

6'0 X 8'0
GLAZED PREMIUM FIBERGLASS
DOUBLE DOOR WITH SIDELITES (BOXED)
INSWING / OUTSWING
"NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

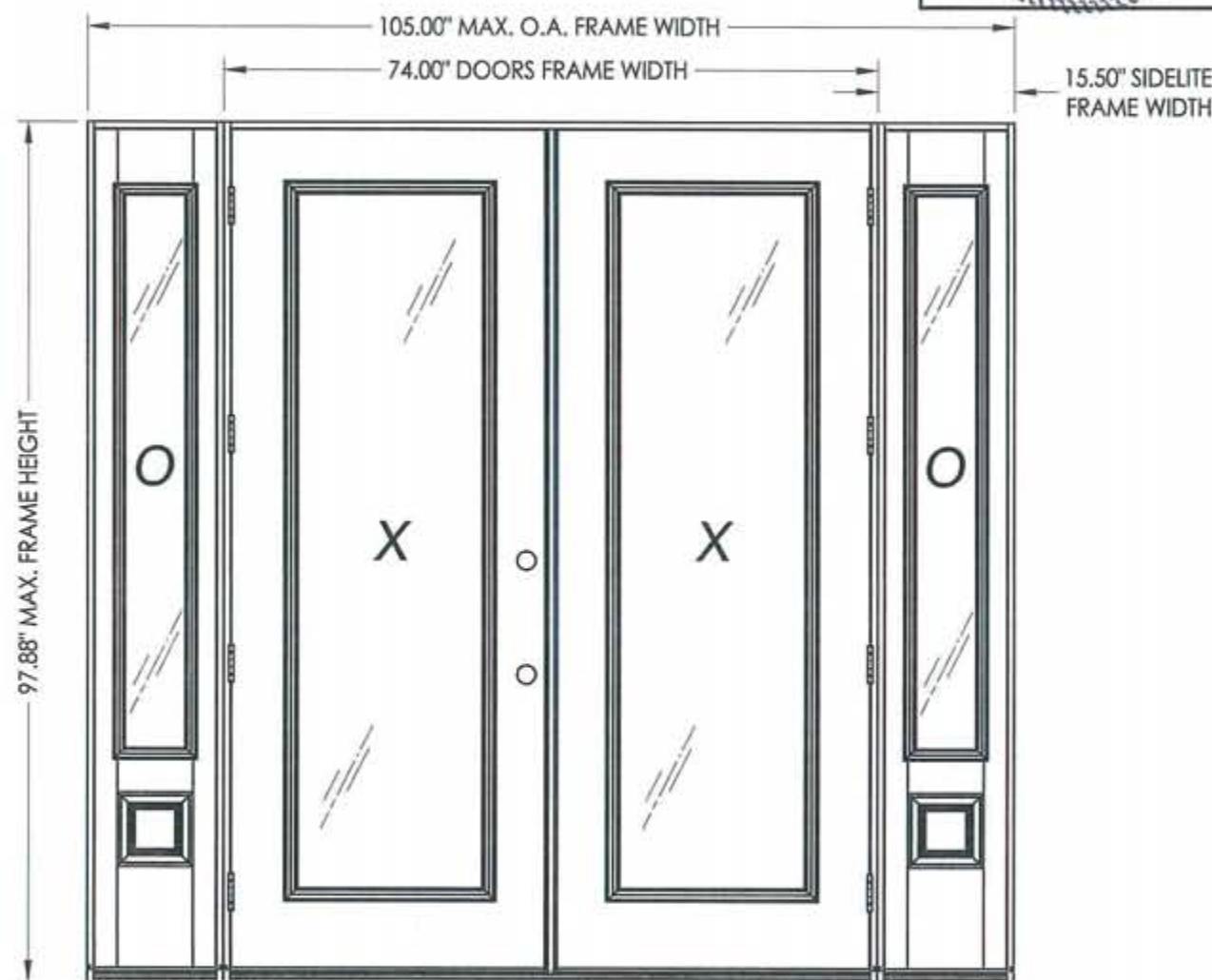
The Trinity Glazed Premium Fiberglass Double Door with sidelites (boxed) described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject 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 08-01370046 and TEL 05-1026-2, 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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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	Endura astragal details
10	TRC astragal details
11	Bill of materials



