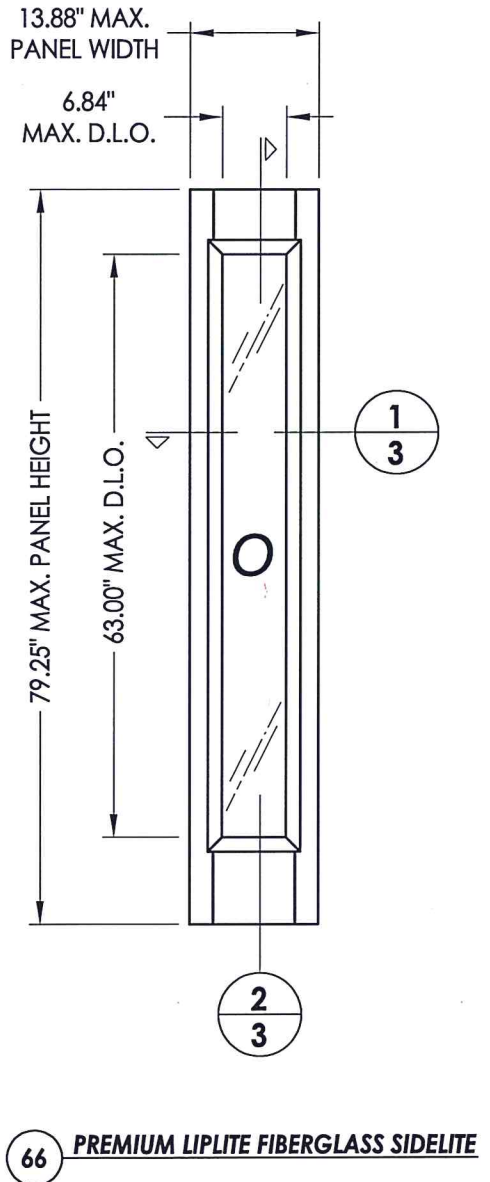
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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Phone No.: 813.659.9197
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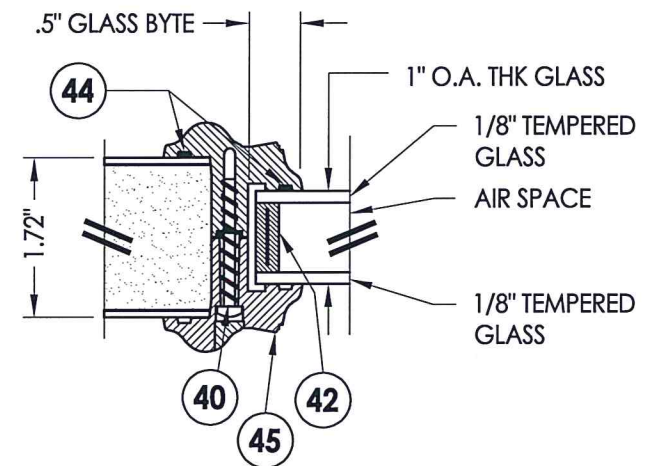
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

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

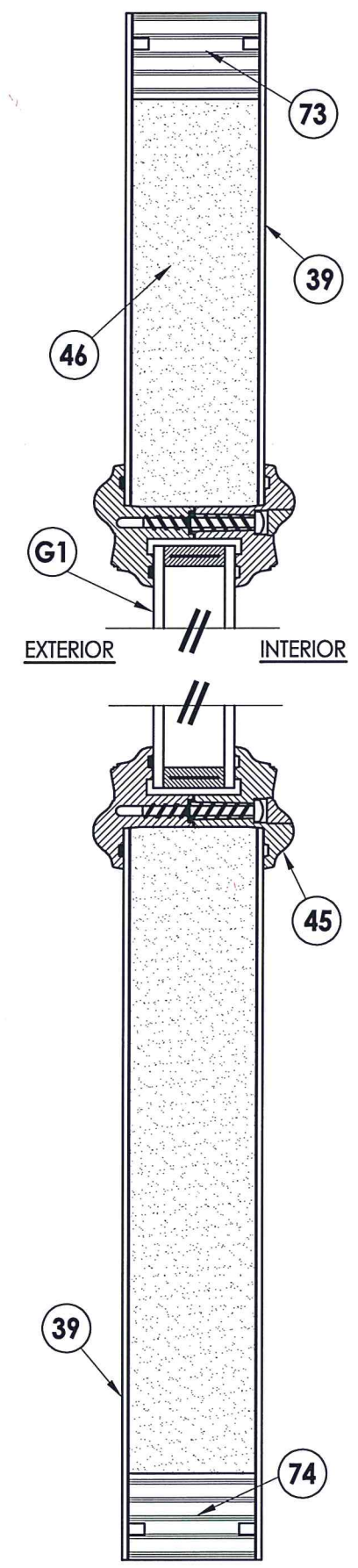
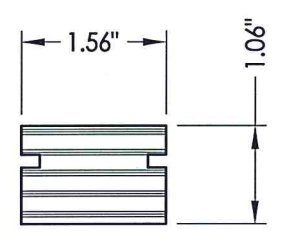
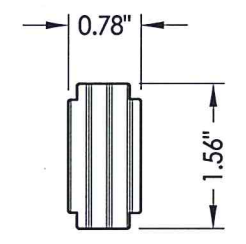
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SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 2 OF 9



