

TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

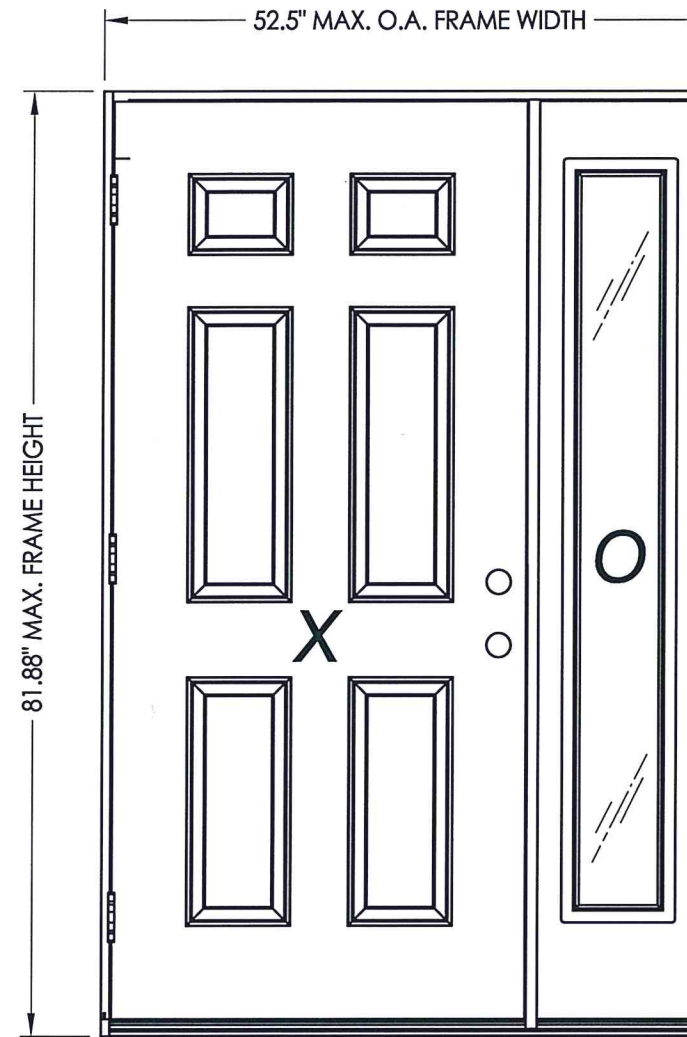
3'0 X 6'8
OPAQUE PREMIUM FIBERGLASS
SINGLE DOOR w/ SIDELITE (CHS)
INSWING / OUTSWING
"IMPACT" DOOR w/ "NON-IMPACT" SIDELITE

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.

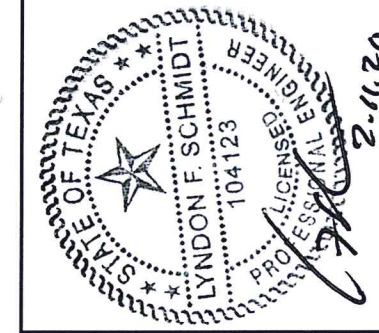
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1	Typical elevations, design pressures & general notes
2	Door panel construction details
3	Sidelite panel construction details & glazing details
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Frame anchoring
8	Components
9	Bill of materials & components



CONTINUOUS HEADER AND SILL

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	52.5" x 81.88"	G1	+60.0	-70.0
OUTSWING	52.5" x 80.75"		+60.0	-60.0

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



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TEXAS P.E. #104123

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:
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: 8/25/05

SCALE: N.T.S.

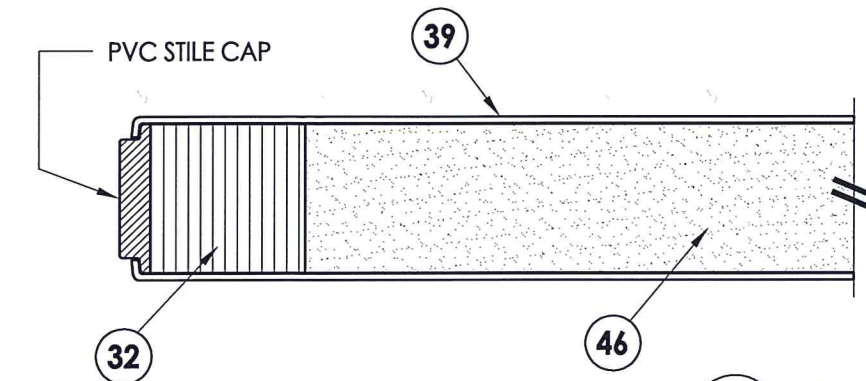
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CHK. BY: LFS

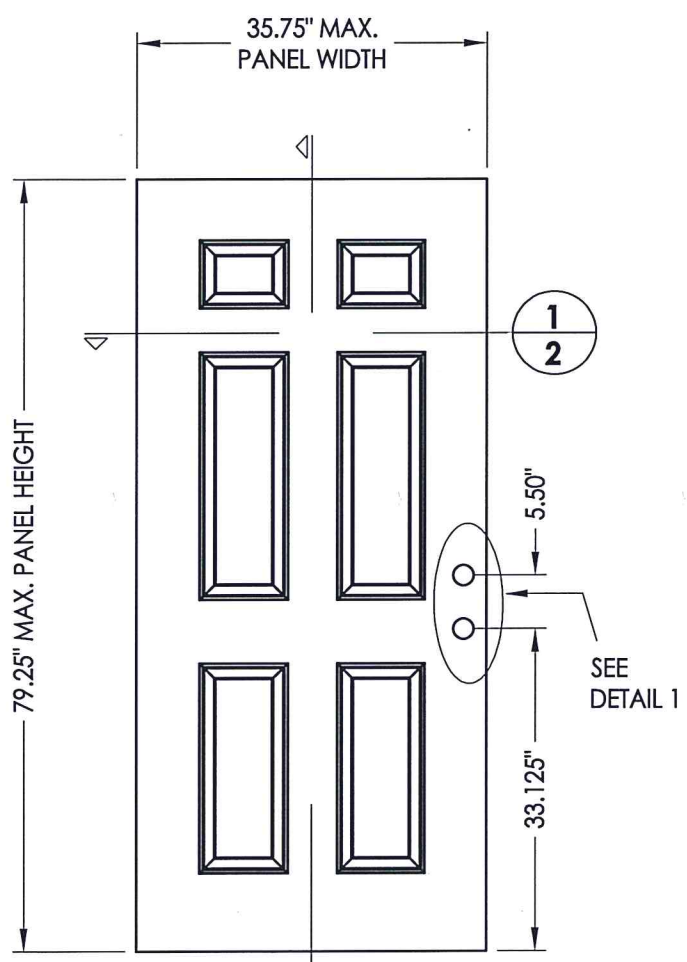
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TX-589

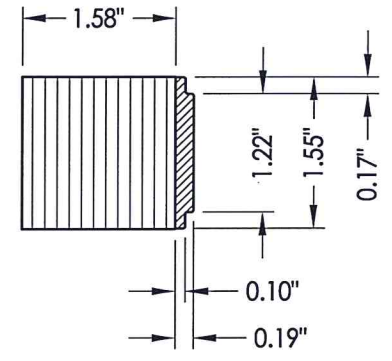
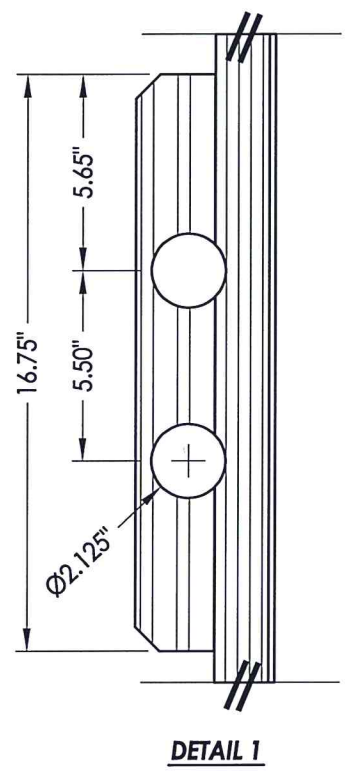
SHEET 1 OF 9



