



TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

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

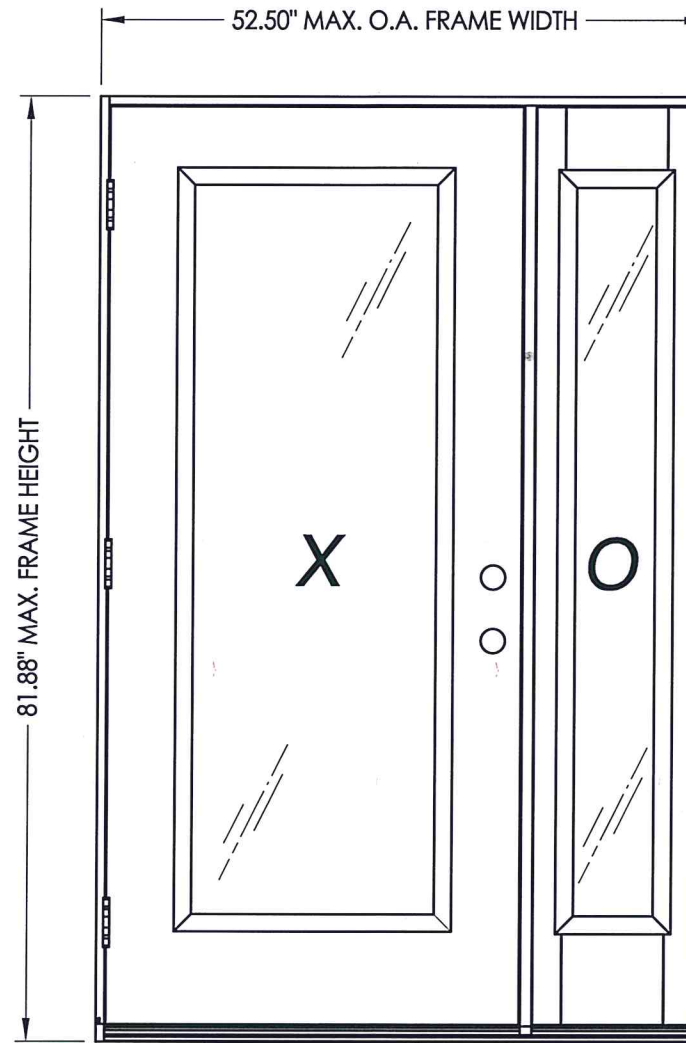
EVALUATED FOR USE IN THE STATE OF TEXAS

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 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.

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



CONTINUOUS HEADER AND SILL

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	52.50" x 81.88"	G1	+55.0	-55.0
OUTSWING	52.50" x 80.75"		+55.0	-55.0

2-13-20

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	REVISIONS
3	2/12/20	UPDATE TO 2018 IRC/IBC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 8/26/05

SCALE: N.T.S.

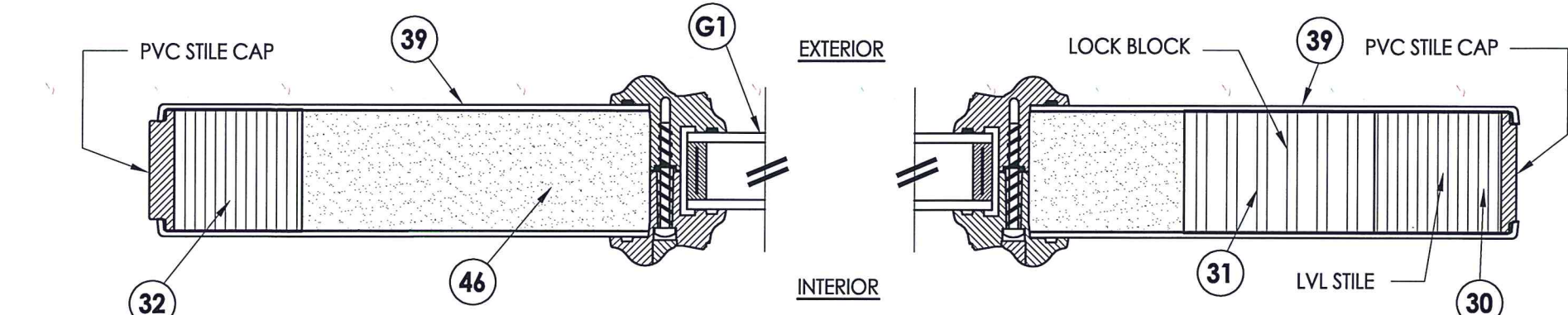
DWG. BY: EW

CHK. BY: LFS

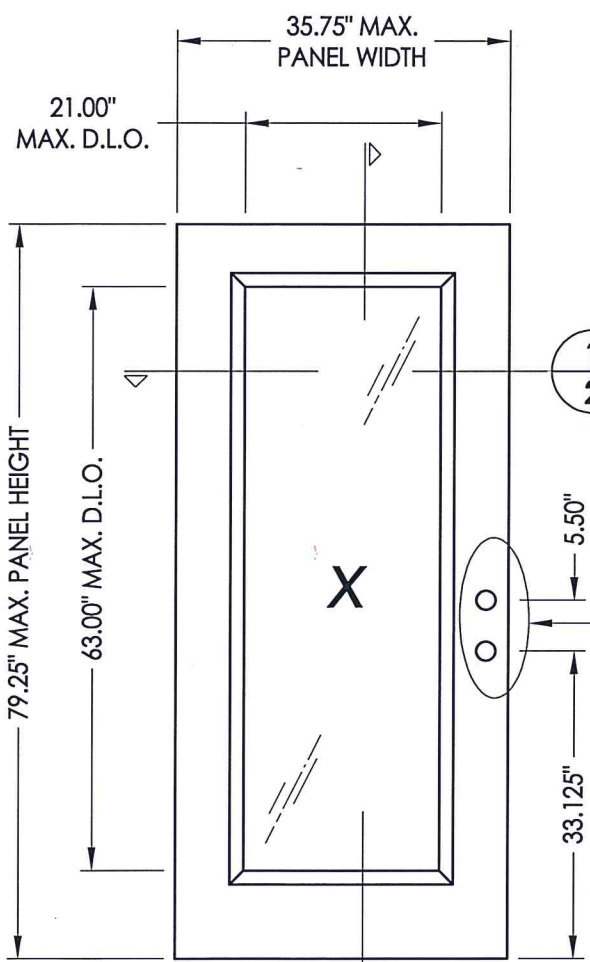
DRAWING NO.: TX-597

SHEET 1 OF 9

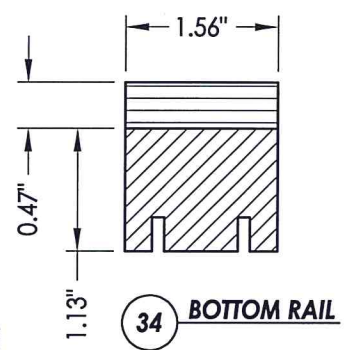
R:\Clients\Trinity Glass Permanent\B - Texas Dept of Ins\DR-212C - Drawings\DR-212 2018 IBC\TX-597.dwg, 2