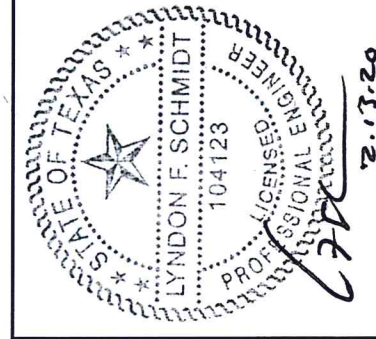
1
3 **HORIZONTAL CROSS SECTION**



G1 **GLAZING DETAIL**



2
3 **VERTICAL CROSS SECTION**



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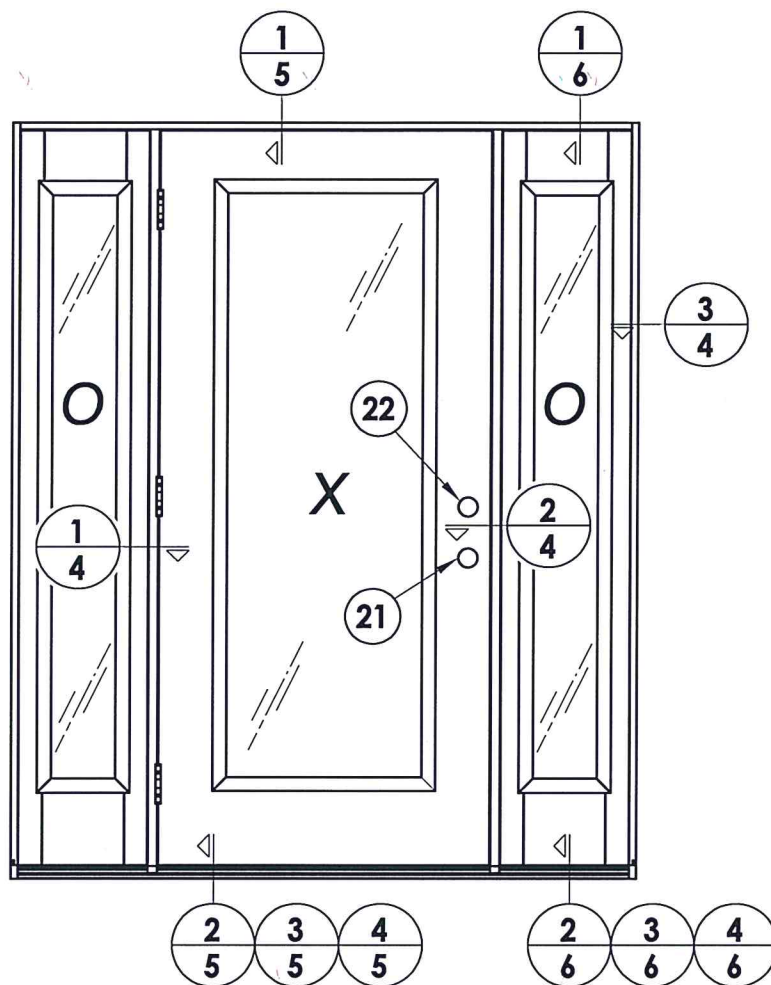
PART OR ASSEMBLY:
SIDELITE PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

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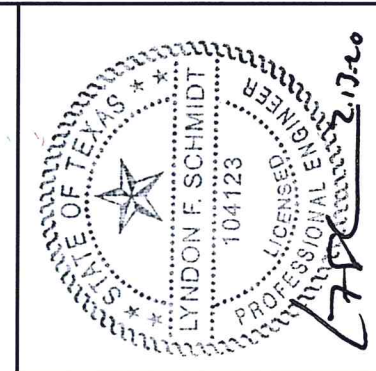
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SHEET 3 OF 9

NOTE:

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



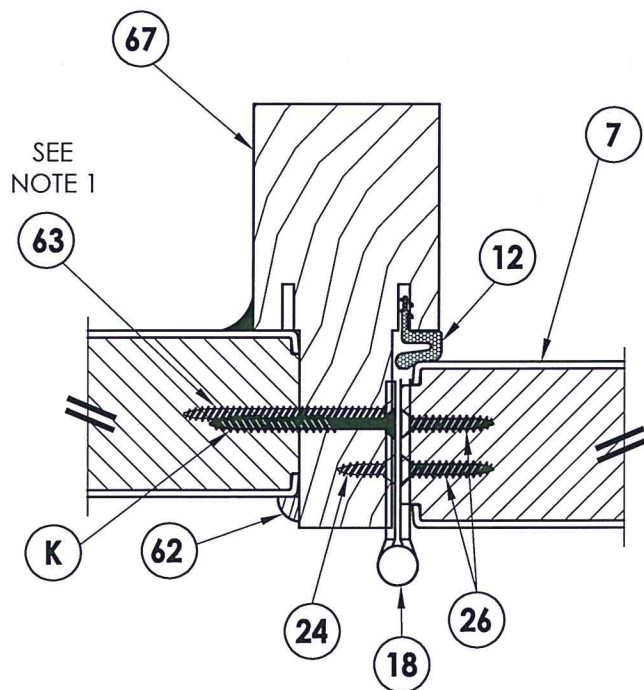
HARDWARE CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 740	21
	DEADBOLT: 780	22
KWIKSET	LOCK: COMBO 660	21
	DEADBOLT: COMBO 660	22
SCHLAGE	LOCK: MAX. SECURITY	21
	DEADBOLT: MAX. SECURITY	22



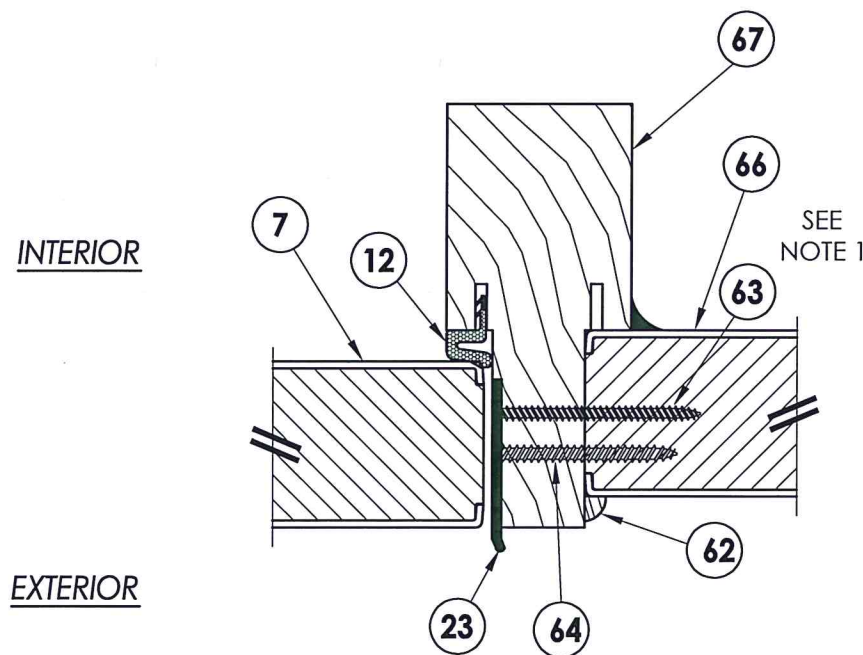
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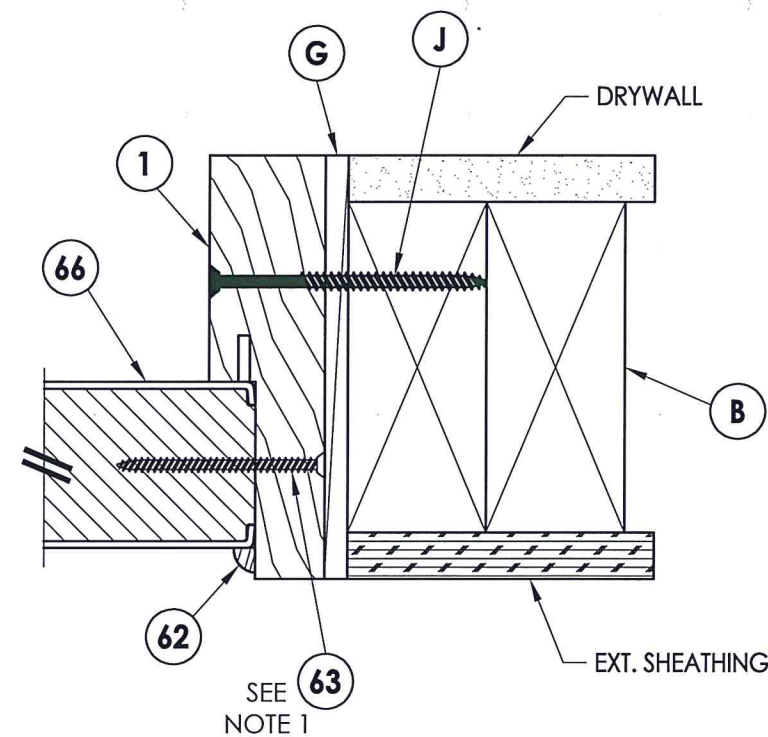
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1 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved



