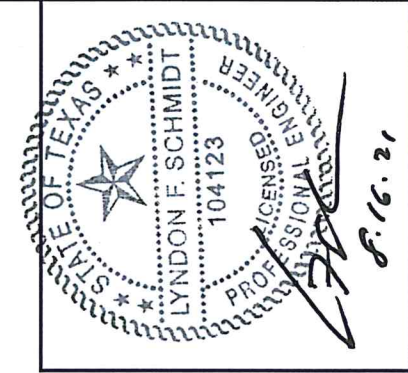




TRINITY GLASS
INTERNATIONAL
33615 1st Way S, Federal Way, WA 98003



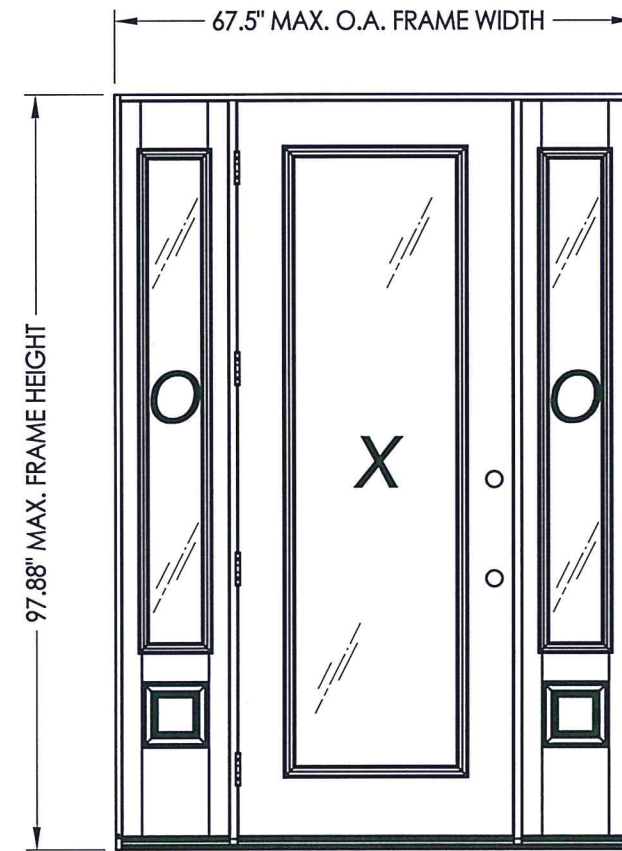
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

GLAZED PREMIUM FIBERGLASS SINGLE DOOR w/ SIDELITES INSWING / OUTSWING "NON-IMPACT"

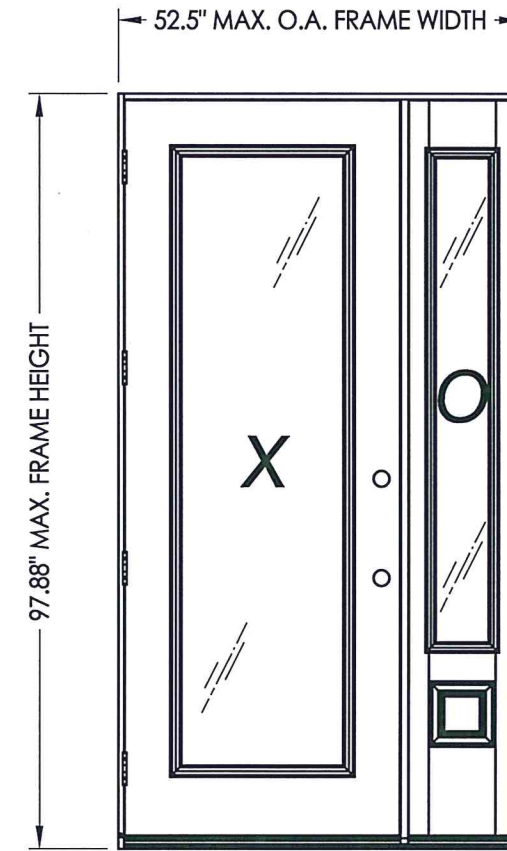
EVALUATED FOR USE IN THE STATE OF TEXAS

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.



SINGLE DOOR W/ SIDELITES (CHS)



SINGLE DOOR W/ SIDELITE (CHS)

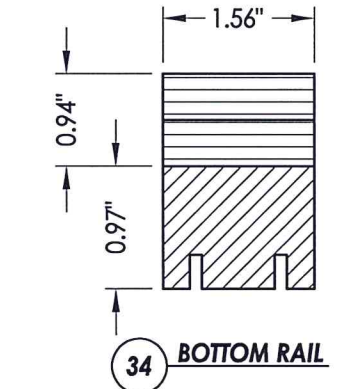
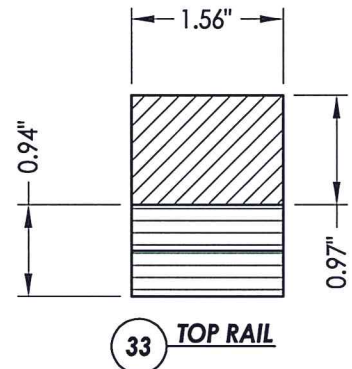
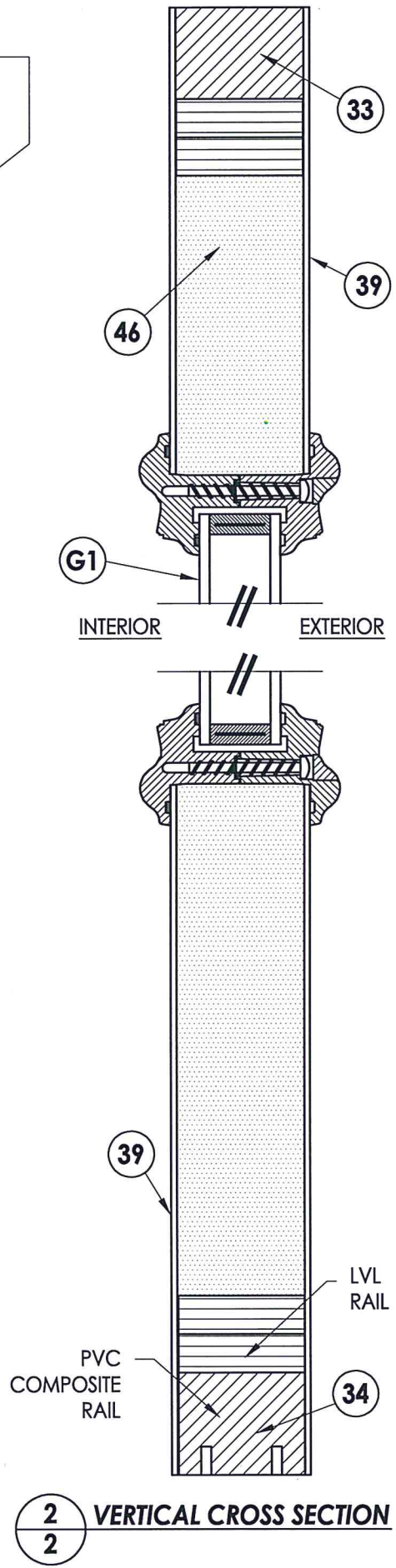
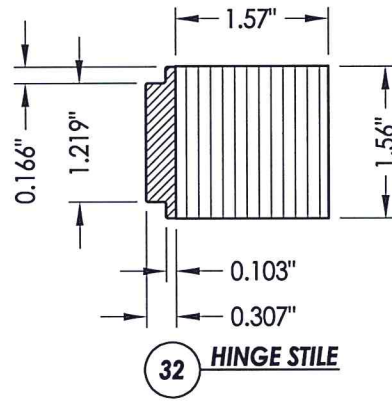
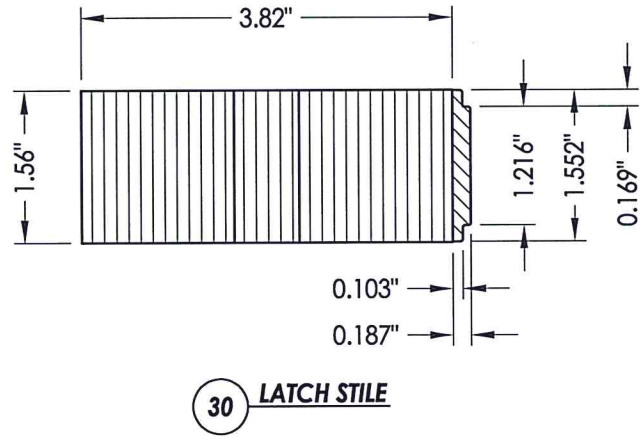
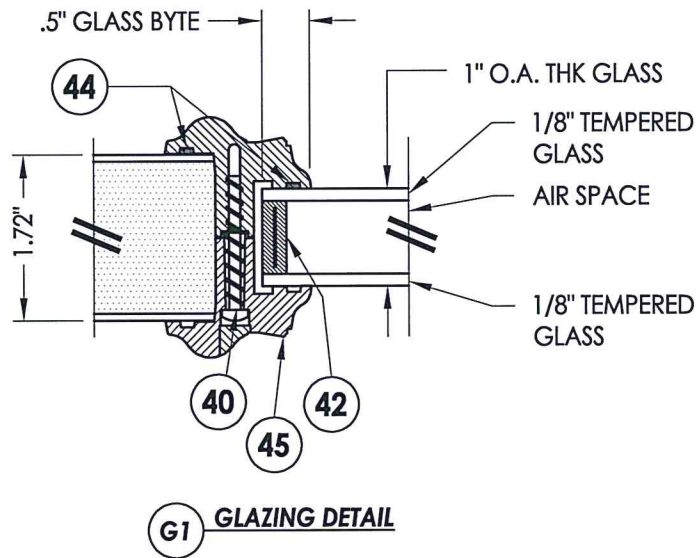
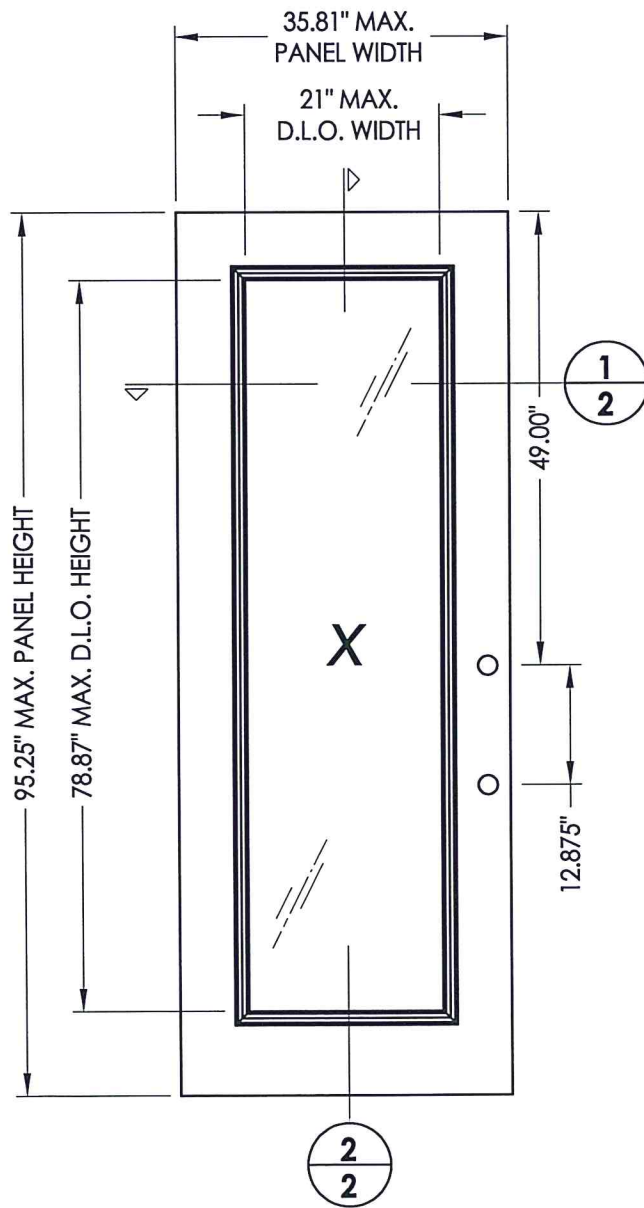
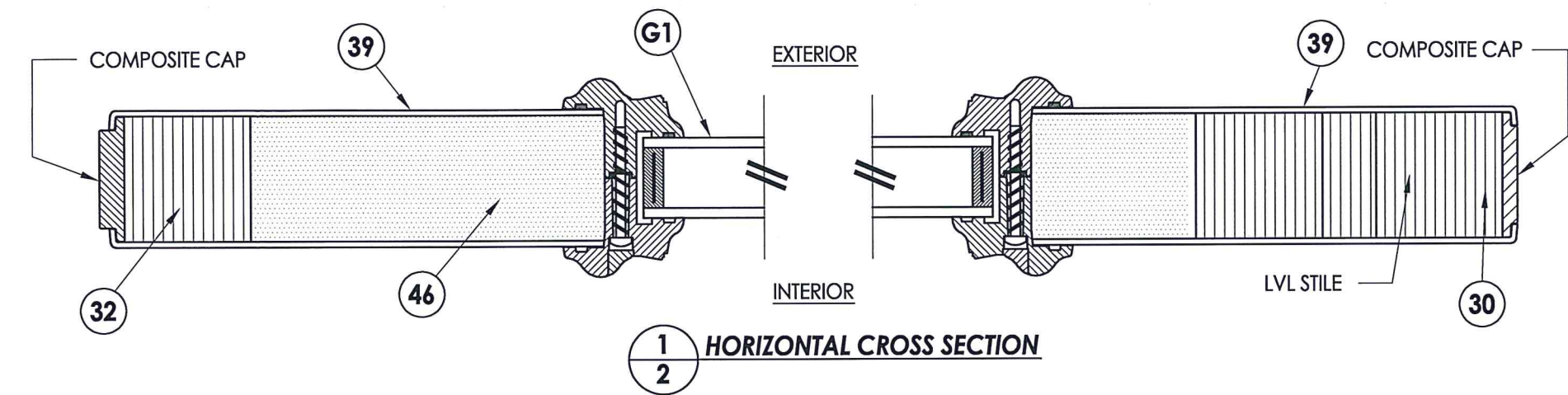
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing details
3	Sidelite panel construction details & glazing details
4	Horizontal cross sections
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Frame anchoring (XO)
9	Frame anchoring (OXO)
10	Components
11	Bill of materials

