



**TRINITY GLASS**  
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

# GLAZED PREMIUM FIBERGLASS DOUBLE DOOR w/ SIDELITES IN SWING / OUT SWING "NON-IMPACT"

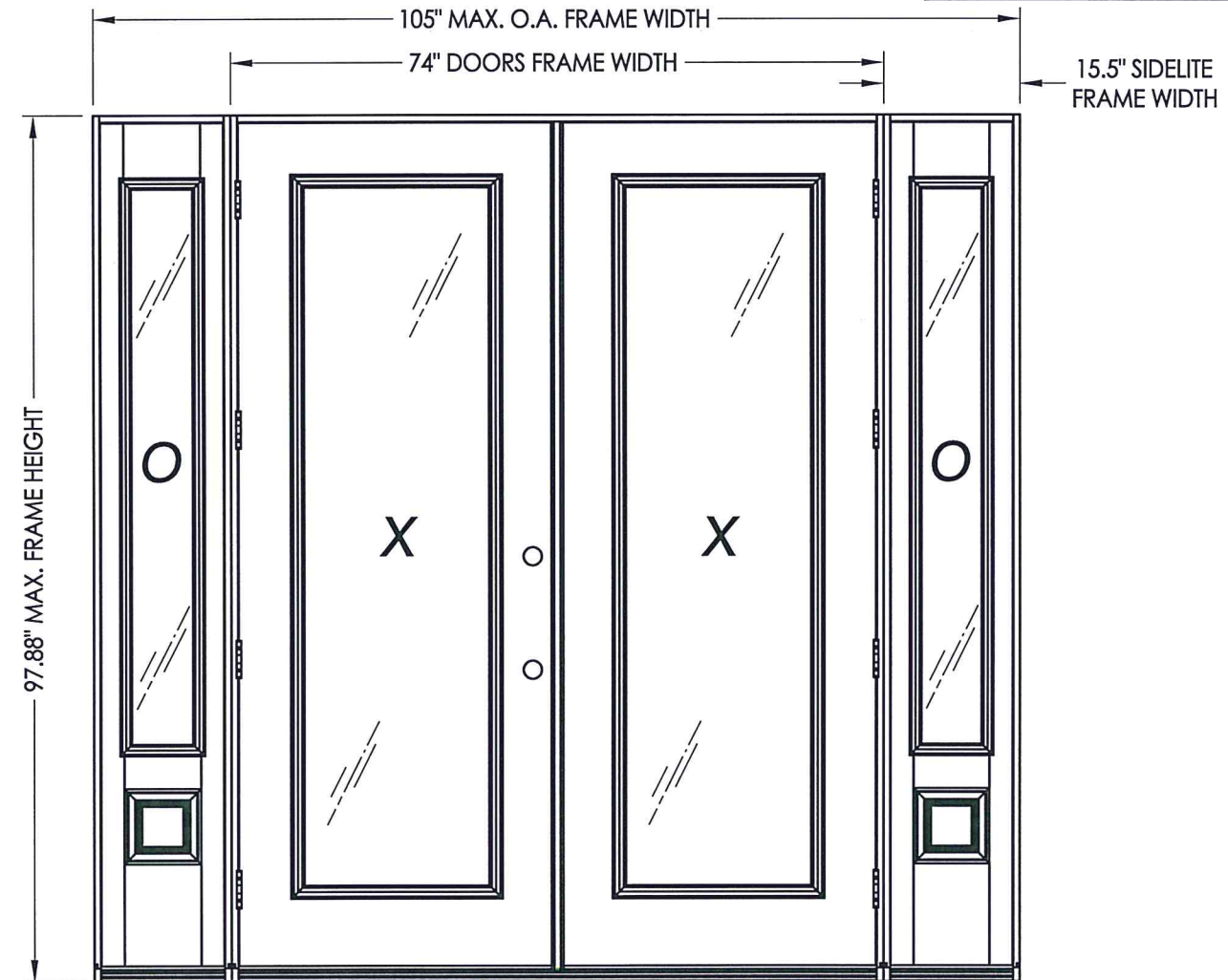
EVALUATED FOR USE IN THE STATE OF TEXAS

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 sidelites 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.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing 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



DOUBLE with BOXED SIDELITES

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE PSF)	
			POSITIVE	NEGATIVE
IN SWING	105.0" x 97.88"	G1	+40.0	-40.0
OUT SWING	105.0" x 96.75"		+40.0	-40.0



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

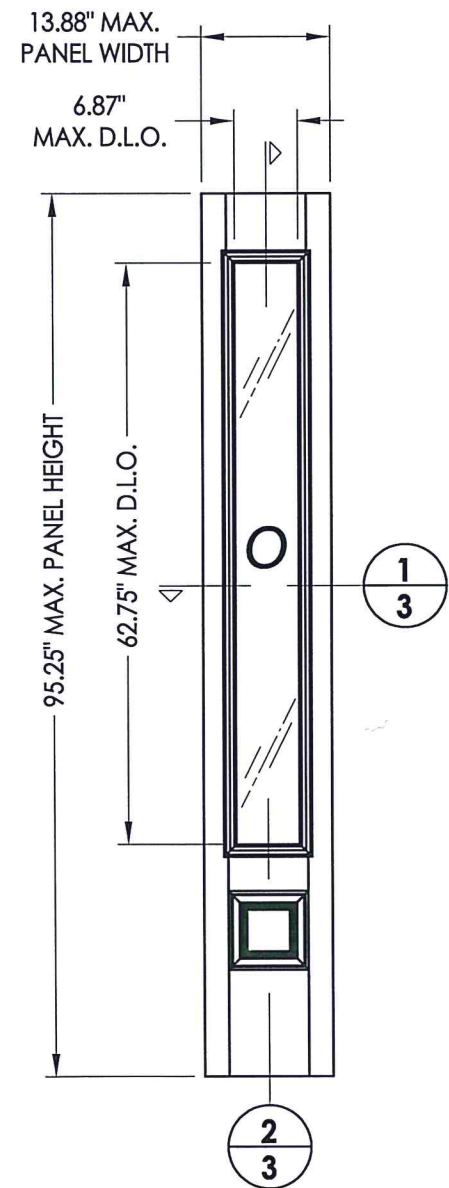
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L  
PREMIUM LIPLITE FIBERGLASS  
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN  
PRESSURES & GENERAL NOTES

