Trinity Glass INTERNATIONAL

4621 192nd STREET EAST TACOMA, WA 98446

3'0 X 6'8 GLAZED PREMIUM FIBERGLASS SINGLE DOOR WITH SIDELITES (CHS) INSWING / OUTSWING

"NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Trinity Glazed Premium Fiberglass Door with sidelites (CHS) described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) 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 areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
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.

SUPPORTING DOCUMENTS & EVIDENCE

1. Testing per ASTM E330-02 as performed by Testing Evaluation Laboratories Inc. and reported in test report numbers TEL 08-01370020, TEL 05-0411-6 and TEL 06-0223-3, signed by Wendell W. Haney, P.E.
2. Calculations (Anchoring and Glass load resistance report ASTM E1300-04) prepared by Lyndon F. Schmidt, P.E.
3. Certificate of Participation issued by the National Accreditation and Management Institute, Inc., certifying that Trinity Glass Int'l is manufacturing products within a Quality Assurance program.

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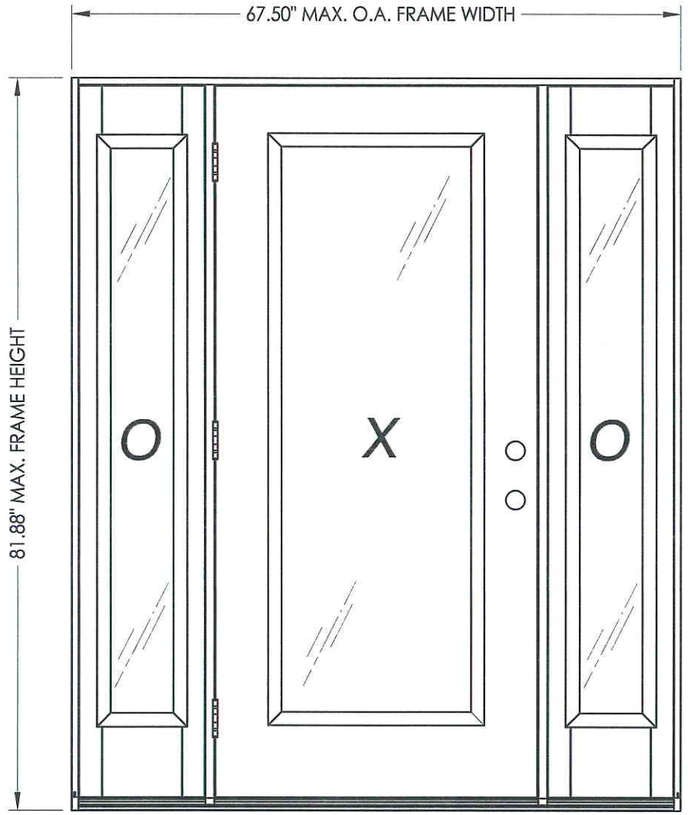
7	Frame anchoring
8	Components
9	Bill of materials



CONTINUOUS HEADER AND SILL

SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	67.50" x 81.88"	G1	+55.0	-55.0
OUTSWING	67.50" x 80.75"		+55.0	-55.0

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER

1-6-10

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

REVISIONS

NO.	DATE			
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL	
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-596
SHEET 1 OF 9

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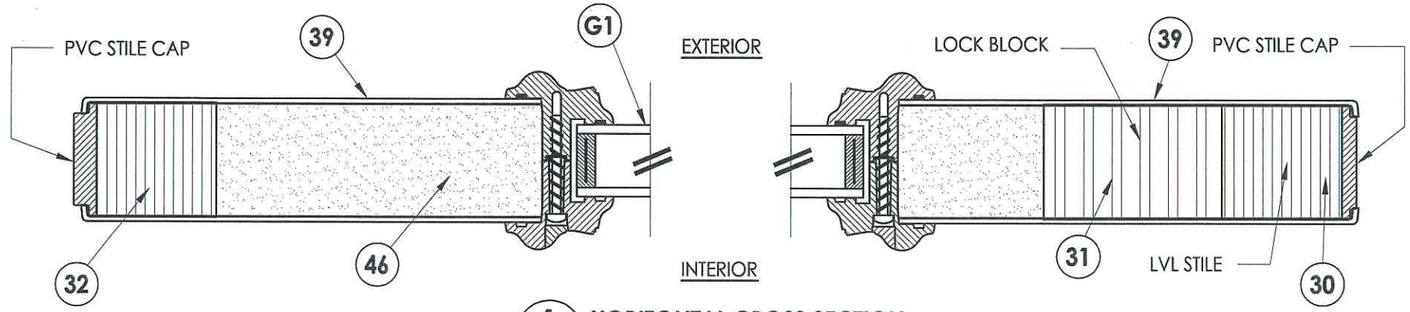
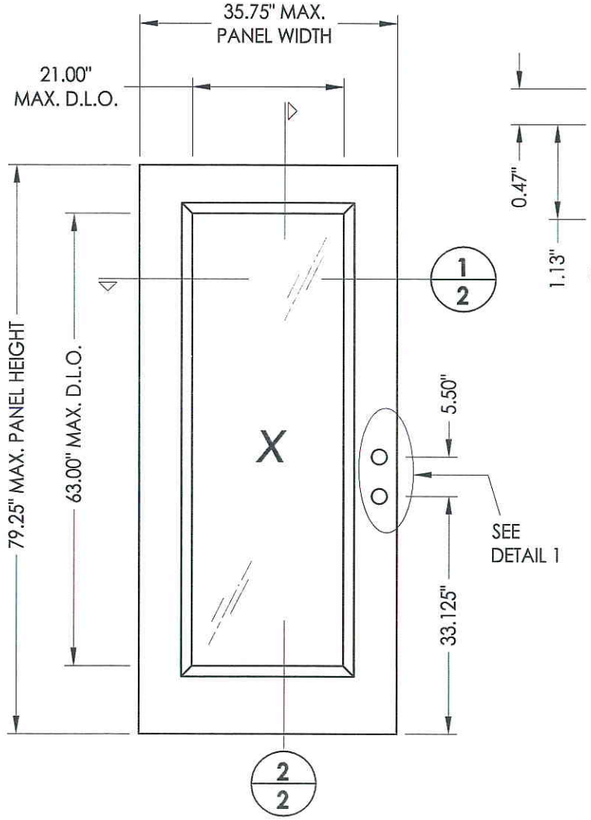
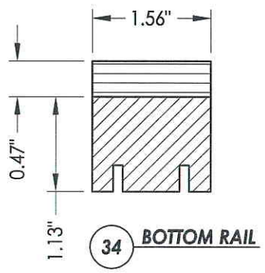