UNIT TYPE	SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
SINGLE w/ SIDELITES OXO	INSWING	67.5" x 97.88"	G1	+47.0	-47.0
	OUTSWING	67.5" x 96.75"		+47.0	-47.0
SINGLE w/ SIDELITE XO, OX	INSWING	52.5" x 97.88"		+47.0	-47.0
	OUTSWING	52.5" x 96.75"		+47.0	-47.0

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-5232
SHEET 1 OF 11



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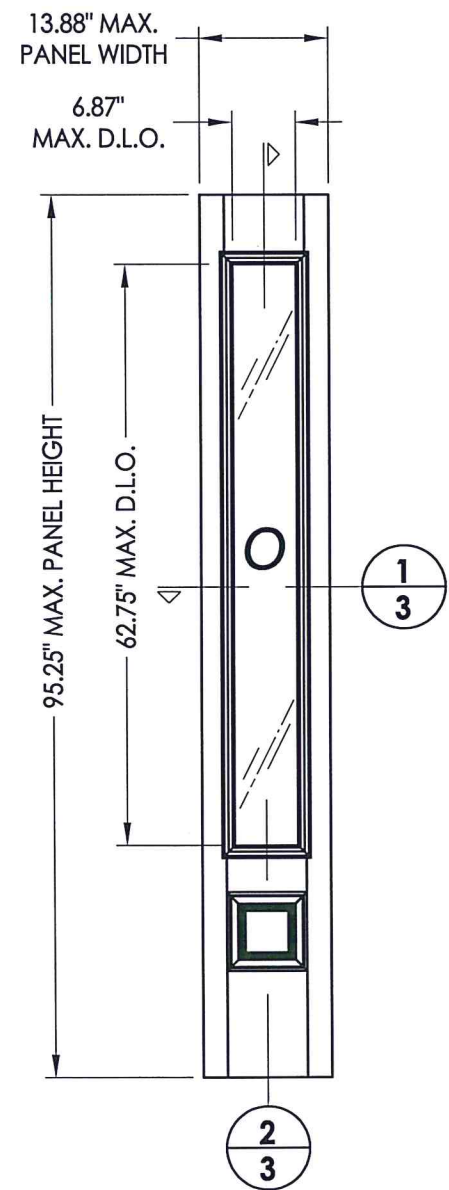
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

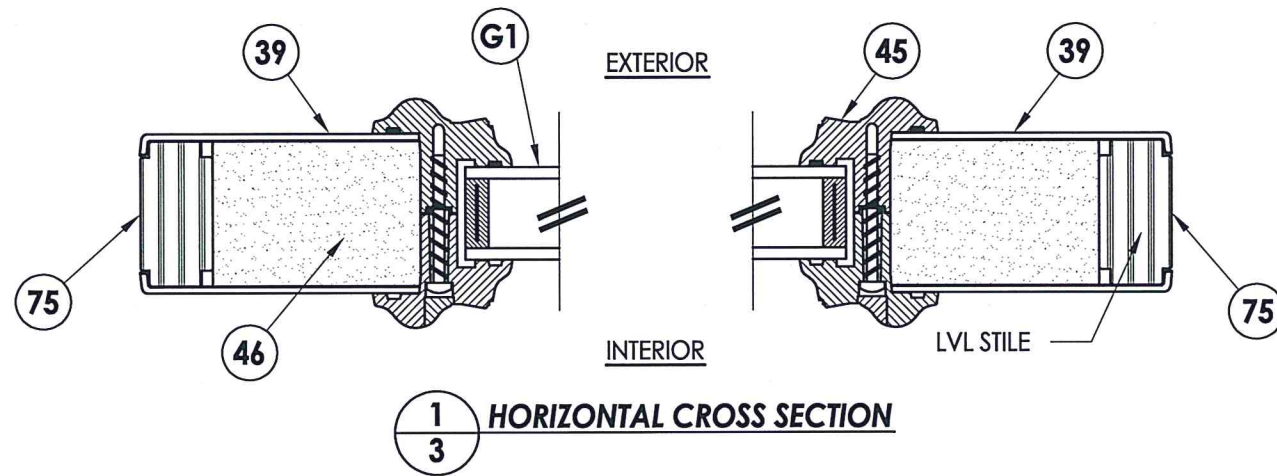
PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

NO.	DATE	BY

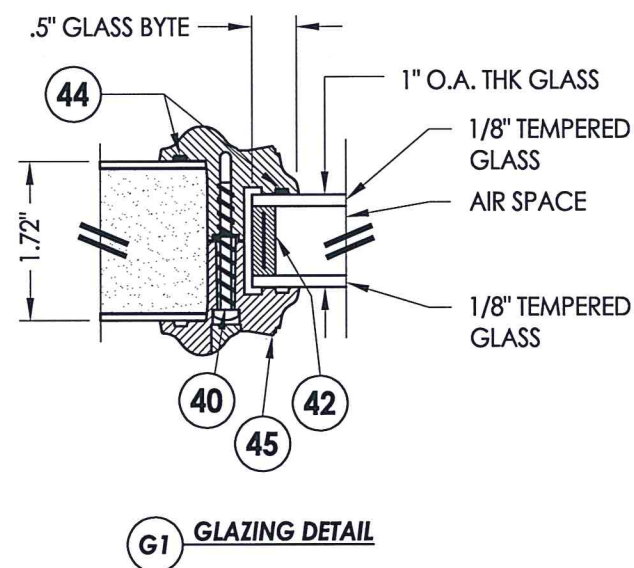
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 2 OF 11