2 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved



3 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved

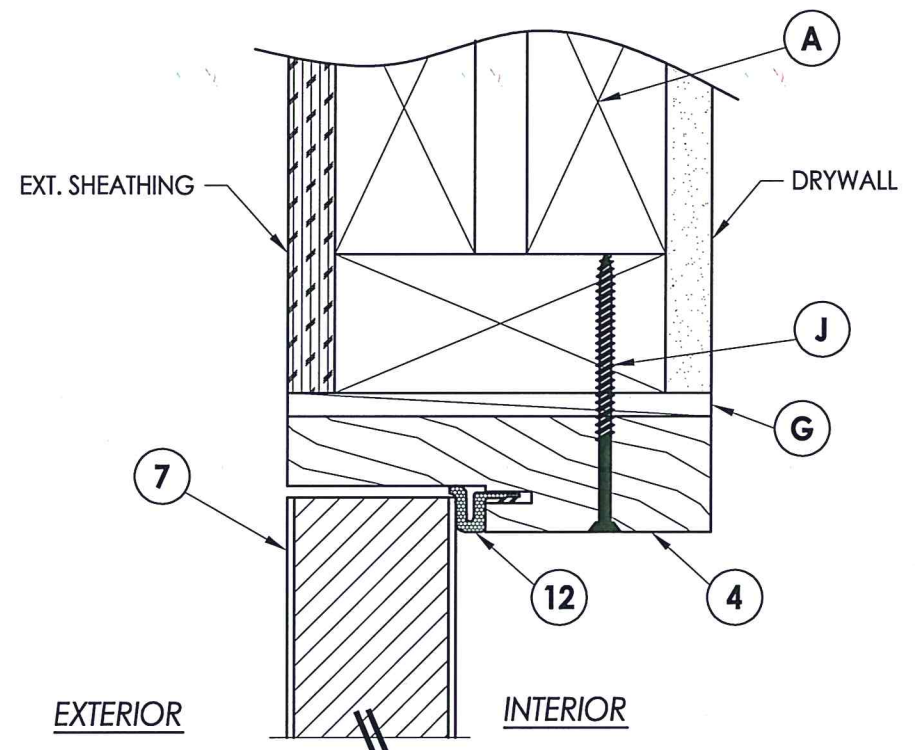
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTION

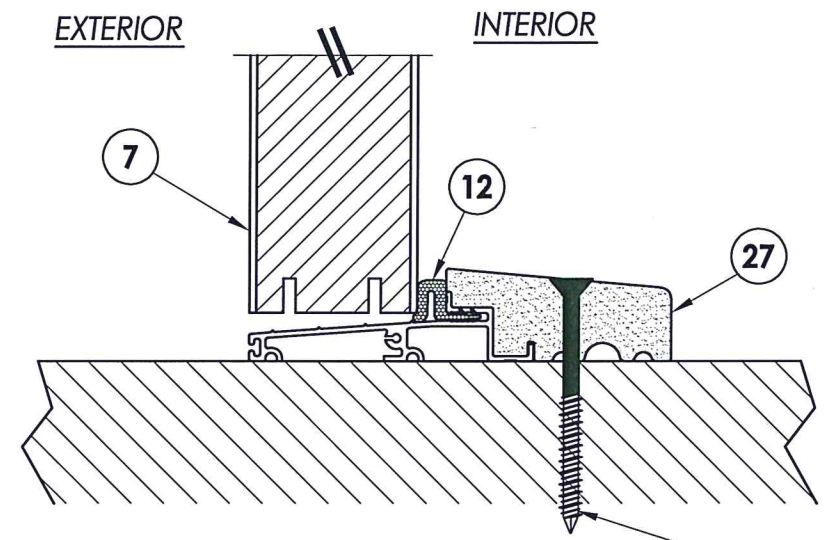
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CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 4 of 9

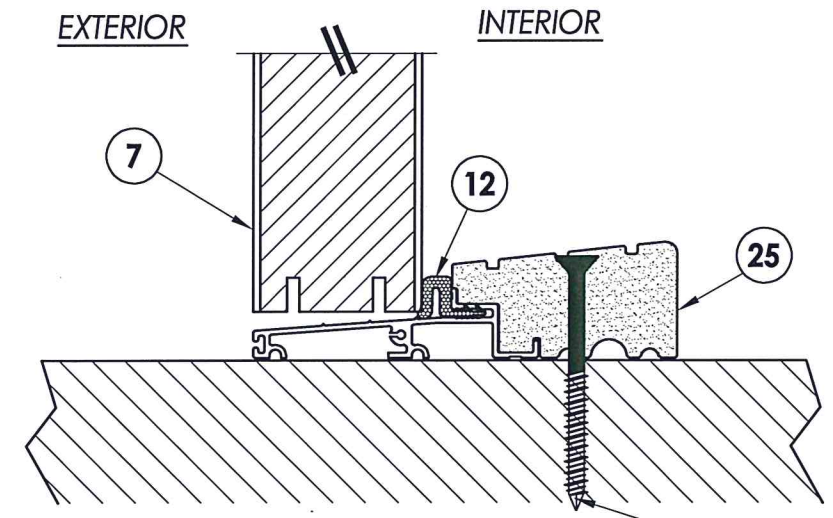
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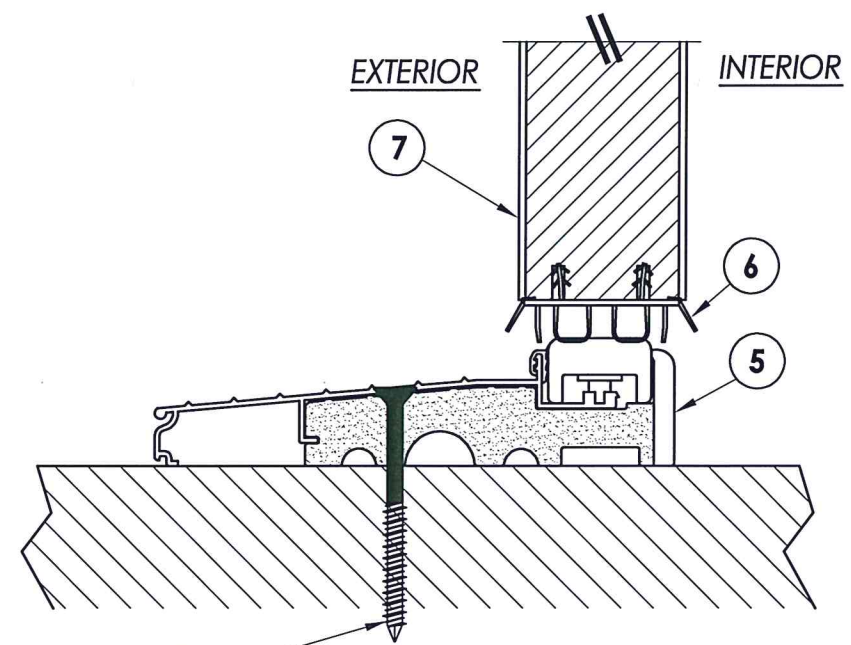
1 VERTICAL CROSS SECTION
5 Outswing shown
 Inswing also approved