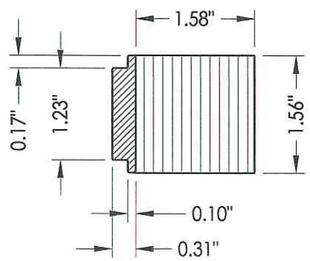
1/2 **HORIZONTAL CROSS SECTION**



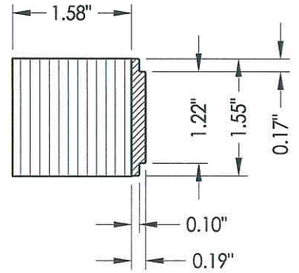
7 **PREMIUM LIPLITE FIBERGLASS DOOR**



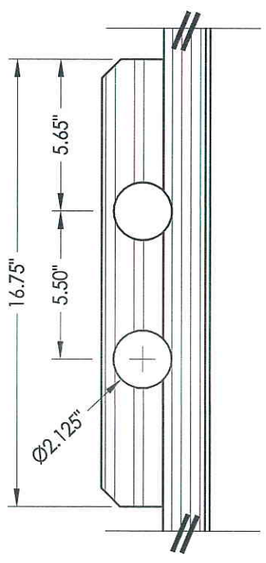
34 **BOTTOM RAIL**



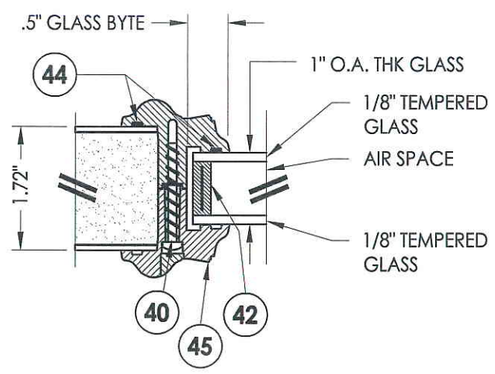
32 **HINGE STILE**



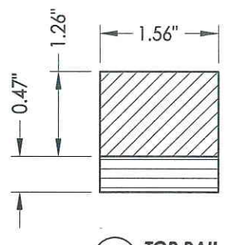
30 **LATCH STILE**



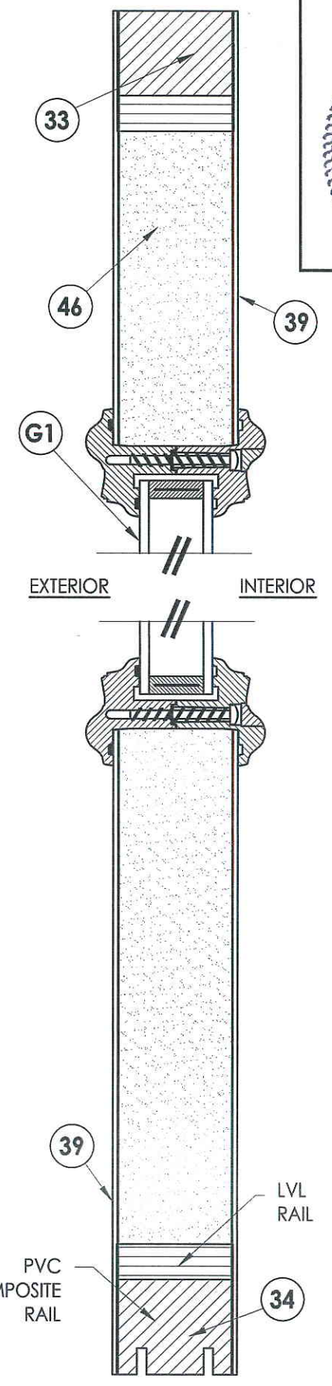
DETAIL 1



G1 **GLAZING DETAIL**



33 **TOP RAIL**



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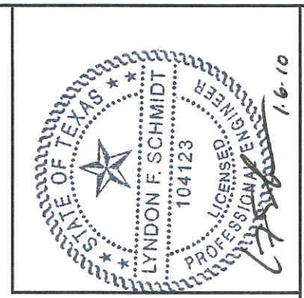

