

TRINITY GLASS

INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

GLAZED PREMIUM FIBERGLASS SINGLE DOOR

IN SWING / OUT SWING
"NON-IMPACT"

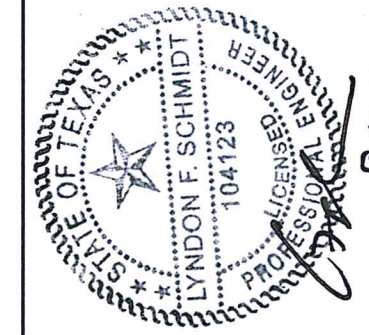
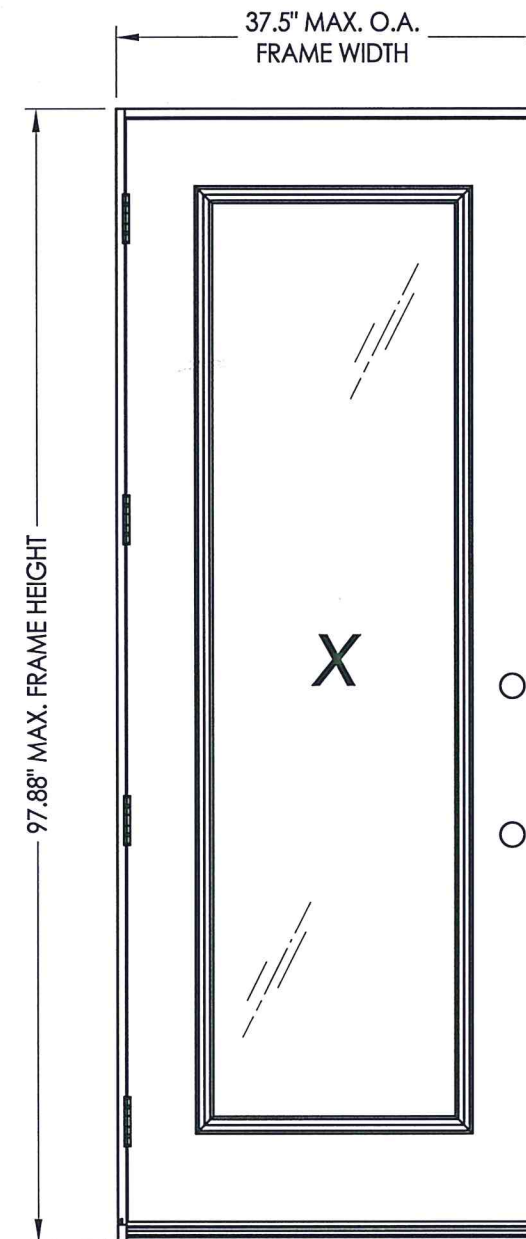
EVALUATED FOR USE IN THE STATE OF TEXAS

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. This system has been tested and evaluated as a large missile impact protective system for installation in areas requiring wind-borne debris protection. This product 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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SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing details
3	Horizontal cross sections
4	Vertical cross sections
5	Frame anchoring
6	Components
7	Bill of materials