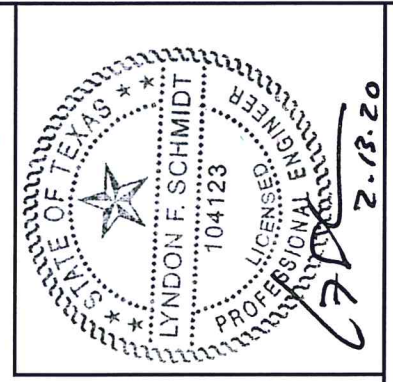
2 VERTICAL CROSS SECTION
5 Outswing configuration



3 VERTICAL CROSS SECTION
5 Outswing configuration



4 VERTICAL CROSS SECTION
5 Inswing configuration



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 TEXAS P.E. #104123

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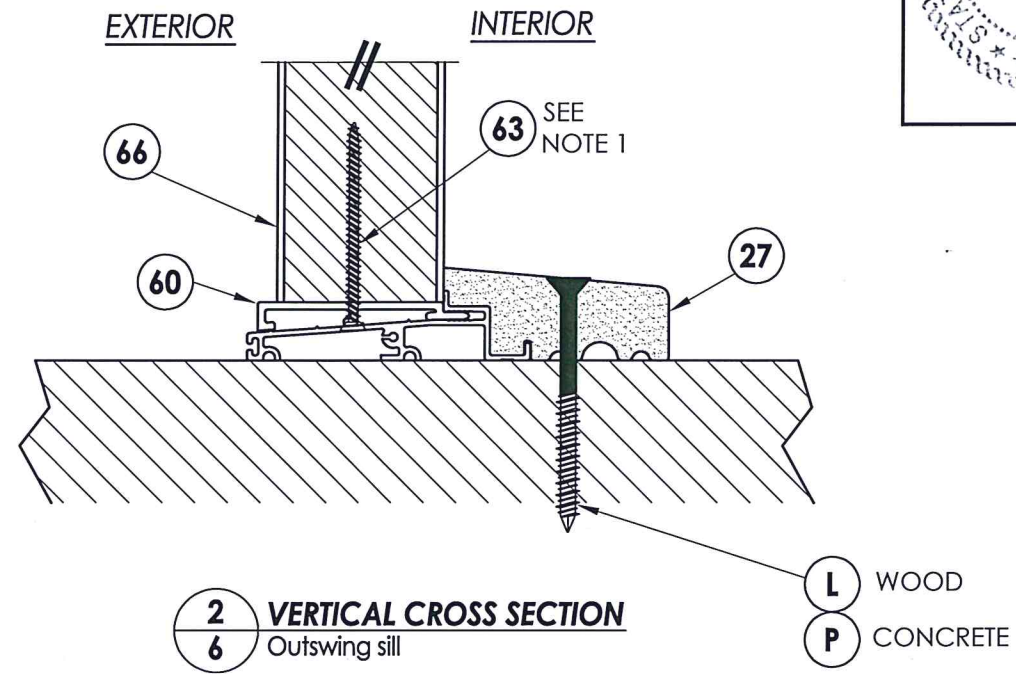
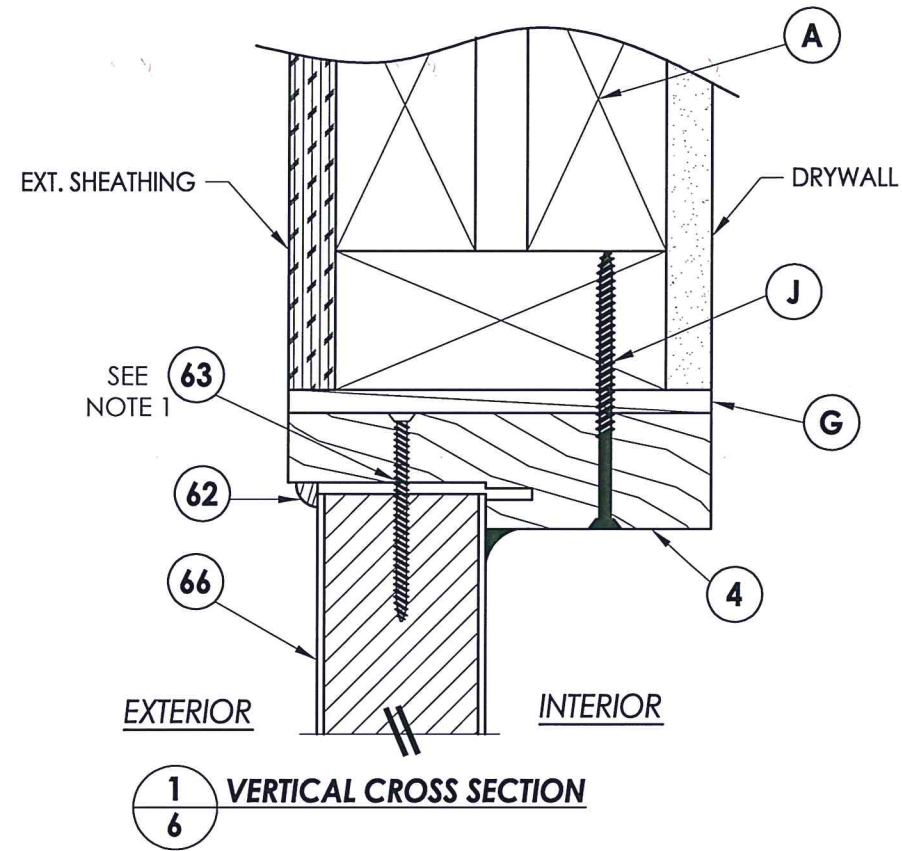
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PRODUCT: TRINITY GLASS INT'L
 PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