DOUBLE with BOXED SIDELITES

ASTRAGAL TYPE	SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
ENDURA	INSWING	105.00" x 97.88"	G1	+40.0	-40.0
	OUTSWING	105.00" x 96.75"		+40.0	-40.0
TRC	INSWING	105.00" x 97.88"	G1	+40.0	-40.0
	OUTSWING	105.00" x 96.75"		+40.0	-40.0

Refer to Table (sheet 4) for Passage Lock Rating Limitations



Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197

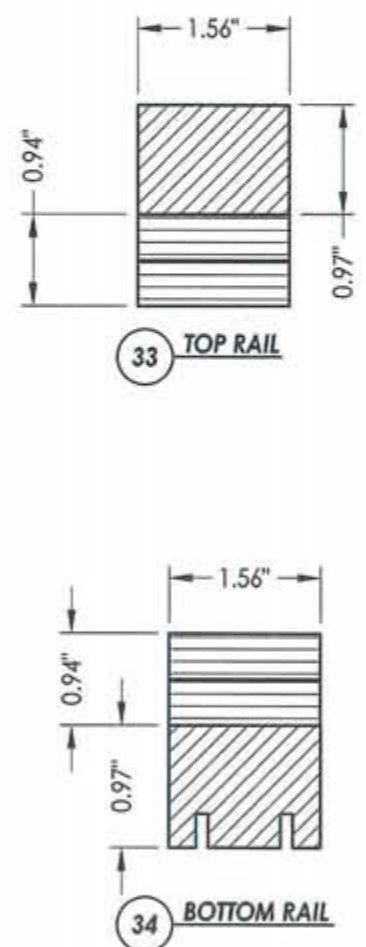
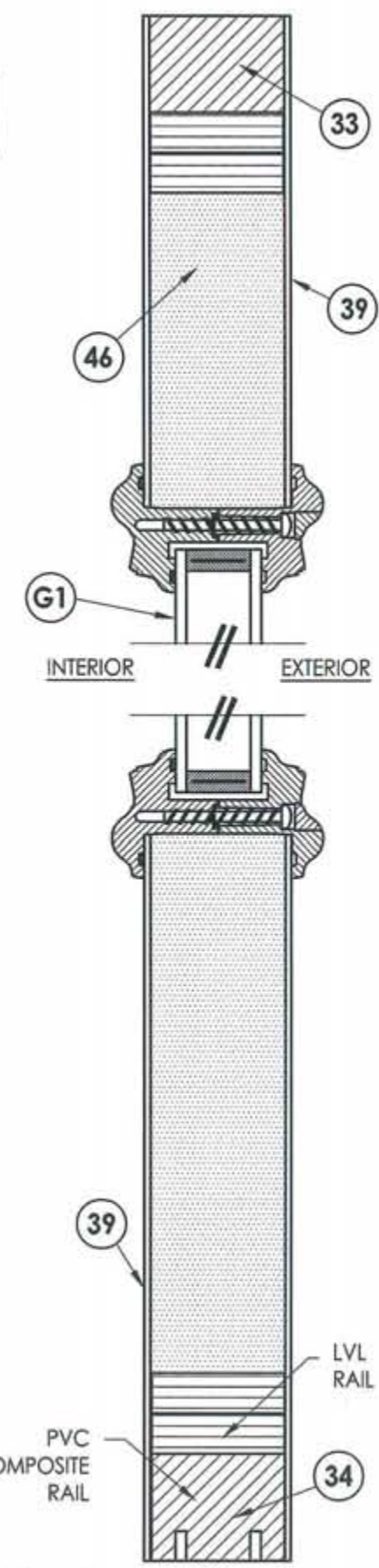
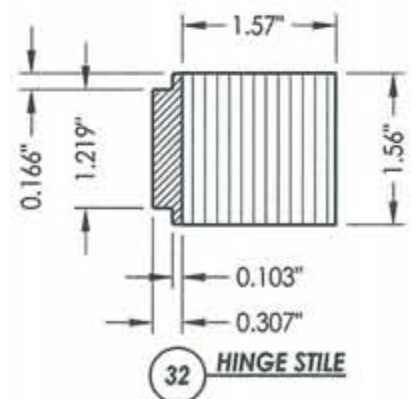
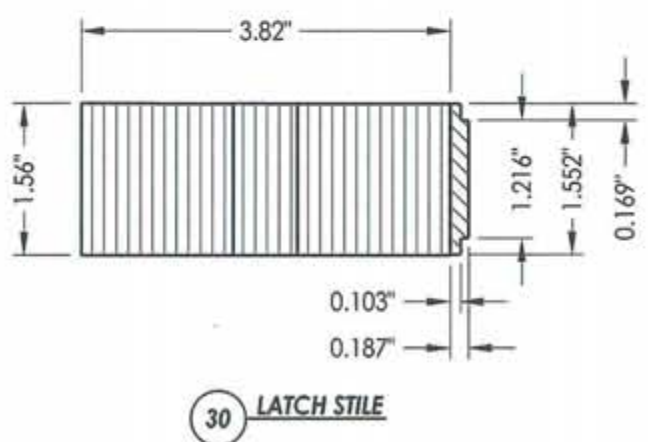
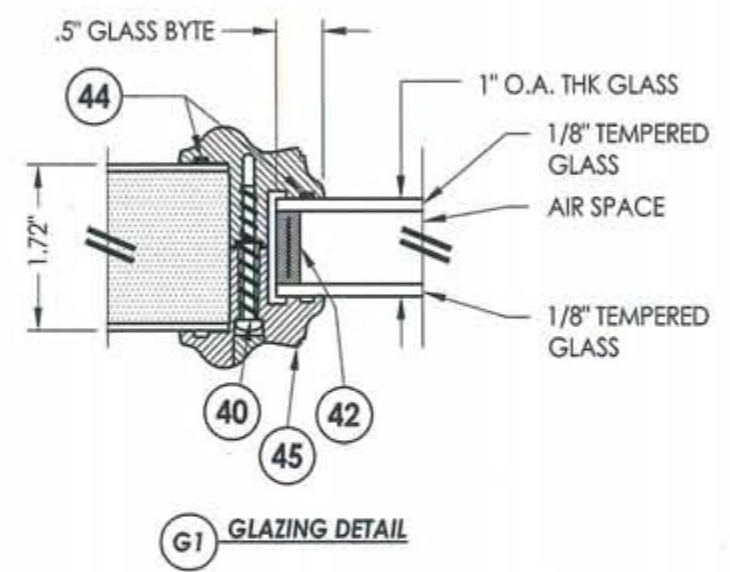