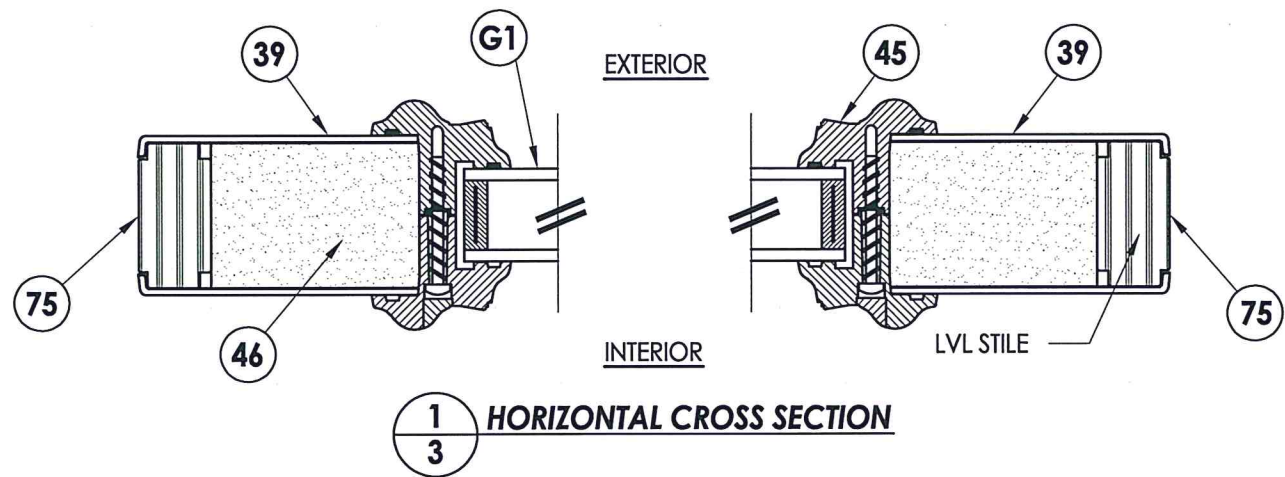
NO.	DATE	BY	REVISIONS

DATE: 8/11/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5234  
SHEET 1 OF 9

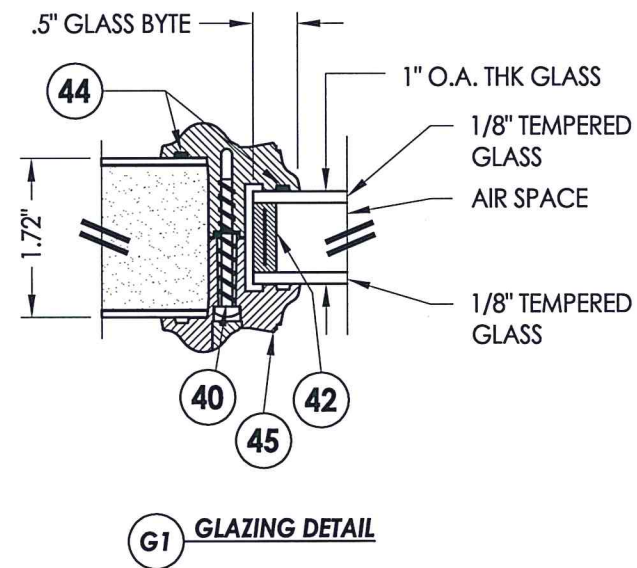




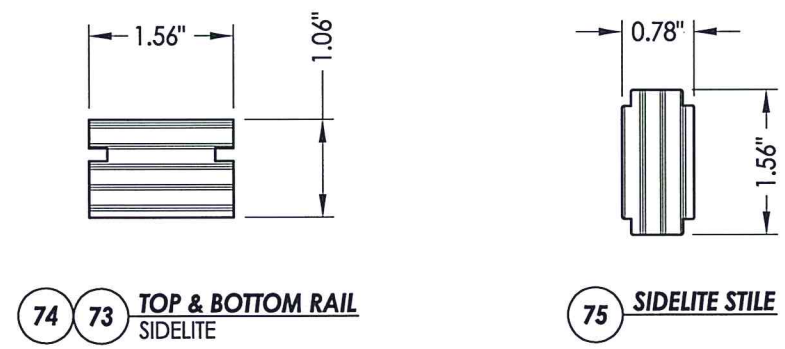
66 PREMIUM LIPLITE FIBERGLASS SIDELITE



1/3 HORIZONTAL CROSS SECTION

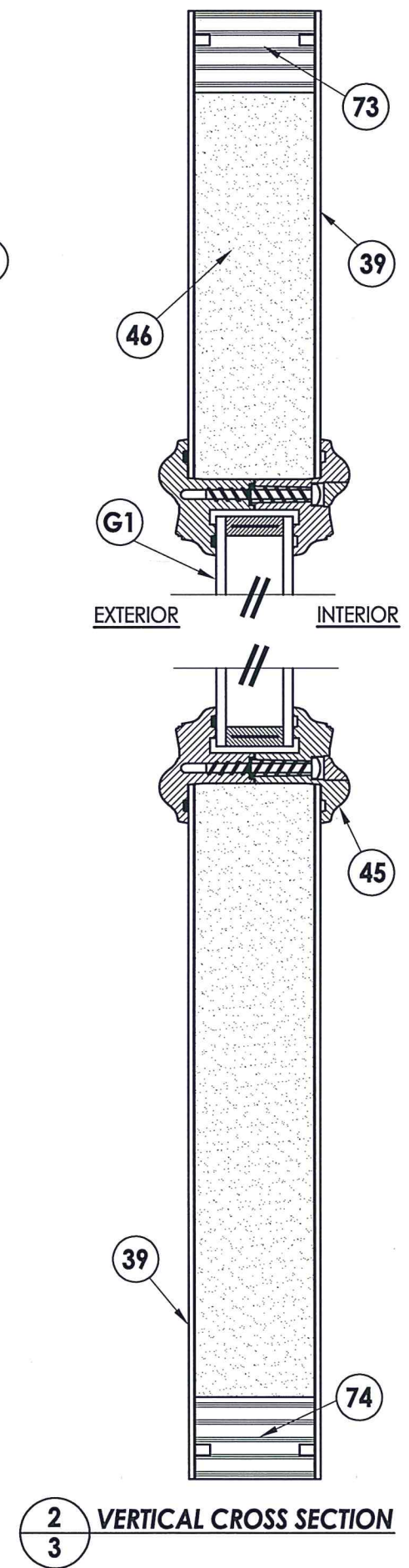


G1 GLAZING DETAIL



74 73 TOP & BOTTOM RAIL SIDELITE

75 SIDELITE STILE



2/3 VERTICAL CROSS SECTION



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PRODUCT: TRINITY GLASS INT'L  
PREMIUM LIPLITE FIBERGLASS  
PART OR ASSEMBLY: SIDELITE PANEL CONSTRUCTION  
DETAILS AND GLAZING DETAILS