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

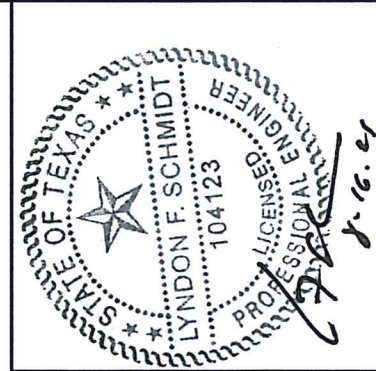
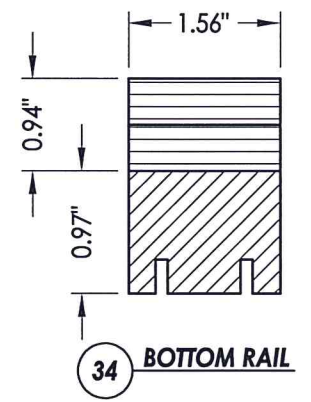
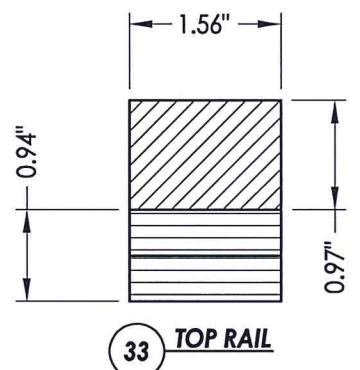
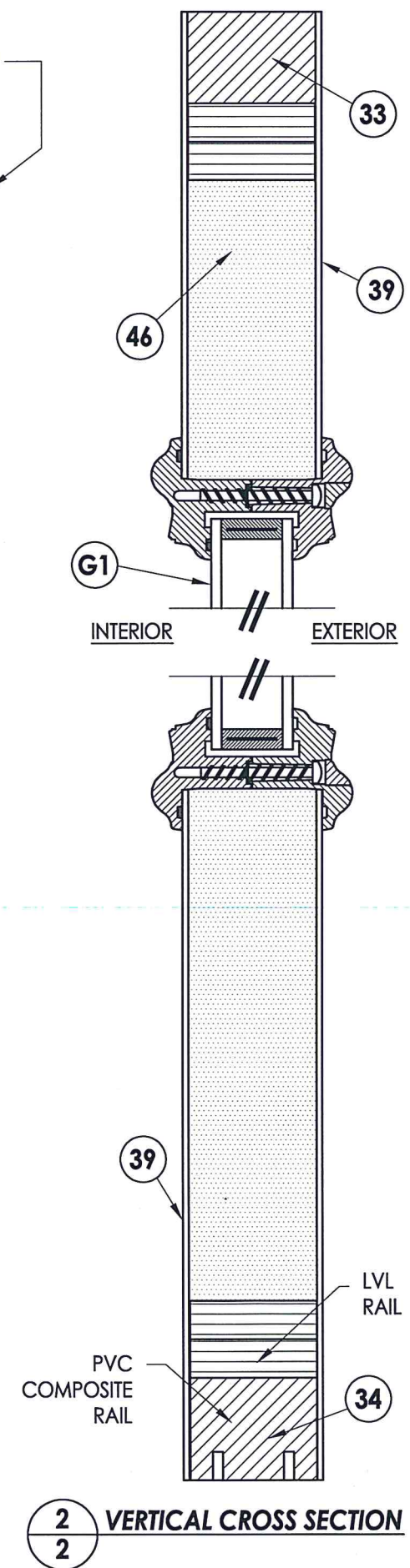
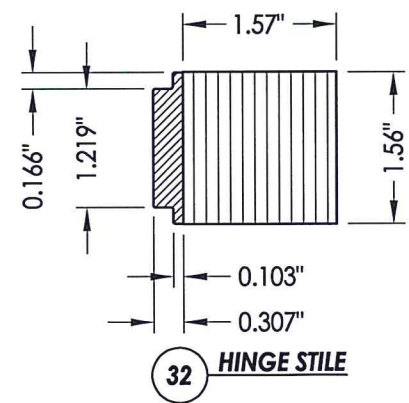
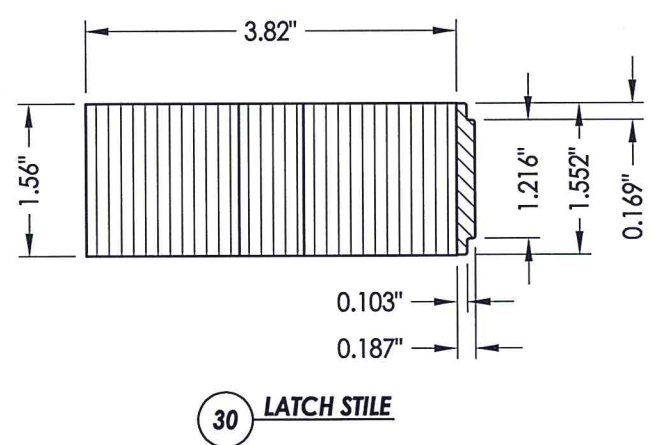
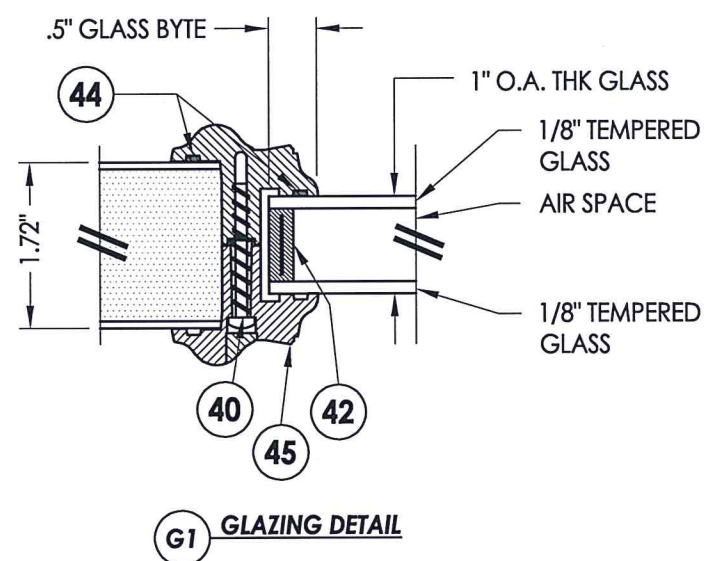
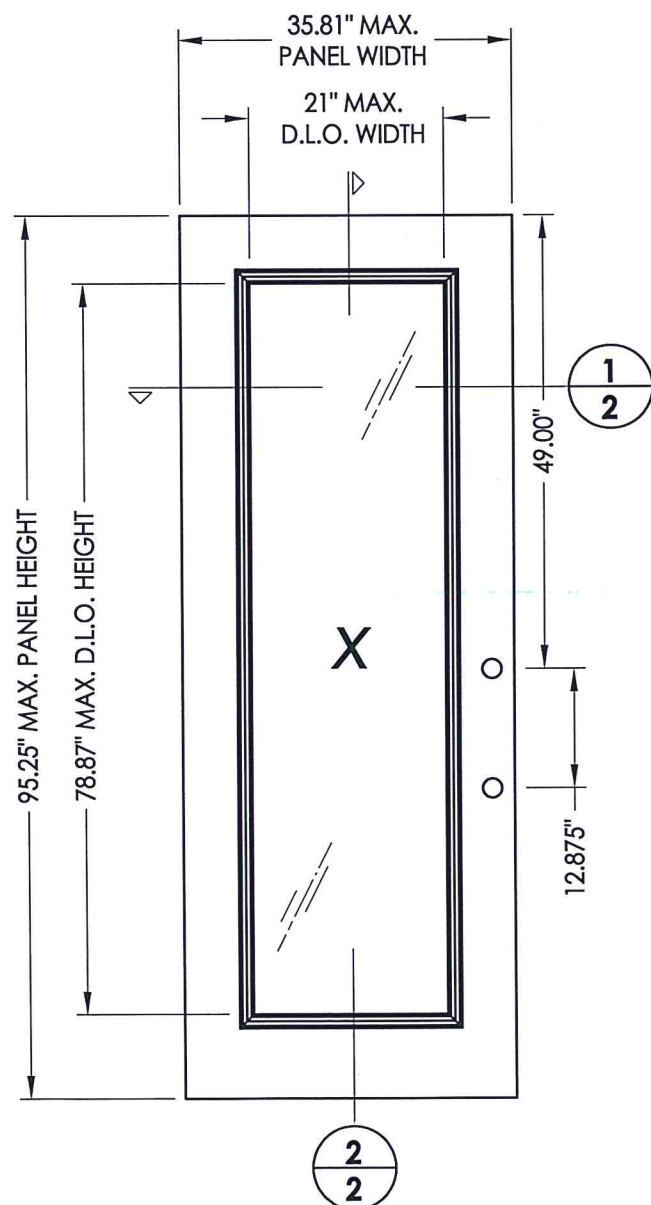
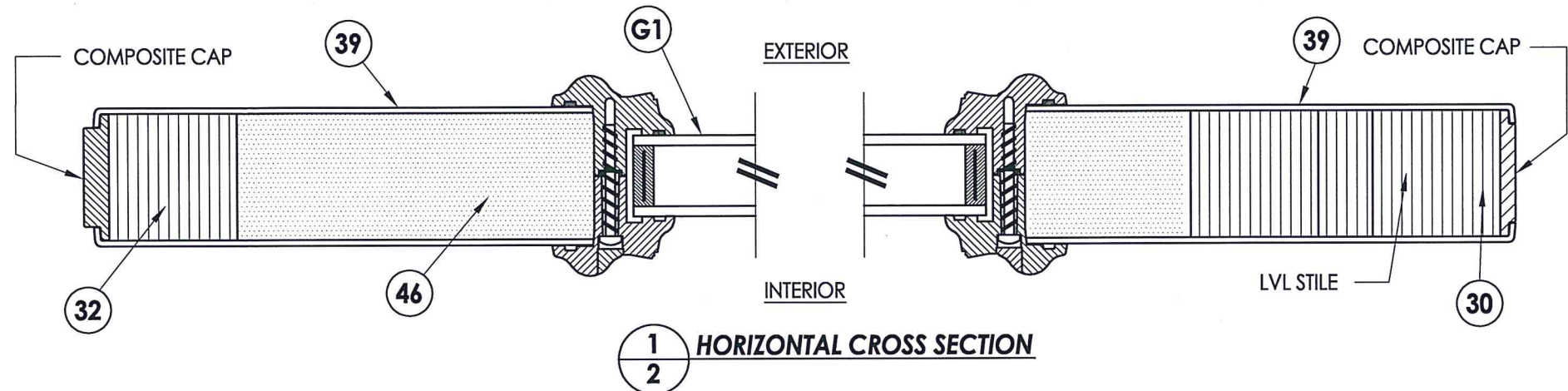
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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-5230
SHEET 1 OF 7

