



**TRINITY GLASS**  
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

**3'0 X 8'0**  
**OPAQUE PREMIUM FIBERGLASS**  
**SINGLE DOOR**  
**IN SWING / OUT SWING**  
**"IMPACT"**

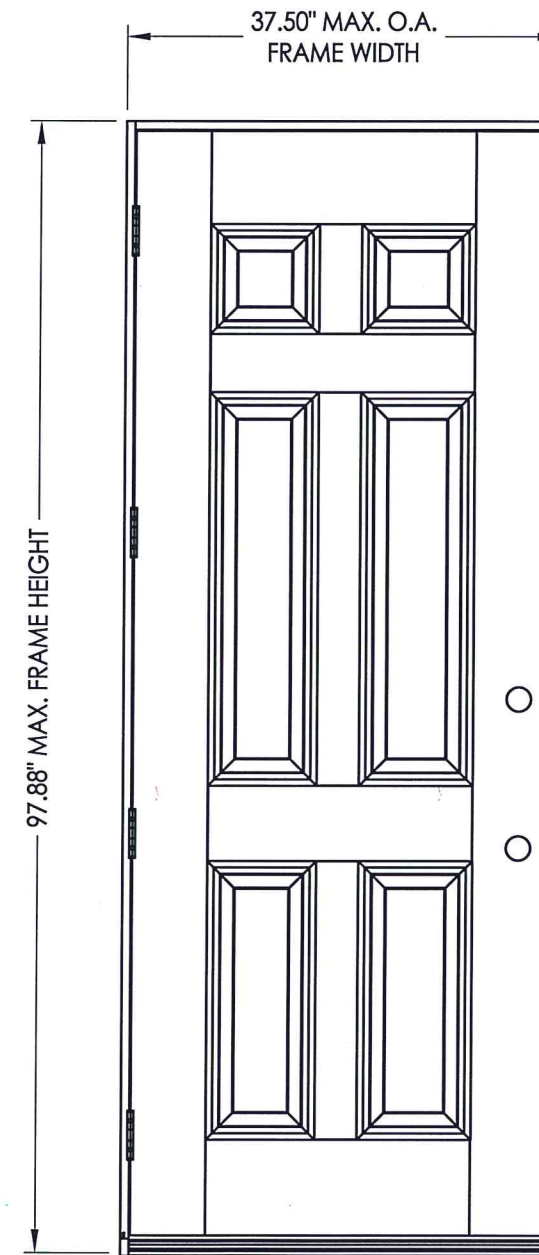
**EVALUATED FOR USE IN THE STATE OF TEXAS**

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:

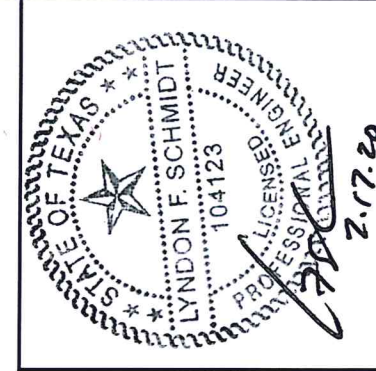
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in areas requiring wind-borne debris protection. This 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.

**TABLE OF CONTENTS**

SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel construction details
3	Horizontal cross sections
4	Vertical cross sections
5	Frame anchoring
6	Components
7	Bill of materials



SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
IN SWING	37.50" x 97.88"	G1	+60.0	-60.0
OUT SWING	37.50" x 96.75"		+60.0	-60.0