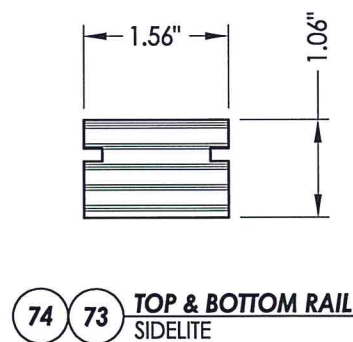
66 PREMIUM LIPLITE FIBERGLASS SIDELITE



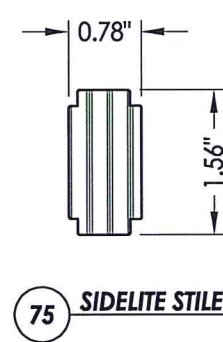
1/3 HORIZONTAL CROSS SECTION



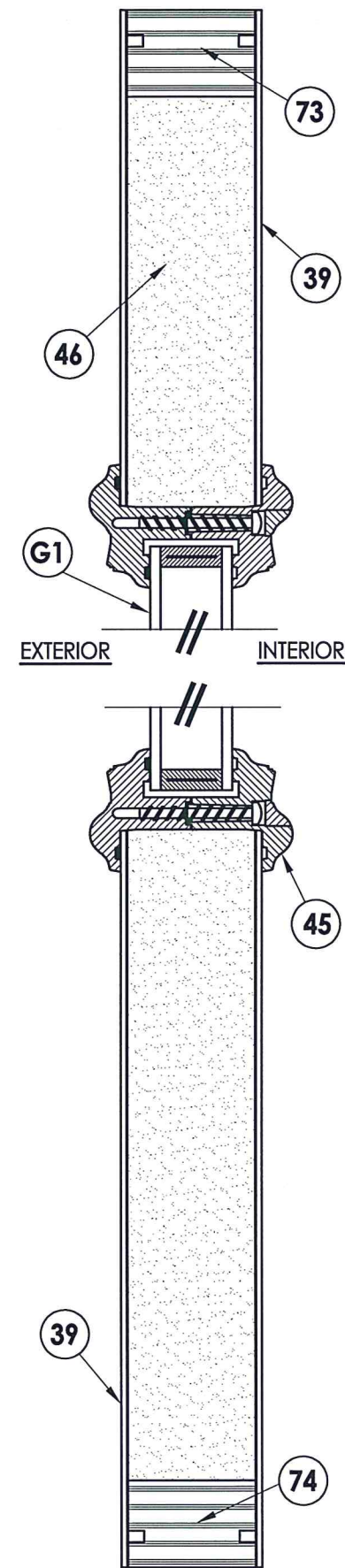
G1 GLAZING DETAIL



74 73 TOP & BOTTOM RAIL SIDELITE



75 SIDELITE STILE



2/3 VERTICAL CROSS SECTION



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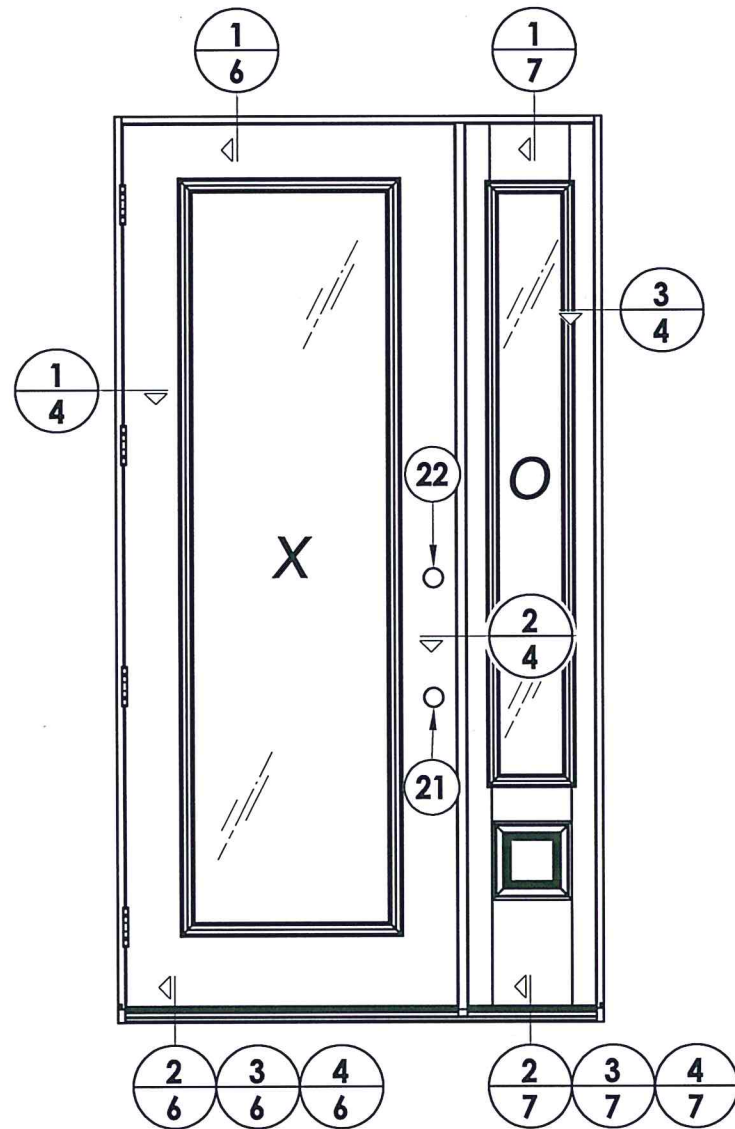
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY: SIDELITE PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

NO.	DATE	BY	REVISIONS

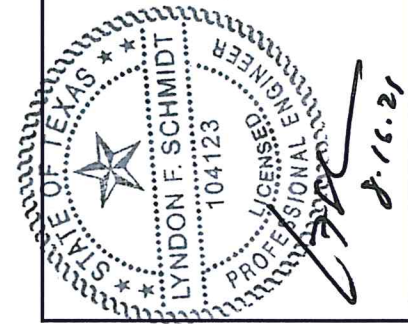
DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 3 OF 11

NOTE:

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

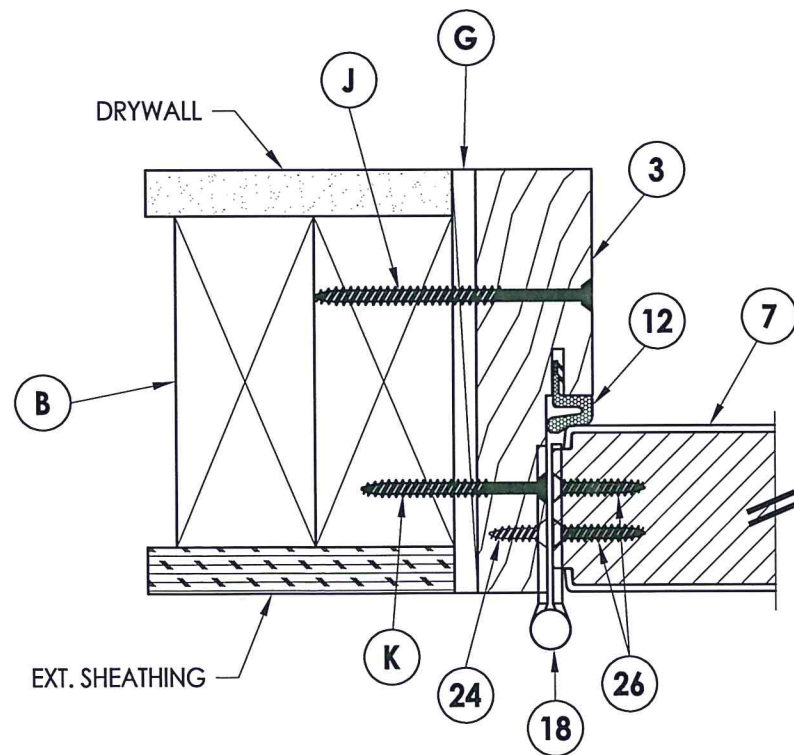


LOCK & DEADBOLT RATINGS CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 740	21
	DEADBOLT: 780	22

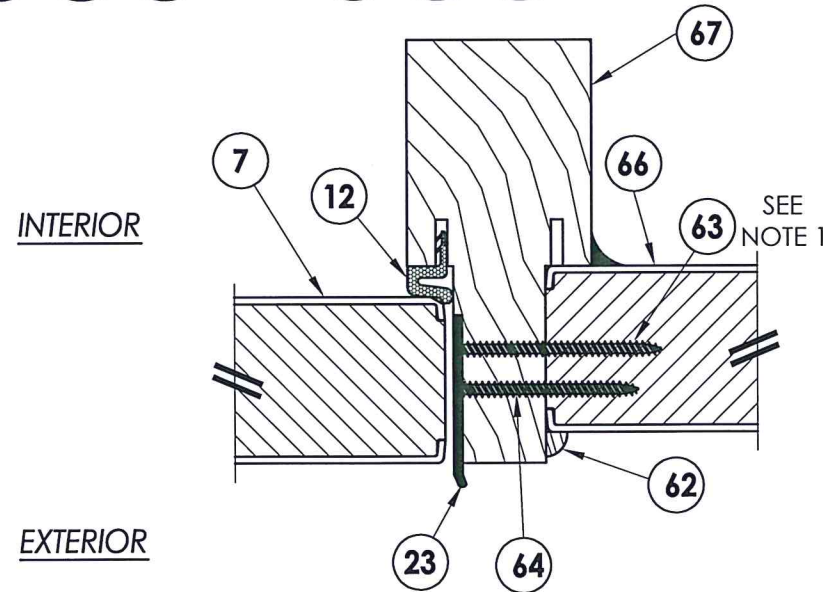


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TEXAS P.E. #104123

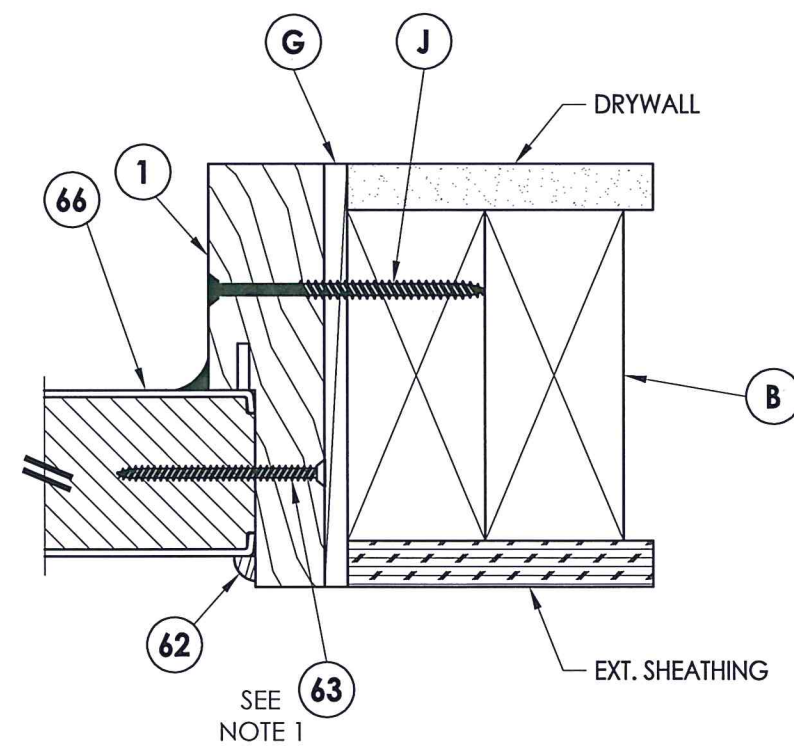
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Phone No.: 813.659.9197
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1 HORIZONTAL CROSS SECTION
3 Outswing shown
Inswing also approved