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
IN SWING	37.5" x 97.88"	G1	+47.0	-55.0
OUT SWING	37.5" x 96.75"		+47.0	-47.0



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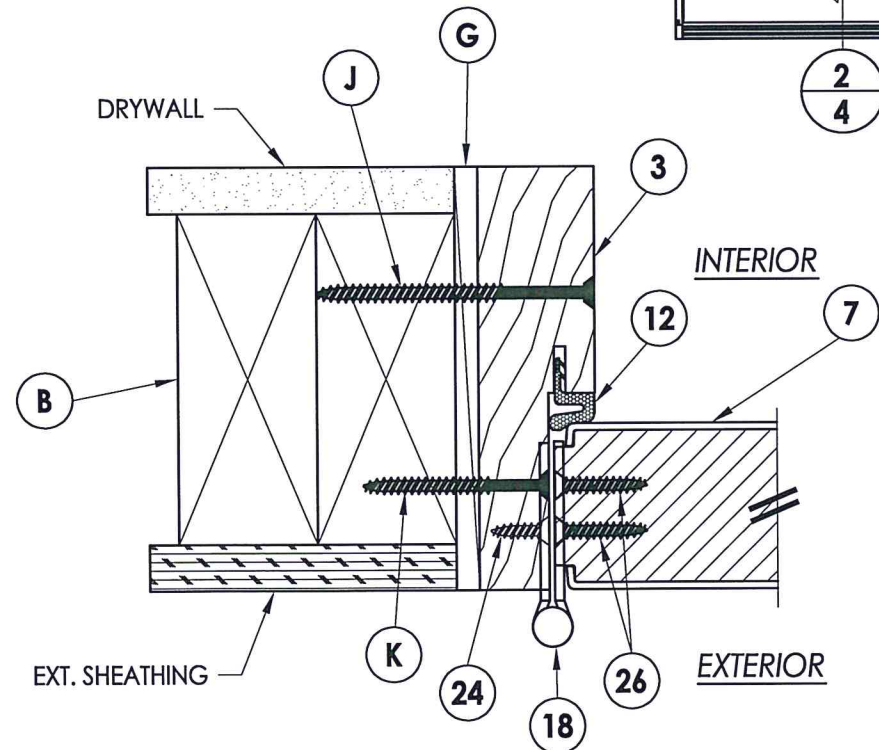
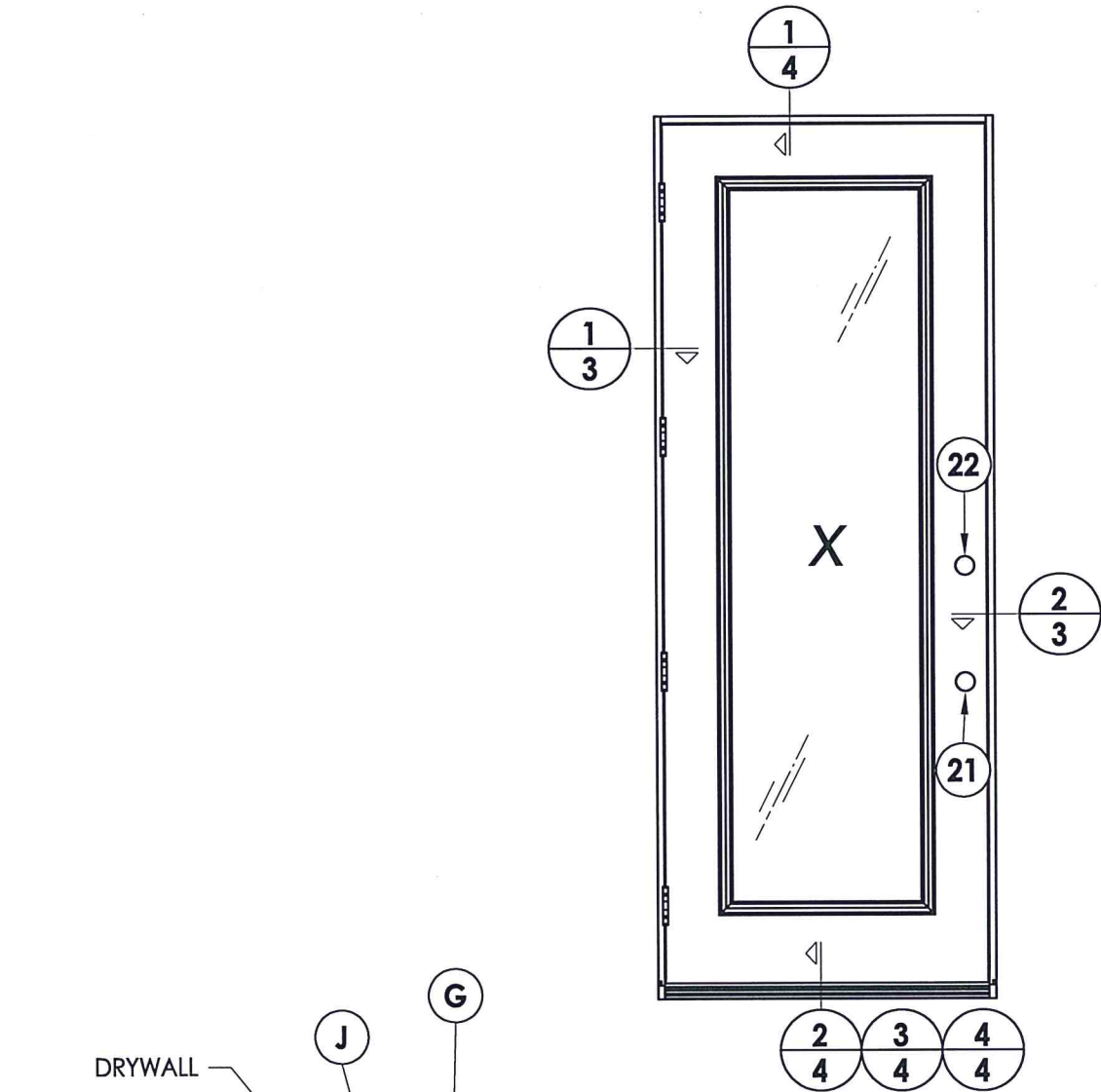
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PREMIUM LIPLITE FIBERGLASS