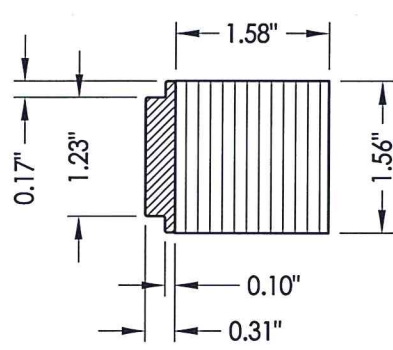
1
2 **HORIZONTAL CROSS SECTION**



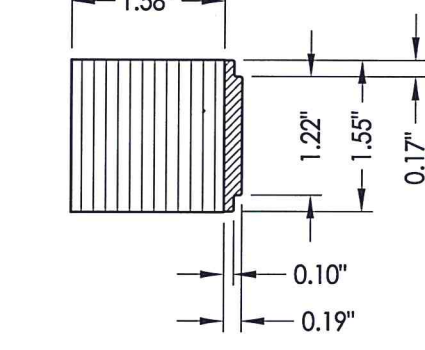
7 **PREMIUM LIPLITE FIBERGLASS DOOR**



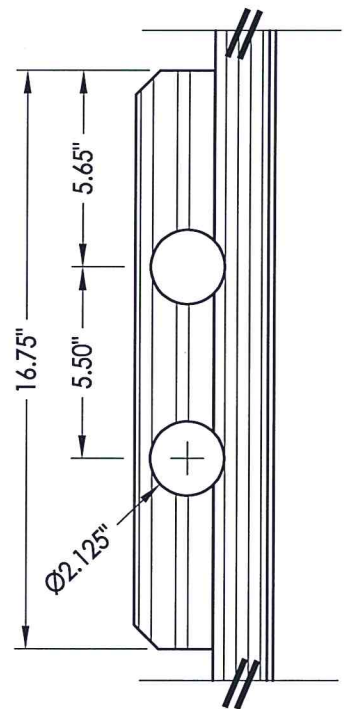
34 **BOTTOM RAIL**



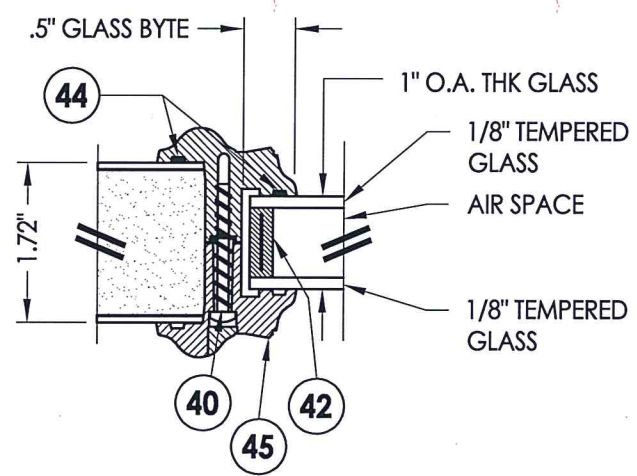
32 **HINGE STILE**



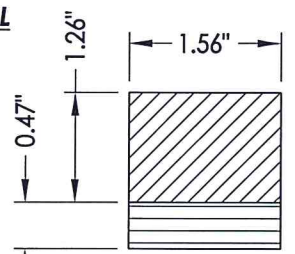
30 **LATCH STILE**



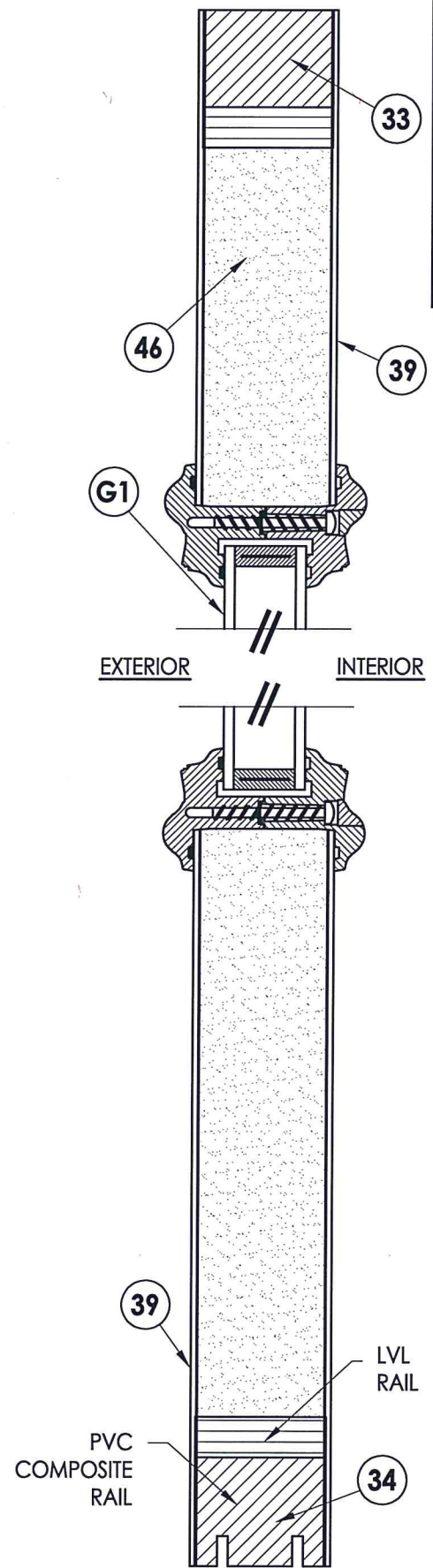
DETAIL 1



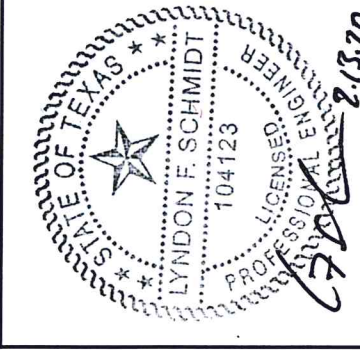
G1 **GLAZING DETAIL**



33 **TOP RAIL**



2
2 **VERTICAL CROSS SECTION**



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

DATE: 8/26/05

SCALE: N.T.S.