2 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved



3 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved

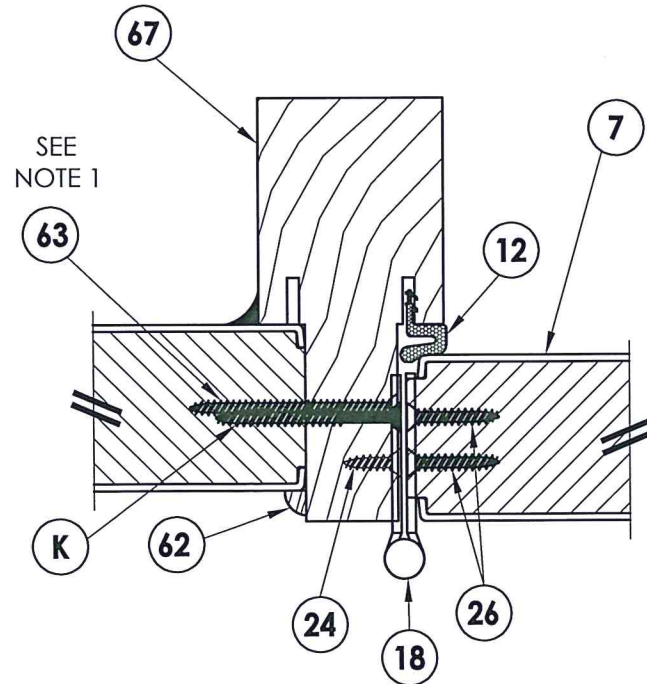
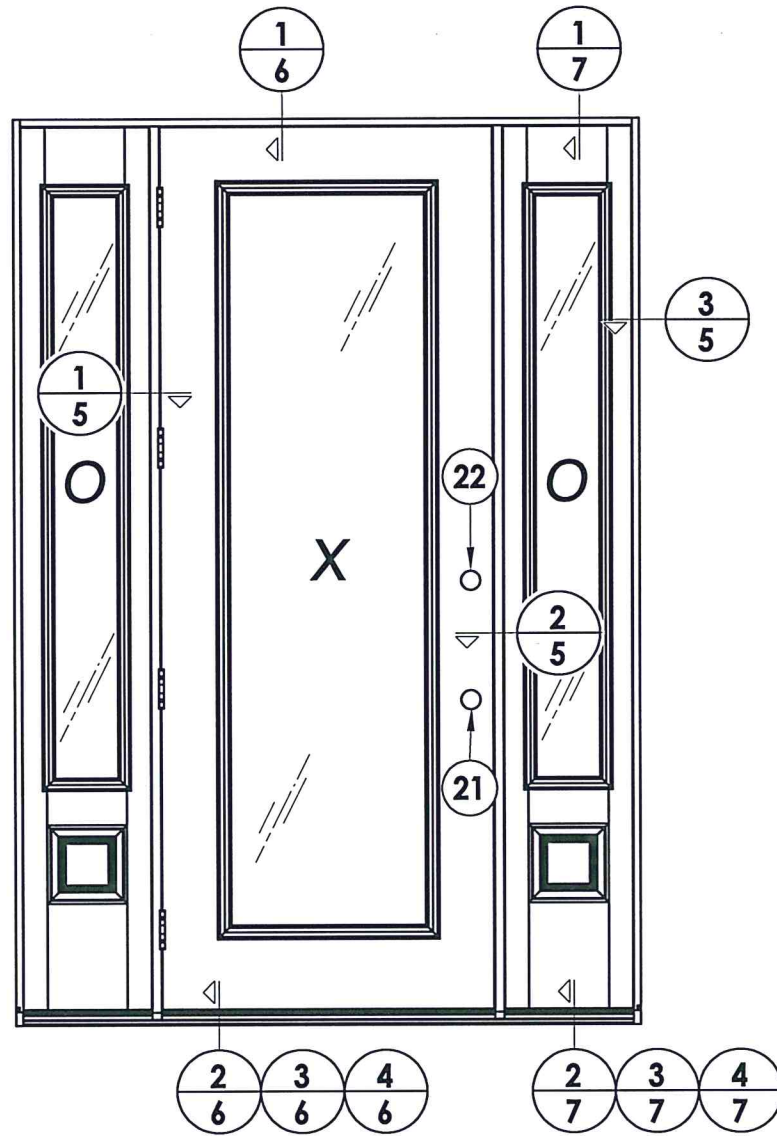
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	BY

DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 4 OF 11

NOTE:

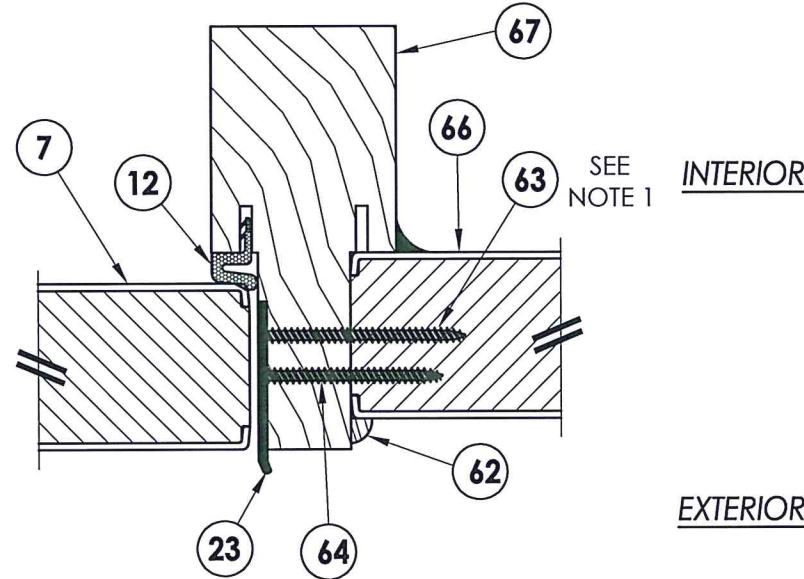
- Sidelite ass'y fastener: 6" from each end and 6 more screws equally spaced between (8 screws total per jamb).