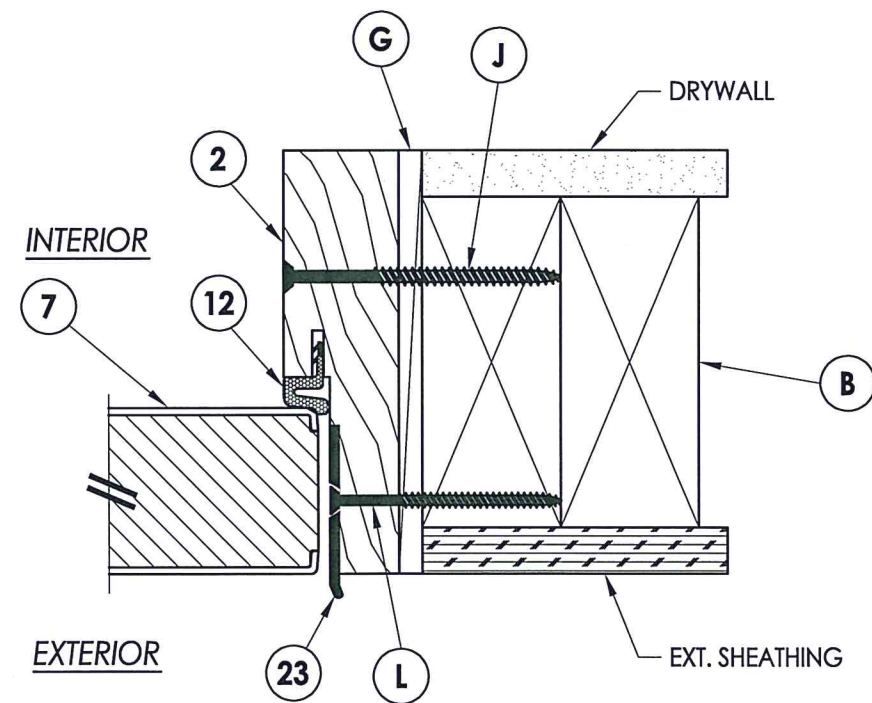
PART OR ASSEMBLY: DOOR PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5230
SHEET 2 OF 7