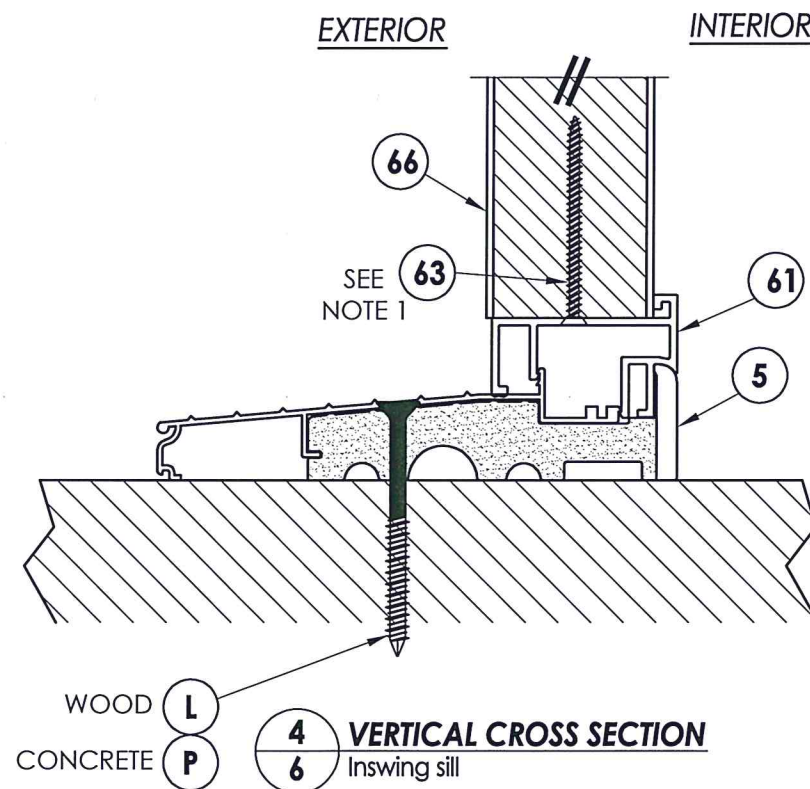
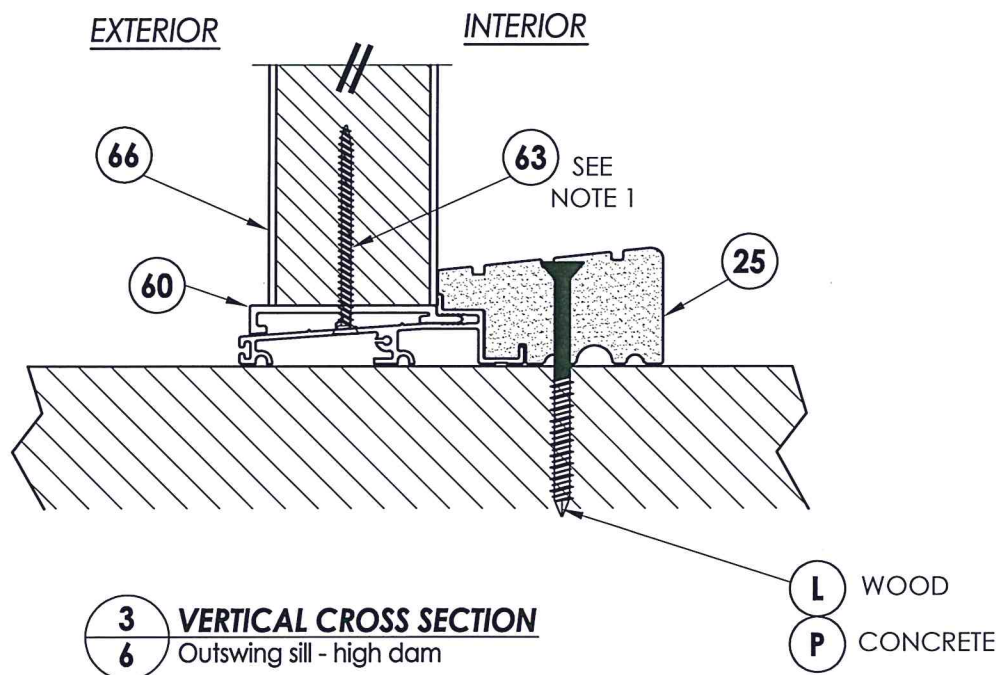
NO.	DATE	REVISIONS
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1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 8/26/05
 SCALE: N.T.S.
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 CHK. BY: LFS
 DRAWING NO.: TX-596
 SHEET 5 of 9



NOTE:

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



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TEXAS P.E. #104123

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P.O. Box 230 Vairico FL, 33595
Phone No.: 813.659.9197
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PRODUCT:
TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	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

DATE: 8/26/05

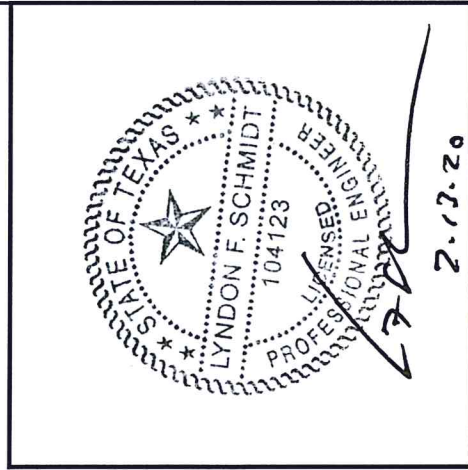
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CHK. BY: LFS