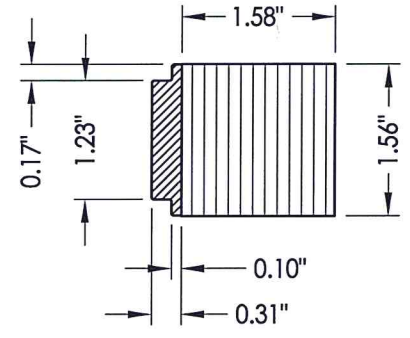
1
2 HORIZONTAL CROSS SECTION



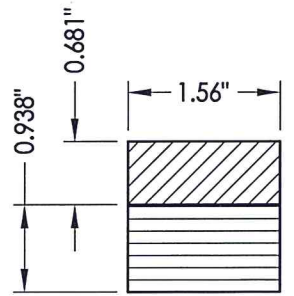
7 PREMIUM OPAQUE DOOR
"IMPACT"



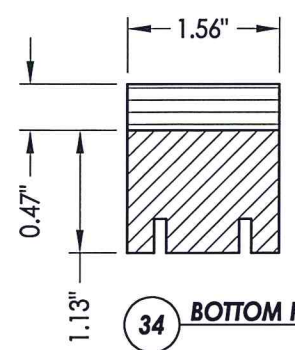
30 LATCH STILE



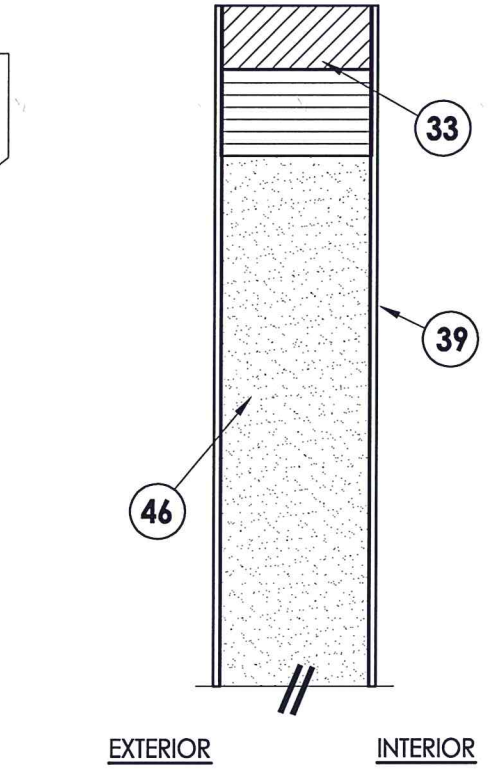
32 HINGE STILE



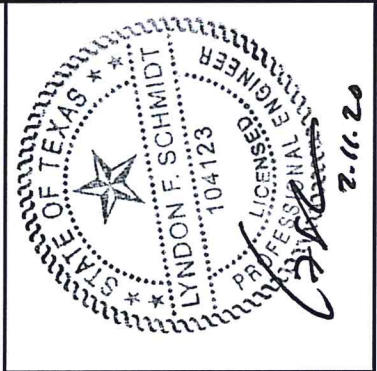
33 TOP RAIL



34 BOTTOM RAIL



2
2 VERTICAL CROSS SECTION



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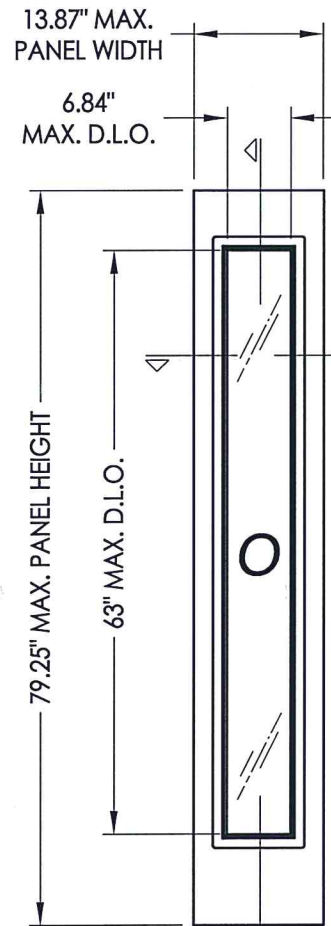
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
6 8 PREMIUM OPAQUE

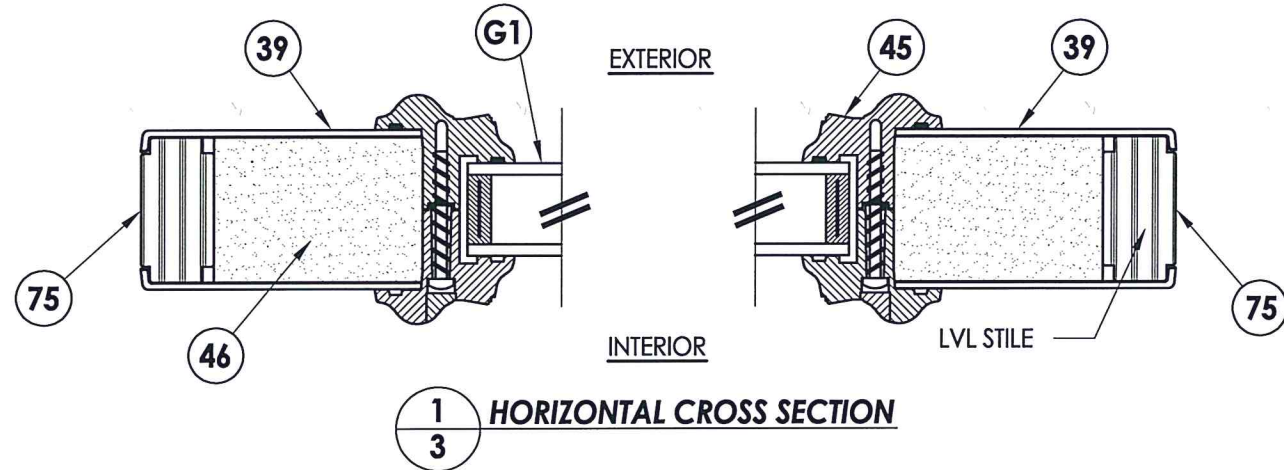
PART OR ASSEMBLY: DOOR PANEL
CONSTRUCTION DETAILS

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
		EW
		BY

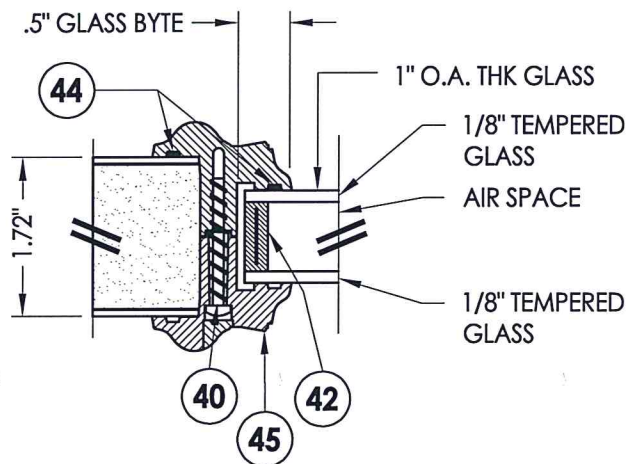
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SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-589
SHEET 2 OF 9



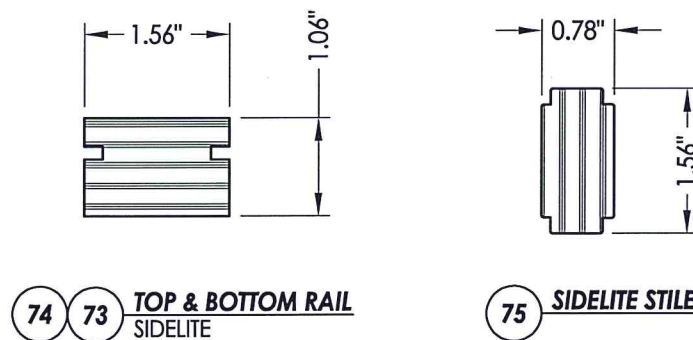
66 **FIBERGLASS SIDELITE**
"NON-IMPACT"