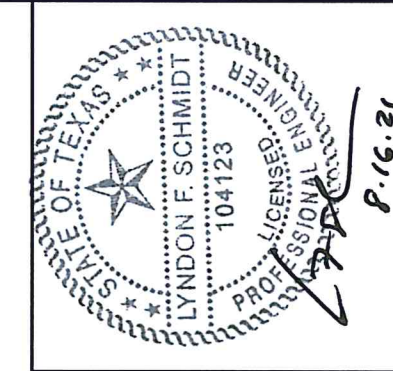
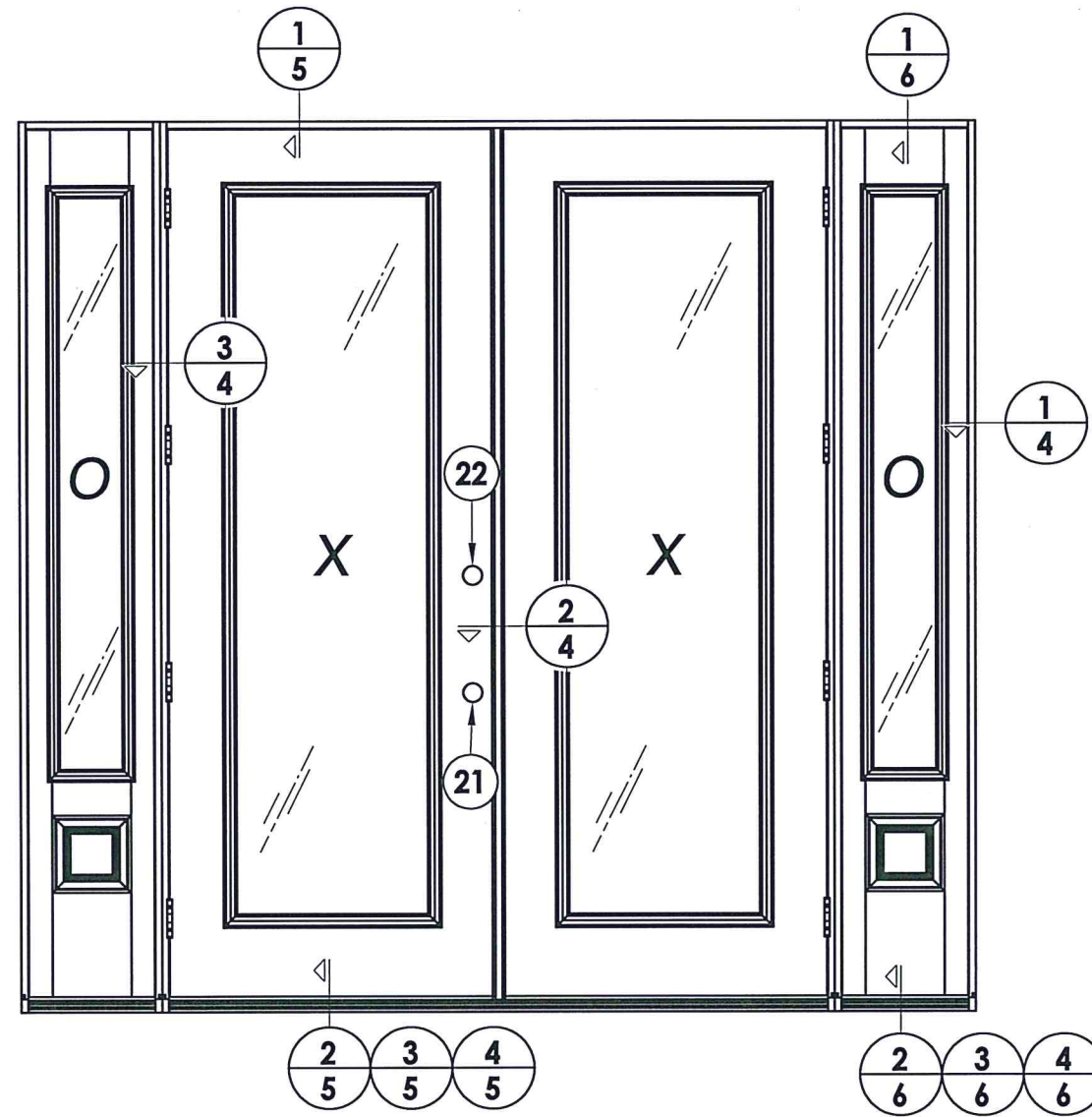
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DATE: 8/11/21  
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SHEET 3 OF 9

**NOTE:**

- Sidelite ass'y fastener: 6" from each end and 6 more screws equally spaced between (8 screws total per jamb).

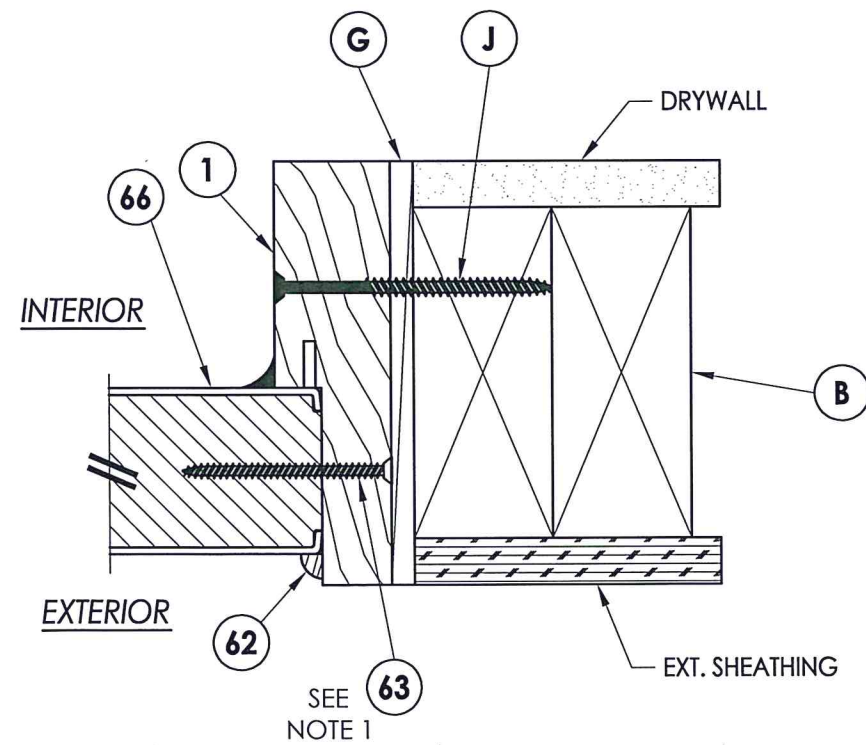
LOCK & DEADBOLT RATINGS CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 740	21
	DEADBOLT: 780	22