DWG. BY: EW

CHK. BY: LFS

DRAWING NO.: TX-597

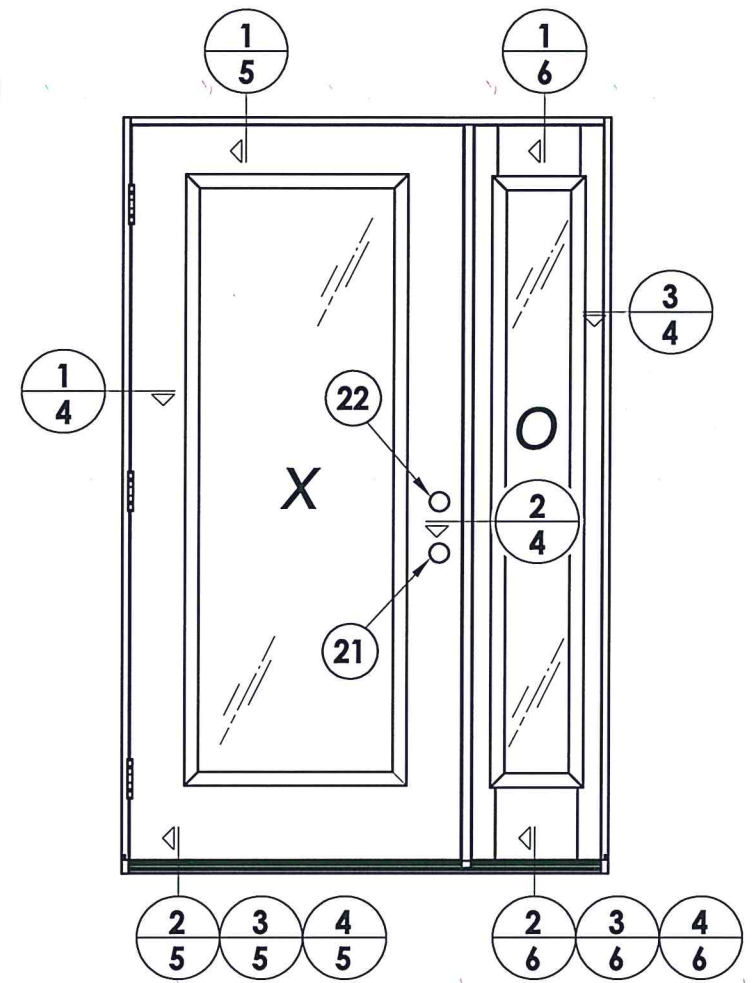
SHEET 2 OF 9

NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

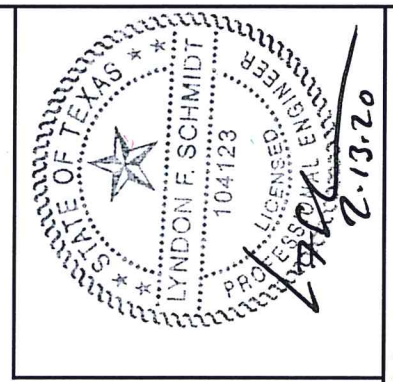
R:\Clients\Trinity Glass Permanent\B - Texas Dept of Ins\DR-212C - Drawings\DR-212 2018 IBC\TX-597.dwg, 4

NOTE:

- Sidelite ass'y fastener: 6" from each end and 4 more screws equally spaced between (6 screws total per jamb).



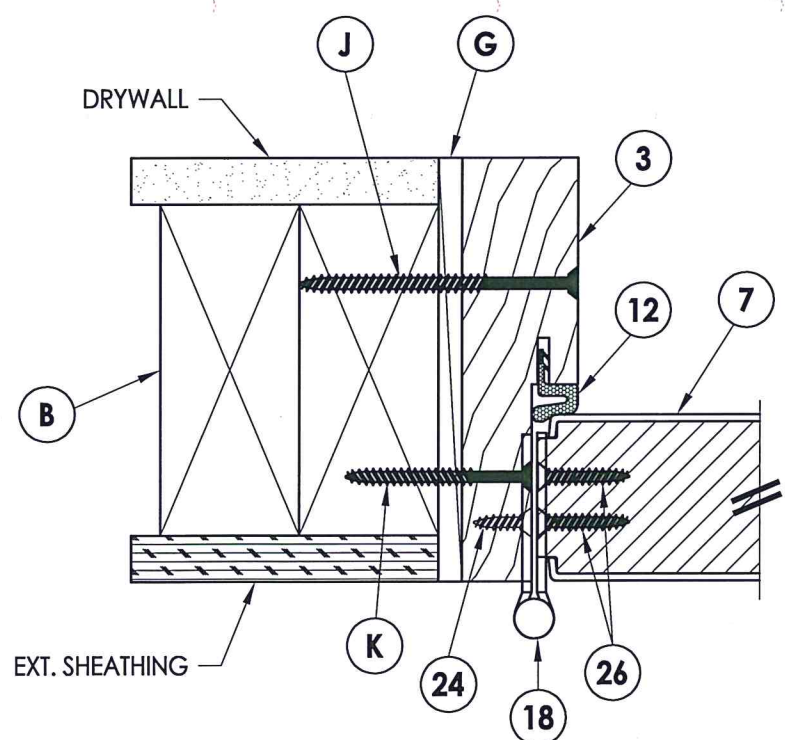
HARDWARE CHART		
MANUFACTURER	MODEL	ITEM #
KWIKSET	LOCK: 740	21
	DEADBOLT: 780	22
KWIKSET	LOCK: COMBO 660	21
	DEADBOLT: COMBO 660	22
SCHLAGE	LOCK: MAX. SECURITY	21
	DEADBOLT: MAX. SECURITY	22



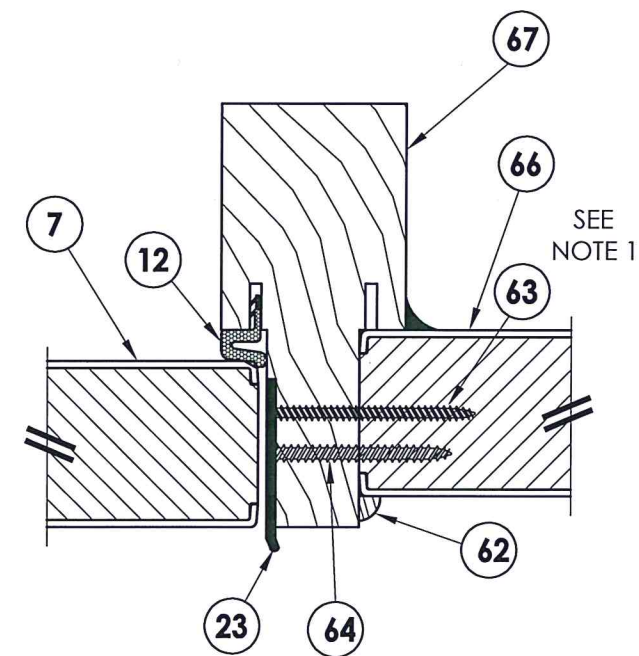
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

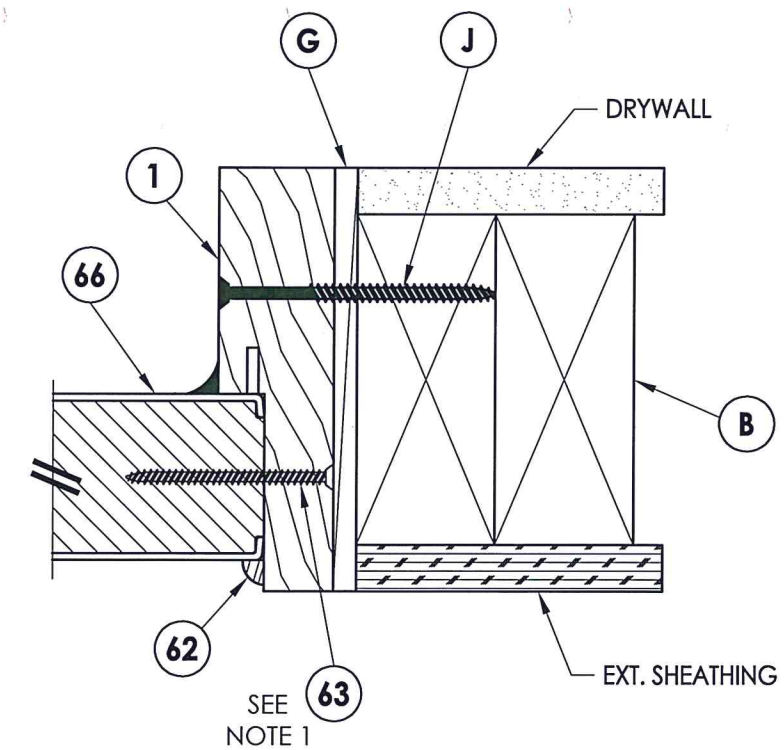
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