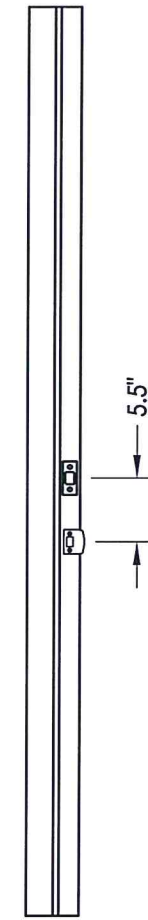
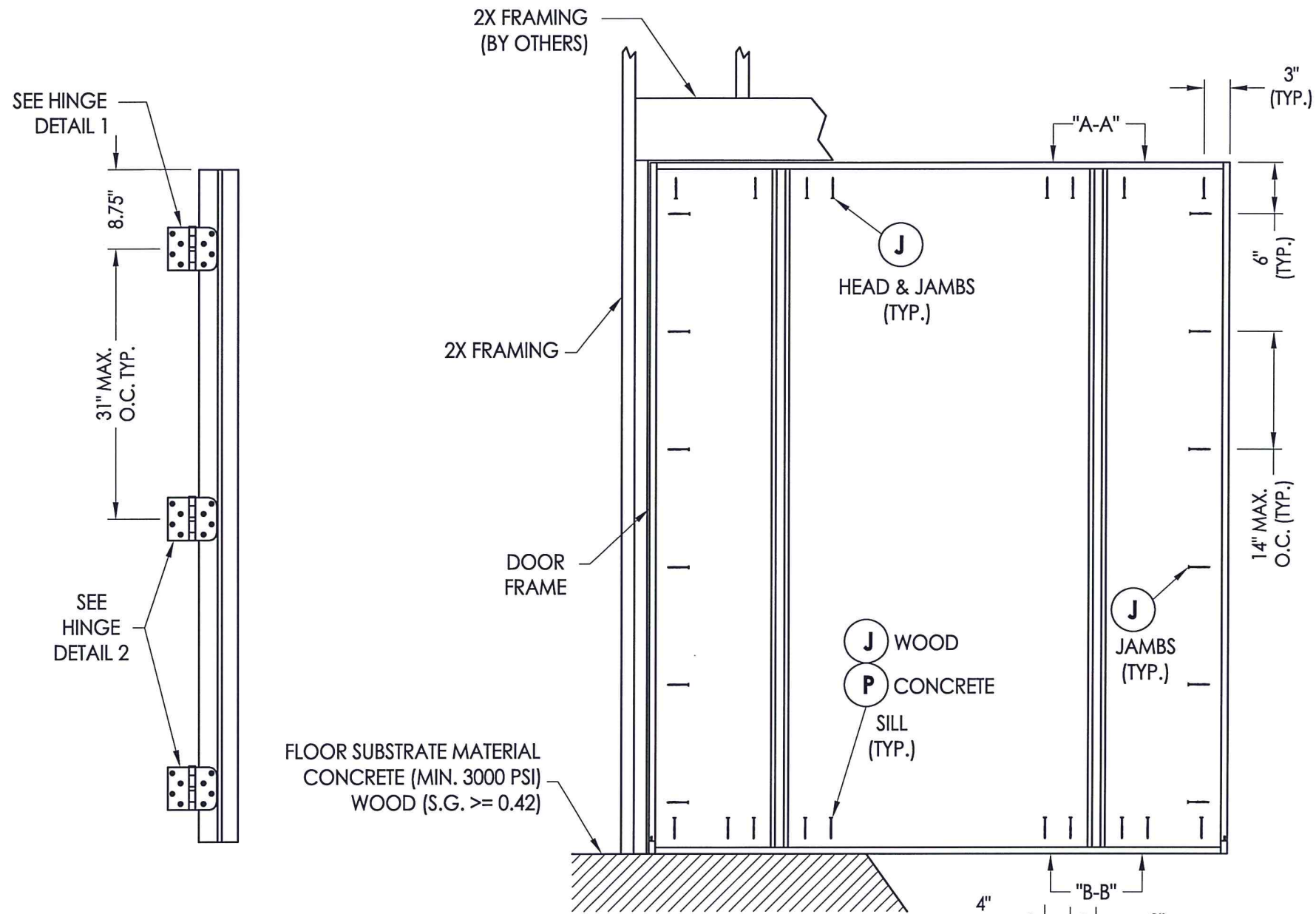
DRAWING NO.:
TX-596

SHEET 6 of 9



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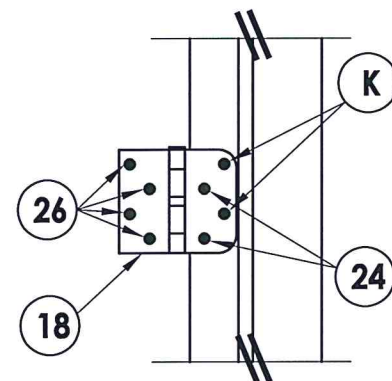
RW BUILDING CONSULTANTS, INC.
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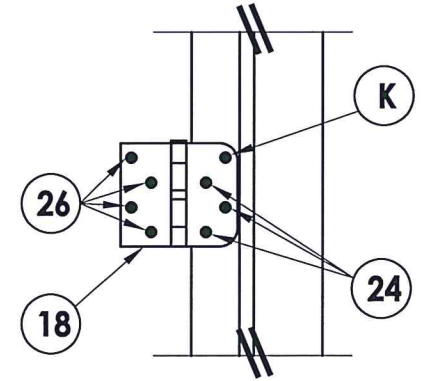
HINGE MULLION