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

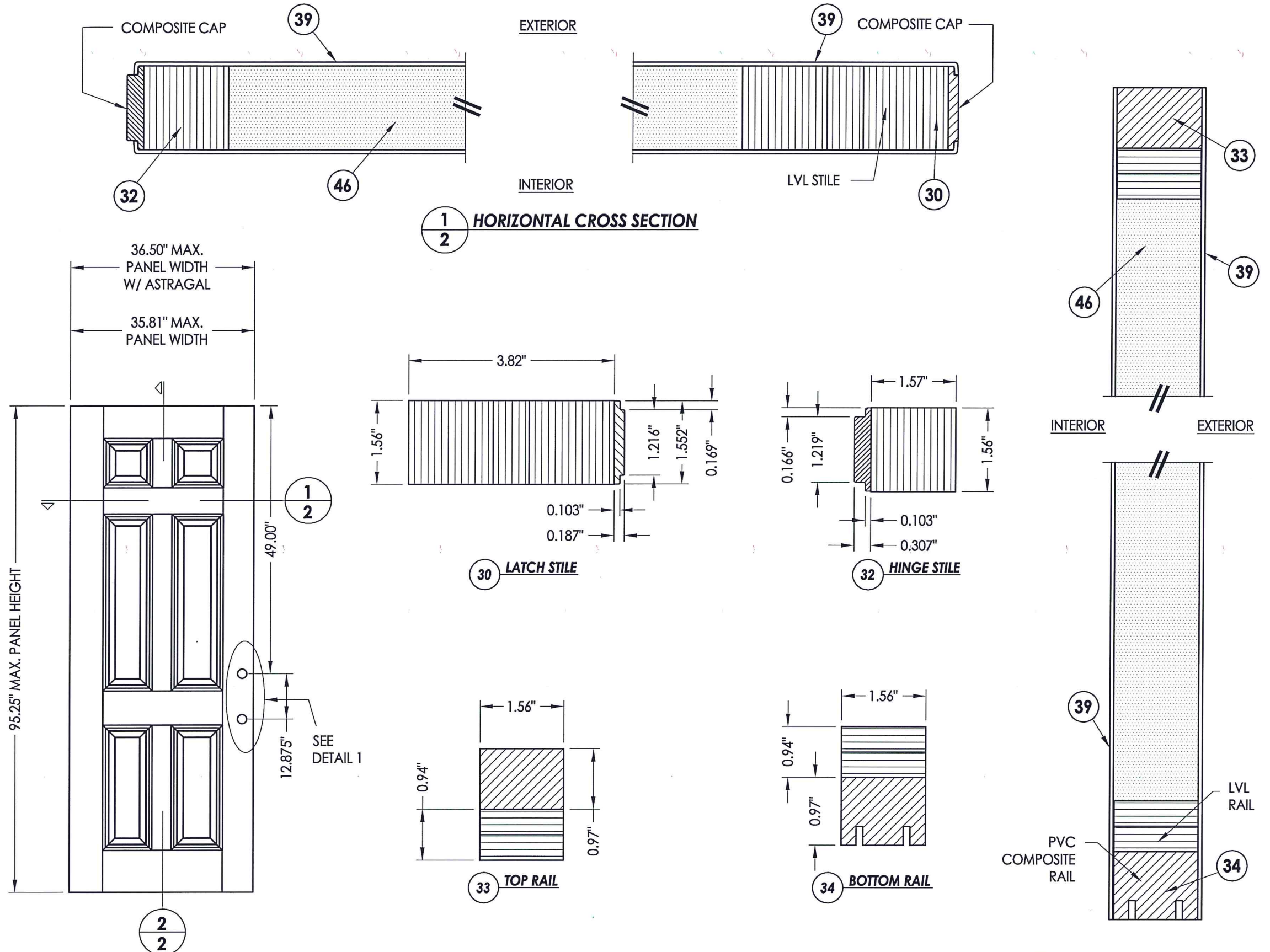
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L  
8'0 PREMIUM OPAQUE

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

NO.	DATE	REVISIONS
3	2/13/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 11/21/05  
SCALE: N.T.S.  
DWG. BY: AEM  
CHK. BY: LFS  
DRAWING NO.: TX-715  
SHEET 1 OF 7



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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PRODUCT: TRINITY GLASS INT'L  
 8'0 PREMIUM OPAQUE

PART OR ASSEMBLY:  
 DOOR PANEL  
 CONSTRUCTION DETAILS

NO.	DATE	REVISIONS
3	2/13/20	UPDATE TO 2018 IBC/IRC
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1	6/28/06	REVISED LOCKSET NOMENCLATURE

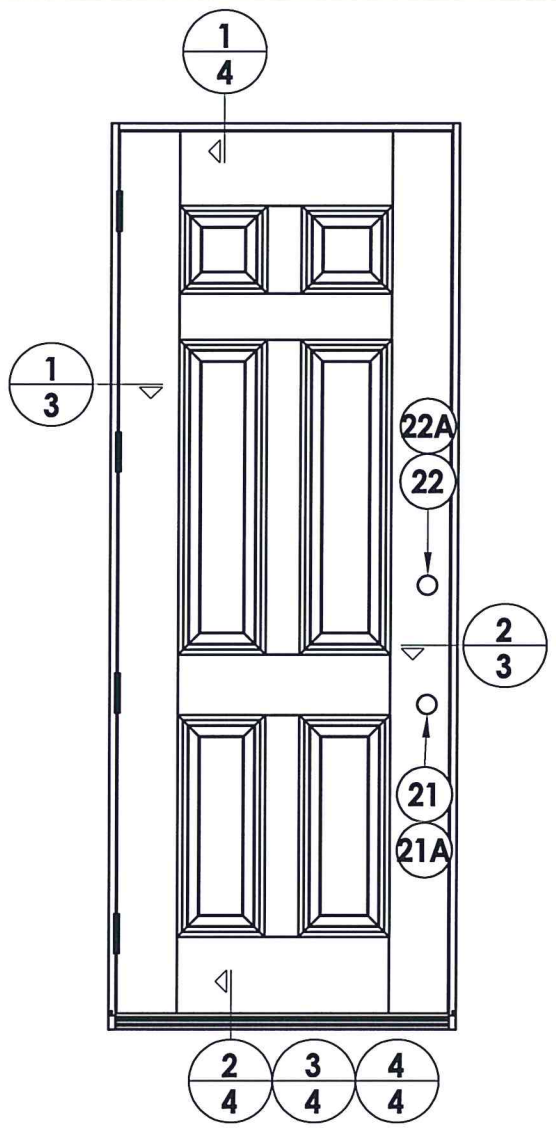
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 SCALE: N.T.S.  
 DWG. BY: AEM  
 CHK. BY: LFS  
 DRAWING NO.: TX-715  
 SHEET 2 OF 7