1 HORIZONTAL CROSS SECTION
4 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

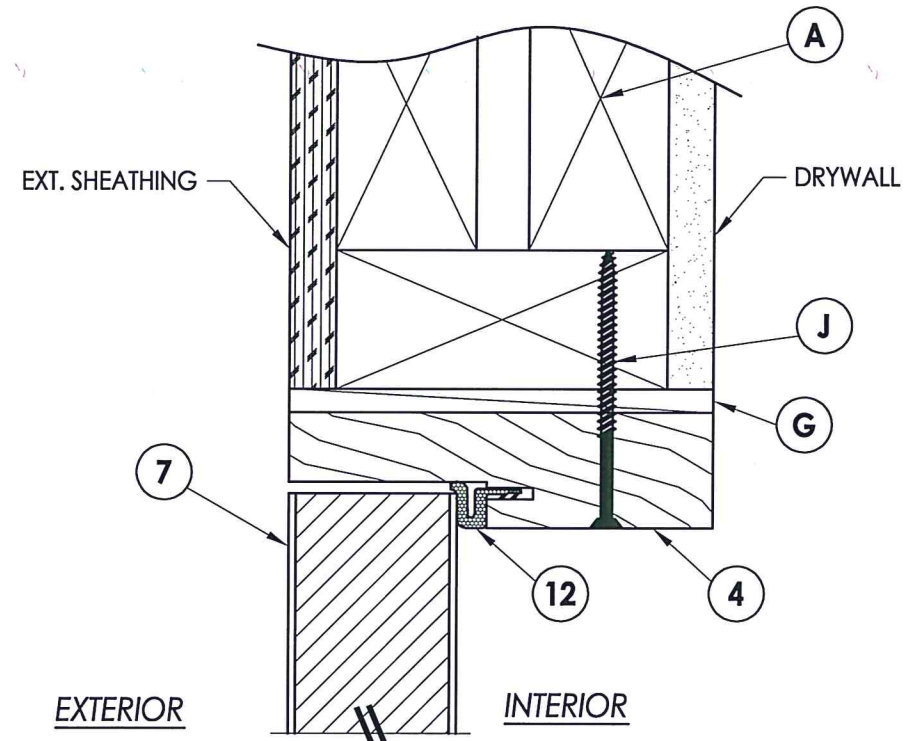
PRODUCT:
TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

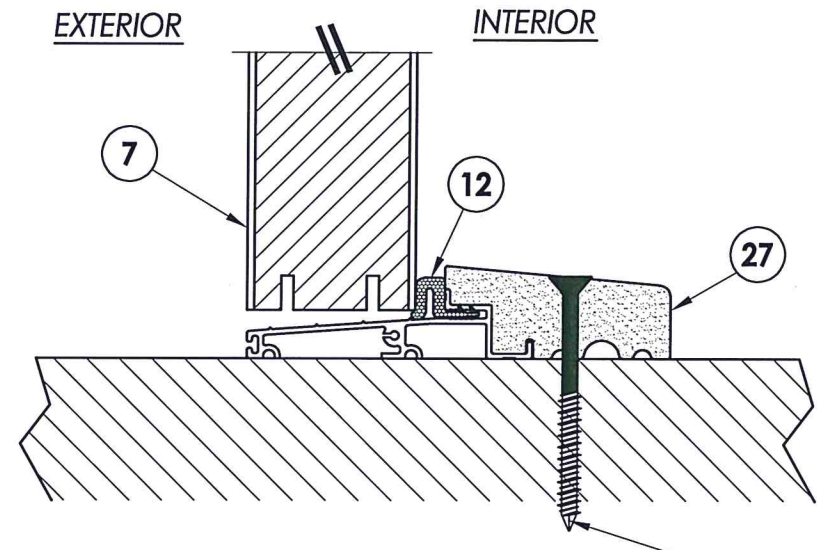
NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-597
SHEET 4 OF 9

R:\Clients\Trinity Glass Permanent\B - Texas Dept of Ins\DR-212\C - Drawings\DR-212 2018 IBC\TX-597.dwg, 5

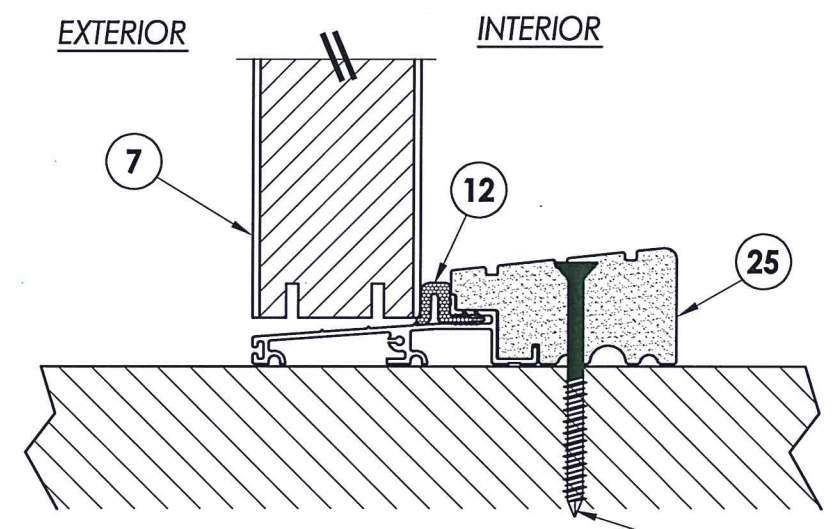


1 VERTICAL CROSS SECTION
5 Outswing shown
 Inswing also approved



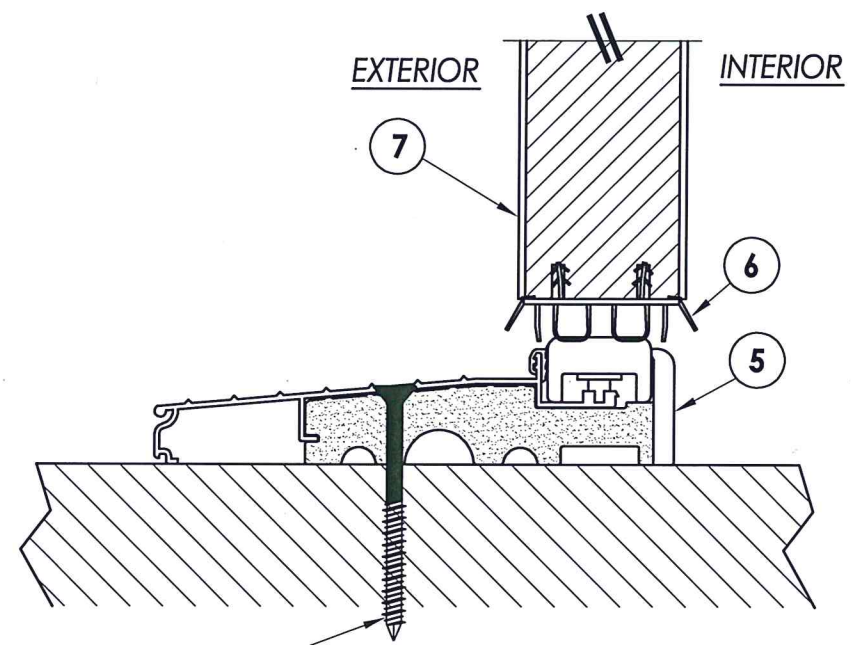
2 VERTICAL CROSS SECTION
5 Outswing configuration