FRAME ANCHORING
Stud construction

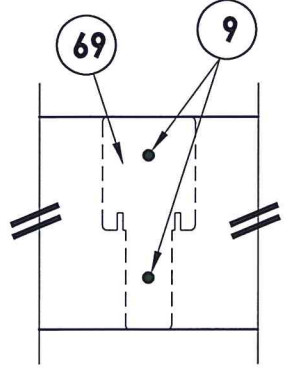
STRIKE MULLION



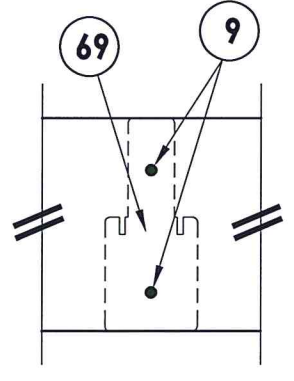
HINGE DETAIL 1



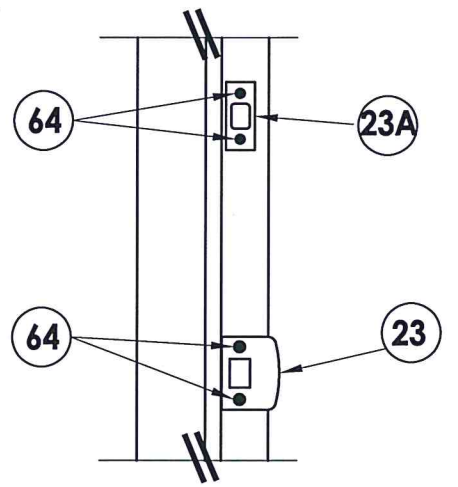
HINGE DETAIL 2



VIEW A-A



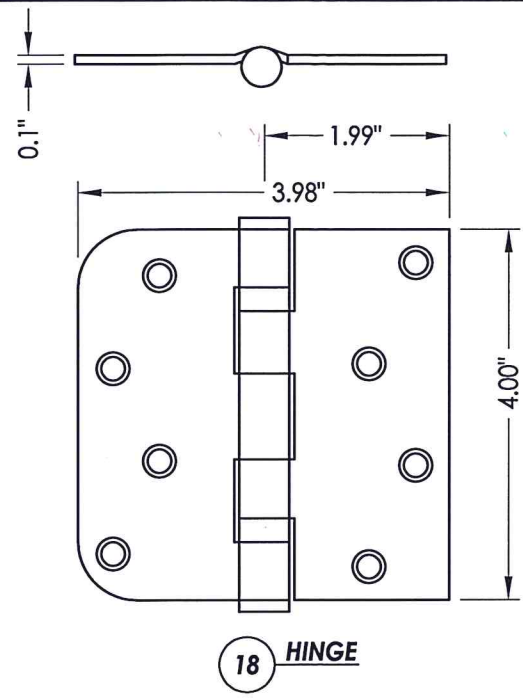
VIEW B-B



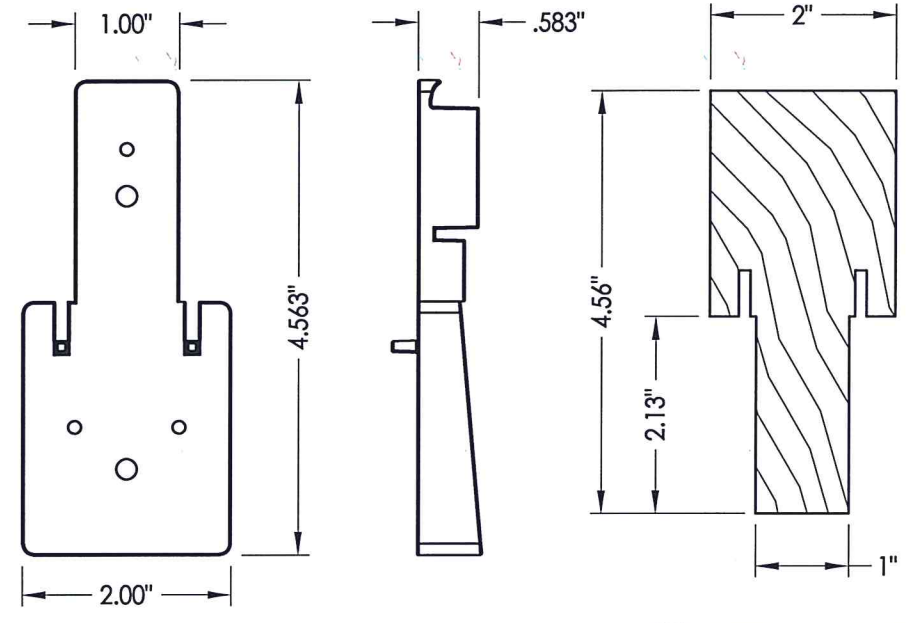
STRIKE PLATE DETAIL

PRODUCT:		TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS	
PART OR ASSEMBLY:		FRAME ANCHORING	
NO.	DATE	REVISIONS	BY
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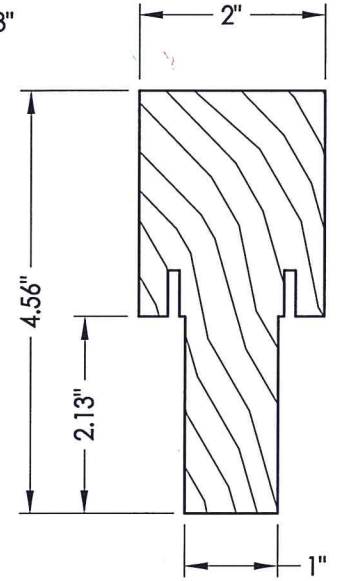
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SCALE: N.T.S.
DWG. BY: EW
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DRAWING NO.: TX-596
SHEET 7 OF 9