1
3 **HORIZONTAL CROSS SECTION**

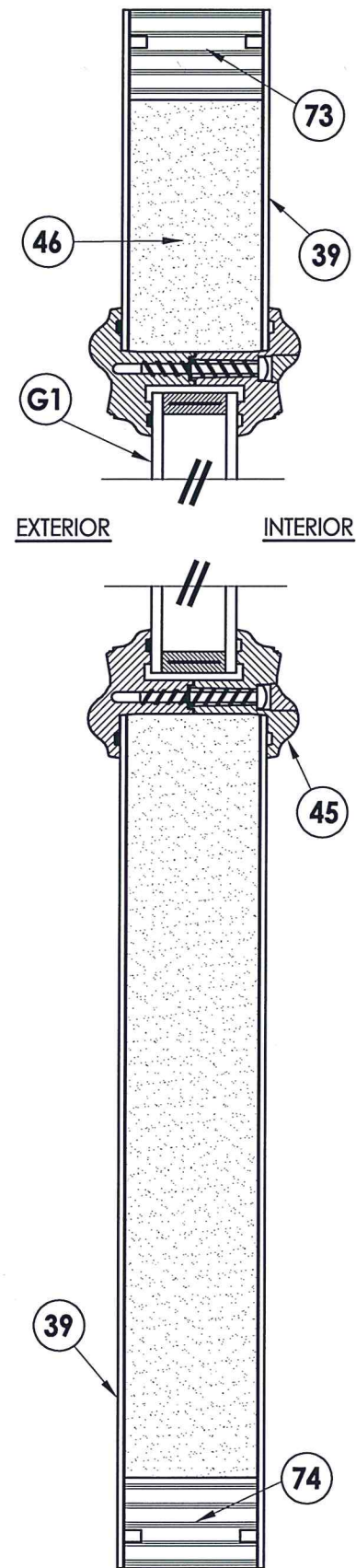


G1 **GLAZING DETAIL**

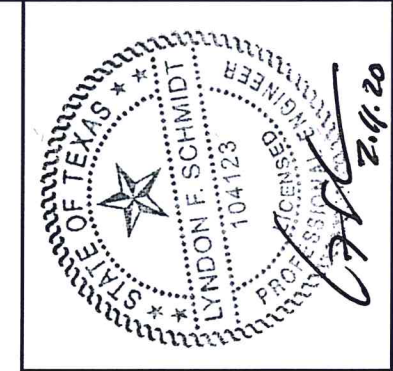


74 73 **TOP & BOTTOM RAIL**
SIDELITE

75 **SIDELITE STILE**



2
3 **VERTICAL CROSS SECTION**



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

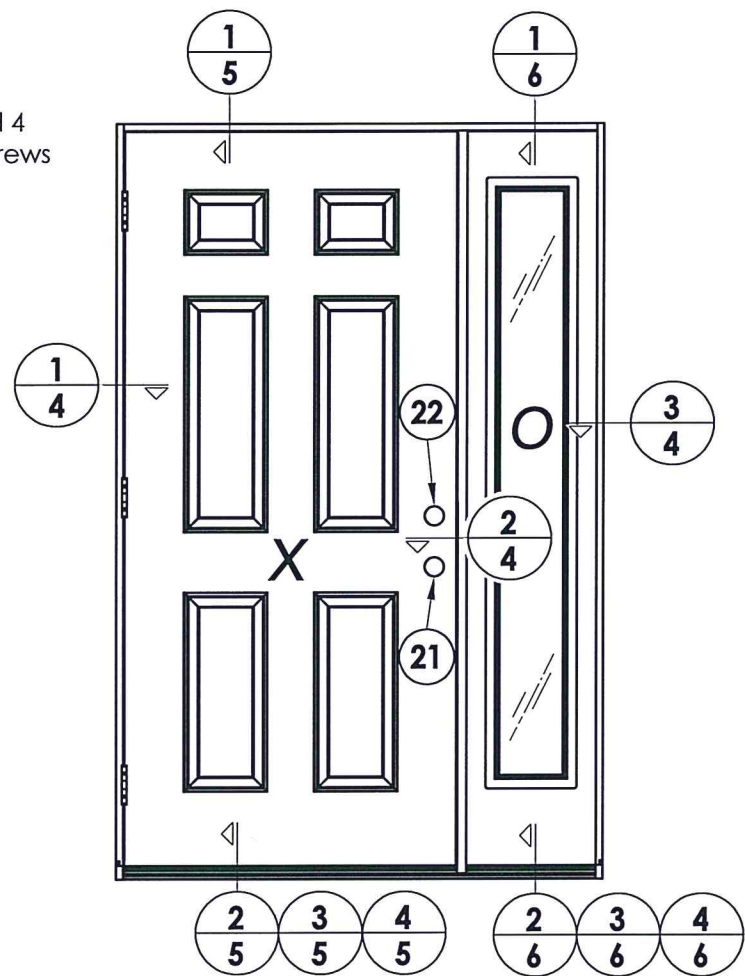
PART OR ASSEMBLY:
SIDELITE PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

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

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SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-589
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).