L WOOD
P CONCRETE



3 VERTICAL CROSS SECTION
5 Outswing configuration

L WOOD
P CONCRETE



4 VERTICAL CROSS SECTION
5 Inswing configuration

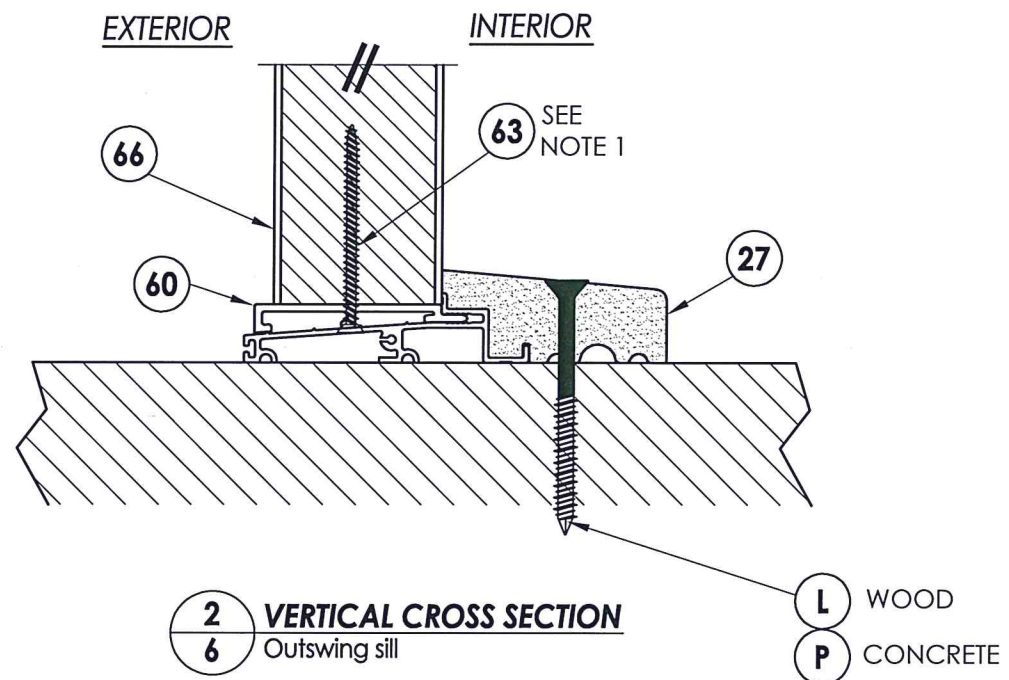
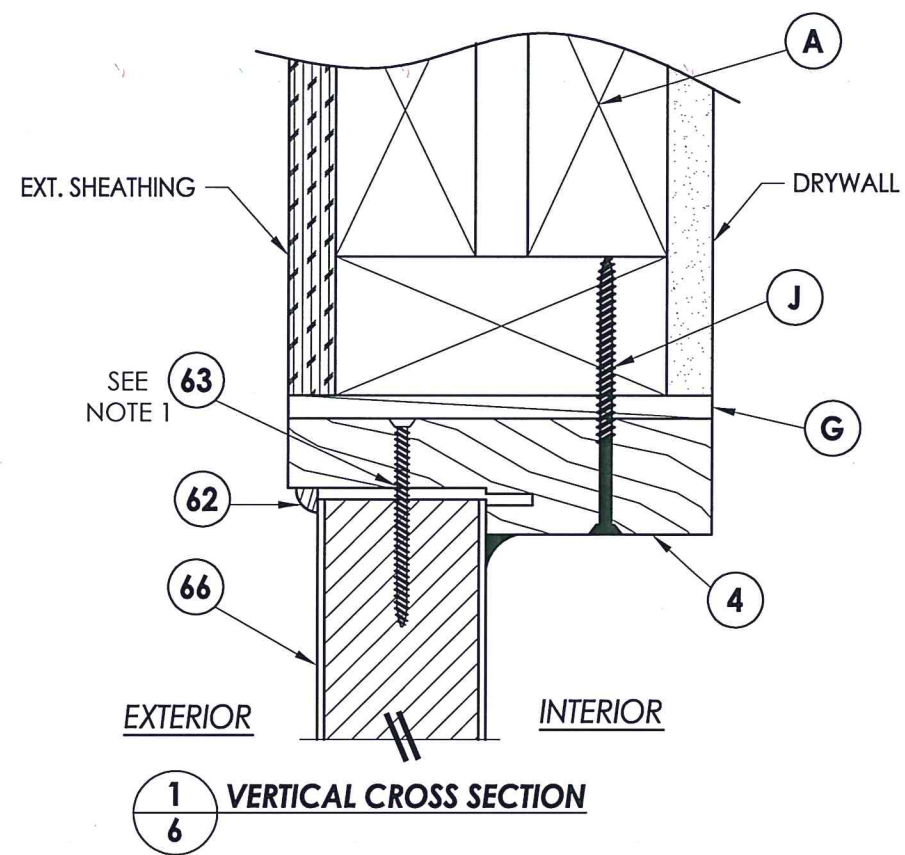


Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Vairico FL, 33595
 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

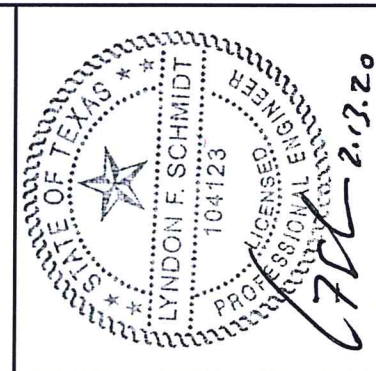
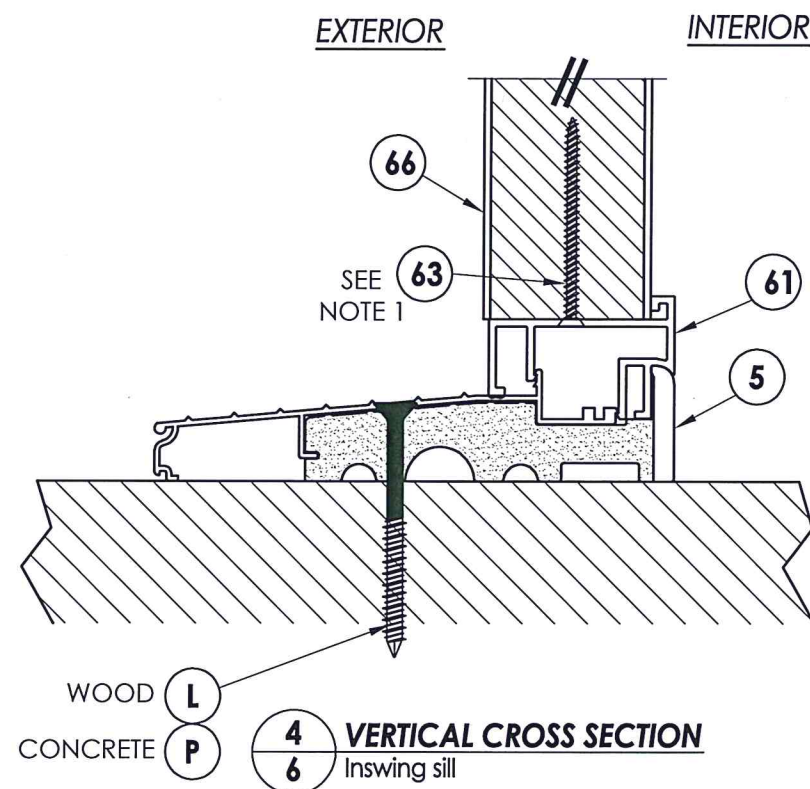
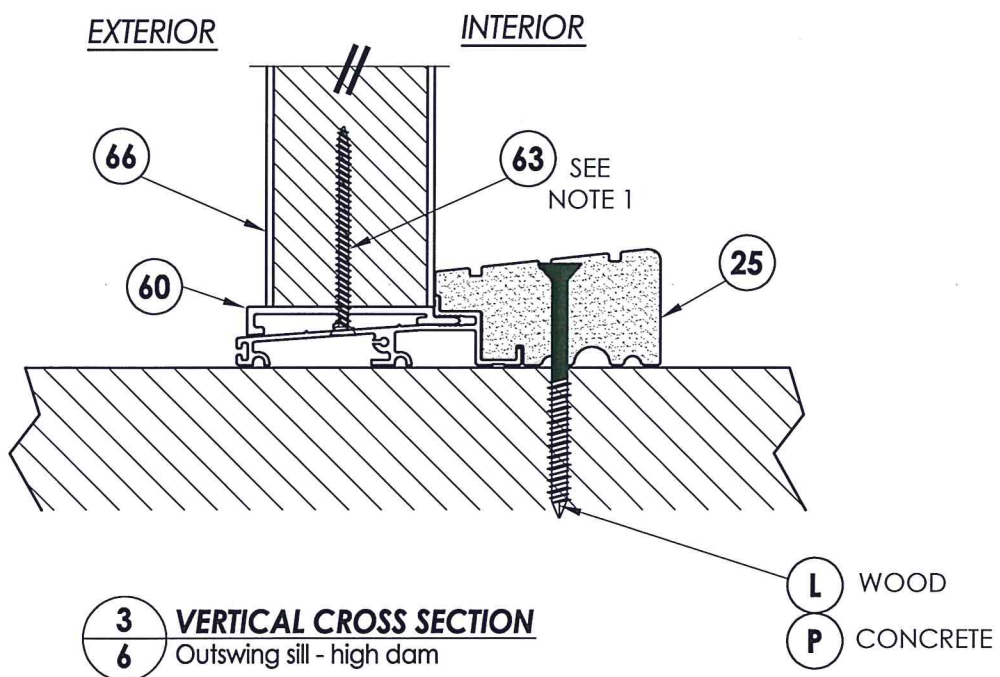
NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		EW
		BY