1 HORIZONTAL CROSS SECTION
5 Outswing shown
Inswing also approved

INTERIOR

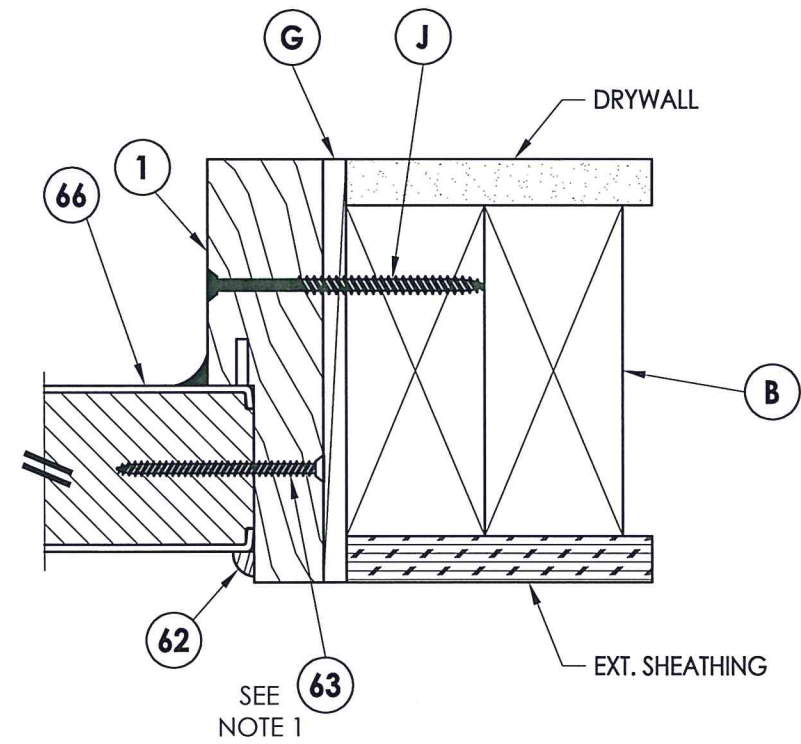
EXTERIOR



2 HORIZONTAL CROSS SECTION
5 Outswing shown
Inswing also approved

INTERIOR

EXTERIOR



3 HORIZONTAL CROSS SECTION
5 Outswing shown
Inswing also approved



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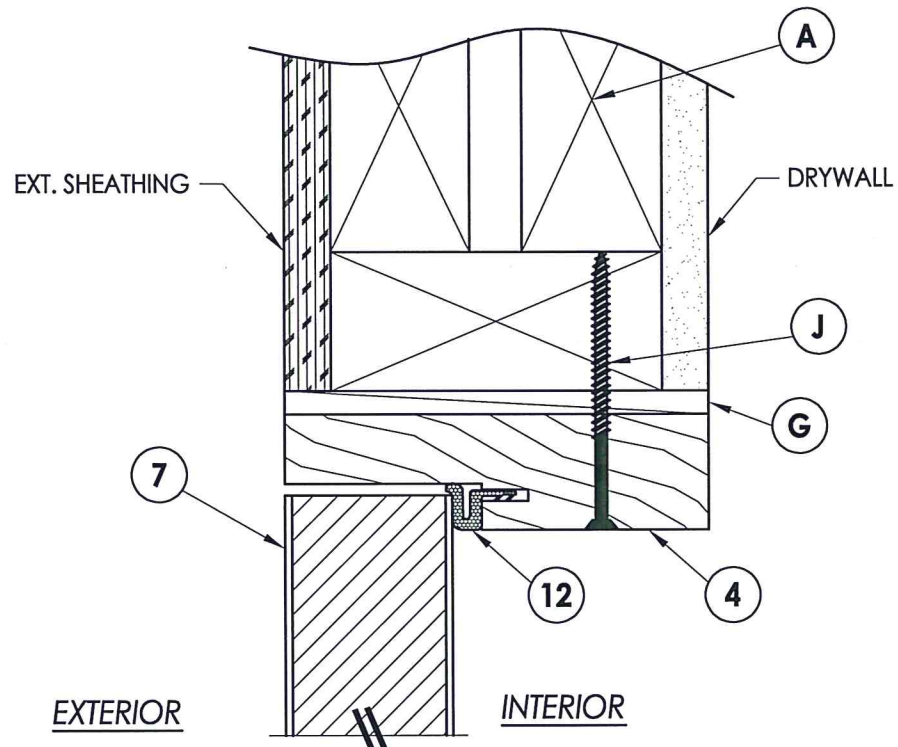
RW BUILDING CONSULTANTS, INC.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY: HORIZONTAL CROSS SECTION

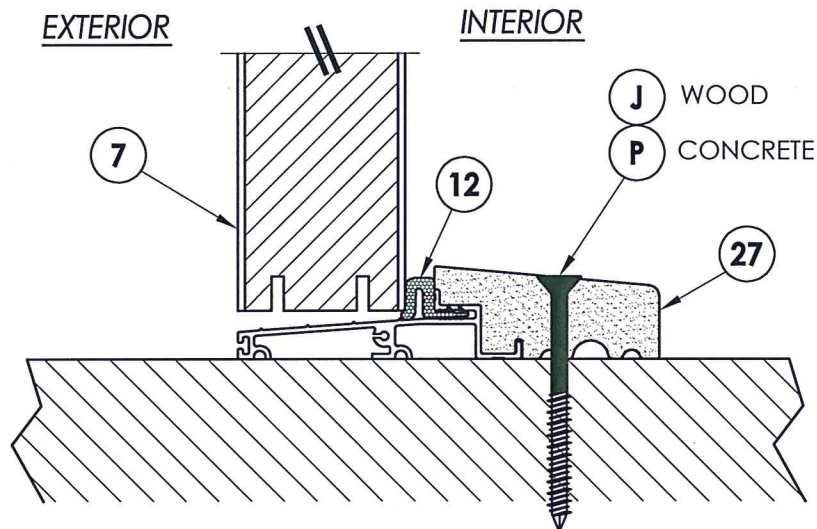
NO.	DATE	BY	REVISIONS

DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 5 OF 11

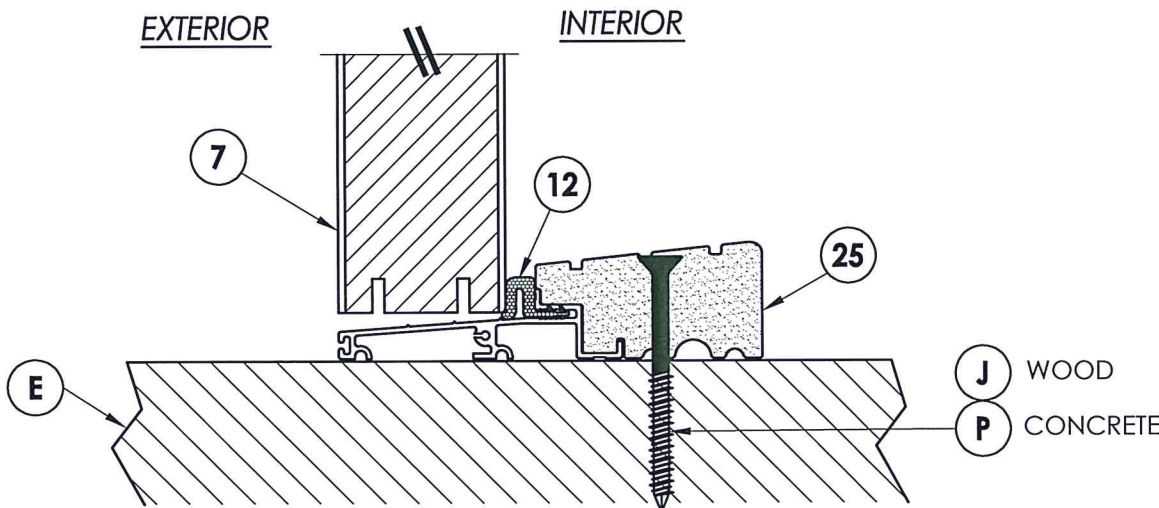
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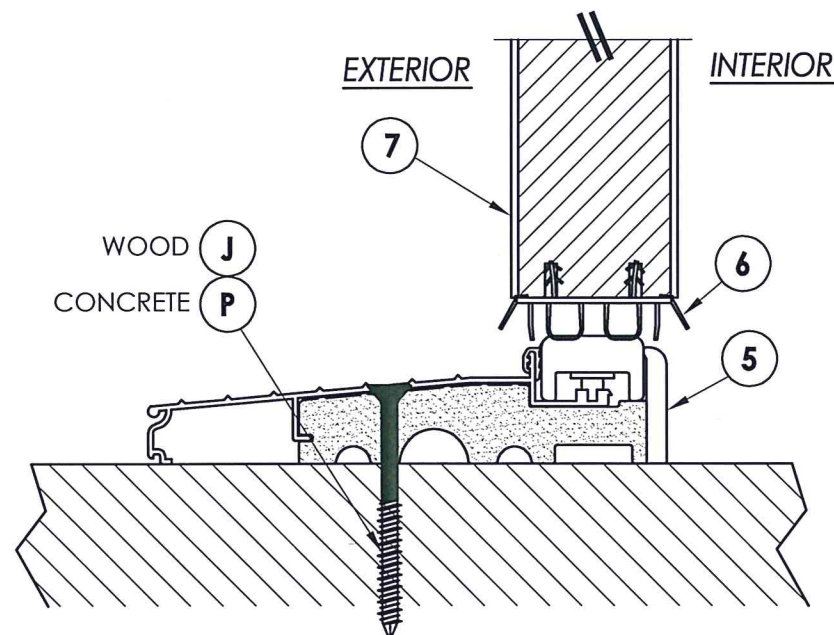
1 VERTICAL CROSS SECTION
6 Outswing shown
 Inswing also approved



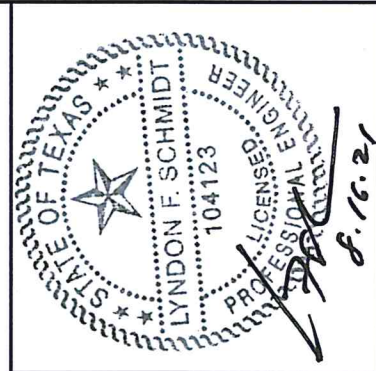
2 VERTICAL CROSS SECTION
6 Outswing configuration



3 VERTICAL CROSS SECTION
6 Outswing configuration



4 VERTICAL CROSS SECTION
6 Inswing configuration



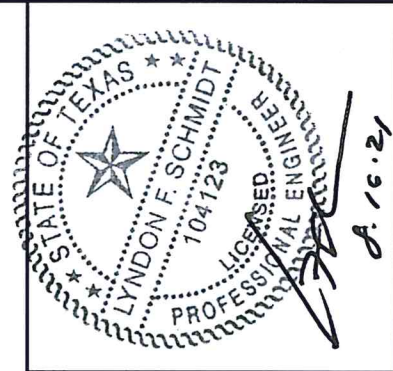
Documents Prepared By: Lyndon F. Schmidt, P.E.
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 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5232
 SHEET 6 OF 11