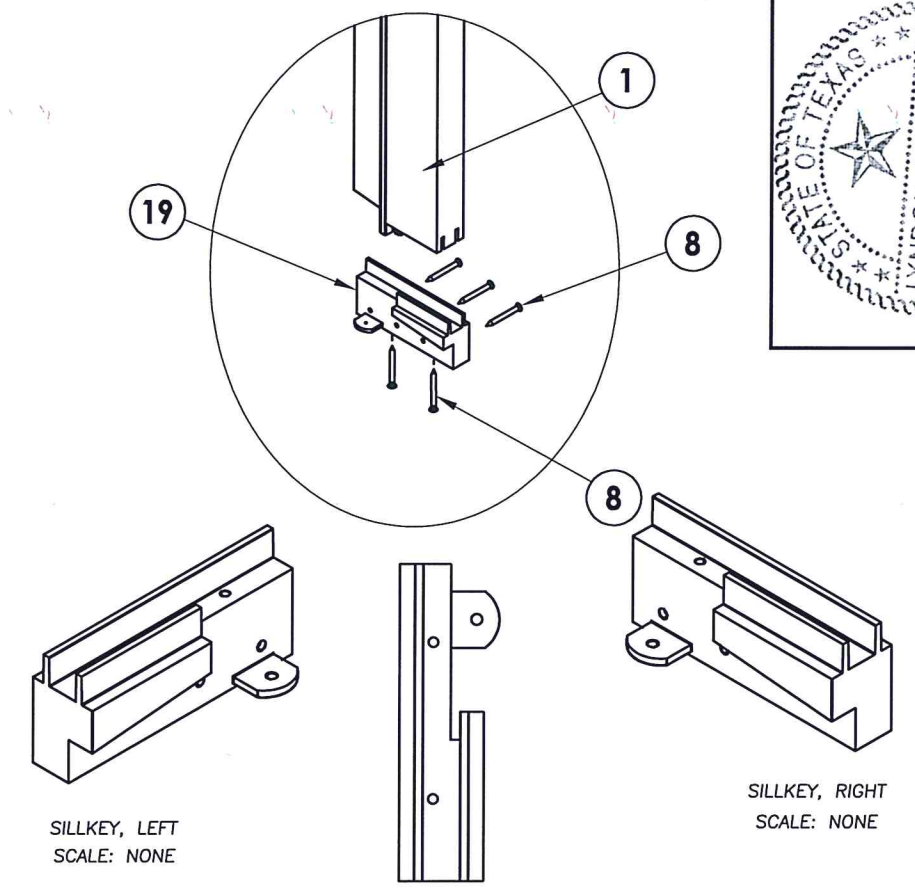
18 HINGE



69 MULLION BASE KIT
Optional

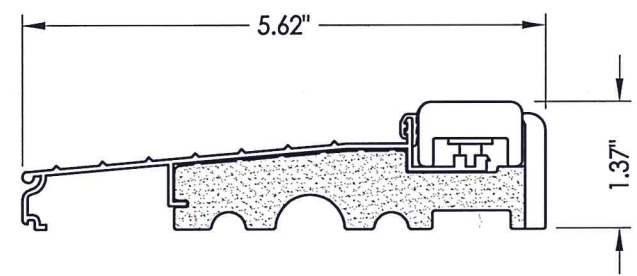


67 INTEGRAL MULLION

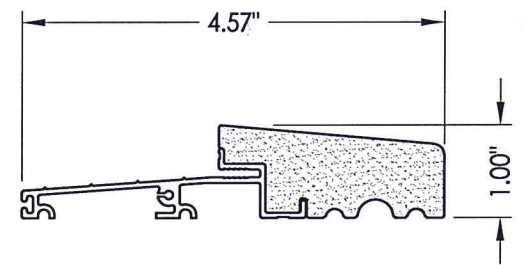


SILLKEY, LEFT
SCALE: NONE

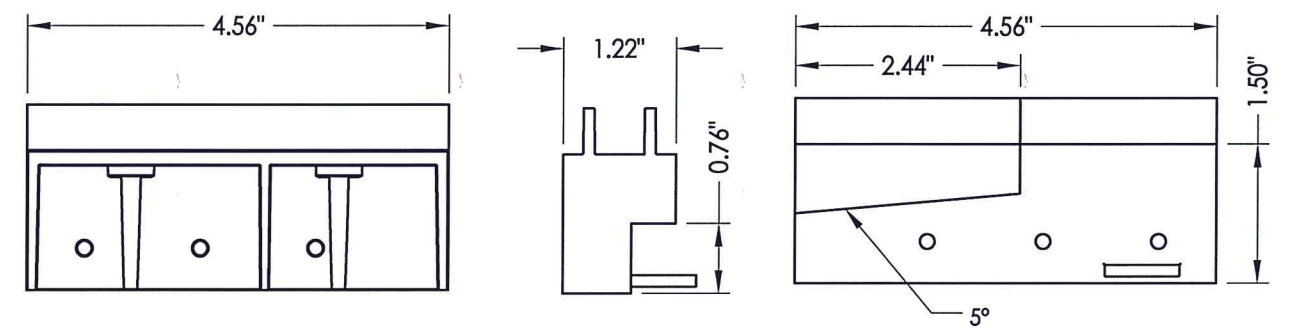
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SCALE: NONE



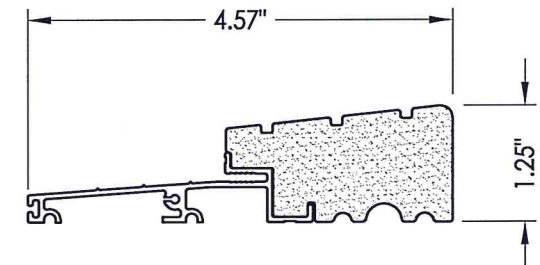
5 INSWING THRESHOLD



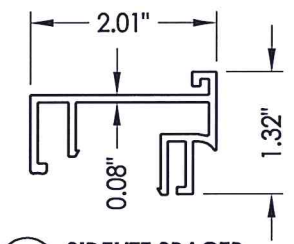
27 OUTSWING THRESHOLD



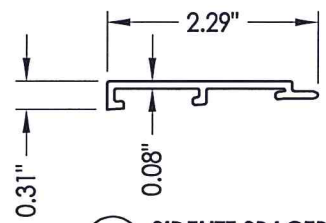
19 SILLKEY DETAILS
Optional



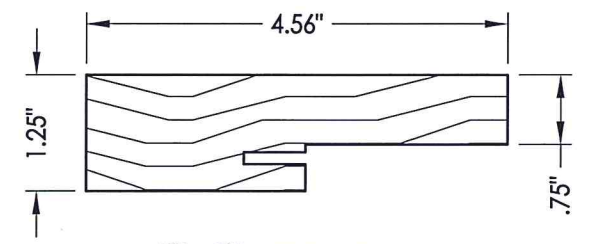
25 OUTSWING THRESHOLD
High-dam option



61 SIDELITE SPACER
Inswing



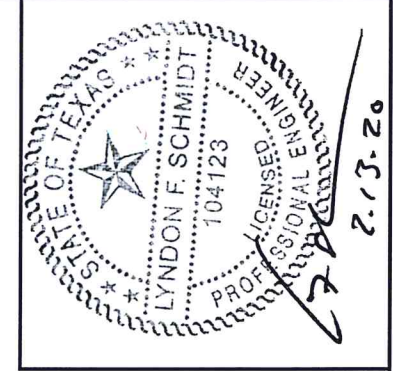
60 SIDELITE SPACER
Outswing



4 1 SIDE & HEAD JAMBS



6 DOOR BOTTOM SWEEP



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PART OR ASSEMBLY: COMPONENTS

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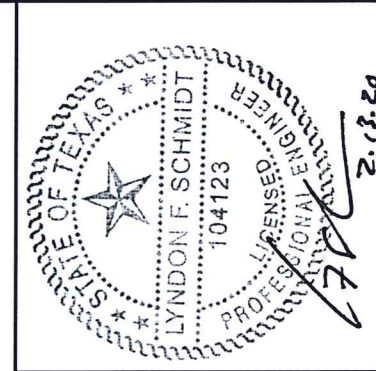
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SHEET 8 OF 9



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BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	2X HEADER FRAMING SG >= 0.42	WOOD	27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
B	2X FRAMING SG >= 0.42	WOOD	30	LATCH STILE - SG >= 0.42	LVL/PVC
G	MAX. 1/4" SHIM SPACE	WOOD	31	LVL LOCK BLOCK	POPLAR
J	#10 X 3" PFH WS	STEEL	32	HINGE STILE - SG >= 0.42	LVL/PVC
K	#9 X 2" PFH WS	STEEL	33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL	34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	39	FIBERGLASS SKIN 0.079" MIN. THICKNESS	FIBERGLASS
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD	40	#8 X 1-1/8" SELF THREADING SCREW	STEEL
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUMINUM	42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
6	DOOR BOTTOM SWEEP	PVC	44	HOT MELT SEALANT / SILICONE	-
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-	45	LITE FRAME	PC/ASA
8	#6 X 1-1/4" PFH DRYWALL SCREW	STEEL	46	FOAM CORE	POLYURETHANE
9	#9 X 2-1/4" PFH WOOD SCREW	STEEL	60	SIDELITE SPACER - OUTSWING	PVC
12	WEATHER STRIP QEBD650 Q-LON	-	61	SIDELITE SPACER - INSWING	PVC
18	3.983" X 4.0" HINGE MIN 0.098" THICK	STEEL	62	QUARTER ROUND	WOOD
19	SILLKEY	PC/ASA	63	#8 X 2-1/4" PFH SCREW	STEEL
21	LOCK (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL	64	#8 X 2" PFH SCREW	STEEL
22	DEADBOLT (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL	66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
23	STRIKE PLATE	STEEL	67	INTEGRAL MULLION - FINGER JOINT PINE (SG >= 0.42)	WOOD
23A	DEADBOLT PLATE	STEEL	69	MULLION BASE KIT	PC/ASA
24	#9 X 5/8" PFH SCREW	STEEL	73	LVL SIDELITE TOP RAIL (FULL LITE)	POPLAR
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.	74	LVL SIDELITE BOTTOM RAIL (FULL LITE)	POPLAR
26	#9 X 1" PFH SCREW	STEEL	75	LVL SIDELITE STILE (FULL LITE)	POPLAR

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 LITE FIBERGLASS
PART OR ASSEMBLY:	BILL OF MATERIALS
DATE:	8/26/05
SCALE:	N.T.S.
DWG. BY:	EW
CHK. BY:	LFS
DRAWING NO.:	TX-596
SHEET	9 OF 9