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



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

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



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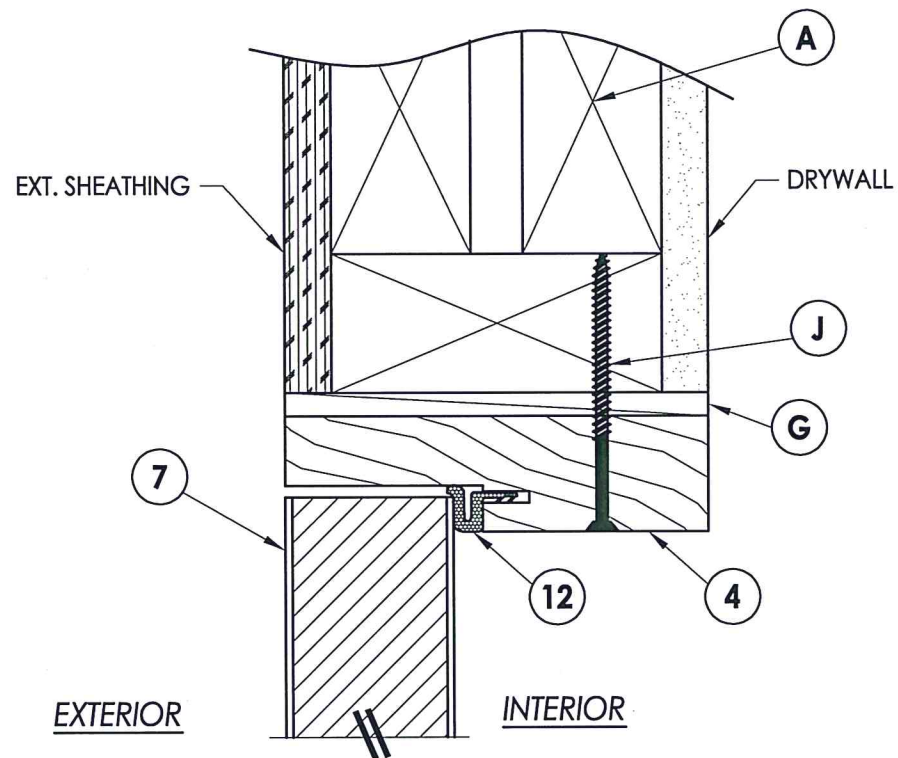
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 PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
 HORIZONTAL CROSS SECTIONS

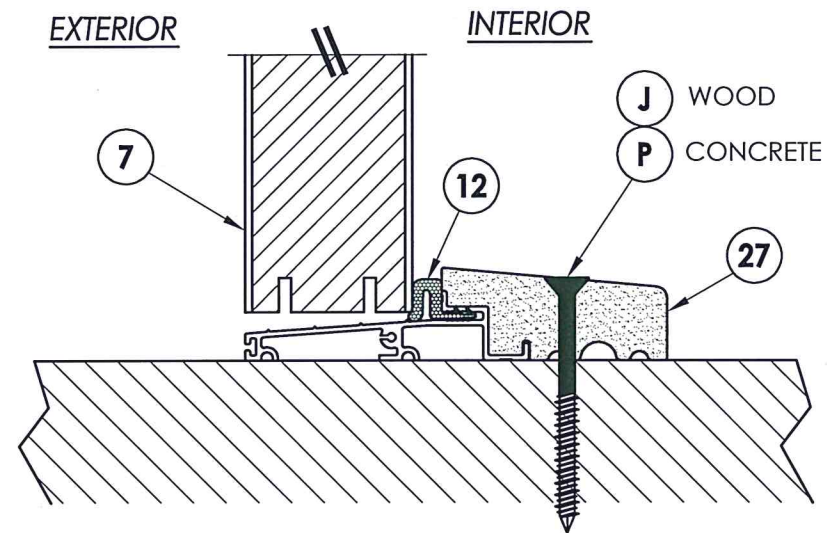
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DATE: 8/11/21
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 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5230
 SHEET 3 OF 7

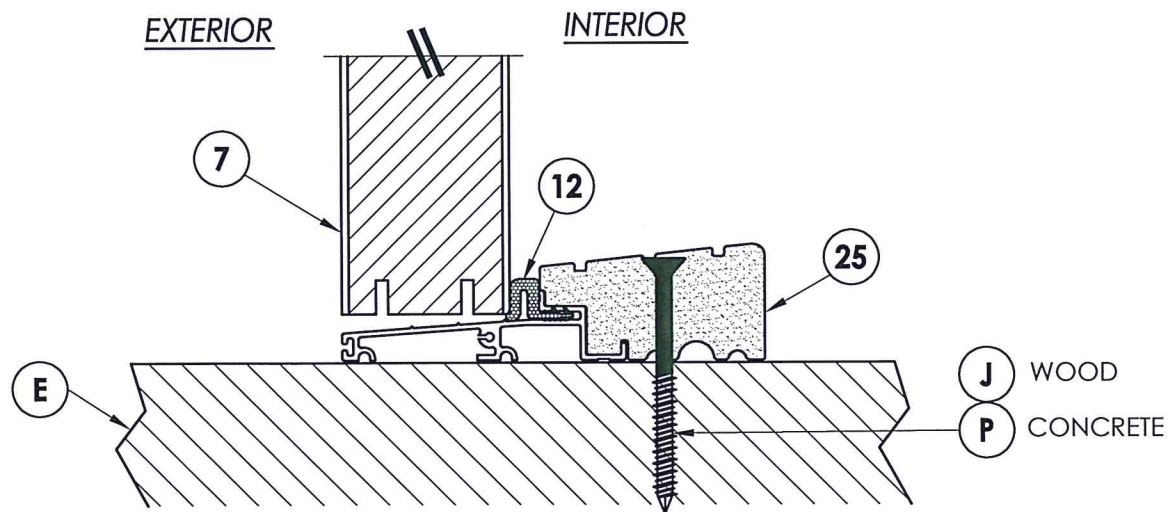
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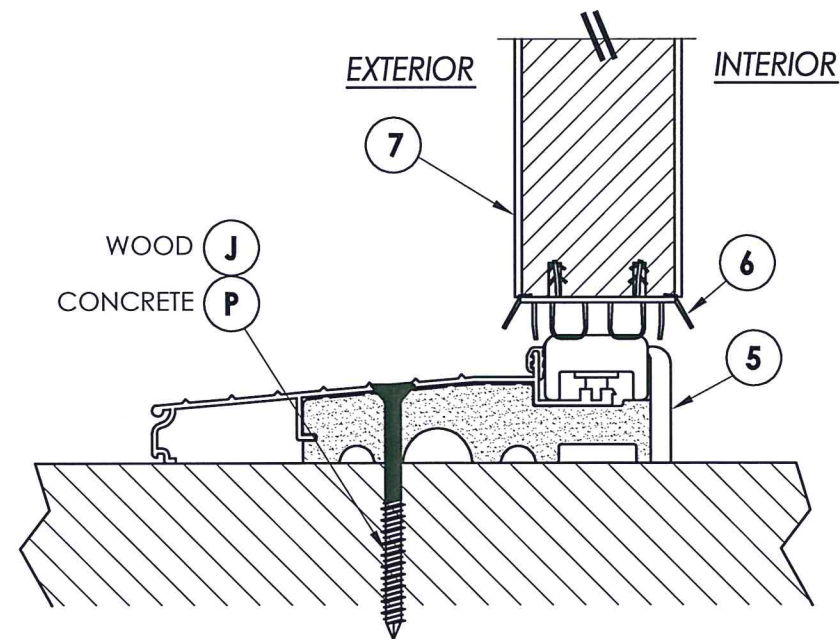
1 VERTICAL CROSS SECTION
4 Outswing shown
 Inswing also approved