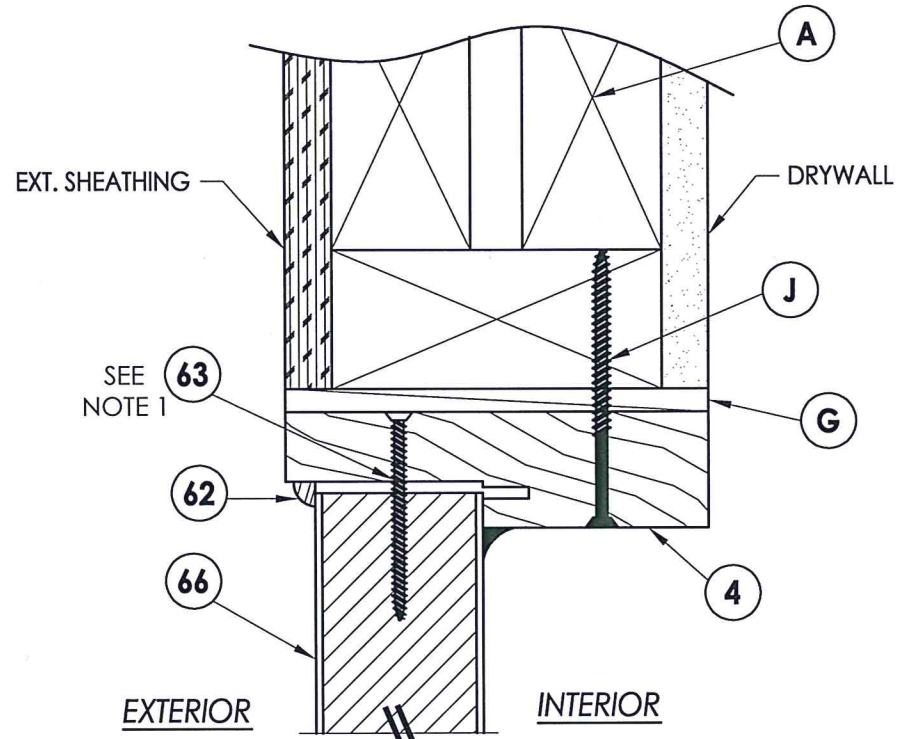
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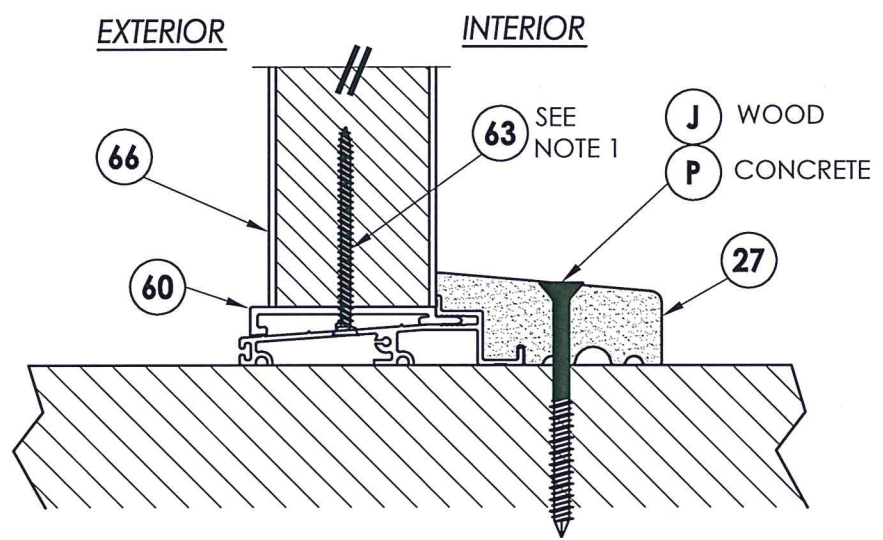
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

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

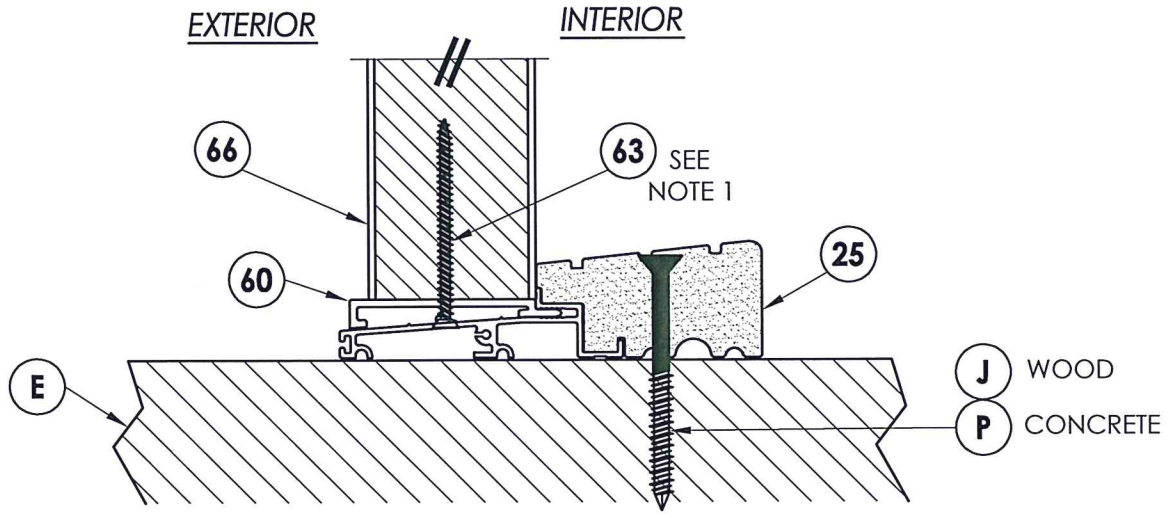


1 VERTICAL CROSS SECTION
7

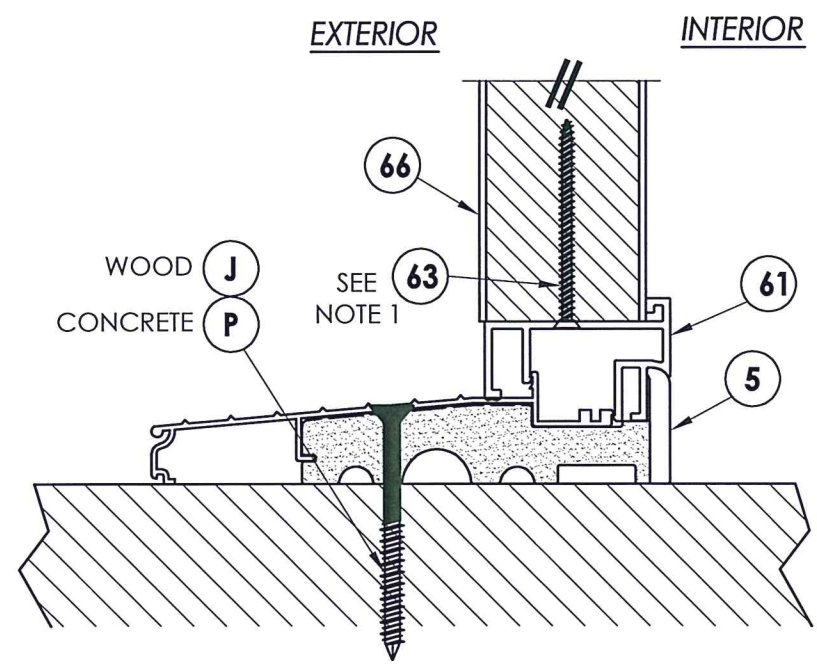


2 VERTICAL CROSS SECTION
7 Outswing sill

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



3 VERTICAL CROSS SECTION
7 Outswing sill - high dam



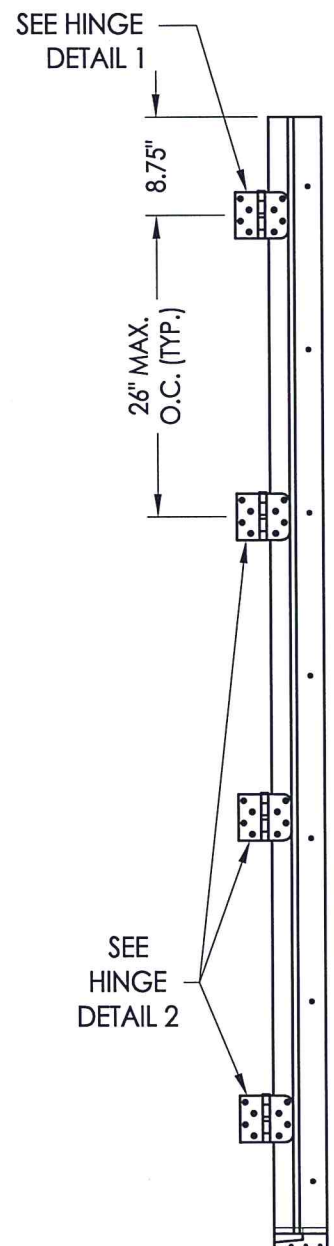
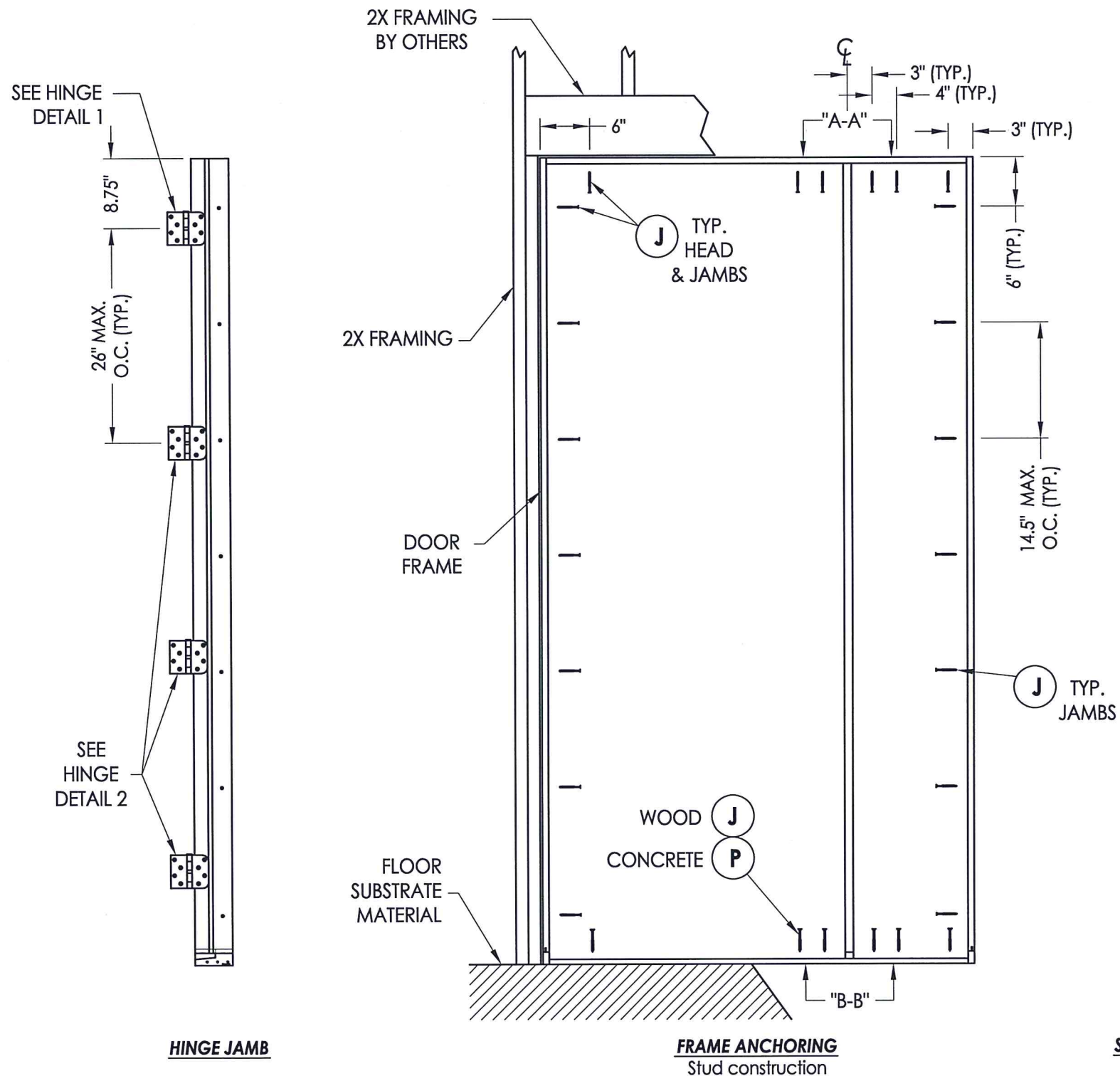
4 VERTICAL CROSS SECTION
7 Inswing sill