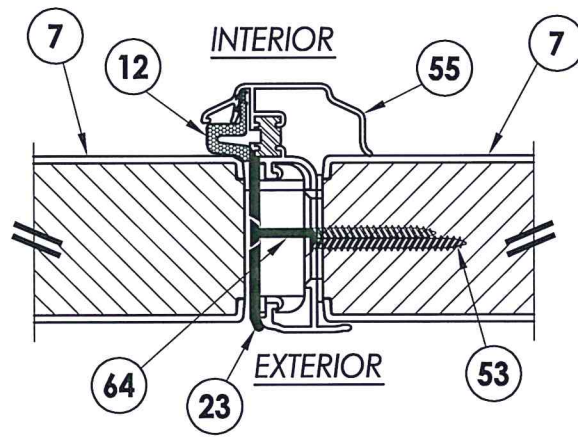
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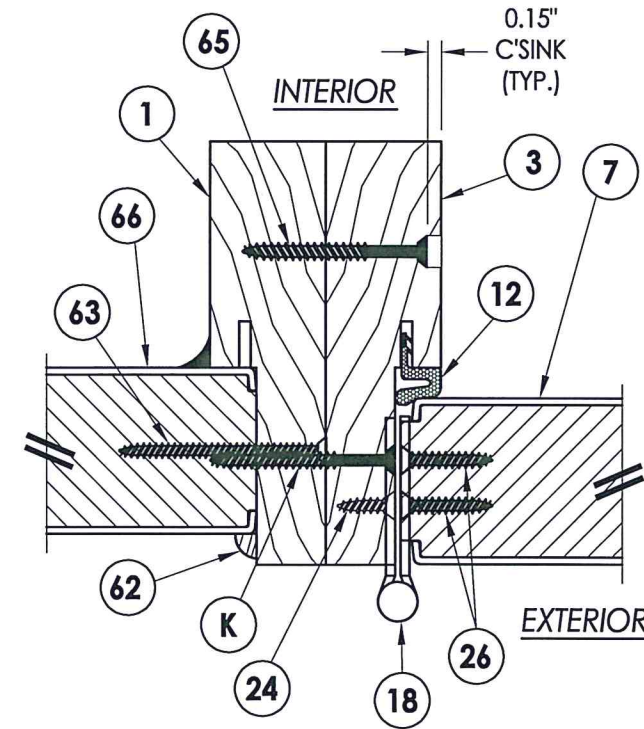
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**1 HORIZONTAL CROSS SECTION**  
4 Outswing shown  
Inswing also approved



**2 HORIZONTAL CROSS SECTION**  
4 Endura astragal



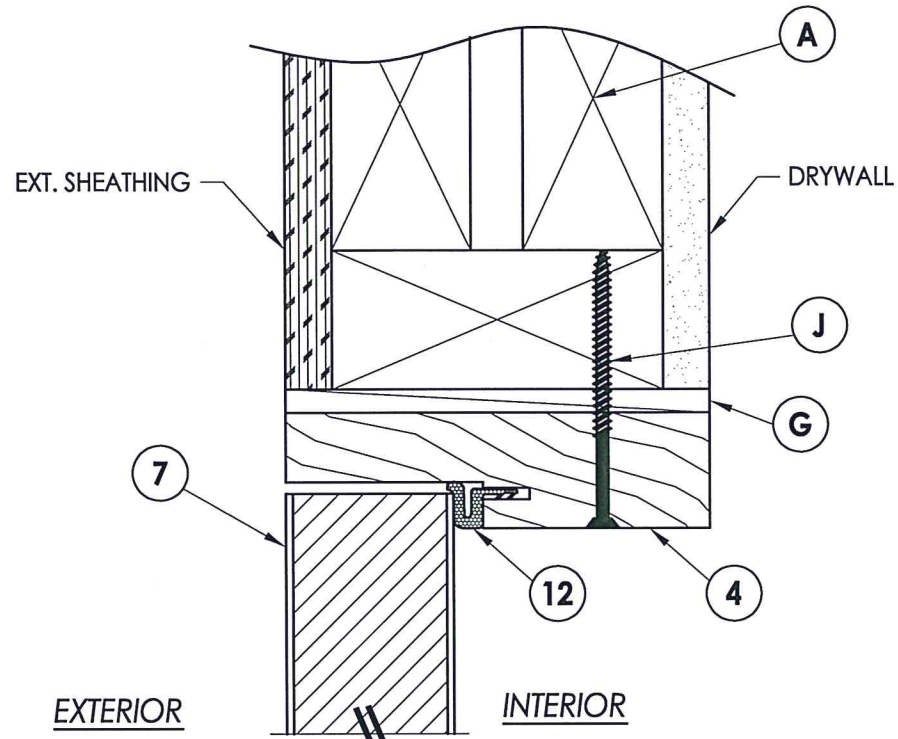
**3 HORIZONTAL CROSS SECTION**  
4 Outswing shown  
Inswing also approved

PRODUCT: TRINITY GLASS INT'L  
PREMIUM LIPLITE FIBERGLASS

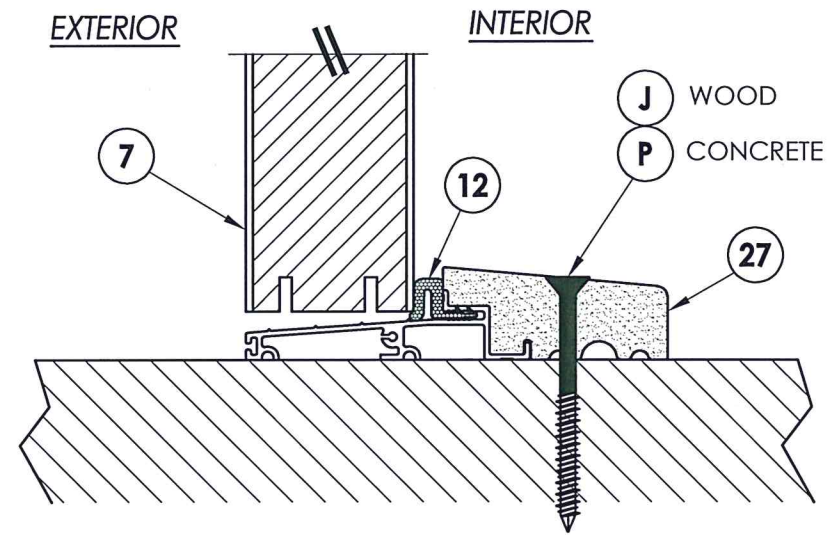
PART OR ASSEMBLY:  
HORIZONTAL CROSS SECTIONS

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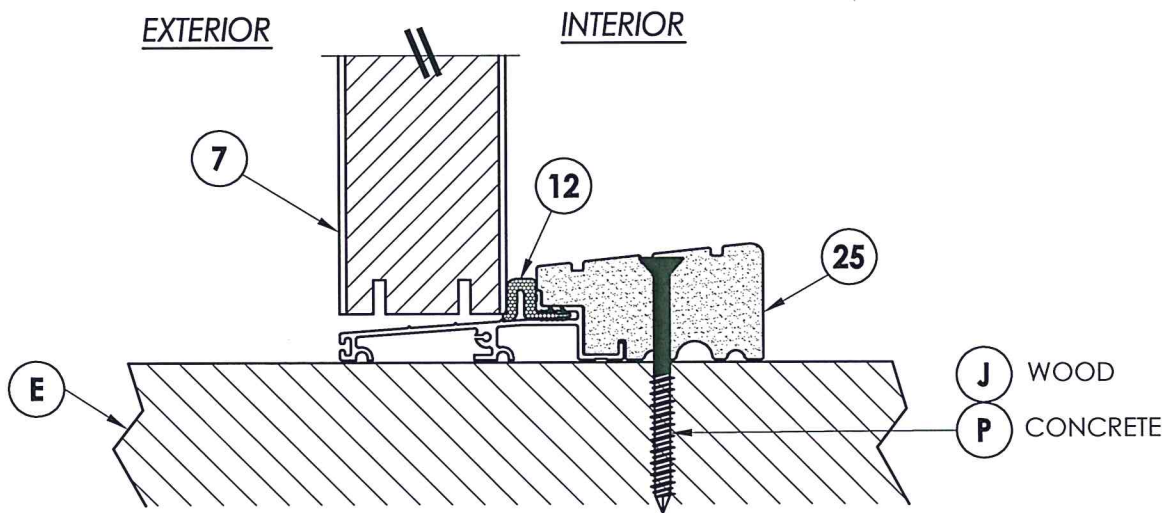
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SCALE: N.T.S.  
DWG. BY: RW  
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DRAWING NO.: TX-5234  
SHEET 4 OF 9