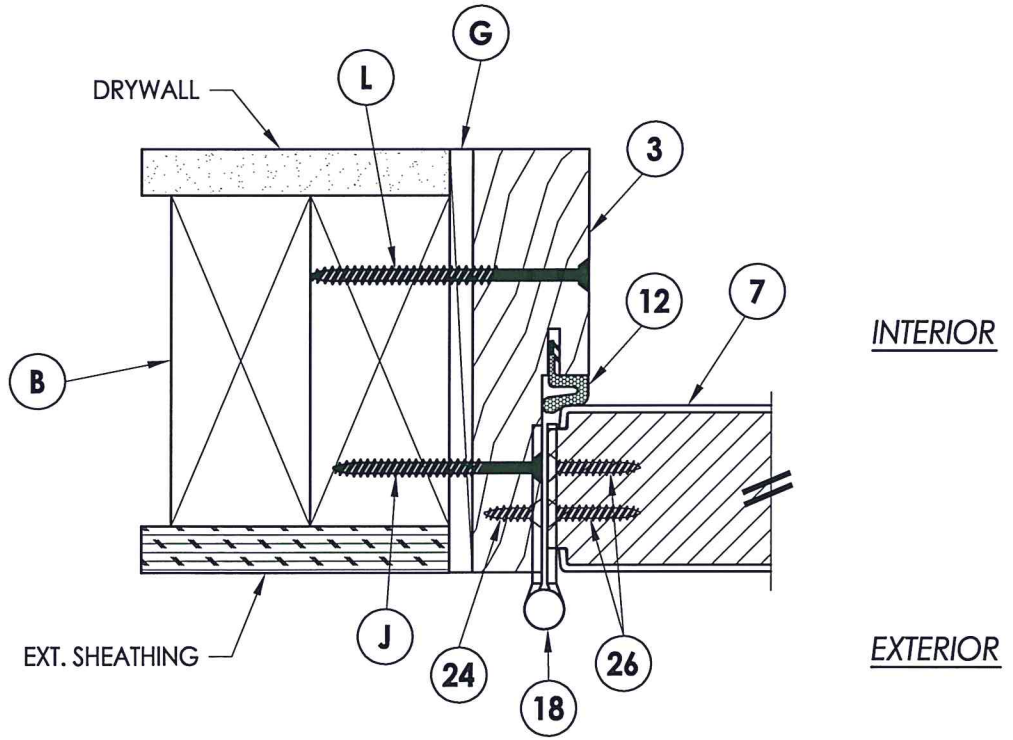
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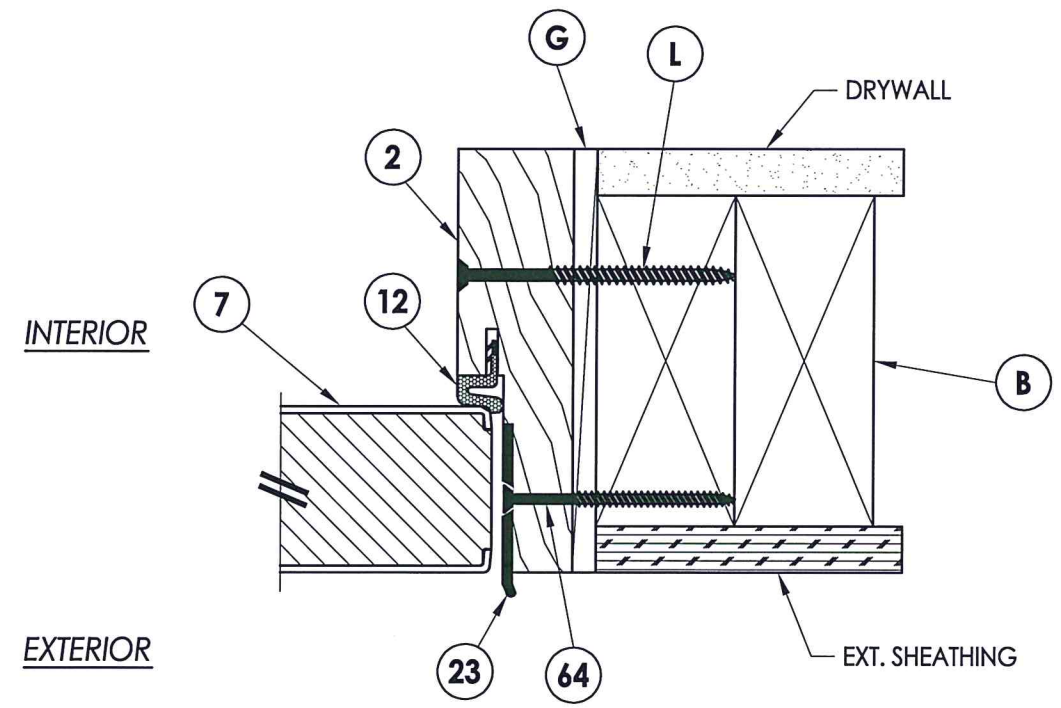
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HARDWARE CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 740	21
	DEADBOLT: 780	22