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

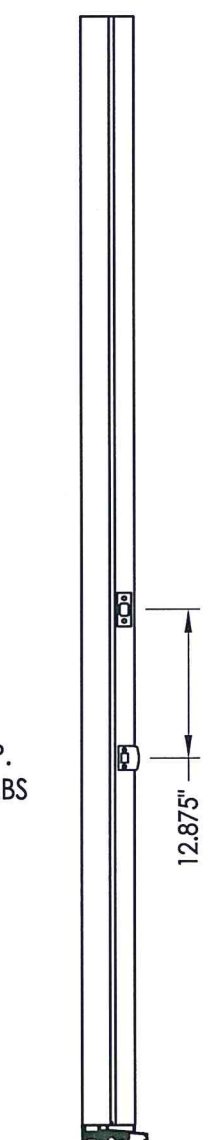
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

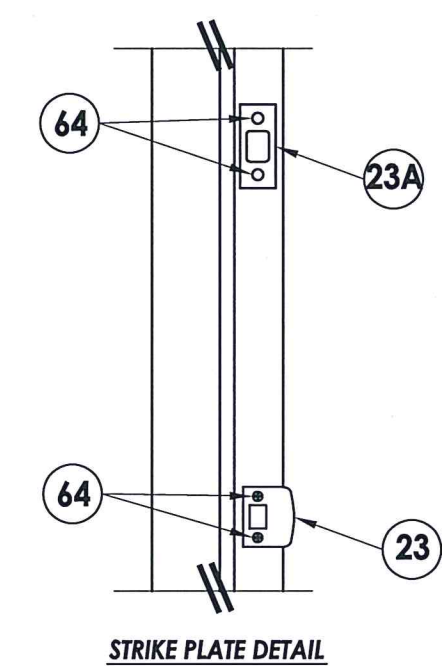
DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 7 OF 11



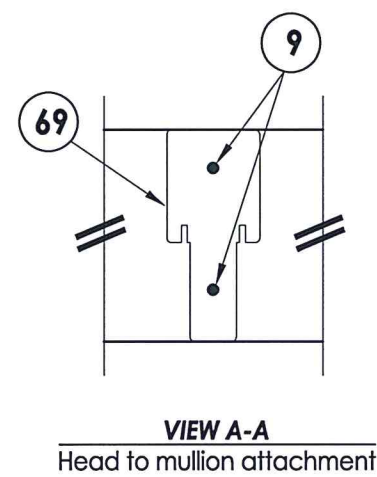
HINGE JAMB



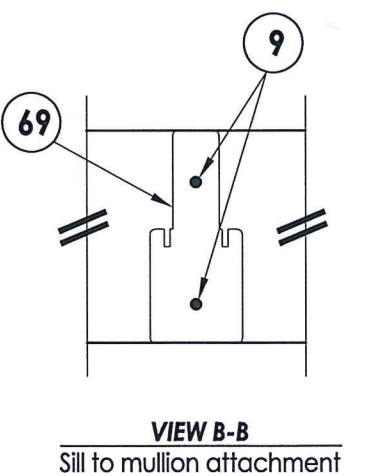
STRIKE MULLION



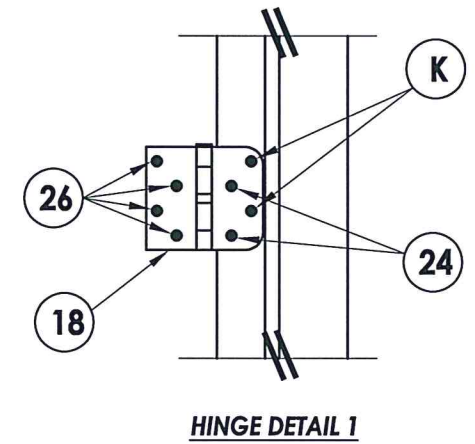
STRIKE PLATE DETAIL



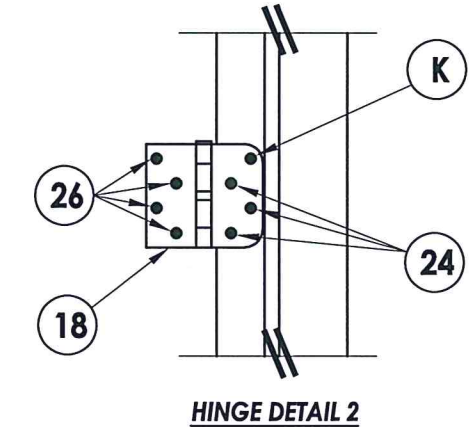
VIEW A-A
Head to mullion attachment



VIEW B-B
Sill to mullion attachment



HINGE DETAIL 1



HINGE DETAIL 2



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CERTIFICATE OF REGISTRATION # F-11852

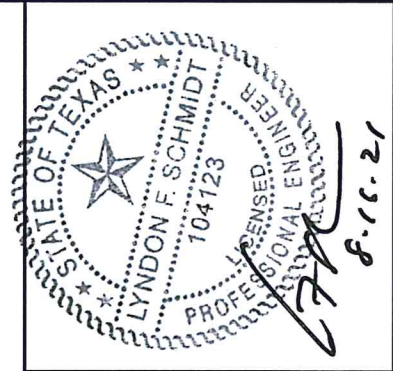
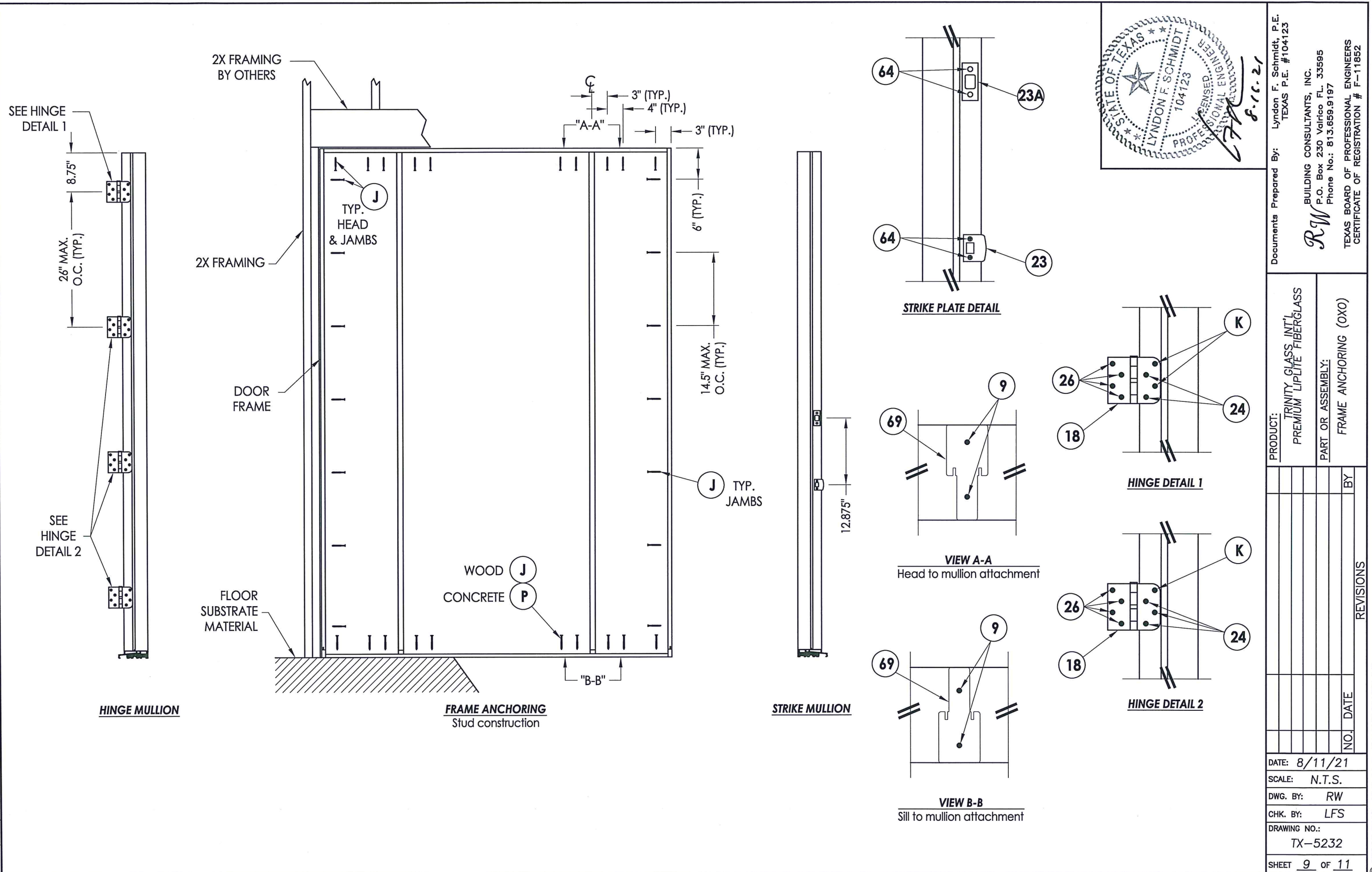
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
FRAME ANCHORING (XO)