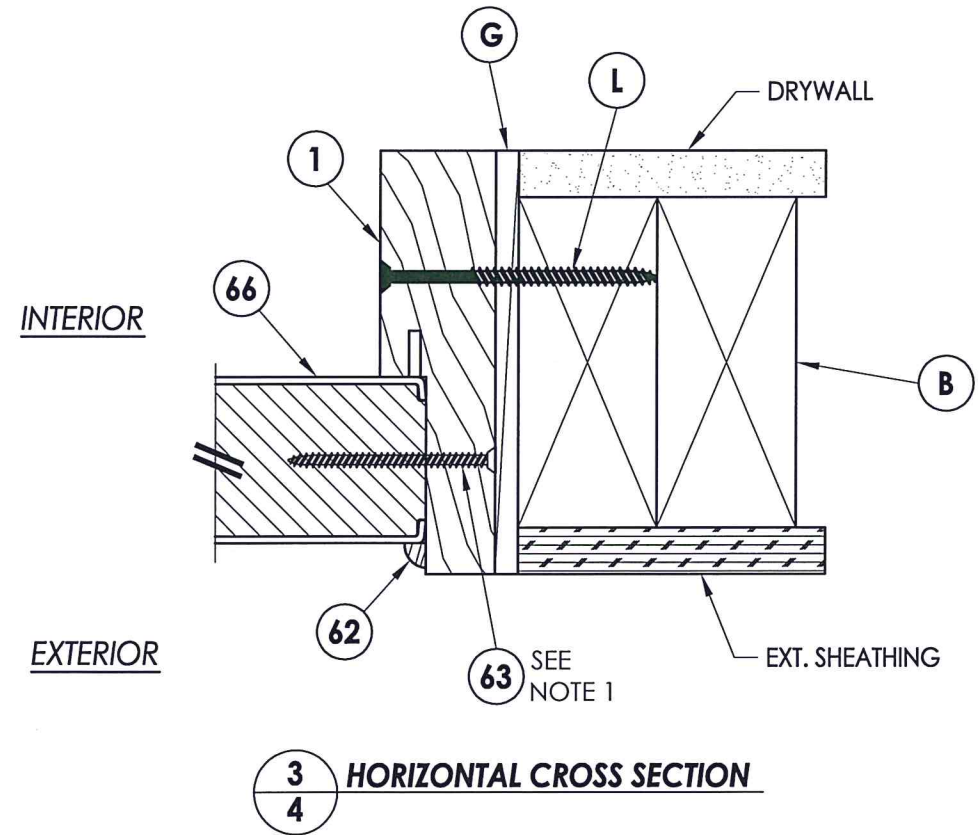
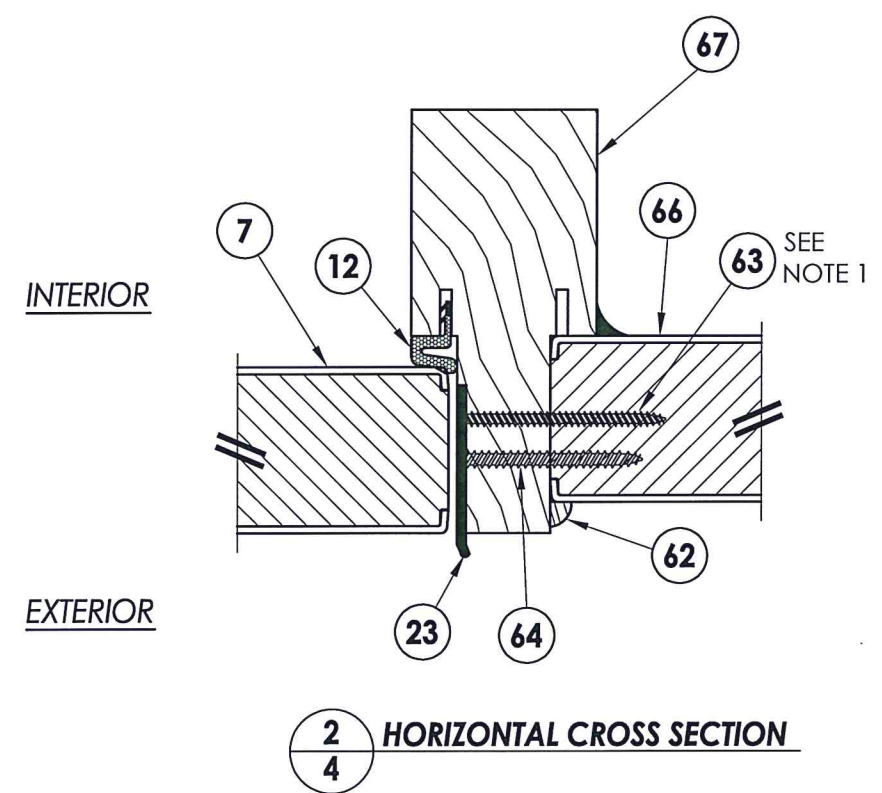
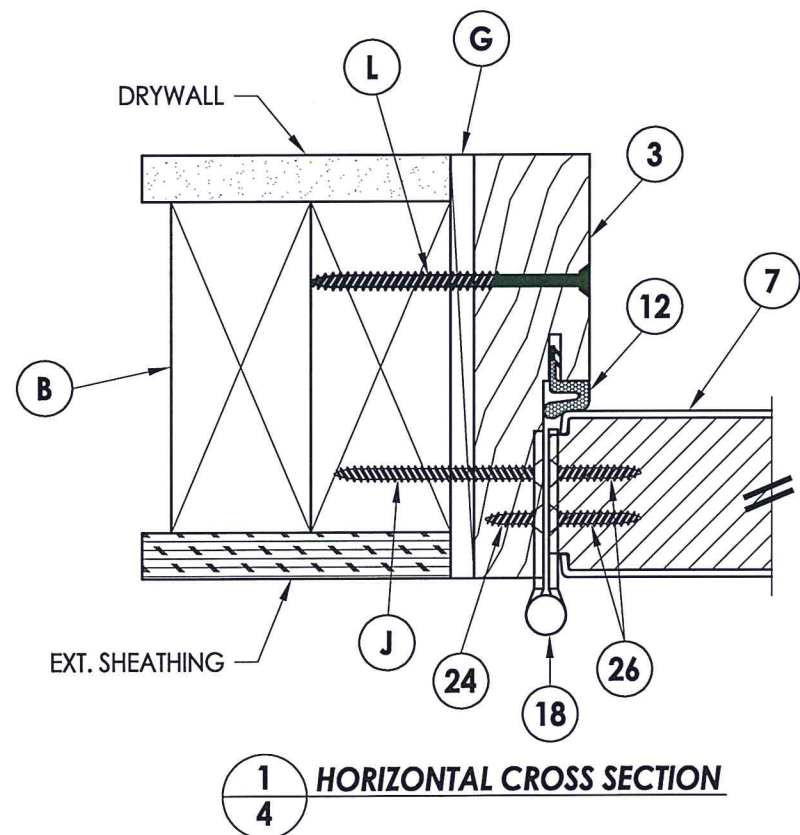
LOCK & DEADBOLT RATINGS CHART				
MANUFACTURER	MODEL	ITEM #	MAX. DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
KWIKSET	LOCK: 740	21	+60.0	-70.0
	DEADBOLT: 780	22		
KWIKSET	LOCK: COMBO 660	21	+60.0	-65.0
	DEADBOLT: COMBO 660	22		
SCHLAGE	LOCK: MAX. SECURITY	21	+55.0	-55.0
	DEADBOLT: MAX. SECURITY	22		



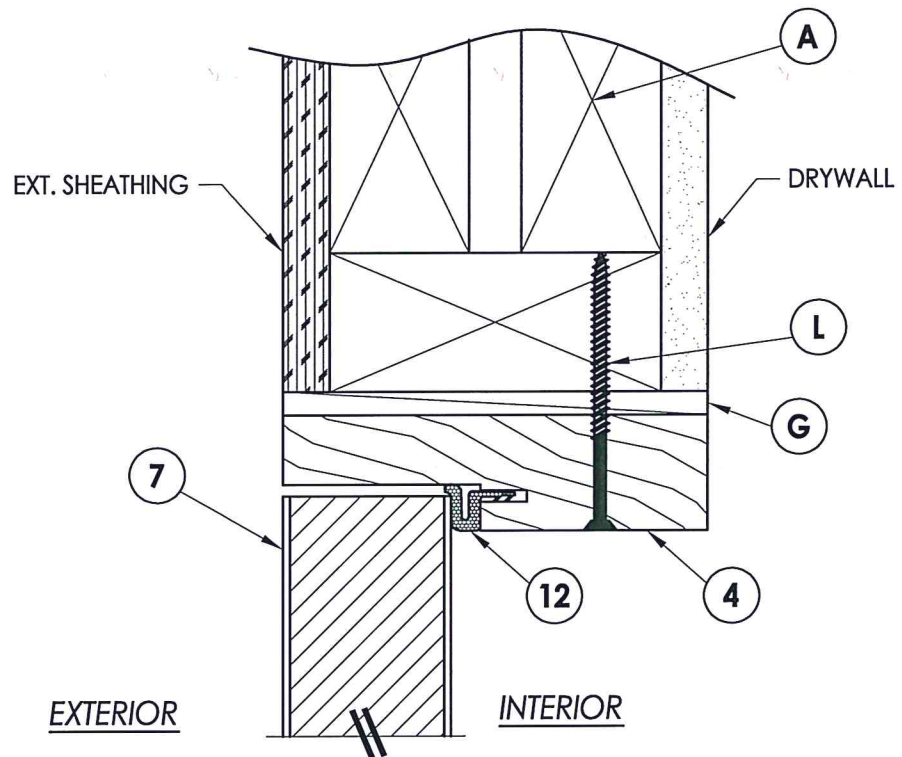
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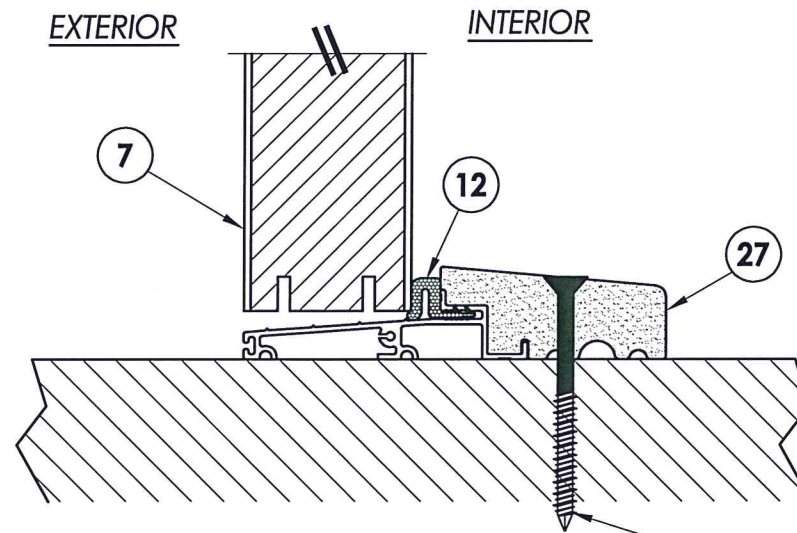
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PRODUCT: TRINITY GLASS INT'L 6'8 PREMIUM OPAQUE		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS	BY
3	2/10/20	UPDATE TO 2018 IBC/IRC	LFS
2	7/27/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW
DATE: 8/25/05		SCALE: N.T.S.	
DWG. BY: EW		CHK. BY: LFS	
DRAWING NO.: TX-589		SHEET 4 OF 9	