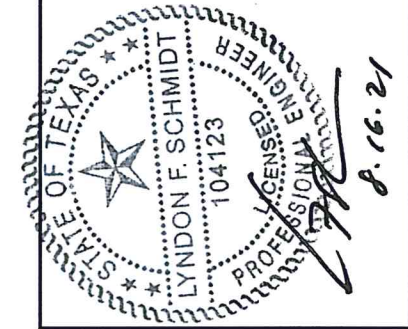
2 VERTICAL CROSS SECTION
4 Outswing configuration



3 VERTICAL CROSS SECTION
4 Outswing configuration



4 VERTICAL CROSS SECTION
4 Inswing configuration



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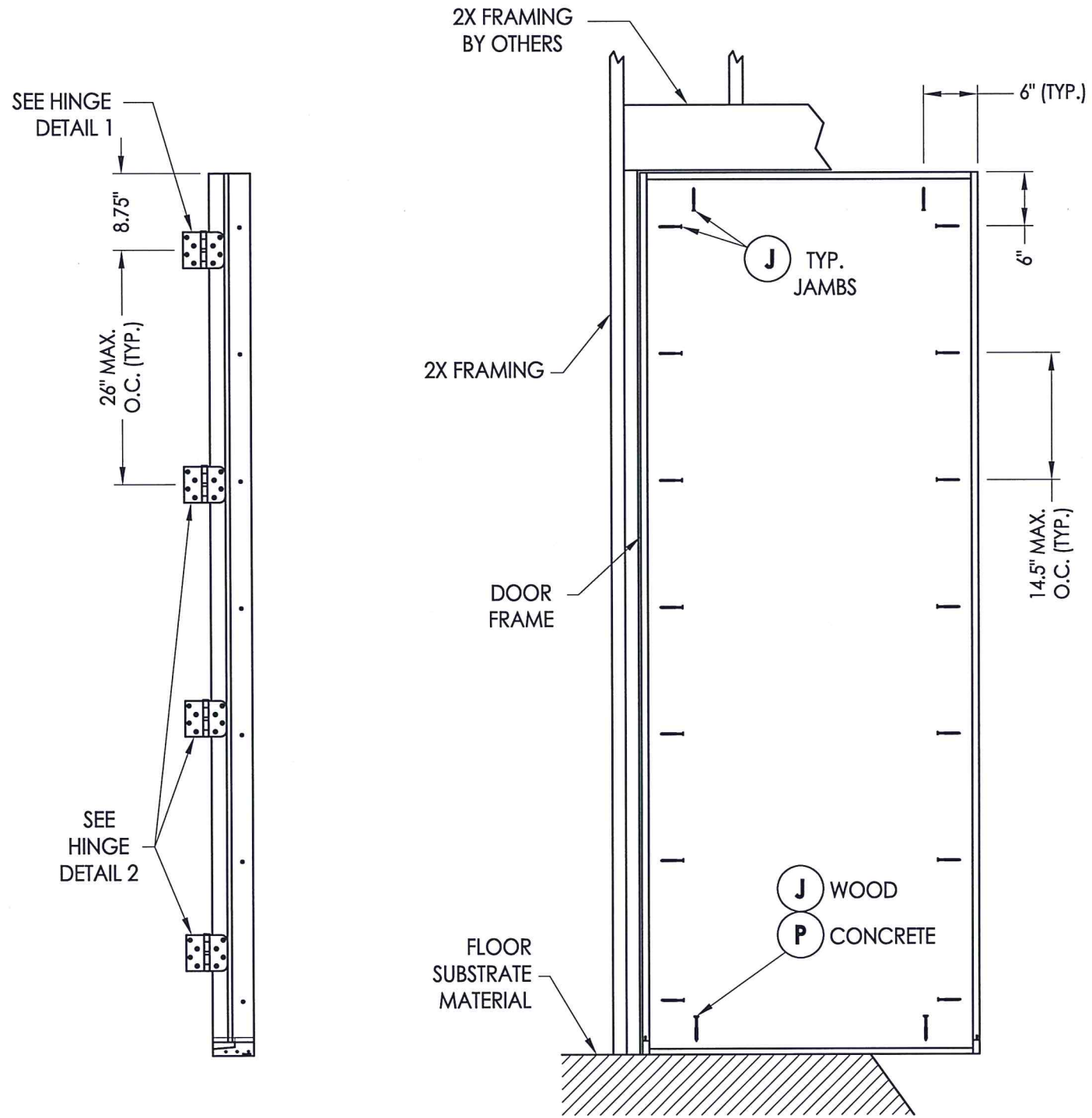
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PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
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 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5230
 SHEET 4 OF 7