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 8 OF 11

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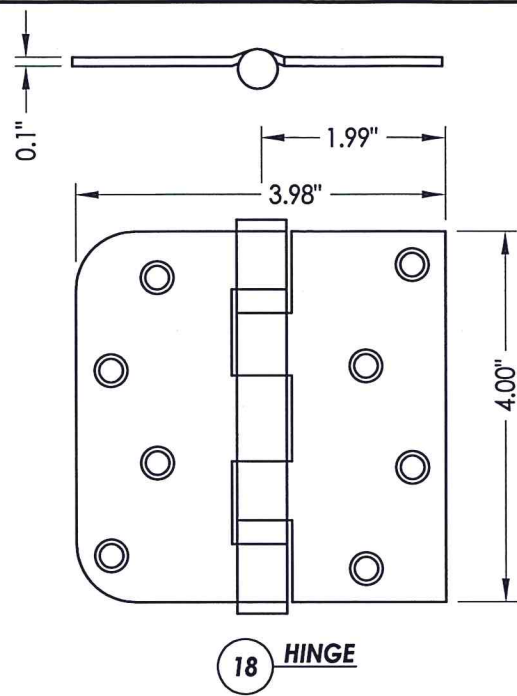
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL, 33595
 Phone No.: 813.659.9197

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

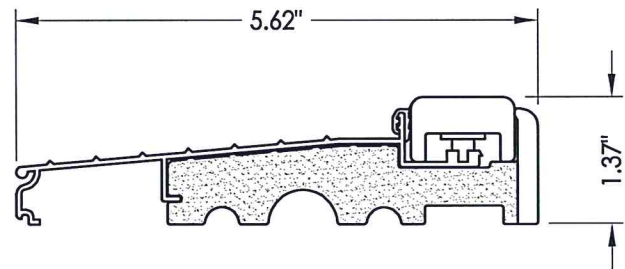
PRODUCT: TRINITY GLASS INT'L
 PREMIUM LIPLITE FIBERGLASS
 PART OR ASSEMBLY:
 FRAME ANCHORING (OXO)

NO.	DATE	BY	REVISIONS

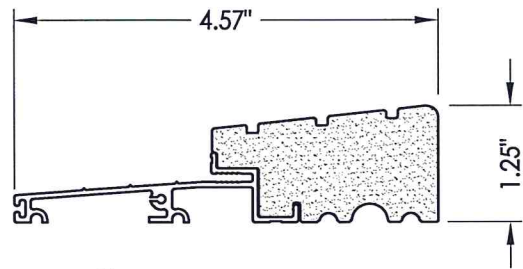
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 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5232
 SHEET 9 OF 11



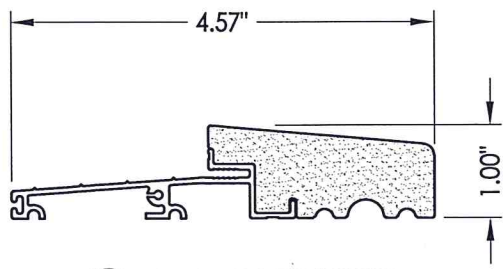
18 HINGE



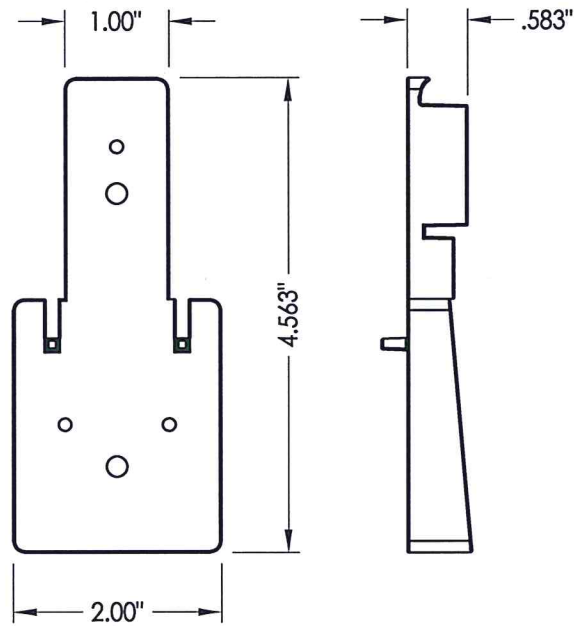
5 INSWING THRESHOLD



25 OUTSWING THRESHOLD
High-dam option



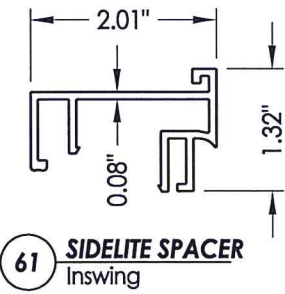
27 OUTSWING THRESHOLD



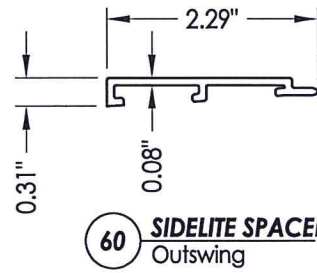
69 MULLION BASE KIT
Optional



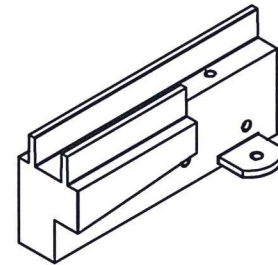
6 DOOR BOTTOM SWEEP



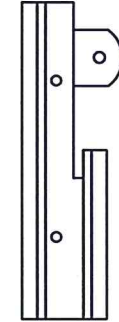
61 SIDELITE SPACER
Inswing



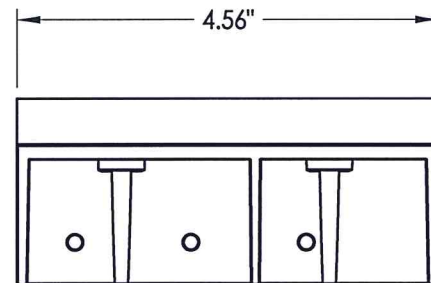
60 SIDELITE SPACER
Outswing



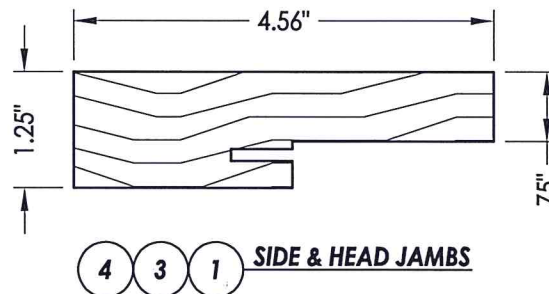
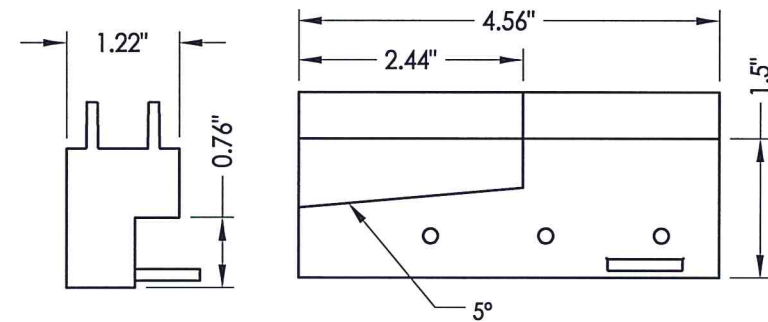
SILLKEY, LEFT
SCALE: NONE



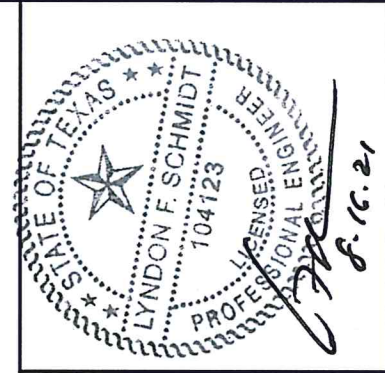
SILLKEY, RIGHT
SCALE: NONE



19 SILLKEY DETAILS
Optional



4 3 1 SIDE & HEAD JAMBS



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

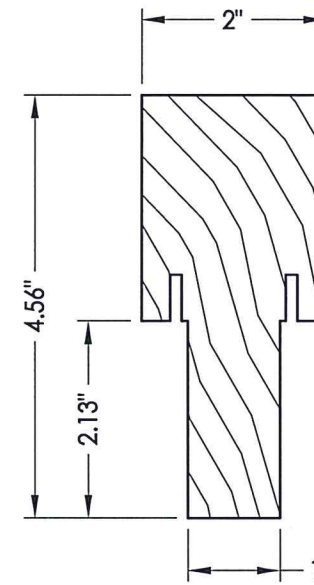
PRODUCT:
TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5232
SHEET 10 OF 11

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	#10 X 3" PFH WS (1-1/2" MIN. EMBEDMENT)	STEEL
K	#9 X 2" PFH WS	STEEL
P	1/4" FH DeWALT OR 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
9	#9 X 2-1/4" PFH WOOD 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
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	POPLAR
74	LVL SIDELITE BOTTOM RAIL	POPLAR
75	LVL SIDELITE STILE	POPLAR



67 INTEGRAL MULLION

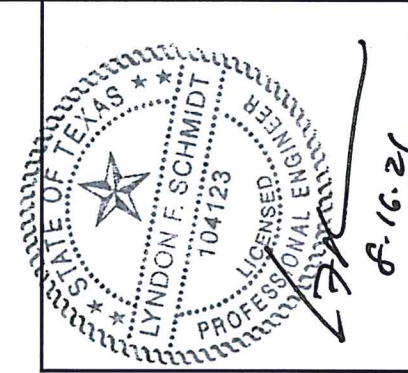
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. 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"

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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PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	BY	REVISIONS

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DRAWING NO.: TX-5232
SHEET 11 OF 11