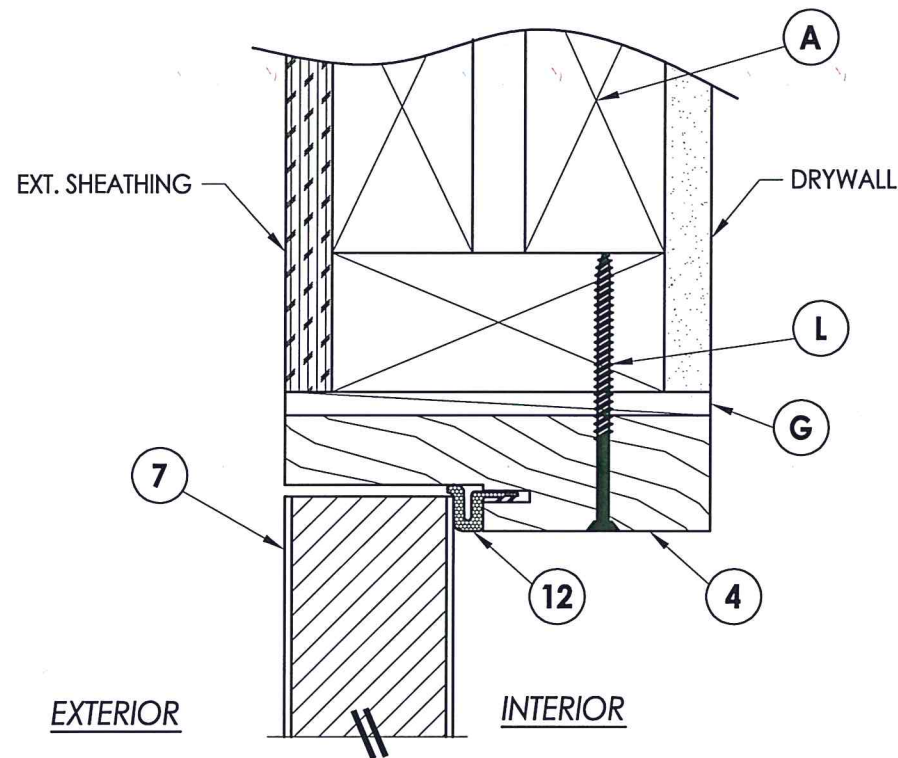


**1** HORIZONTAL CROSS SECTION  
**3** Outswing shown  
 Inswing also approved

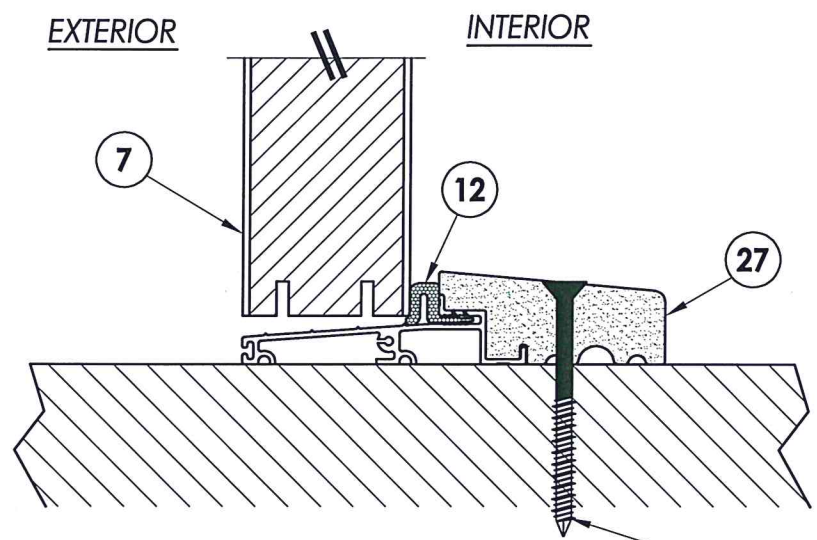


**2** HORIZONTAL CROSS SECTION  
**3** Outswing shown  
 Inswing also approved

PRODUCT:		TRINITY GLASS INT'L 8'0 PREMIUM OPAQUE	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS	BY
3	2/13/20	UPDATE TO 2018 IBC/IRC	LFS
2	7/27/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW
DATE: 11/21/05			
SCALE: N.T.S.			
DWG. BY: AEM			
CHK. BY: LFS			
DRAWING NO.: TX-715			
SHEET 3 OF 7			