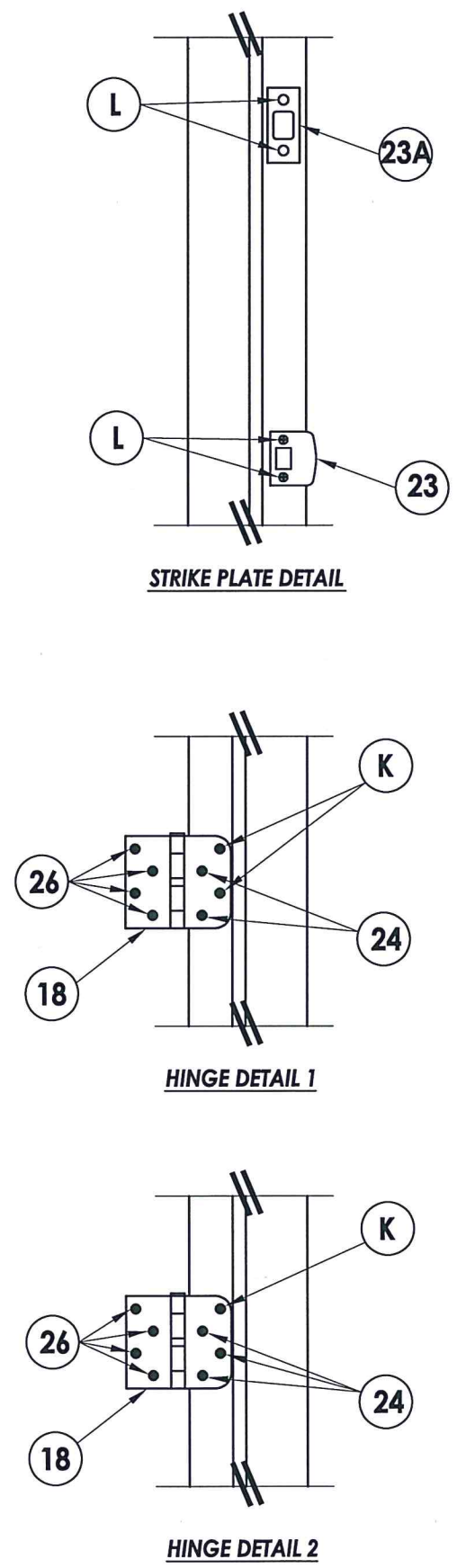
SEE HINGE
DETAIL 1

SEE HINGE
DETAIL 2

HINGE JAMB

FRAME ANCHORING
Stud construction

STRIKE JAMB



STRIKE PLATE DETAIL

HINGE DETAIL 1

HINGE DETAIL 2



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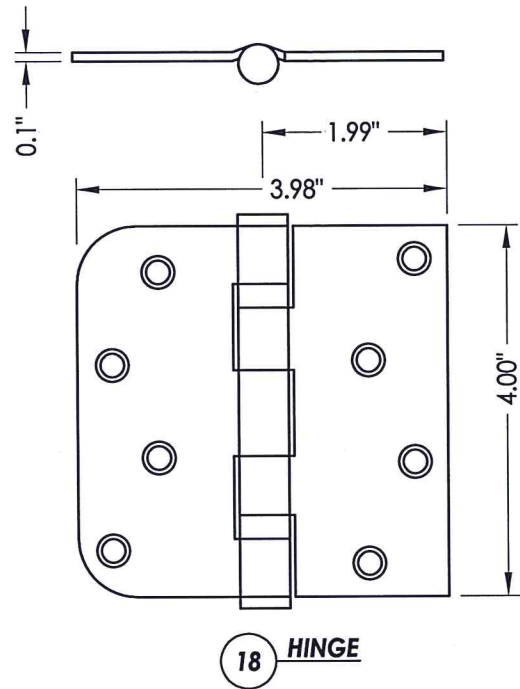
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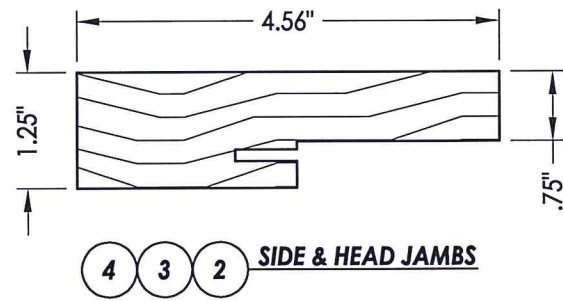
PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY	REVISIONS

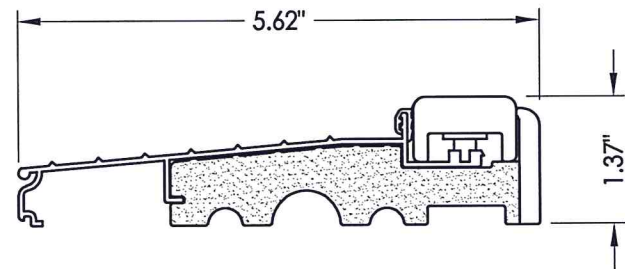
DATE: 8/11/21
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DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5230
SHEET 5 OF 7