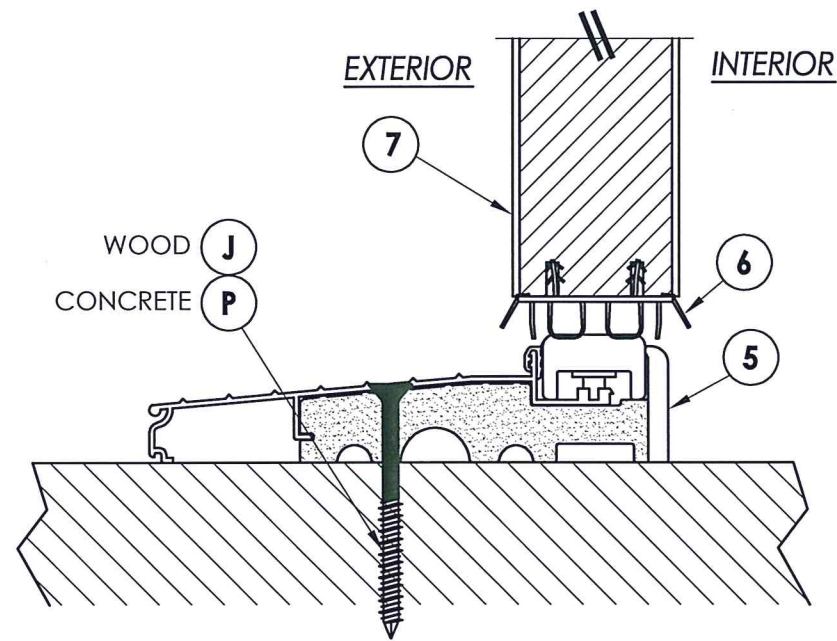
**1 VERTICAL CROSS SECTION**  
**5** Outswing shown  
 Inswing also approved



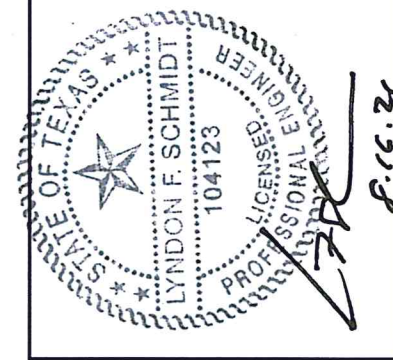
**2 VERTICAL CROSS SECTION**  
**5** Outswing configuration



**3 VERTICAL CROSS SECTION**  
**5** Outswing configuration



**4 VERTICAL CROSS SECTION**  
**5** Inswing configuration



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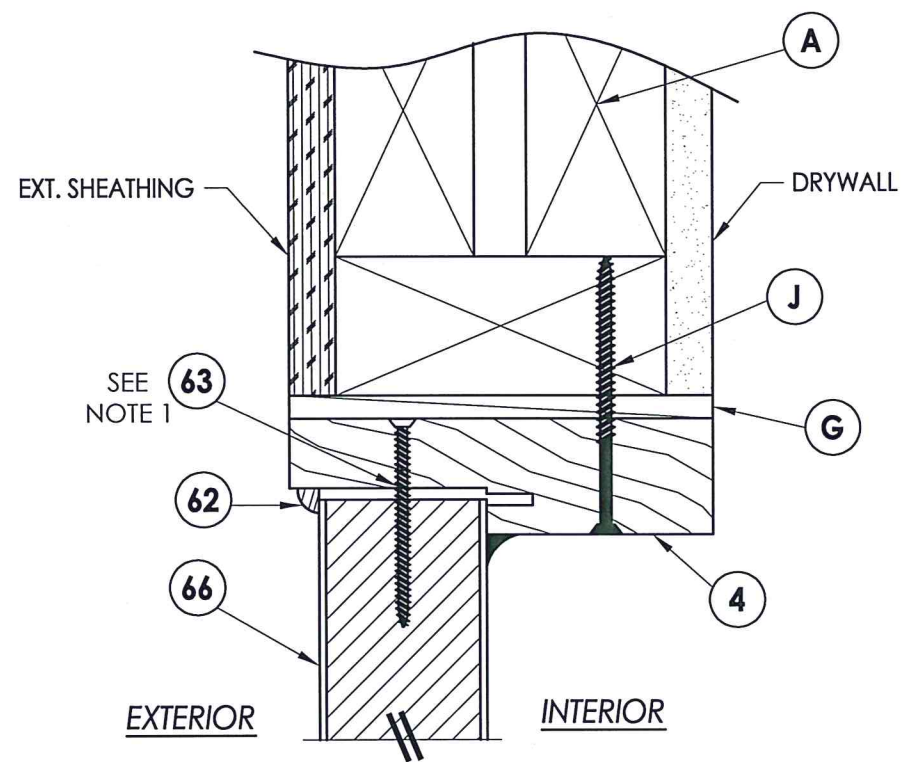
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PRODUCT: TRINITY GLASS INT'L  
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 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