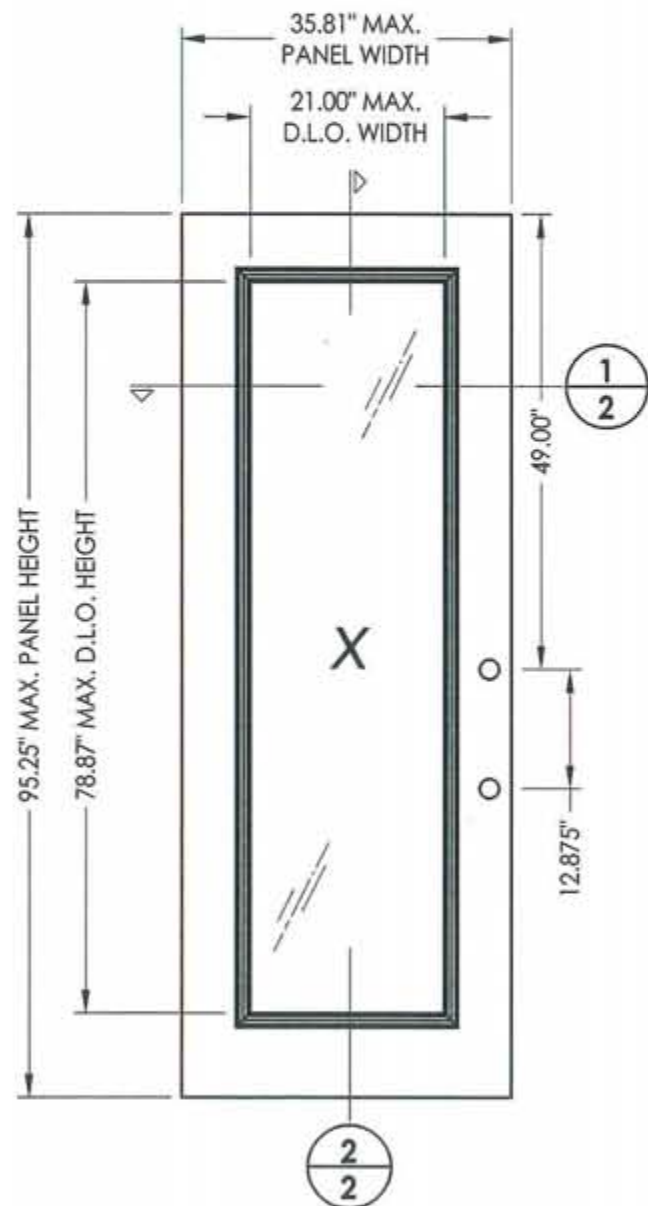
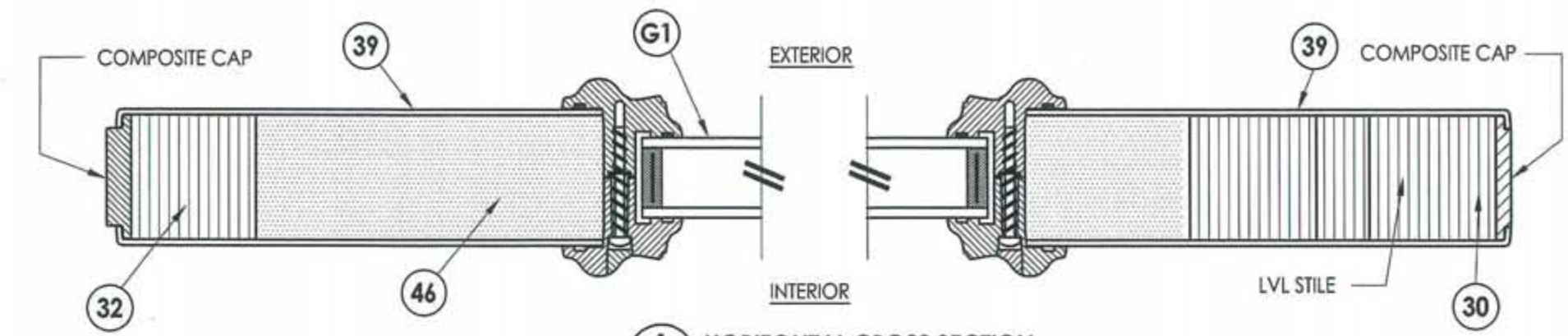
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
PREMIUM LITE FIBERGLASS
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
3	7/27/09	TDI PRODUCT EVALUATION UPDATE
2	6/28/06	REVISED LOCKSET NOMENCLATURE
1	12/2/05	REVISED ANCHOR LOCATIONS