DATE:	8/26/05
SCALE:	N.T.S.
DWG. BY:	EW
CHK. BY:	LFS
DRAWING NO.:	TX-597
SHEET	5 OF 9



NOTE:

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



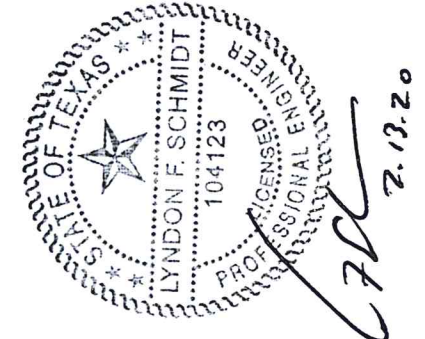
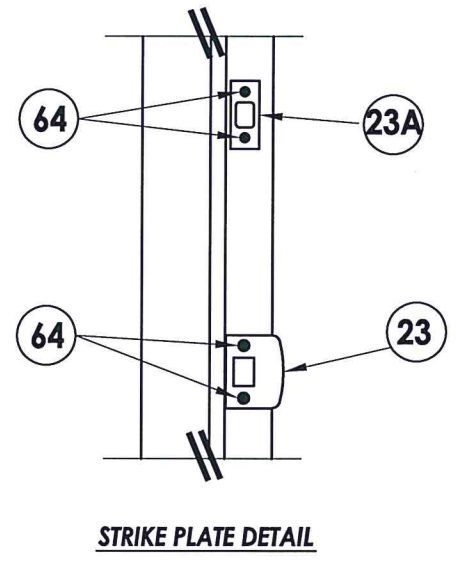
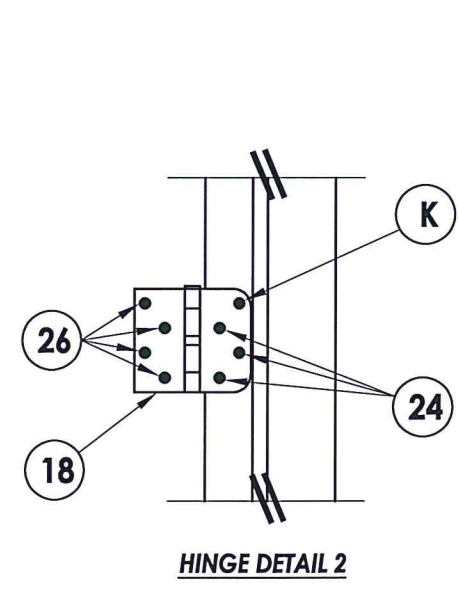
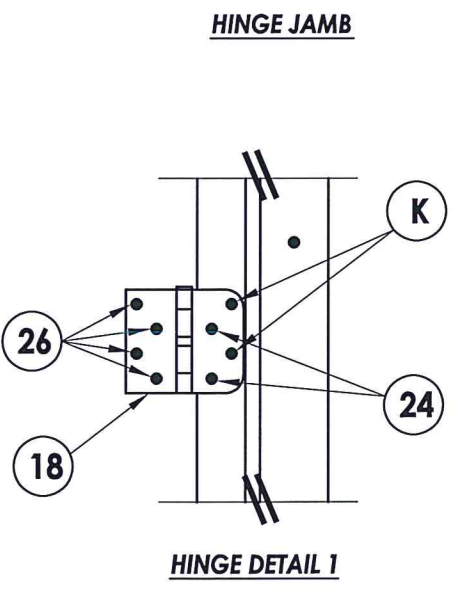
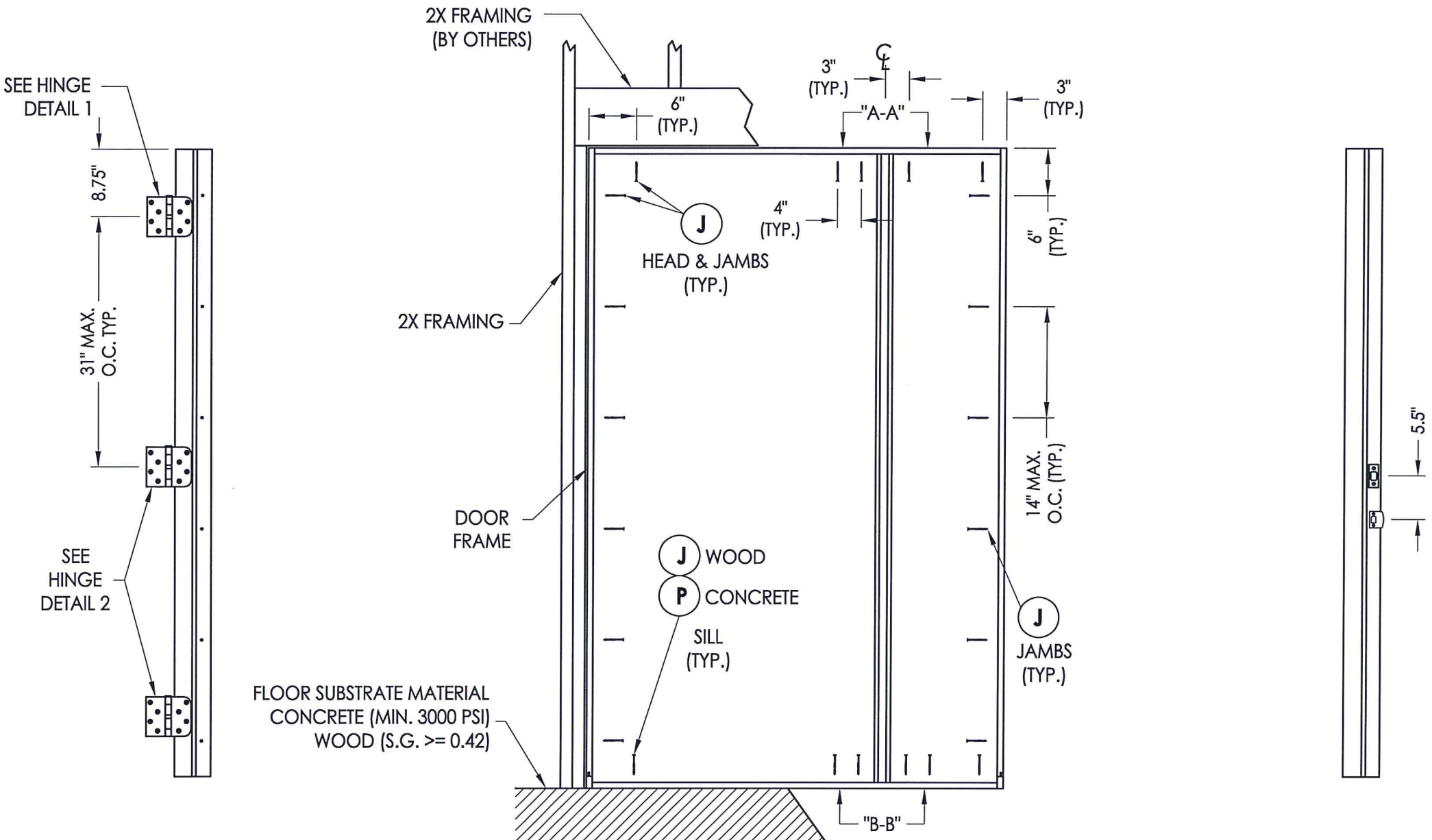
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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:	VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
3	2/12/20	LFS	UPDATE TO 2018 IBC/IRC
2	7/23/09	AL	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	EW	REVISED LOCKSET NOMENCLATURE