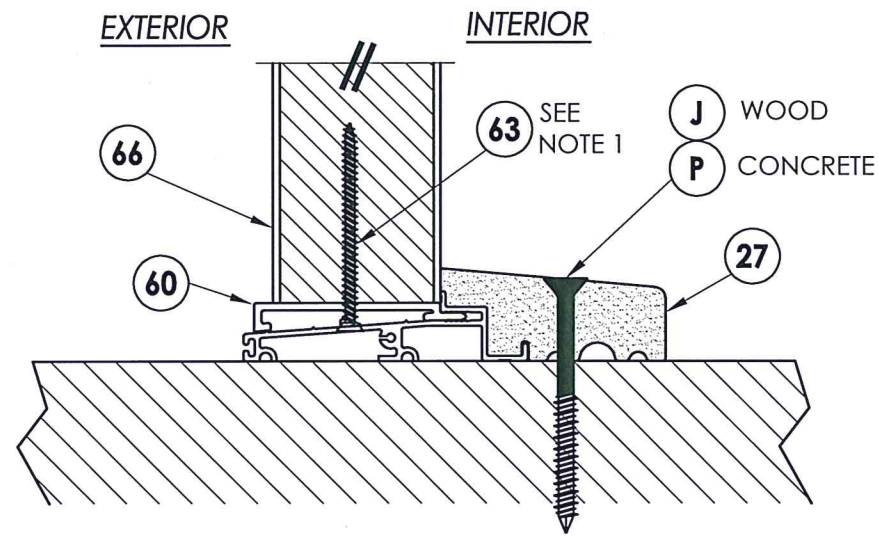
NO.	DATE	BY

DATE: 8/11/21  
 SCALE: N.T.S.  
 DWG. BY: RW  
 CHK. BY: LFS  
 DRAWING NO.: TX-5234  
 SHEET 5 OF 9

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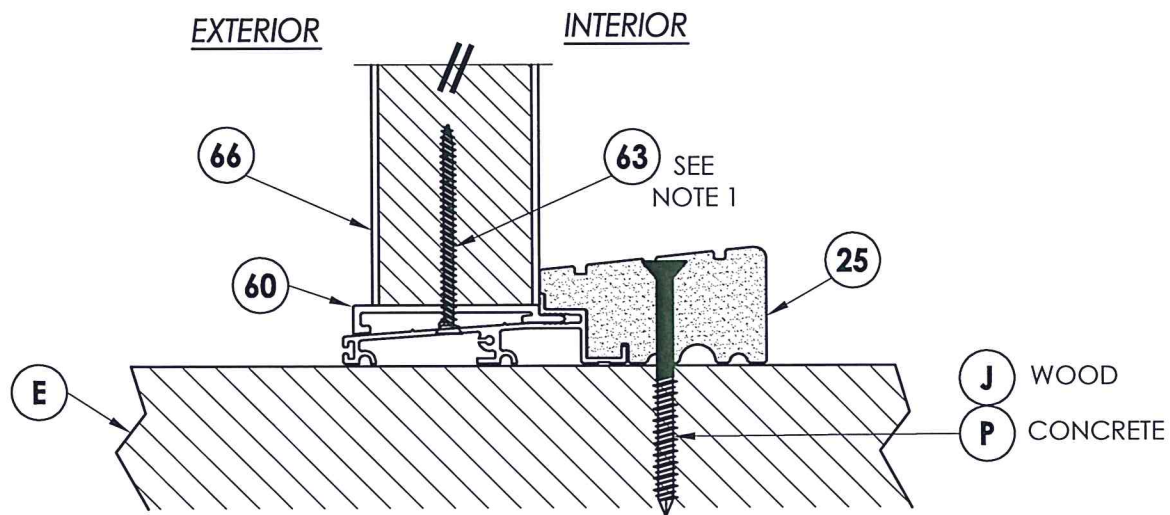
**1** VERTICAL CROSS SECTION  
**6**



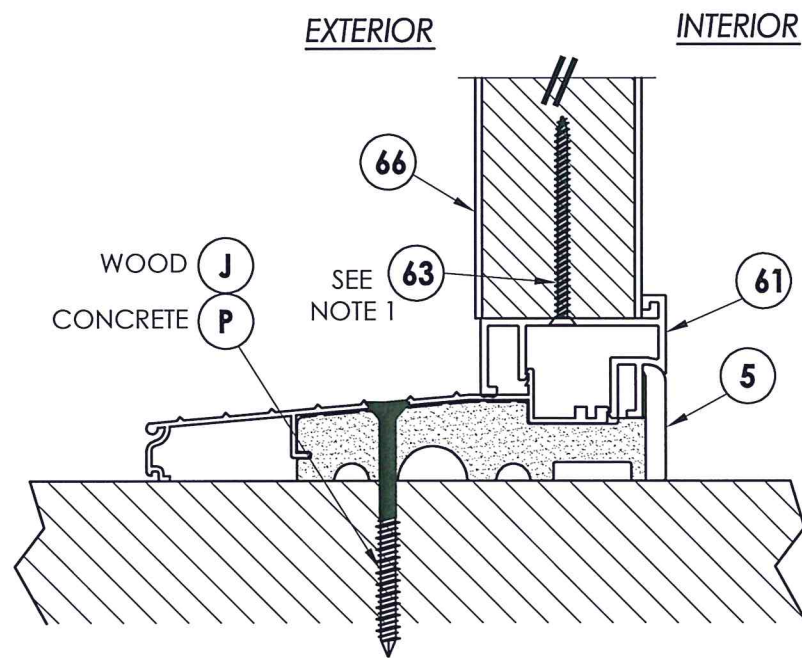
**2** VERTICAL CROSS SECTION  
**6** Outswing sill

NOTE:

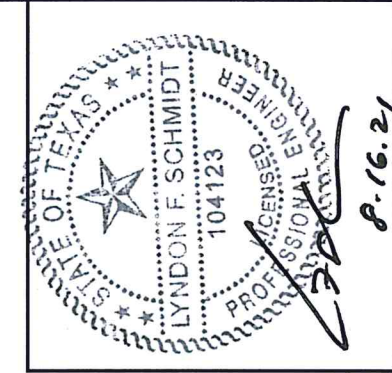
- Screws thru head and sill jamb located 3" from each end and O.C. (TYP.) line.