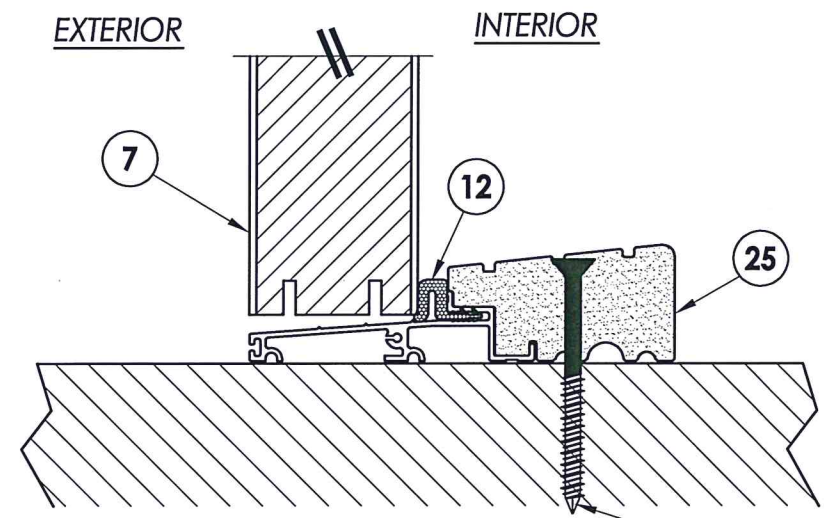


**1 VERTICAL CROSS SECTION**  
**4** Outswing shown  
 Inswing also approved



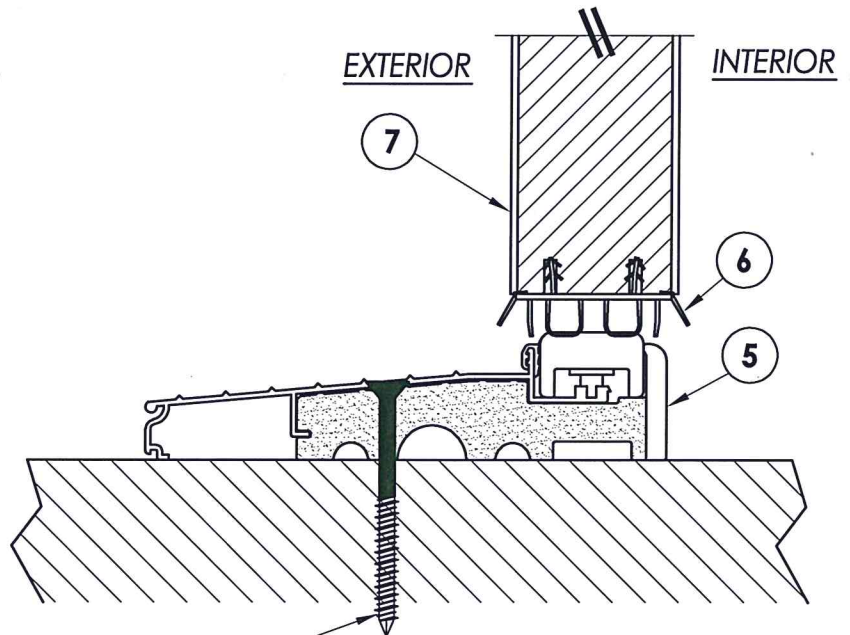
**2 VERTICAL CROSS SECTION**  
**4** Outswing configuration

**L** WOOD  
**P** CONCRETE



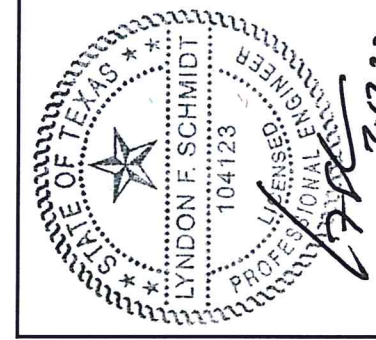
**3 VERTICAL CROSS SECTION**  
**4** Outswing configuration