DATE:	8/26/05
SCALE:	N.T.S.
DWG. BY:	EW
CHK. BY:	LFS
DRAWING NO.:	TX-597
SHEET	6 OF 9



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

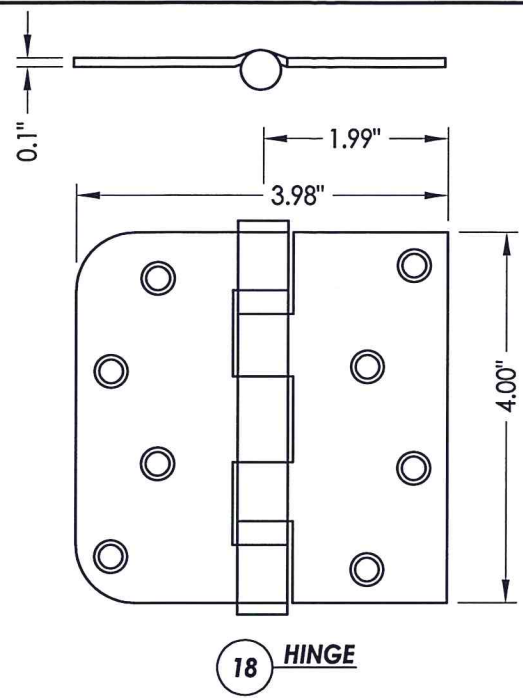
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

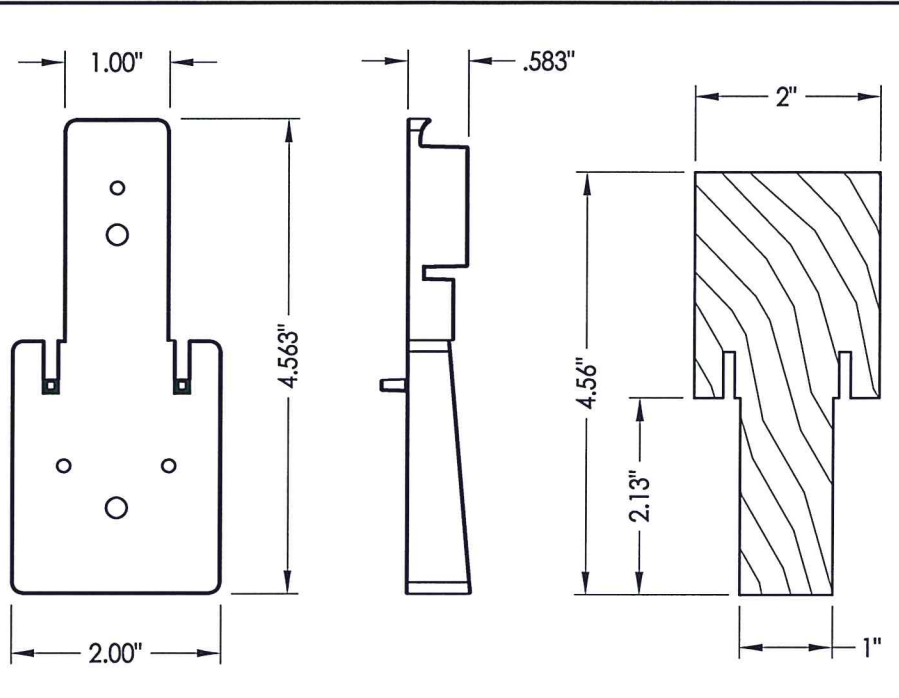
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	REVISED LOCKSET NOMENCLATURE
		BY

DATE: 8/26/05
 SCALE: N.T.S.
 DWG. BY: EW
 CHK. BY: LFS
 DRAWING NO.: TX-597
 SHEET 7 OF 9

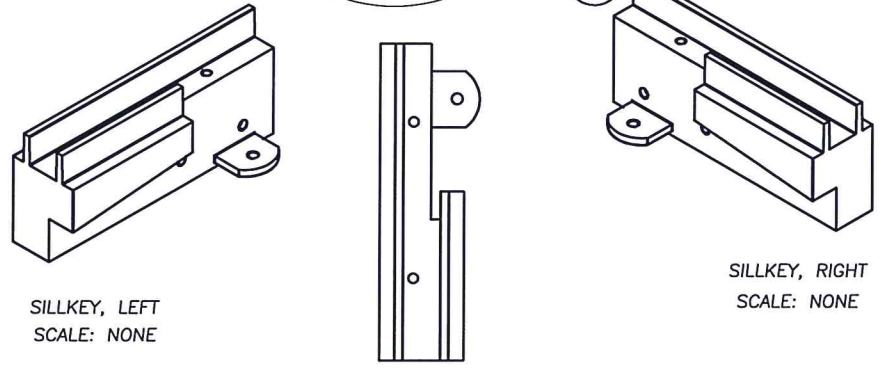


18 HINGE



67 INTEGRAL MULLION

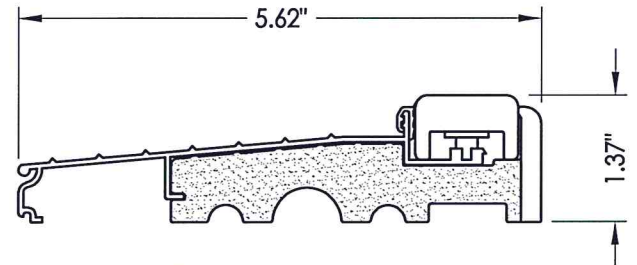
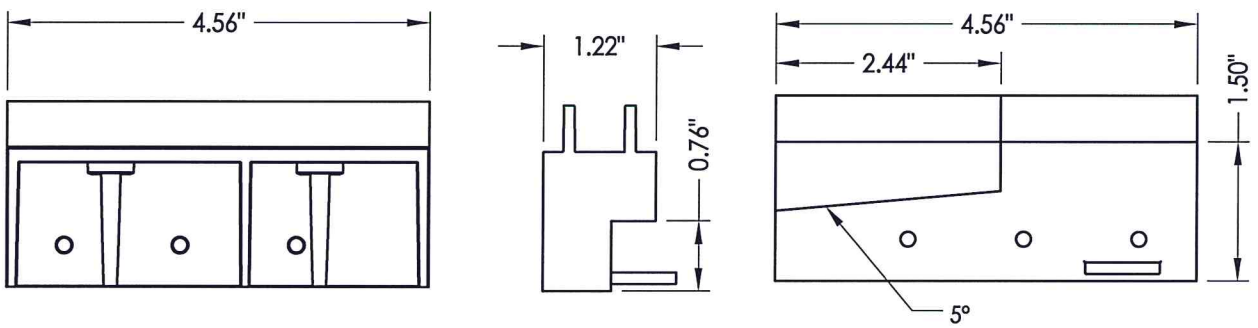
69 MULLION BASE KIT
Optional