**3** VERTICAL CROSS SECTION  
**6** Outswing sill - high dam



**4** VERTICAL CROSS SECTION  
**6** Inswing sill



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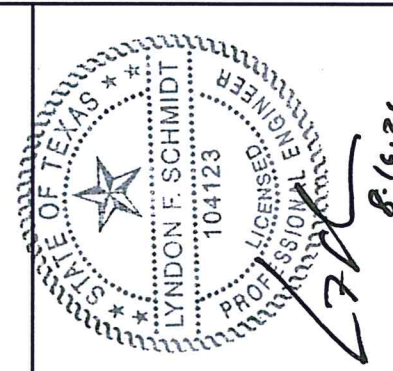
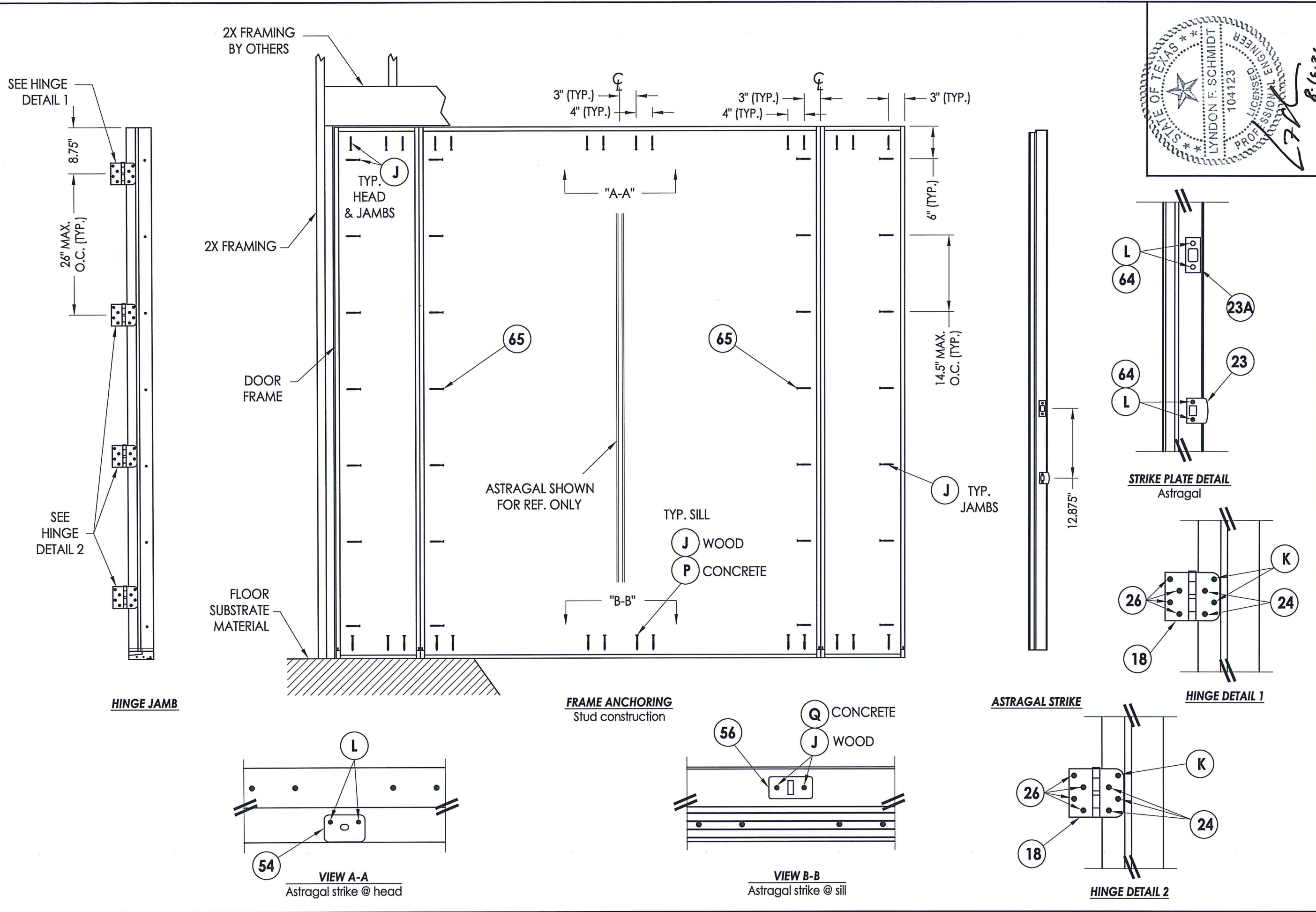
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS  
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 8/11/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5234  
SHEET 6 OF 9

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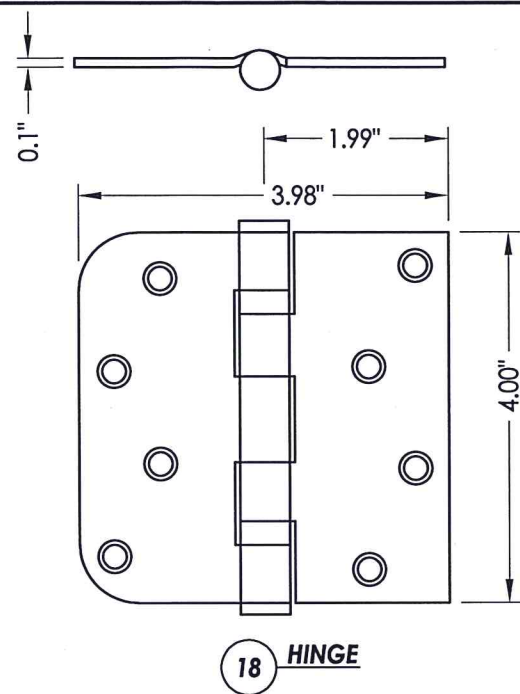
PRODUCT: TRINITY GLASS INT'L  
 PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY: FRAME ANCHORING

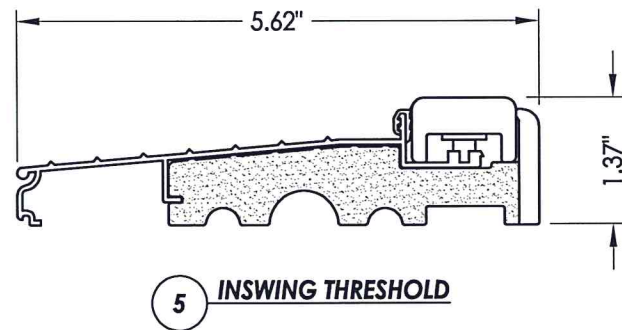
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 DWG. BY: RW  
 CHK. BY: LFS  
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 SHEET 7 OF 9

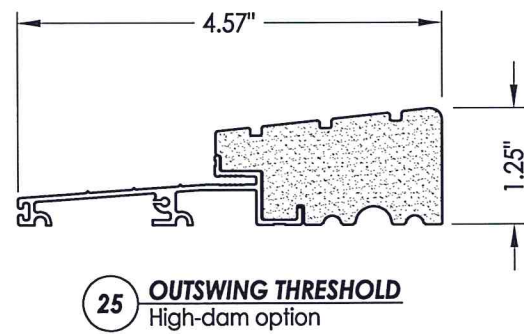
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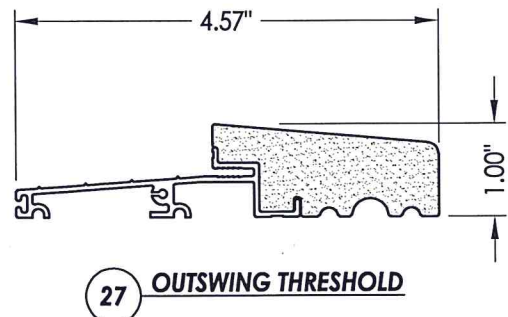
18 HINGE