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY: DOOR PANEL CONSTRUCTION DETAILS AND GLAZING DETAILS

NO.	DATE	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 2 OF 9

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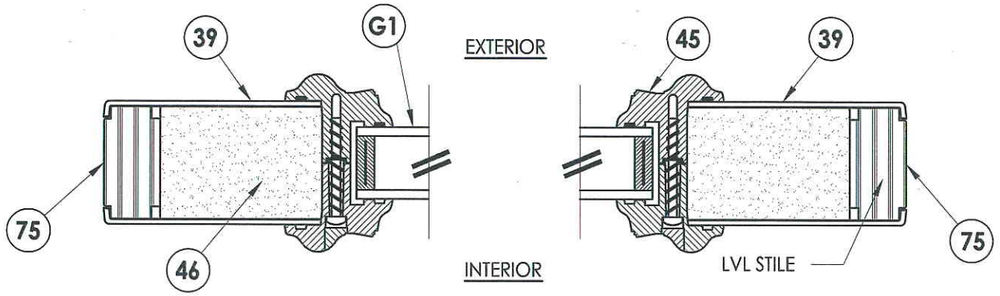
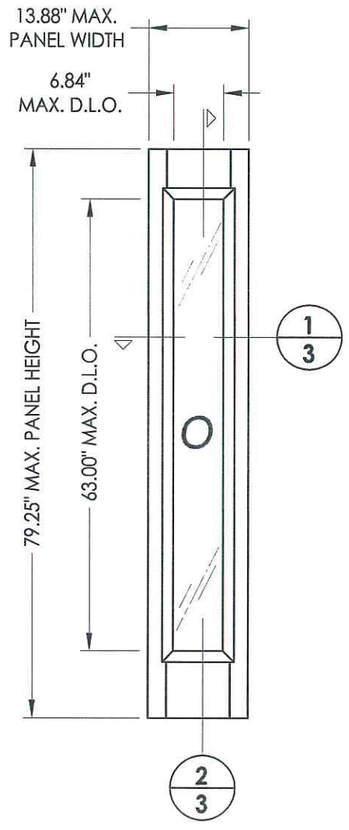
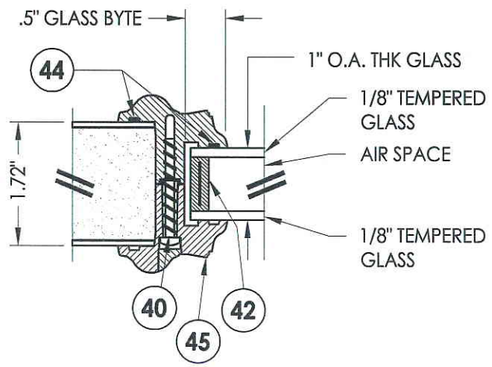


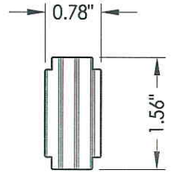
1/3 **HORIZONTAL CROSS SECTION**



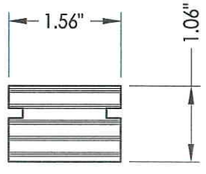
66 **PREMIUM LIPLITE FIBERGLASS SIDELITE**



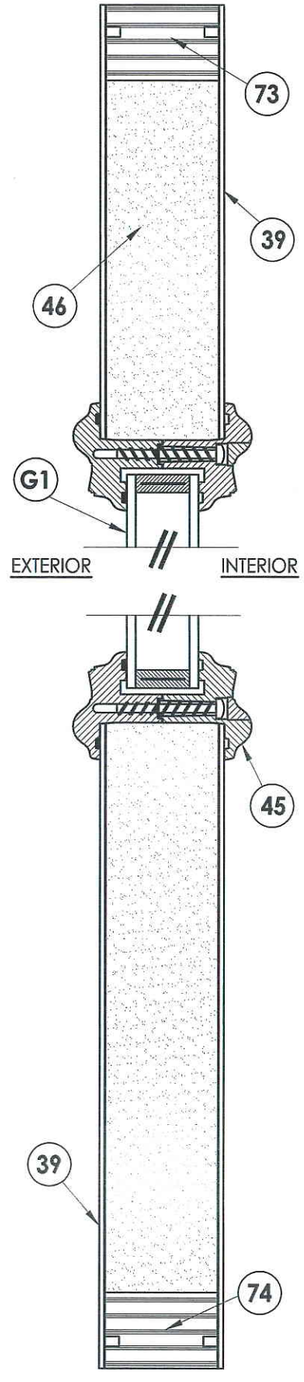
G1 **GLAZING DETAIL**



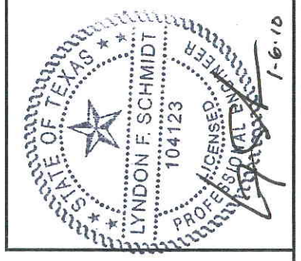
75 **SIDELITE STILE**



74 73 **TOP & BOTTOM RAIL**
SIDELITE



2/3 **VERTICAL CROSS SECTION**



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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:
SIDELITE PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