**L** WOOD  
**P** CONCRETE



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

**L** WOOD  
**P** CONCRETE



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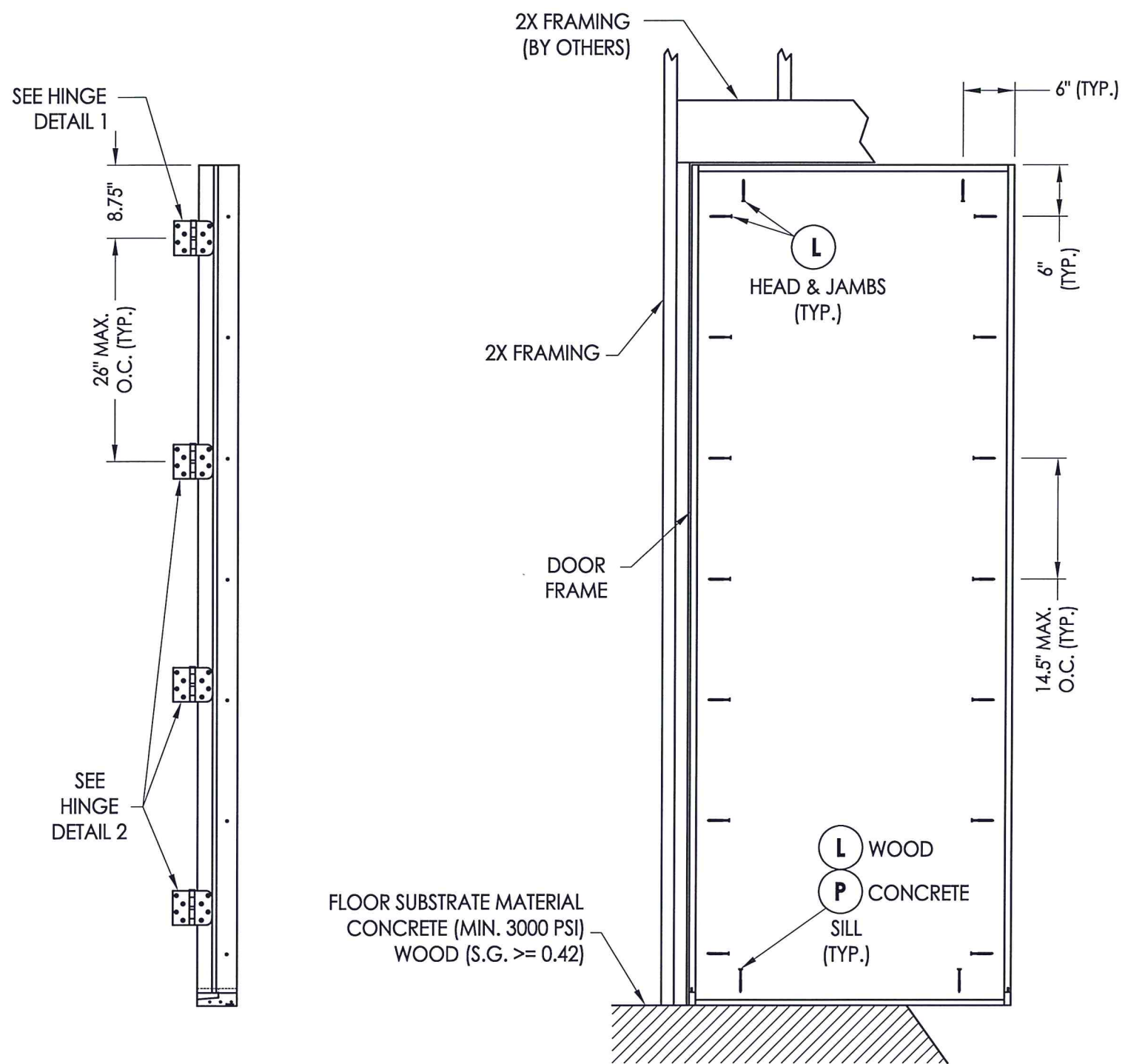
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PRODUCT: TRINITY GLASS INT'L  
 80 PREMIUM OPAQUE

PART OR ASSEMBLY:  
 VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	2/13/20	UPDATE TO 2018 IBC/IRC
2	7/27/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

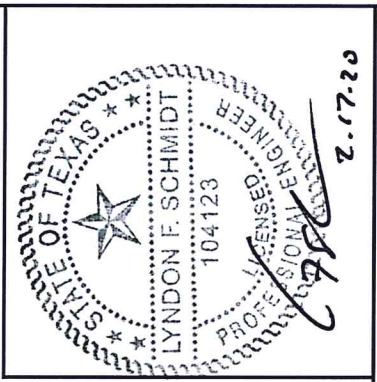
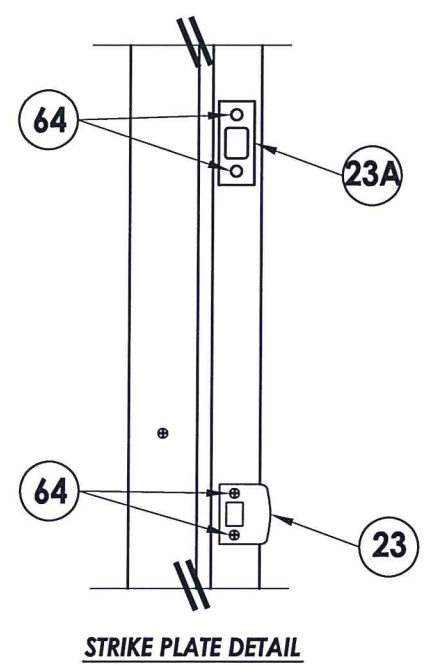
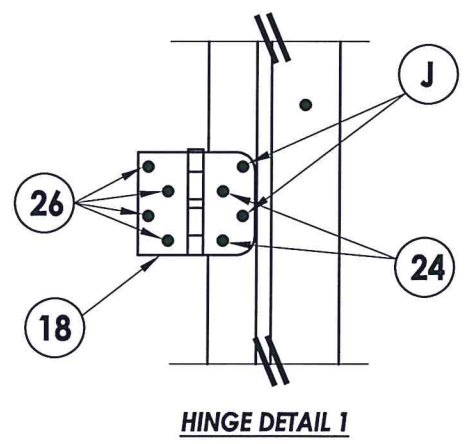
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 SHEET 4 OF 7