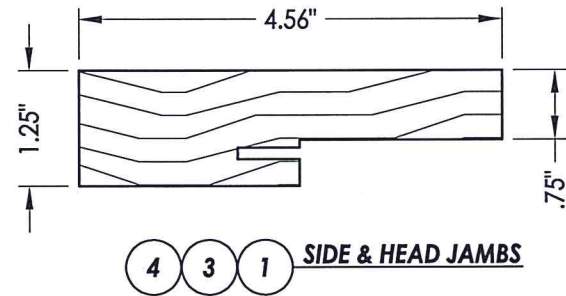
5 INSWING THRESHOLD



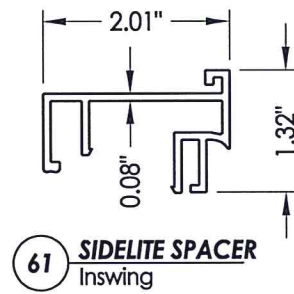
25 OUTSWING THRESHOLD  
High-dam option



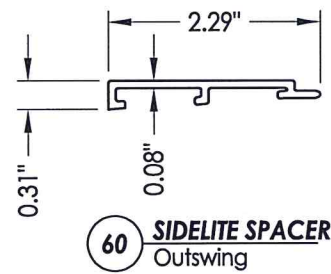
27 OUTSWING THRESHOLD



4 3 1 SIDE & HEAD JAMBS



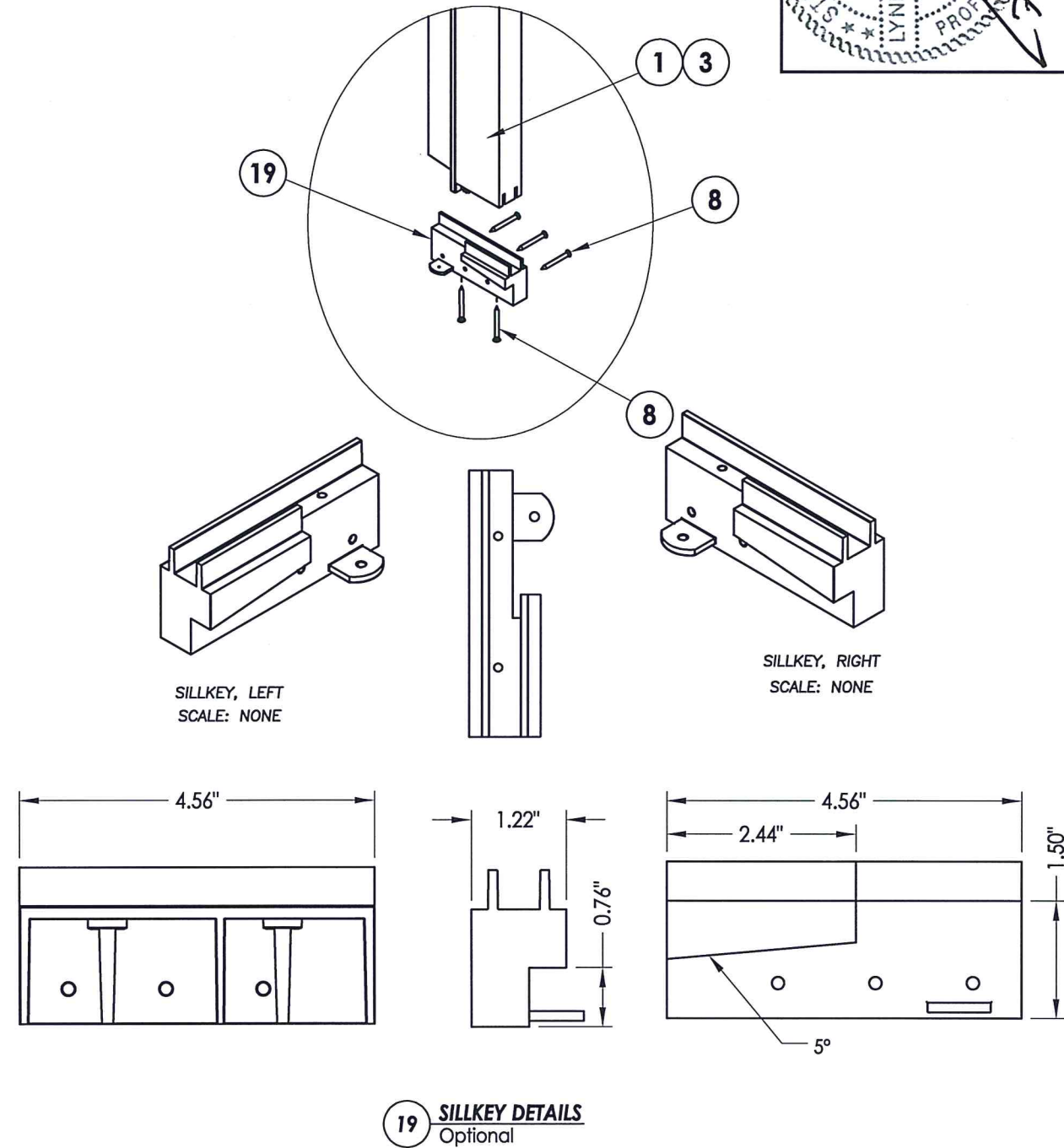
61 SIDELITE SPACER  
Inswing



60 SIDELITE SPACER  
Outswing



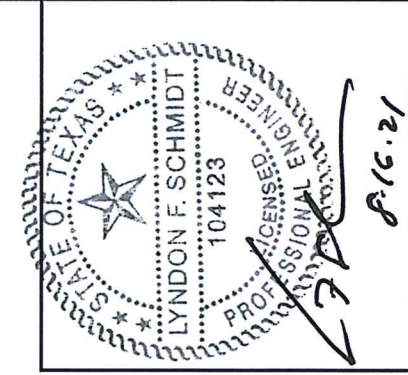
6 DOOR BOTTOM SWEEP



19 SILLKEY DETAILS  
Optional

SILLKEY, RIGHT  
SCALE: NONE

SILLKEY, LEFT  
SCALE: NONE



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P.O. Box 230 Vairco FL 35595  
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PRODUCT:	TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY:	COMPONENTS

NO.	DATE	BY	REVISIONS

DATE:	8/11/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5234
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
I	3/16" X 1-3/4" ITW CONCRETE SCREW	STEEL
J	#10 X 3" PFH WS (1-1/2" MIN. EMBEDMENT)	STEEL
K	#9 X 2" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
P	1/4" FH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
Q	3/16" FH ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
1	SIDELITE JAMB - FINGER-JOINT PINE	WOOD
3	HINGE JAMB - FINGER-JOINT PINE	WOOD
4	HEAD - FINGER-JOINT PINE	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" 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 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
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
40	#8 X 1-1/8" SELF THREADING SCREW	STEEL
42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
44	HOT MELT SEALANT / SILICONE	-
45	LITE FRAME	PC/ASA
46	INSULATING FOAM CORE	POLYURETHANE
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

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
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 WOOD SCREW	STEEL
65	#10 X 2" PFH SCREW	STEEL
66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
73	LVL SIDELITE TOP RAIL	POPLAR
74	LVL SIDELITE BOTTOM RAIL	POPLAR
75	LVL SIDELITE STILE	POPLAR

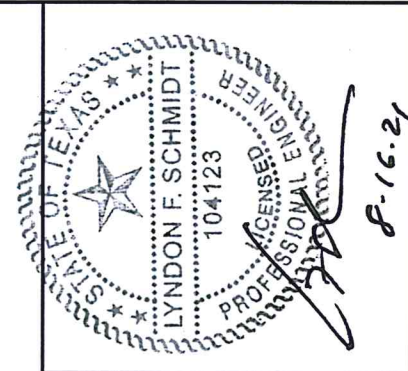
**CONCRETE ANCHOR NOTES:**

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. O.C. (TYP.)" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. O.C. (TYP.)" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2"	4"
DeWALT ULTRACON+	1/4"	1-3/4"	1"	4"
ITW TAPCON®	3/16"	1-3/4"	AS SHOWN	1-1/2"

**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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PART OR ASSEMBLY:	BILL OF MATERIALS		
NO.	DATE	BY	REVISIONS

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SHEET 9 OF 9