NO.	DATE	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
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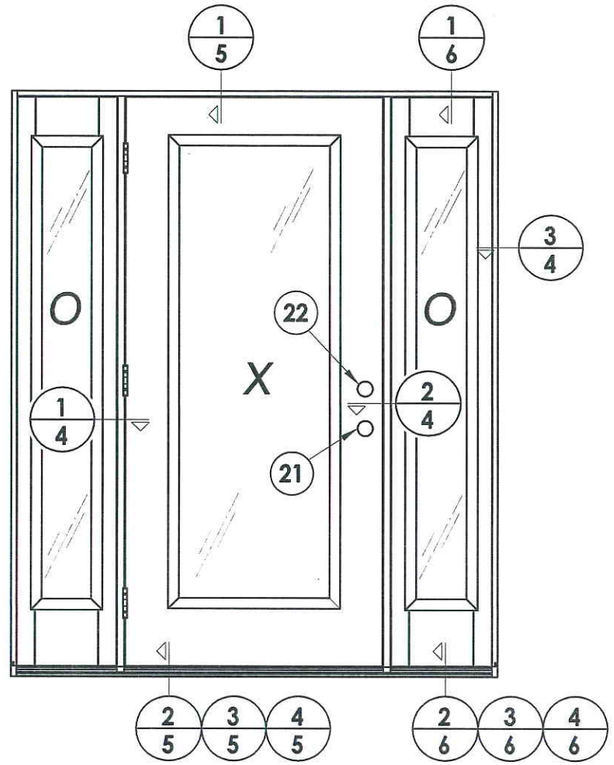
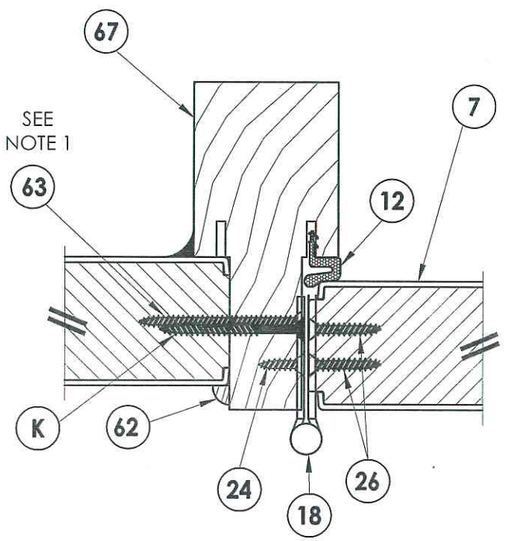
NOTE:

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



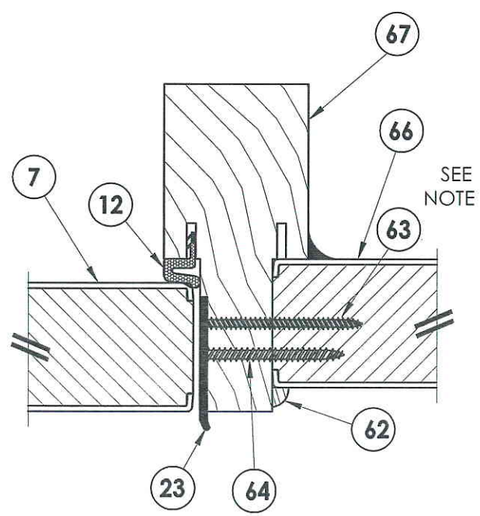
LOCK & DEADBOLT RATINGS CHART				
MANUFACTURER	MODEL	ITEM #	MAX. DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
KWIKSET	LOCK: 740 DEADBOLT: 780	21 22	+55.0	-55.0
KWIKSET	LOCK: COMBO 660 DEADBOLT: COMBO 660	21 22	+55.0	-55.0
SCHLAGE	LOCK: MAX. SECURITY DEADBOLT: MAX. SECURITY	21 22	+55.0	-55.0



INTERIOR

EXTERIOR

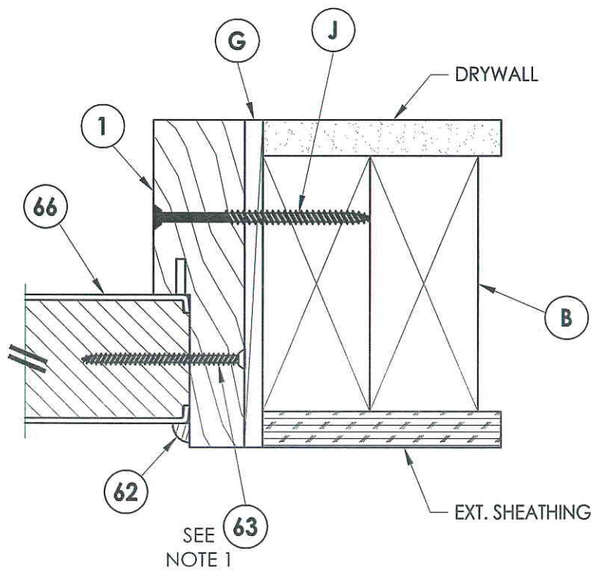
1/4 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved



INTERIOR

EXTERIOR

2/4 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved



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

STATE OF TEXAS
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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	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
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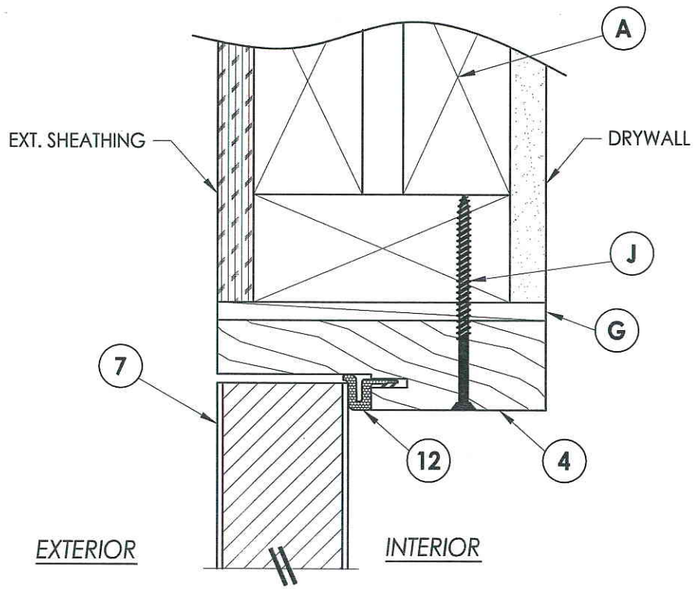
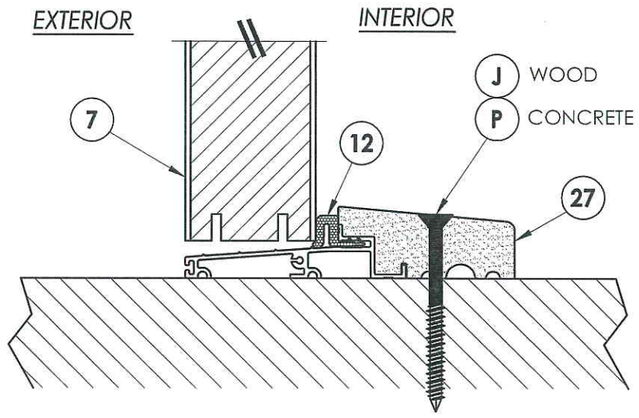
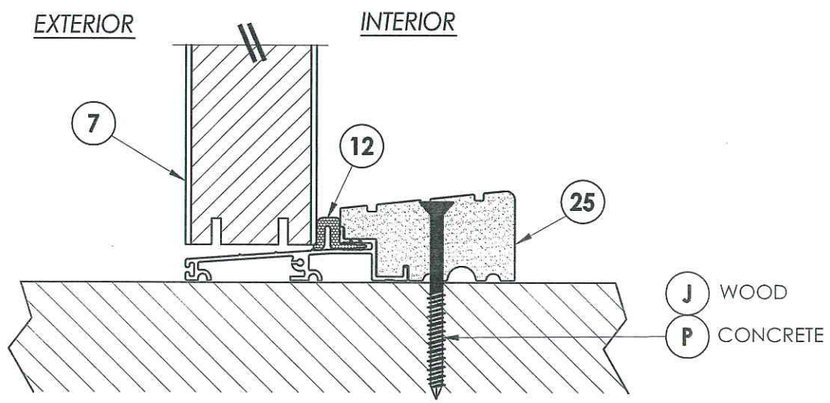


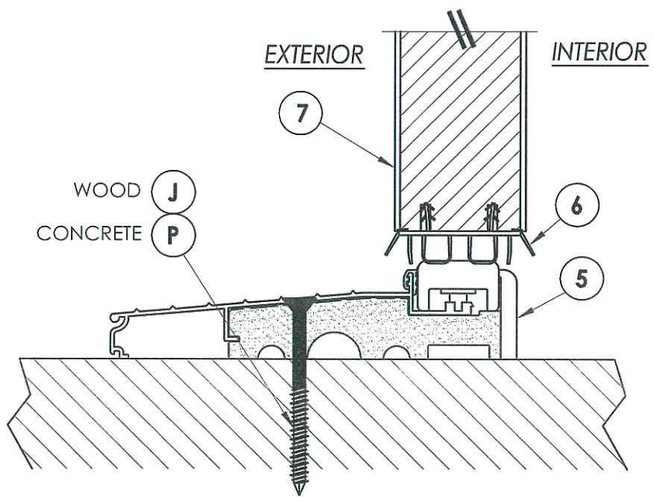
1/5 **VERTICAL CROSS SECTION**
Outswing shown
Inswing also approved



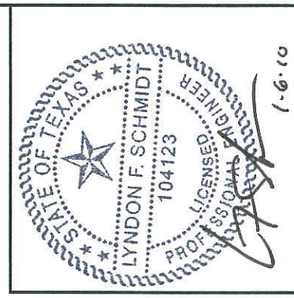
2/5 **VERTICAL CROSS SECTION**
Outswing configuration



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



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



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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	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 5 OF 9

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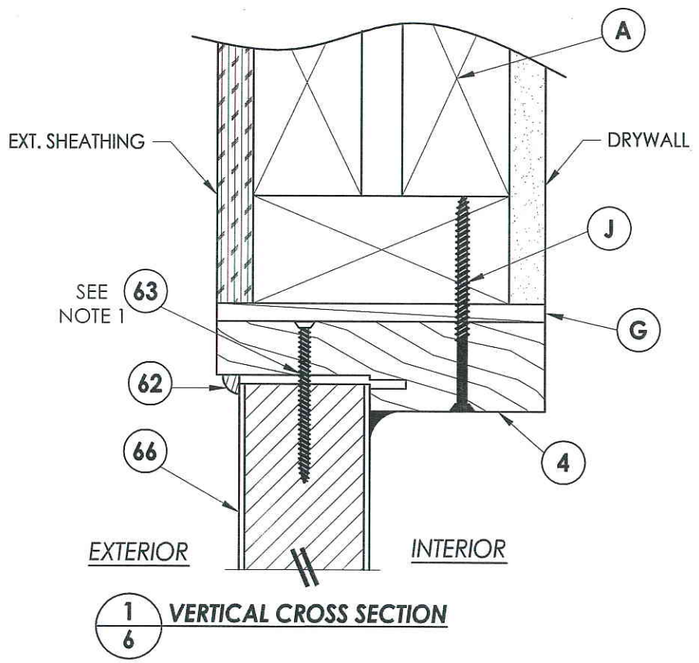
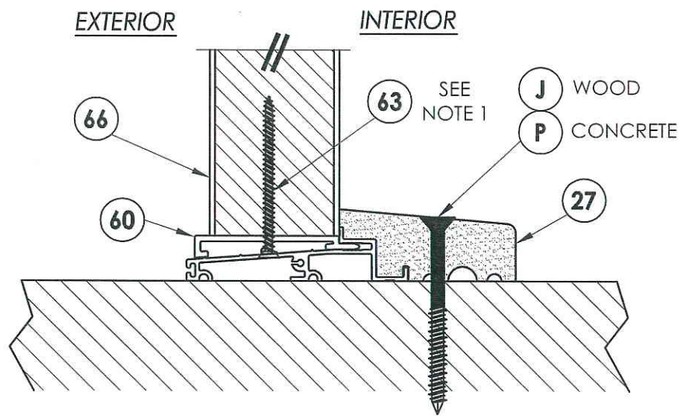