**HINGE JAMB**

**FRAME ANCHORING**  
Stud construction

**STRIKE JAMB**



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PRODUCT: TRINITY GLASS INT'L  
80 PREMIUM OPAQUE

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	2/13/20	UPDATE TO 2018 IBC/IRC
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		NO. DATE

DATE: 11/21/05

SCALE: N.T.S.

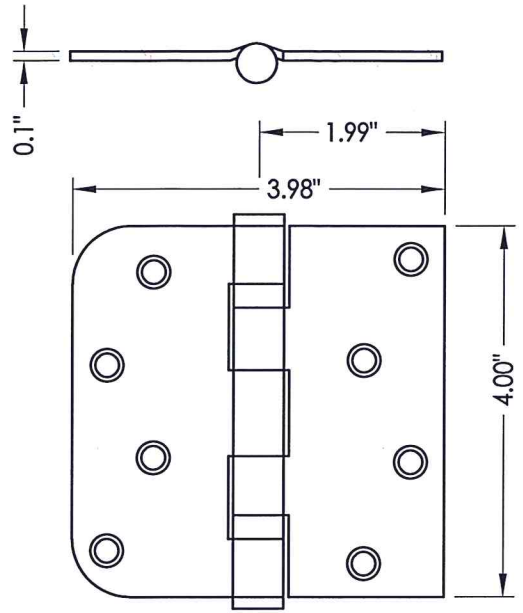
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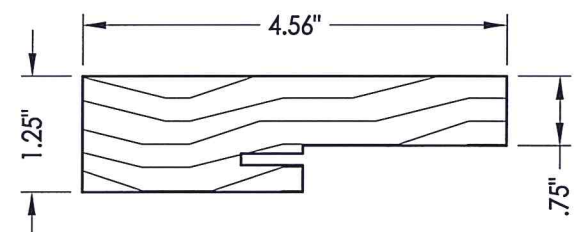
DRAWING NO.: TX-715

SHEET 5 OF 7

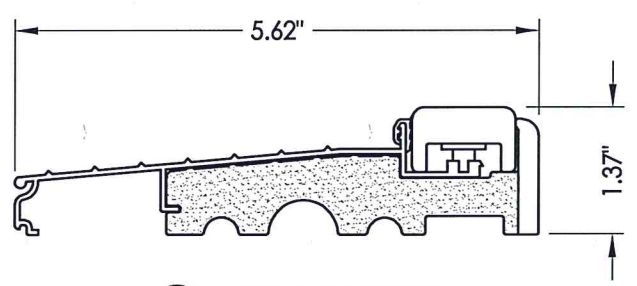
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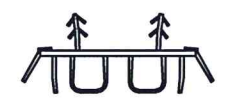
18 HINGE