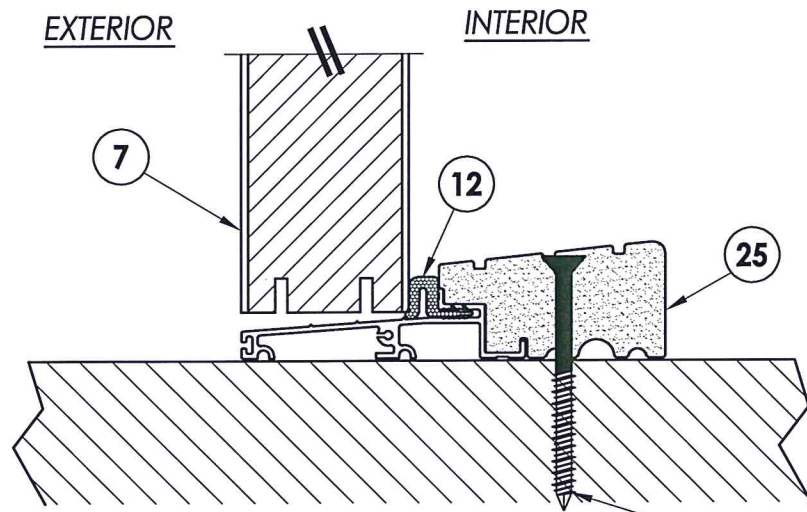


1 VERTICAL CROSS SECTION
5 Outswing shown
 Inswing also approved



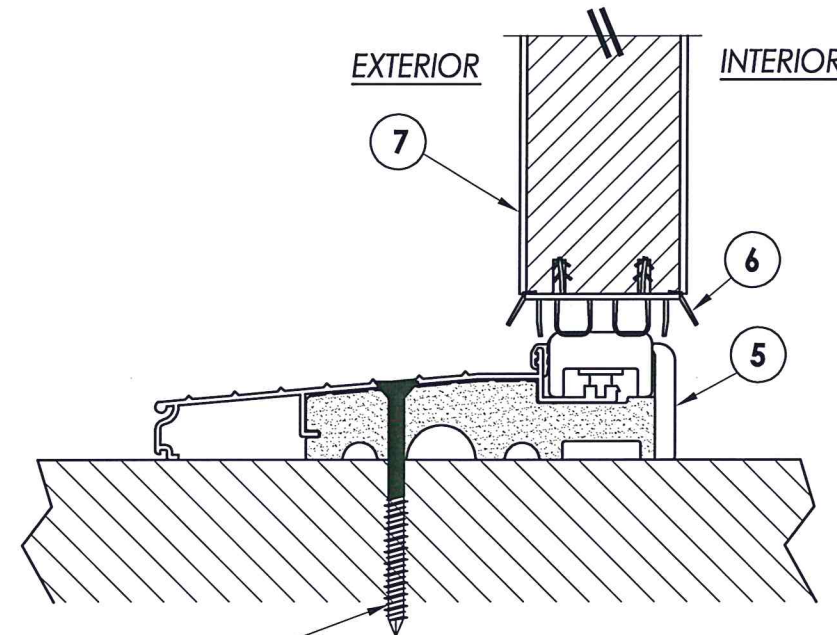
2 VERTICAL CROSS SECTION
5 Outswing configuration

L WOOD
P CONCRETE



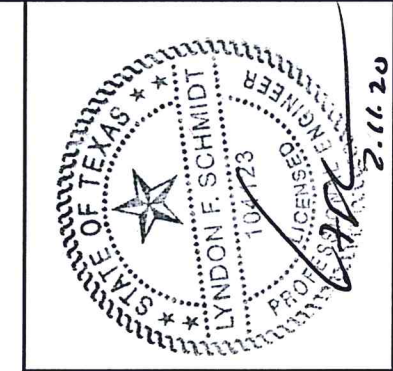
3 VERTICAL CROSS SECTION
5 Outswing configuration

L WOOD
P CONCRETE



4 VERTICAL CROSS SECTION
5 Inswing configuration

L WOOD
P CONCRETE



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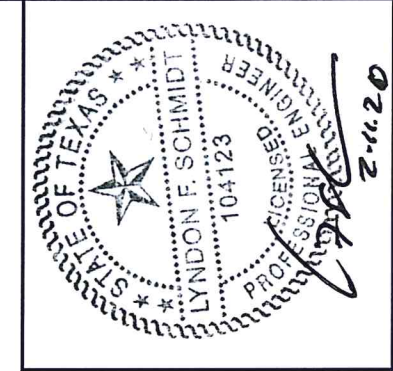
TEXAS BOARD OF PROFESSIONAL ENGINEERS
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PRODUCT: TRINITY GLASS INT'L
 6'8 PREMIUM OPAQUE

PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	2/10/20	UPDATE TO 2018 IBC/IRC
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1	6/28/06	REVISED LOCKSET NOMENCLATURE

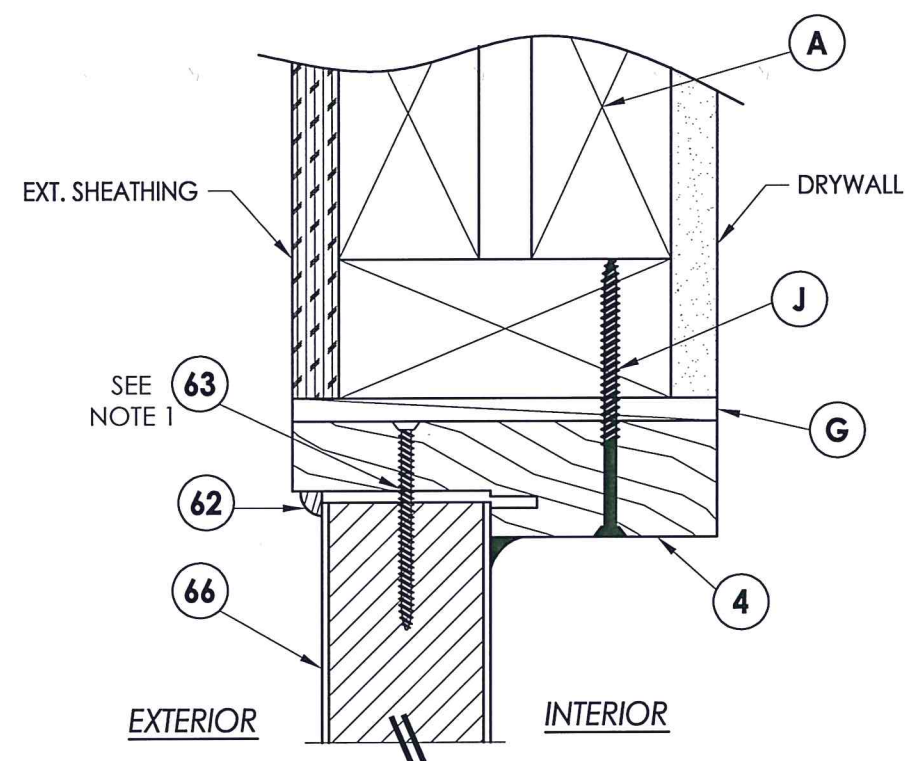
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 CHK. BY: LFS
 DRAWING NO.: TX-589
 SHEET 5 OF 9