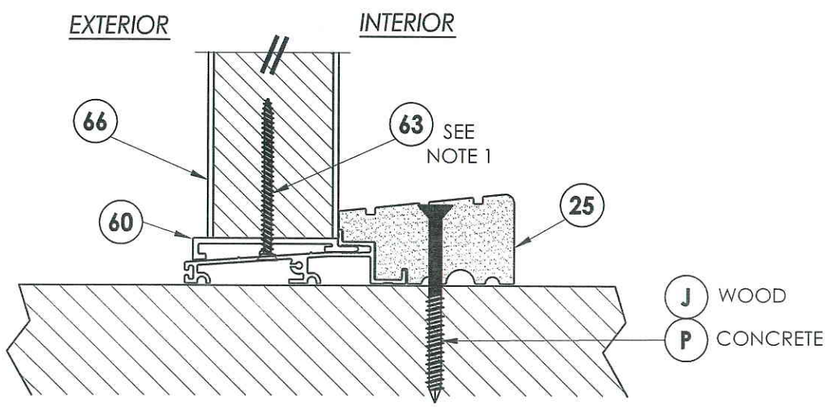
1/6 **VERTICAL CROSS SECTION**



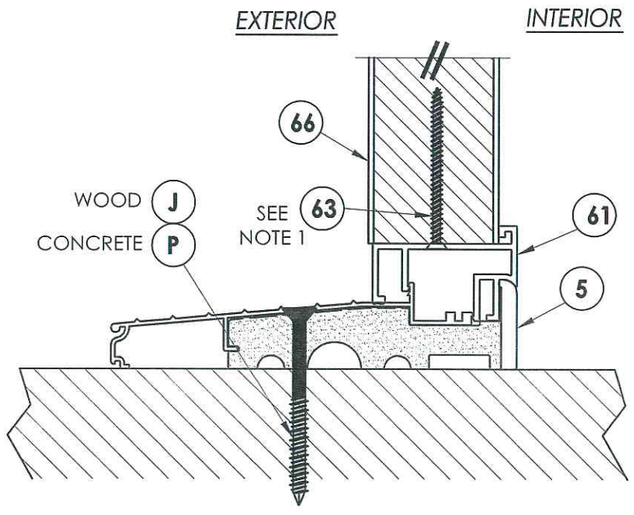
2/6 **VERTICAL CROSS SECTION**
Outswing sill

NOTE:

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



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



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

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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	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
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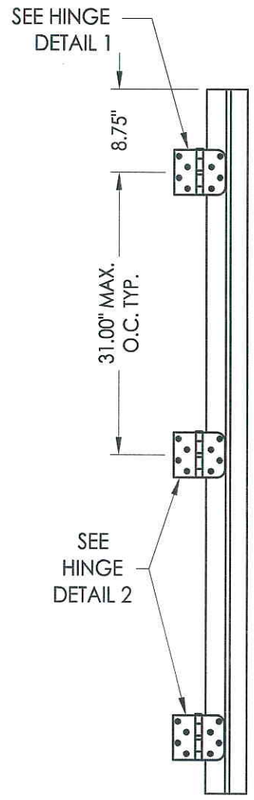
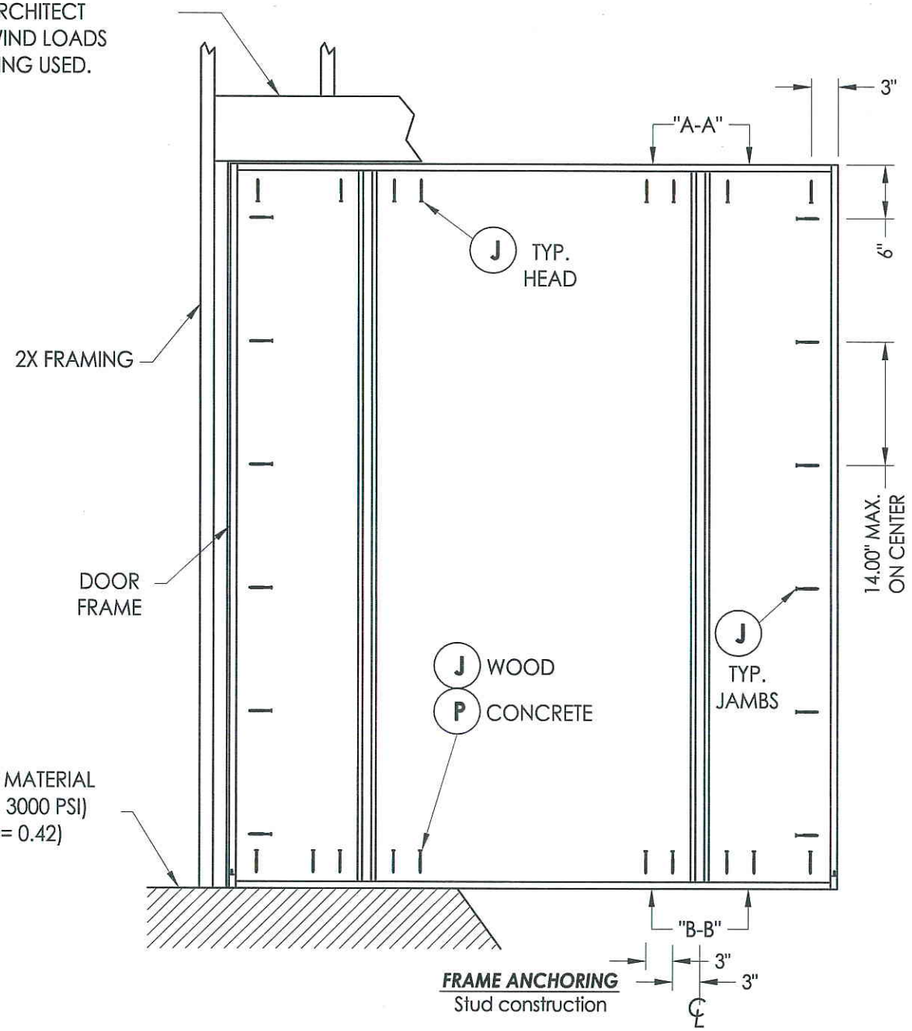
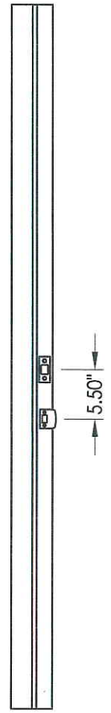
2X FRAMING TO BE DESIGNED
BY THE ENGINEER OR ARCHITECT
OF RECORD BASED ON WIND LOADS
AND THE CLADDING BEING USED.



FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

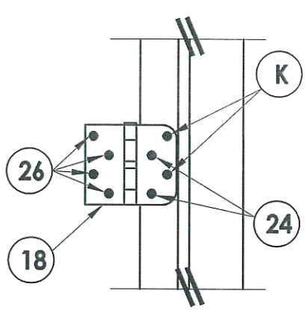




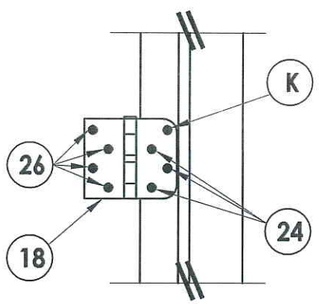
HINGE MULLION

FRAME ANCHORING
Stud construction

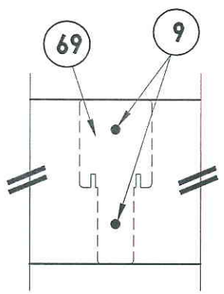
STRIKE MULLION



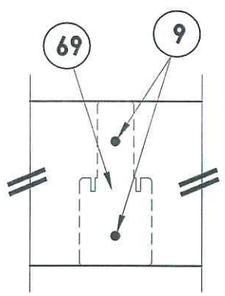
HINGE DETAIL 1



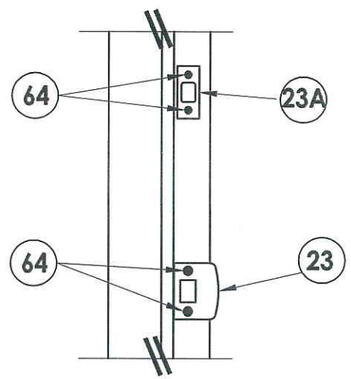
HINGE DETAIL 2



VIEW A-A



VIEW B-B



STRIKE PLATE DETAIL

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

1-6-10

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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: *FRAME ANCHORING*

NO.	DATE	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 7 OF 9

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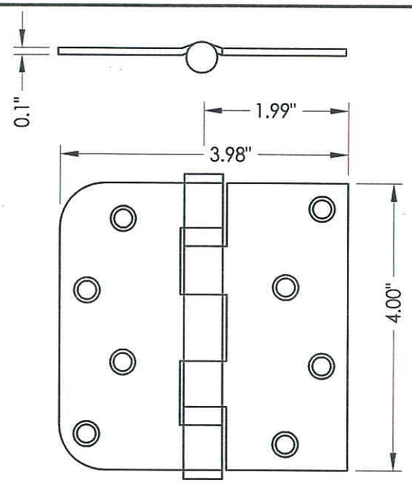
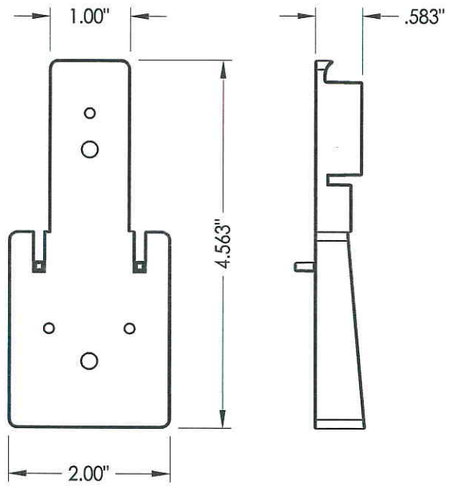
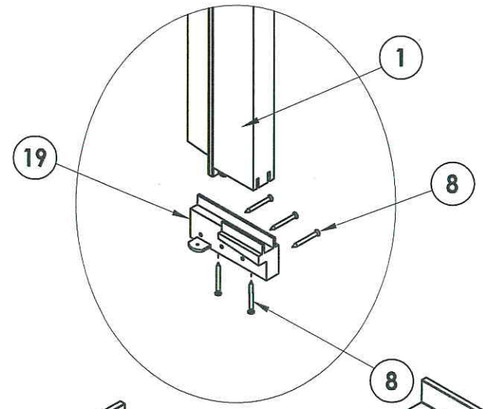
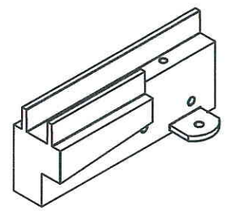