18 HINGE



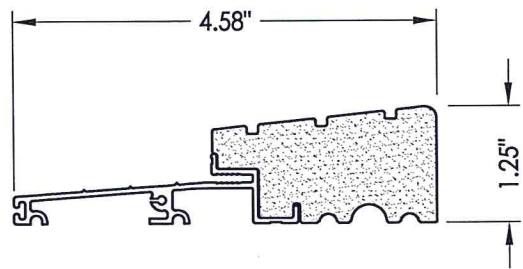
4 3 2 SIDE & HEAD JAMBS



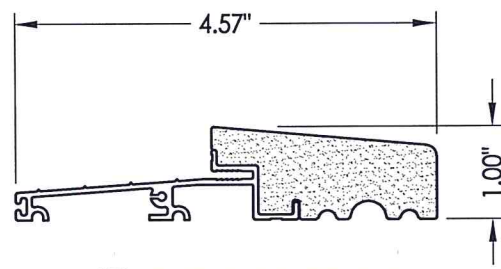
5 INSWING THRESHOLD



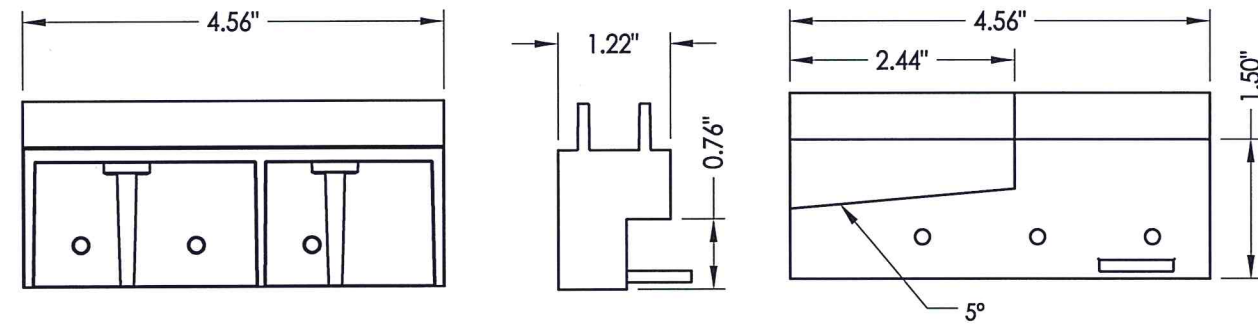
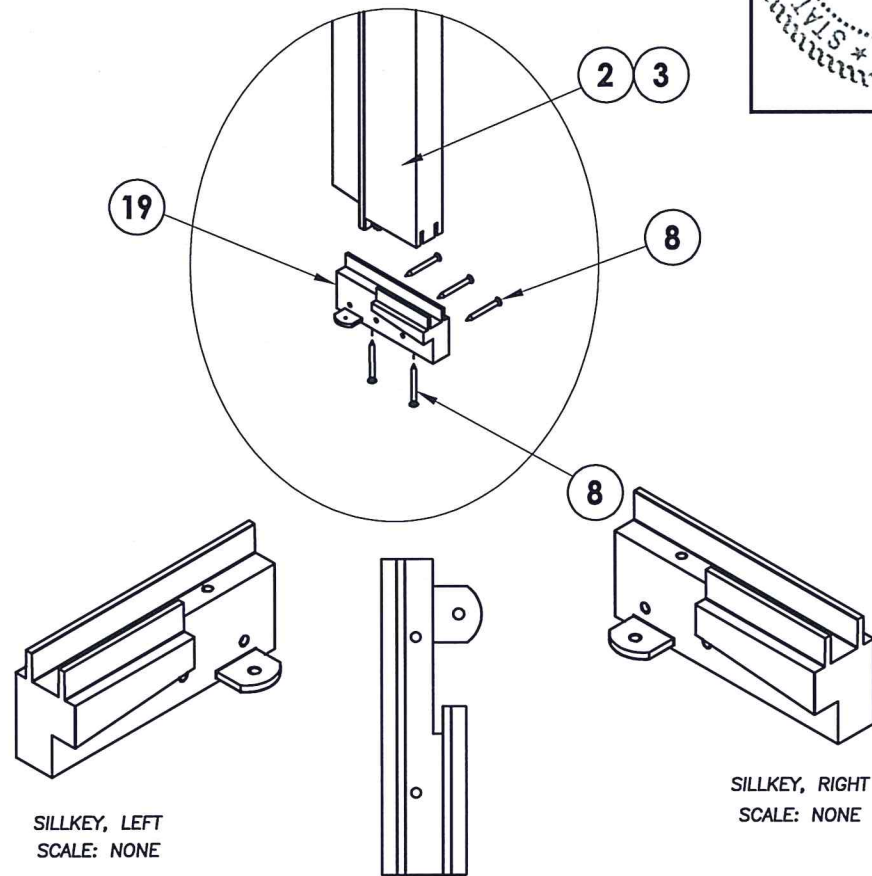
6 DOOR BOTTOM SWEEP



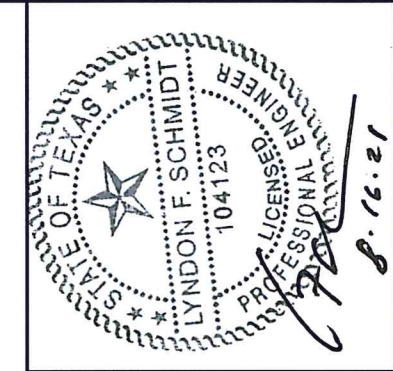
25 OUTSWING THRESHOLD
High-dam option



27 OUTSWING THRESHOLD



19 SILLKEY DETAILS
Optional



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PRODUCT: TRINITY GLASS INT'L
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PART OR ASSEMBLY: COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
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DRAWING NO.: TX-5230
SHEET 6 OF 7

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
L	#8 X 2-1/2" PFH WS	STEEL
P	1/4" FH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
2	STRIKE 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 STRIKE 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



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PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
BILL OF MATERIALS

NO.	DATE	BY	REVISIONS

DATE: 8/11/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5230
SHEET 7 OF 7

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.