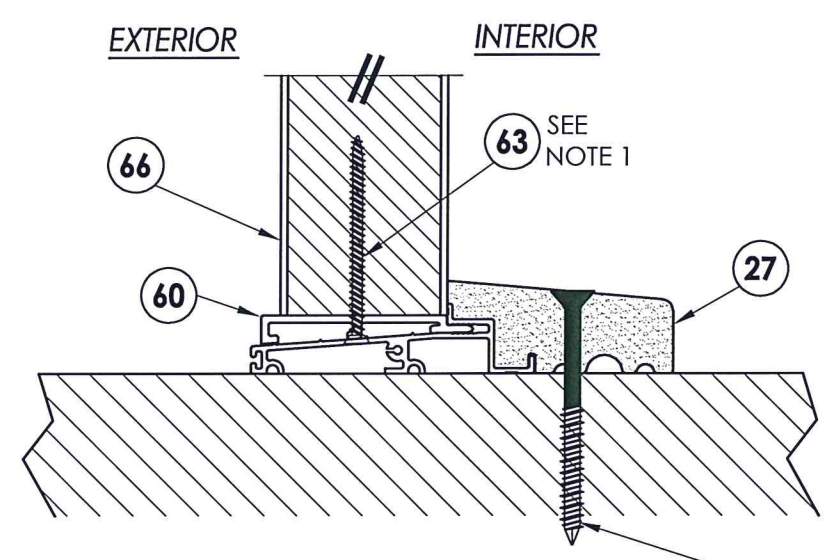
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852