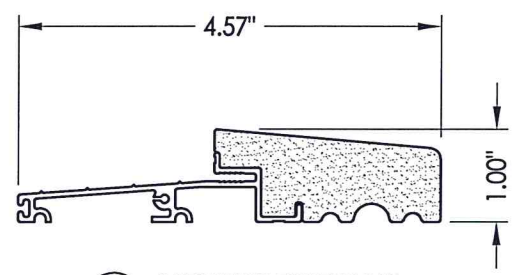
SILLKEY, LEFT
SCALE: NONE

SILLKEY, RIGHT
SCALE: NONE

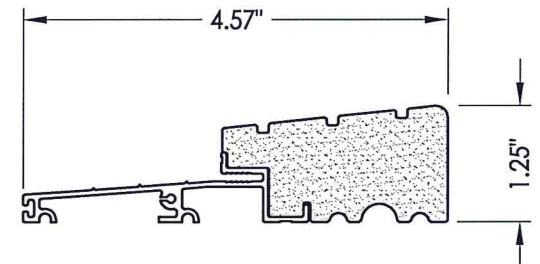
19 SILLKEY DETAILS
Optional



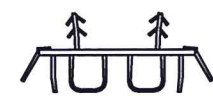
5 INSWING THRESHOLD



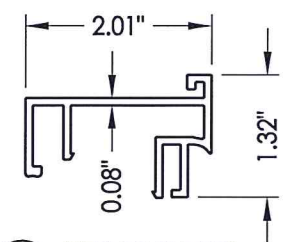
27 OUTSWING THRESHOLD



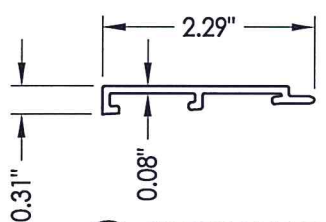
25 OUTSWING THRESHOLD
High-dam option



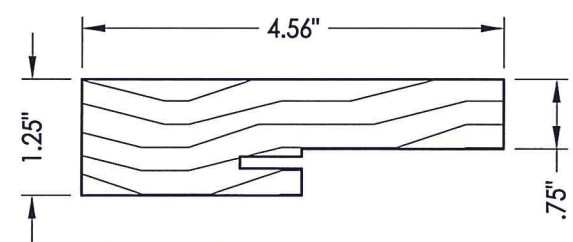
6 DOOR BOTTOM SWEEP



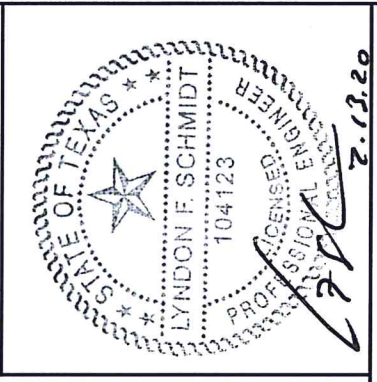
61 SIDELITE SPACER
Inswing



60 SIDELITE SPACER
Outswing



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 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:		COMPONENTS	
NO.	DATE	BY	REVISIONS
3	2/12/20	LFS	UPDATE TO 2018 IBC/IRC
2	7/23/09	AL	TDI PRODUCT EVALUATION UPDATE
1	6/28/06	EW	REVISED LOCKSET NOMENCLATURE

DATE: 8/26/05

SCALE: N.T.S.

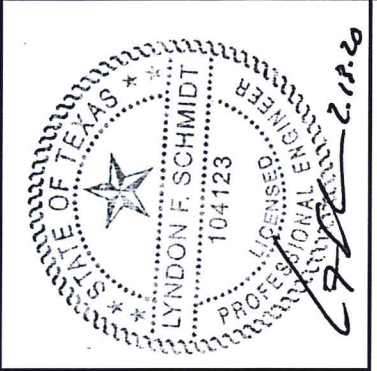
DWG. BY: EW

CHK. BY: LFS

DRAWING NO.: TX-597

SHEET 8 OF 9

R:\Clients\Trinity Glass Permanent\B - Texas Dept of Ins\DR-212\C - Drawings\DR-212 2018 IBC\TX-597.dwg, 9



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

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	2X HEADER FRAMING SG >= 0.42	WOOD	26	#9 X 1" PFH SCREW	STEEL
B	2X FRAMING SG >= 0.42	WOOD	27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
G	MAX. 1/4" SHIM SPACE	WOOD	30	LATCH STILE - SG >= 0.42	LVL/PVC
J	#10 X 3" PFH WS	STEEL	31	LVL LOCK BLOCK	POPLAR
K	#9 X 2" PFH WS	STEEL	32	HINGE STILE - SG >= 0.42	LVL/PVC
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL	33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
3	HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	39	FIBERGLASS SKIN 0.079" MIN. THICKNESS	FIBERGLASS
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD	40	#8 X 1-1/8" SELF THREADING SCREW	STEEL
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUMINUM	42	ALUMINUM & BUTYL SPACER SYSTEM	ALUM./BUTYL
6	DOOR BOTTOM SWEEP	PVC	44	HOT MELT SEALANT / SILICONE	-
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-	45	LITE FRAME	PC/ASA
8	#6 X 1-1/4" PFH DRYWALL SCREW	STEEL	46	FOAM CORE	POLYURETHANE
9	#9 X 2-1/4" PFH WOOD SCREW	STEEL	60	SIDELITE SPACER - OUTSWING	PVC
12	WEATHER STRIP QEBD650 Q-LON	-	61	SIDELITE SPACER - INSWING	PVC
18	3.983" X 4.0" HINGE MIN 0.098" THICK	STEEL	62	QUARTER ROUND	WOOD
19	SILLKEY	PC/ASA	63	#8 X 2-1/4" PFH SCREW	STEEL
21	LOCK (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL	64	#8 X 2" PFH SCREW	STEEL
22	DEADBOLT (SEE LOCK & DEADBOLT RATINGS CHART)	STEEL	66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
23	STRIKE PLATE	STEEL	67	INTEGRAL MULLION - FINGER JOINT PINE (SG >= 0.42)	WOOD
23A	DEADBOLT PLATE	STEEL	69	MULLION BASE KIT	PC/ASA
24	#9 X 5/8" PFH SCREW	STEEL	73	LVL SIDELITE TOP RAIL (FULL LITE)	POPLAR
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.	74	LVL SIDELITE BOTTOM RAIL (FULL LITE)	POPLAR
			75	LVL SIDELITE STILE (FULL LITE)	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. 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.

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	REVISIONS
3	2/12/20	UPDATE TO 2018 IBC/IRC
2	7/23/09	TDI PRODUCT EVALUATION
1	6/28/06	REVISED LOCKSET NOMENCLATURE

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-597
SHEET 9 OF 9