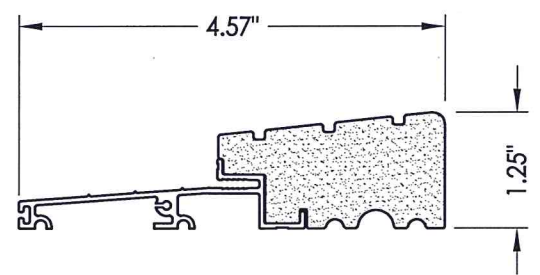
4 3 2 SIDE & HEAD JAMBS



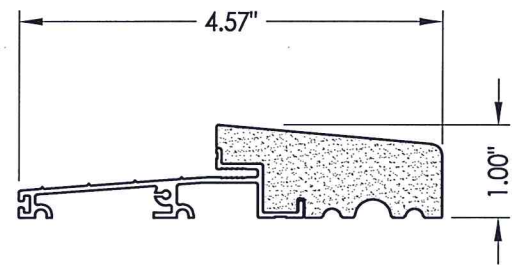
5 INSWING THRESHOLD



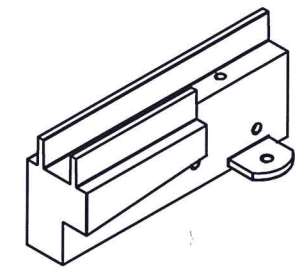
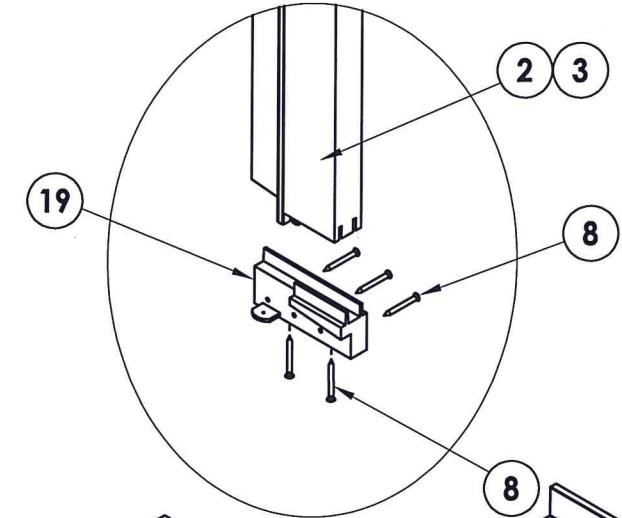
6 DOOR BOTTOM SWEEP



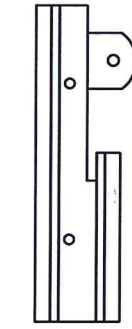
25 OUTSWING THRESHOLD  
High-dam option



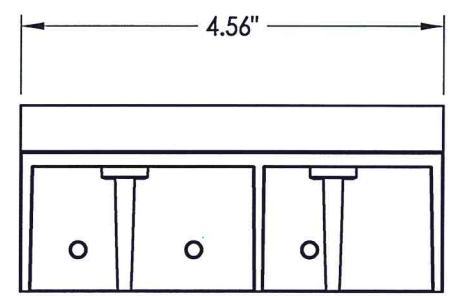
27 OUTSWING THRESHOLD



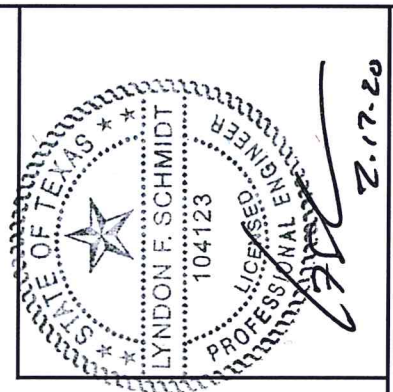
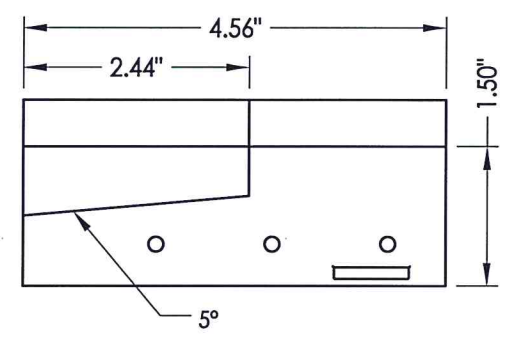
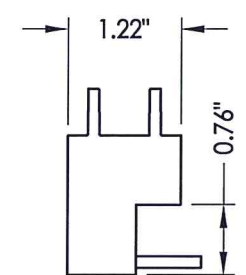
SILLKEY, LEFT  
SCALE: NONE



SILLKEY, RIGHT  
SCALE: NONE



19 SILLKEY DETAILS  
Optional



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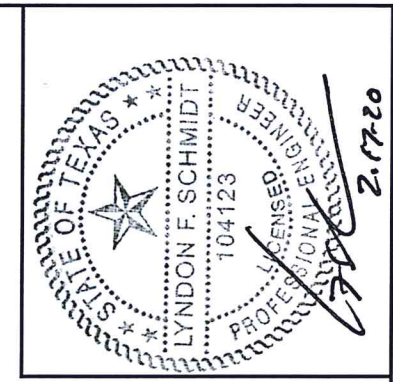
PRODUCT: TRINITY GLASS INT'L  
80 PREMIUM OPAQUE

PART OR ASSEMBLY: COMPONENTS

NO.	DATE	REVISIONS
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CHK. BY: LFS  
DRAWING NO.: TX-715  
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	#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
2	STRIKE 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
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 1.0" PFH WS	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
46	DOOR PANEL CORE FOAMED	POLYURETHANE
64	#8 X 2" PFH SCREW	STEEL



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PRODUCT: TRINITY GLASS INT'L  
8'0" PREMIUM OPAQUE

PART OR ASSEMBLY:  
BILL OF MATERIALS

NO.	DATE	REVISIONS
3	2/13/20	UPDATE TO 2018 IBC/IRC
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		BY

DATE: 11/21/05  
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DWG. BY: AEM  
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DRAWING NO.: TX-715  
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. 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.