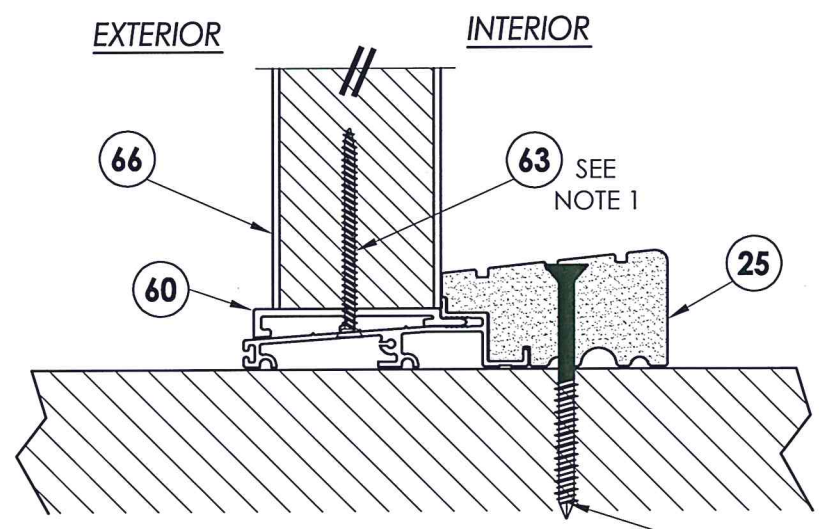
1 VERTICAL CROSS SECTION
6



2 VERTICAL CROSS SECTION
6 Outswing sill

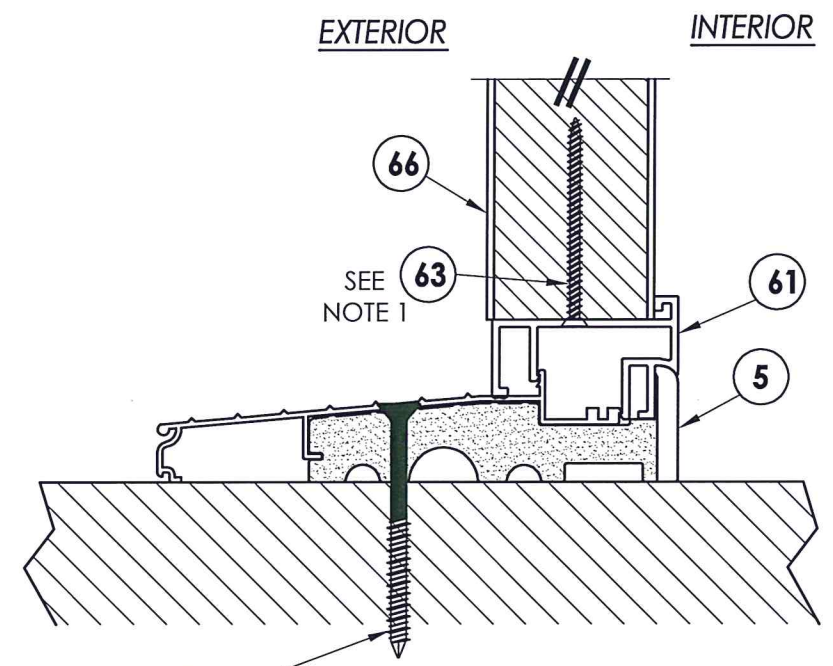
L WOOD
P CONCRETE

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



3 VERTICAL CROSS SECTION
6 Outswing sill - high dam

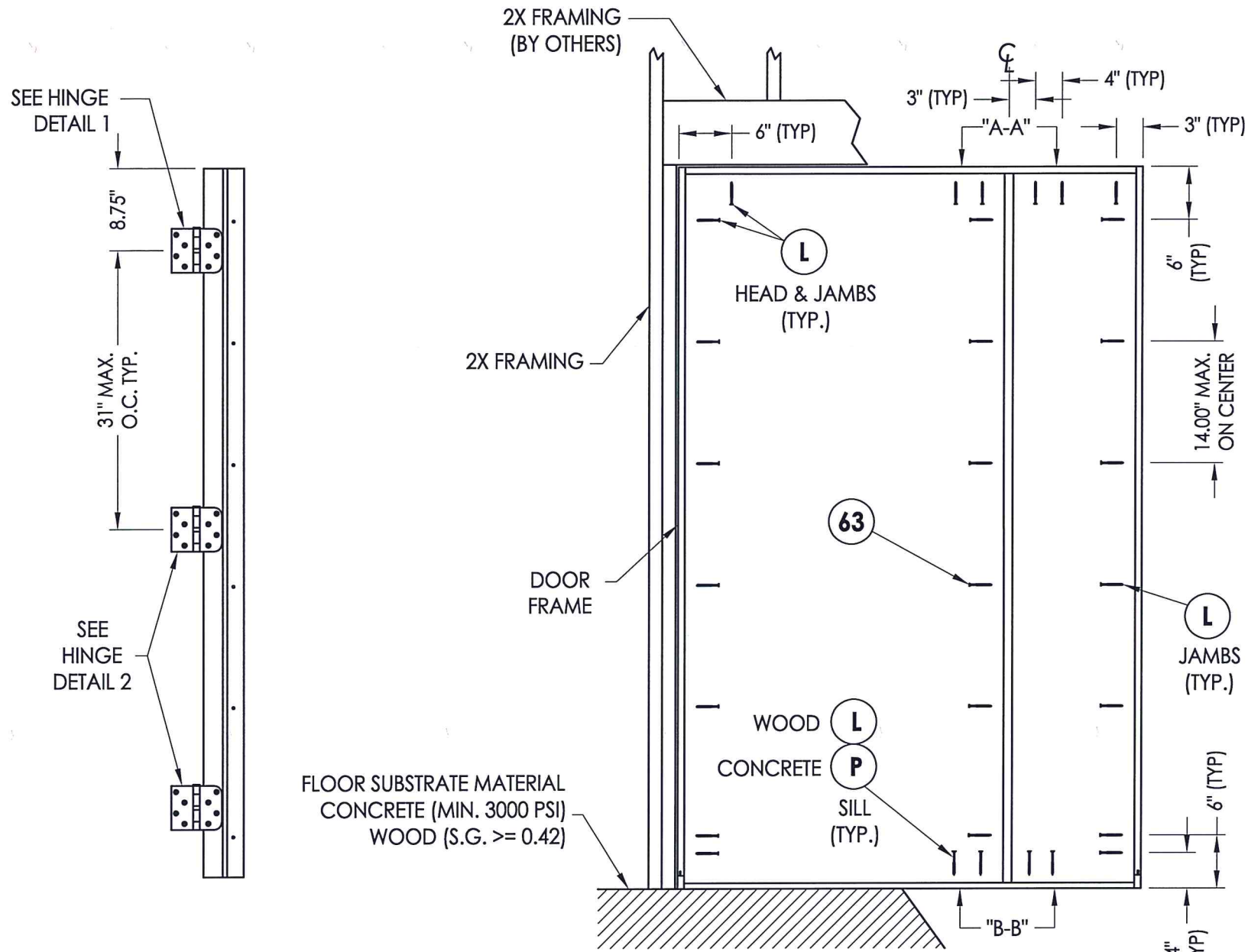
L WOOD
P CONCRETE



WOOD **L**
 CONCRETE **P**
4 VERTICAL CROSS SECTION
6 Inswing sill

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

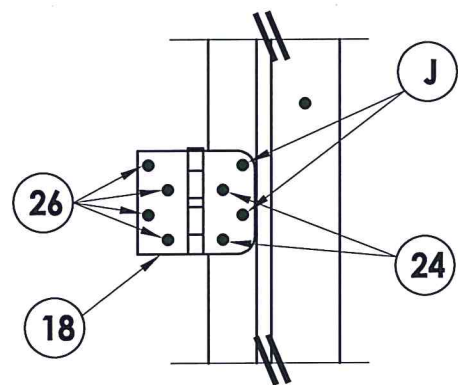
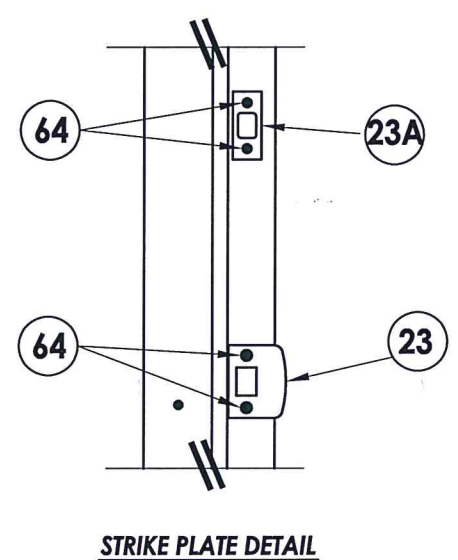
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 DRAWING NO.: TX-589
 SHEET 6 OF 9



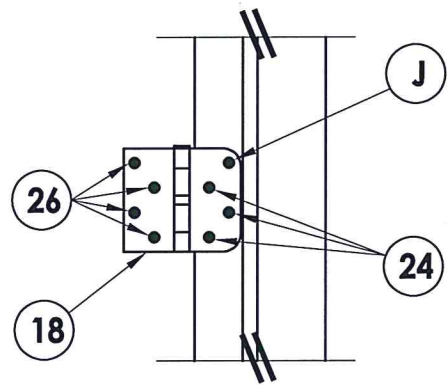
HINGE JAMB

FRAME ANCHORING
Stud construction

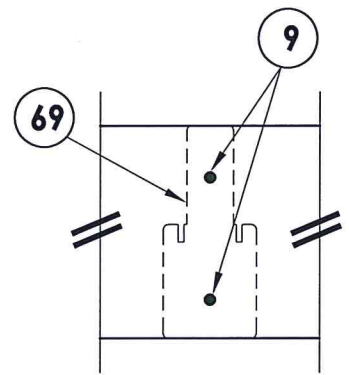
STRIKE MULLION



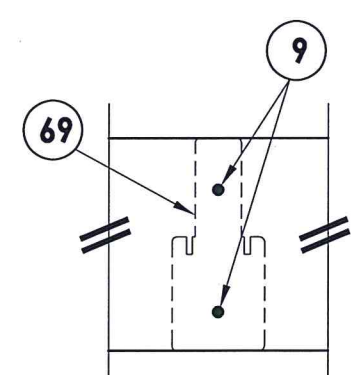
HINGE DETAIL 1



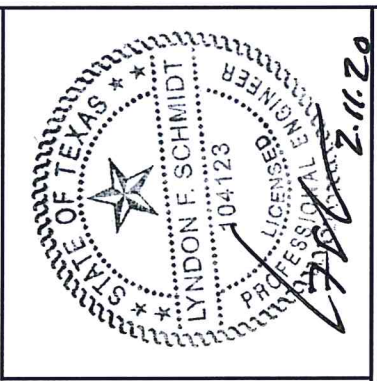
HINGE DETAIL 2



VIEW A-A



VIEW B-B



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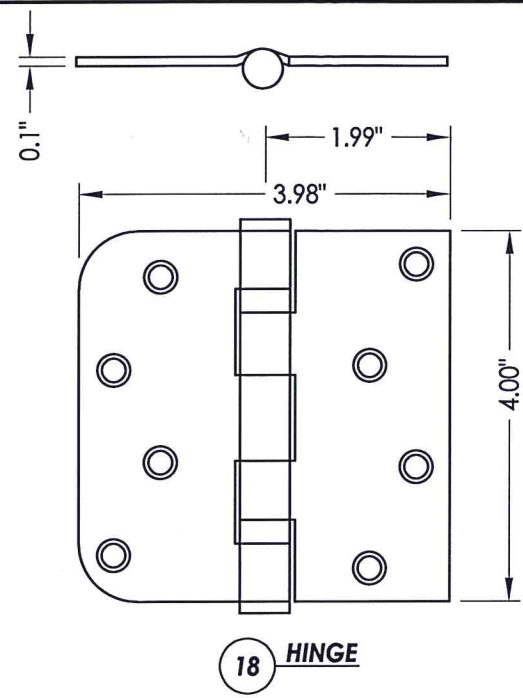
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
6 8 PREMIUM OPAQUE

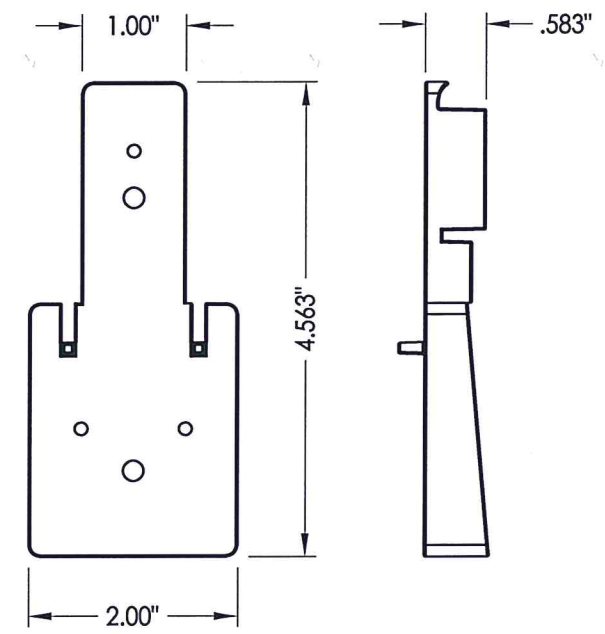
PART OR ASSEMBLY: FRAME ANCHORING

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

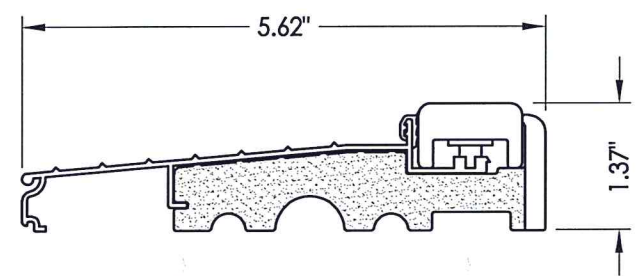
DATE: 8/25/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-589
SHEET 7 OF 9