18 **HINGE**

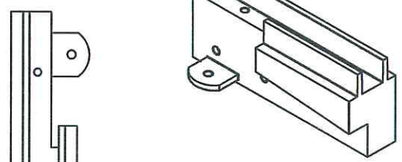


69 **MULLION BASE KIT**
Optional





SILLKEY, LEFT
SCALE: NONE



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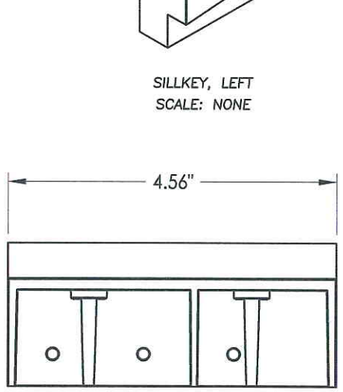
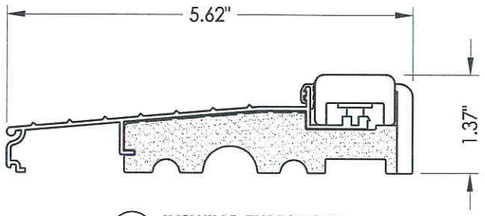
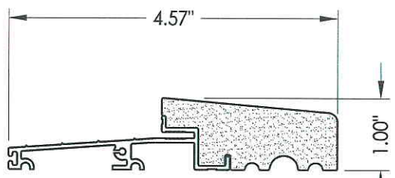


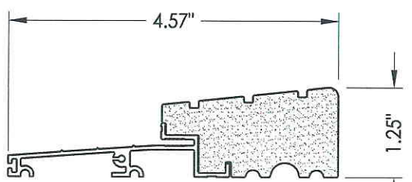
19 **SILLKEY DETAILS**
Optional



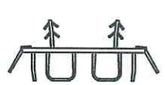
5 **INSWING THRESHOLD**



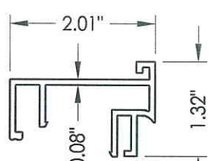
27 **OUTSWING THRESHOLD**



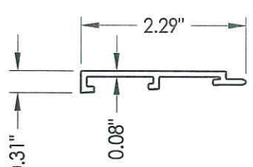
25 **OUTSWING THRESHOLD**
High-dam option



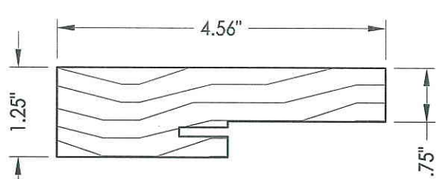
6 **DOOR BOTTOM SWEEP**



61 **SIDELITE SPACER**
Inswing



60 **SIDELITE SPACER**
Outswing



4 1 **SIDE & HEAD JAMBS**

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

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
1-6-10

PRODUCT: TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY: COMPONENTS

REVISIONS

NO.	DATE	BY
2	7/23/09	AL
1	6/28/06	EW

TDI PRODUCT EVALUATION UPDATE
REVISED LOCKSET NOMENCLATURE

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 8 OF 9

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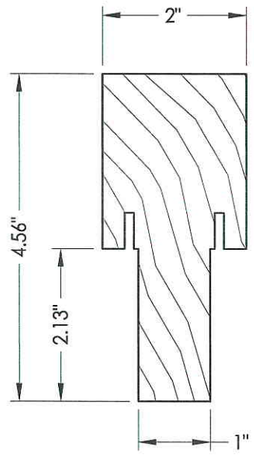
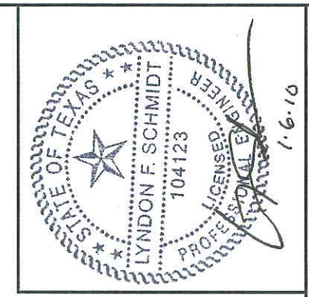
CONCRETE ANCHOR NOTES:

1. *Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.*
2. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If 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" dimensions are not exceeded.*
3. *Concrete anchor table:*

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	3/16"	1-3/4"	2-5/8"	2-1/4"
ELCO	3/16"	1-3/4"	1"	3"



67 *INTEGRAL MULLION*



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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: *BILL OF MATERIALS*

NO.	DATE	REVISIONS	BY
2	7/23/09	TDI PRODUCT EVALUATION UPDATE	AL
1	6/28/06	REVISED LOCKSET NOMENCLATURE	EW

DATE: 8/26/05
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.: TX-596
SHEET 9 OF 9

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	2X HEADER FRAMING SG >= 0.42	WOOD	27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
B	2X FRAMING SG >= 0.42	WOOD	30	LATCH STILE - SG >= 0.42	LVL/PVC
G	MAX. 1/4" SHIM SPACE	WOOD	31	LVL LOCK BLOCK	POPLAR
J	#10 X 3" PFH WS	STEEL	32	HINGE STILE - SG >= 0.42	LVL/PVC
K	#9 X 2" PFH WS	STEEL	33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL	34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD	39	FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,203 PSI MIN.)	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
26	#9 X 1" PFH SCREW	STEEL	75	LVL SIDELITE STILE (FULL LITE)	POPLAR

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