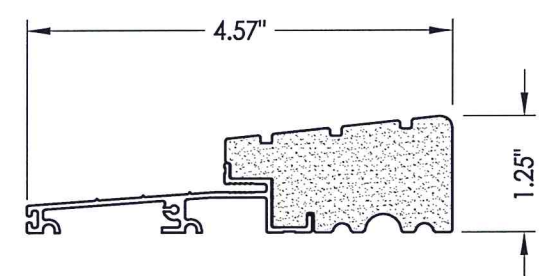
18 HINGE



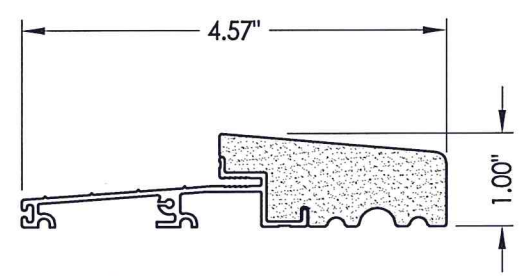
69 MULLION BASE KIT
Optional



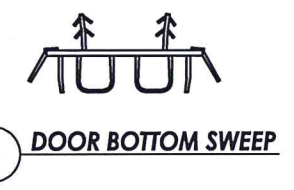
5 INSWING THRESHOLD



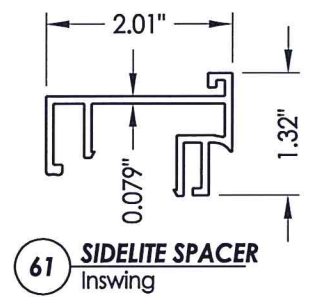
25 OUTSWING THRESHOLD
High-dam option



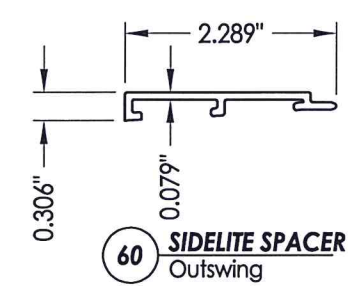
27 OUTSWING THRESHOLD



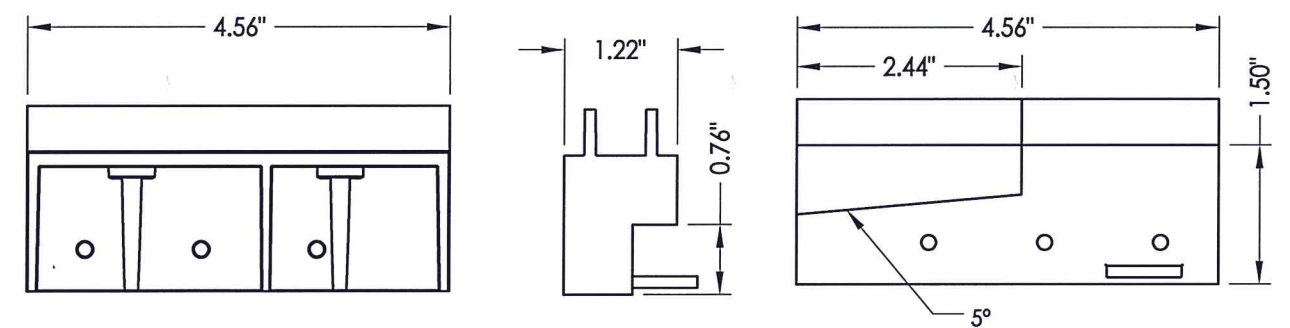
6 DOOR BOTTOM SWEEP



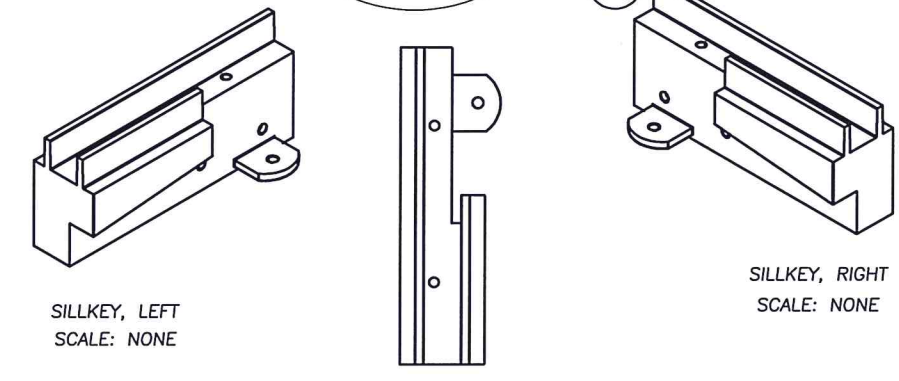
61 SIDELITE SPACER
Inswing



60 SIDELITE SPACER
Outswing

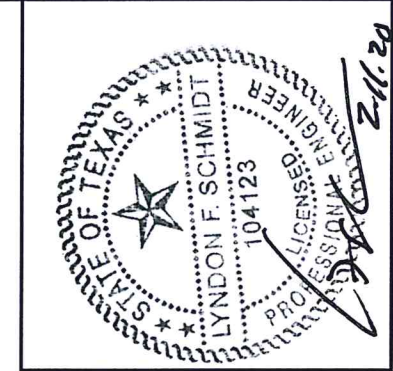
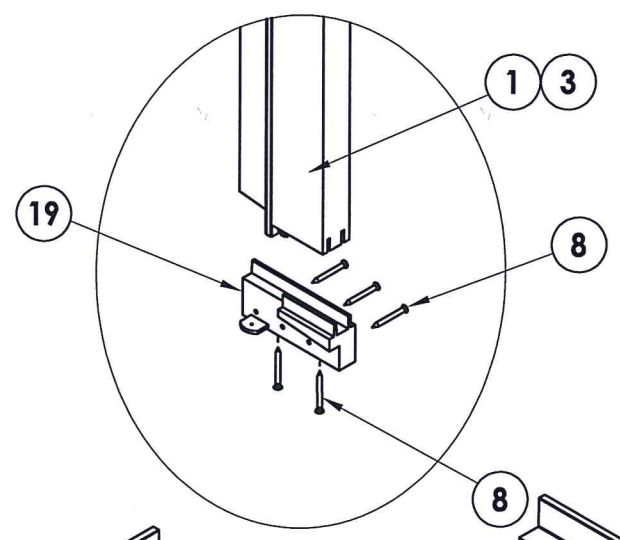


19 SILLKEY DETAILS
Optional



SILLKEY, LEFT
SCALE: NONE

SILLKEY, RIGHT
SCALE: NONE



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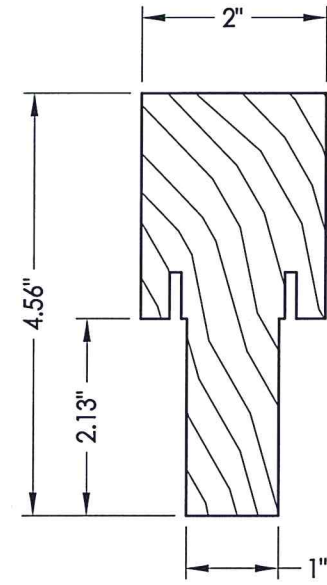
PART OR ASSEMBLY: COMPONENTS

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

DATE: 8/25/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-589
SHEET 8 OF 9

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
1	SIDELITE 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
9	#9 X 2-1/4" PFH WOOD 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
39	FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,203 PSI MIN.)	FIBERGLASS
40	#8 X 1-1/8" SELF THREDDING SCREW	STEEL
42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
44	HOT MELT SEALANT / SILICONE	-
45	LITE FRAME	PC/ASA
46	DOOR PANEL CORE FOAMED	POLYURETHANE
60	SIDELITE SPACER - OUTSWING	PVC
61	SIDELITE SPACER - INSWING	PVC
62	QUARTER ROUND	WOOD
63	#8 x 2-1/4" PFH SCREW	STEEL
64	#8 x 2" PFH SCREW	STEEL
66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
67	INTEGRAL MULLION - FINGER JOINT PINE (SG >= 0.42)	WOOD
69	MULLION BASE KIT	PC/ASA
73	LVL SIDELITE TOP RAIL (FULL LITE)	POPLAR
74	LVL SIDELITE BOTTOM RAIL (FULL LITE)	POPLAR
75	LVL SIDELITE STILE (FULL LITE)	POPLAR



67 INTEGRAL MULLION

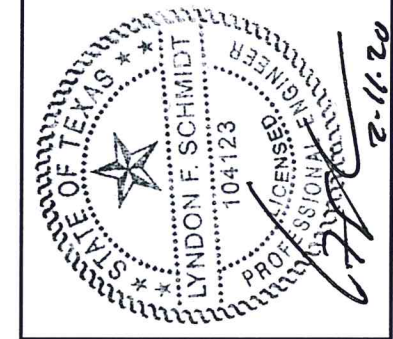
CONCRETE ANCHOR NOTES:

- 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.



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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 & COMPONENTS

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: 8/25/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-589
SHEET 9 OF 9