DATE: 11/21/05
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: LFS
DRAWING NO.: TX-720
SHEET 1 OF 11

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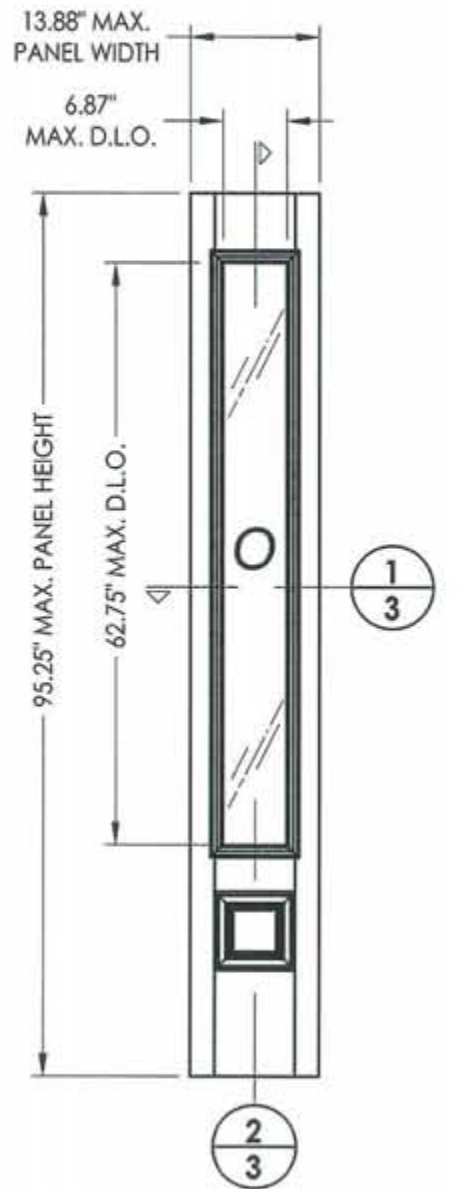
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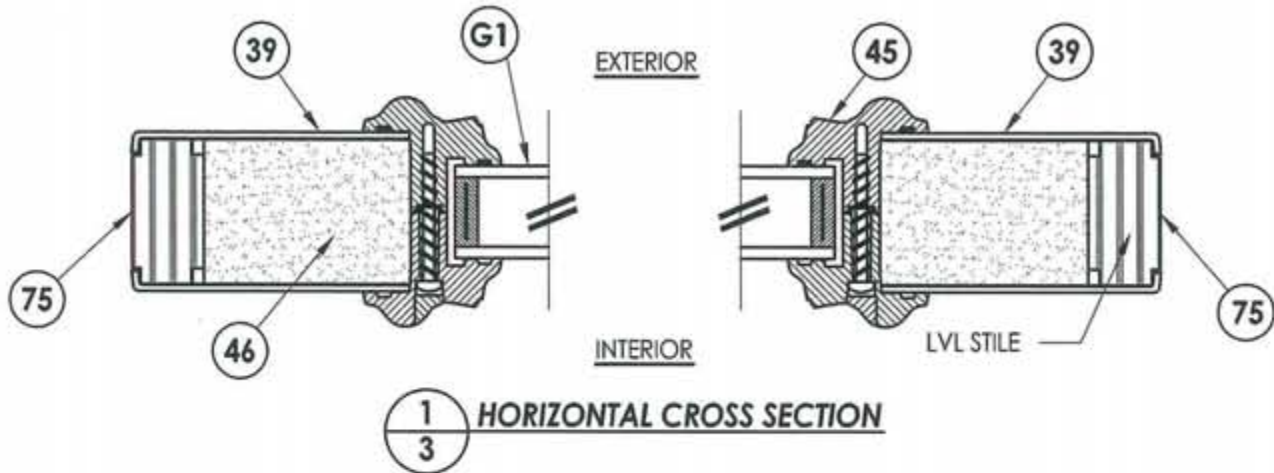
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS			
PART OR ASSEMBLY:		DOOR PANEL CONSTRUCTION DETAILS AND GLAZING DETAILS			
				AL	
				EW	
		3	7/27/09	TDI PRODUCT EVALUATION UPDATE	
		2	6/28/06	REVISED LOCKSET NOMENCLATURE	
		1	12/2/05	REVISED ANCHOR LOCATIONS	
		NO.	DATE		BY
		REVISIONS			
DATE: 11/21/05					
SCALE:		N.T.S.			
DWG. BY:		AEM			
CHK. BY:		LFS			
DRAWING NO.:		TX-720			
SHEET		2		OF 11	

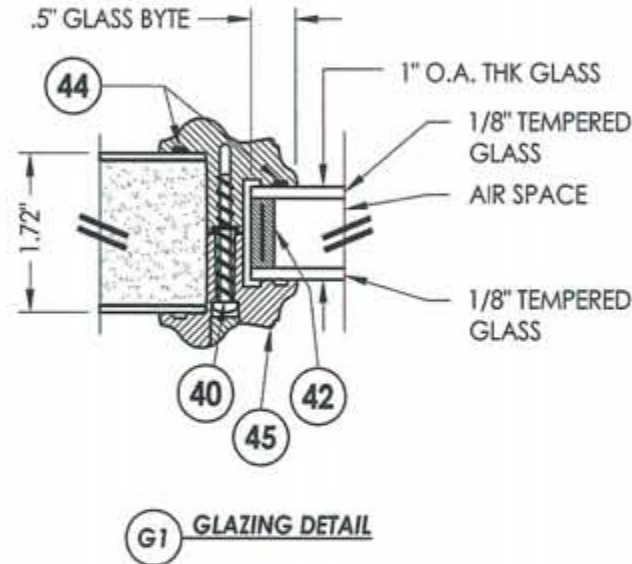
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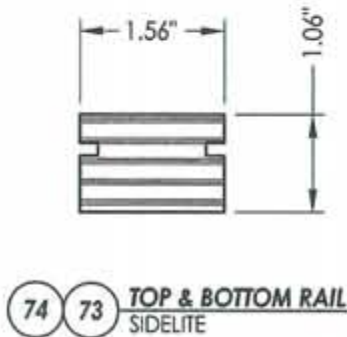
66 PREMIUM LIPLITE FIBERGLASS SIDELITE



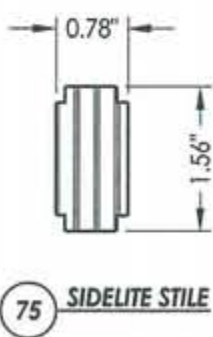
1
3 HORIZONTAL CROSS SECTION



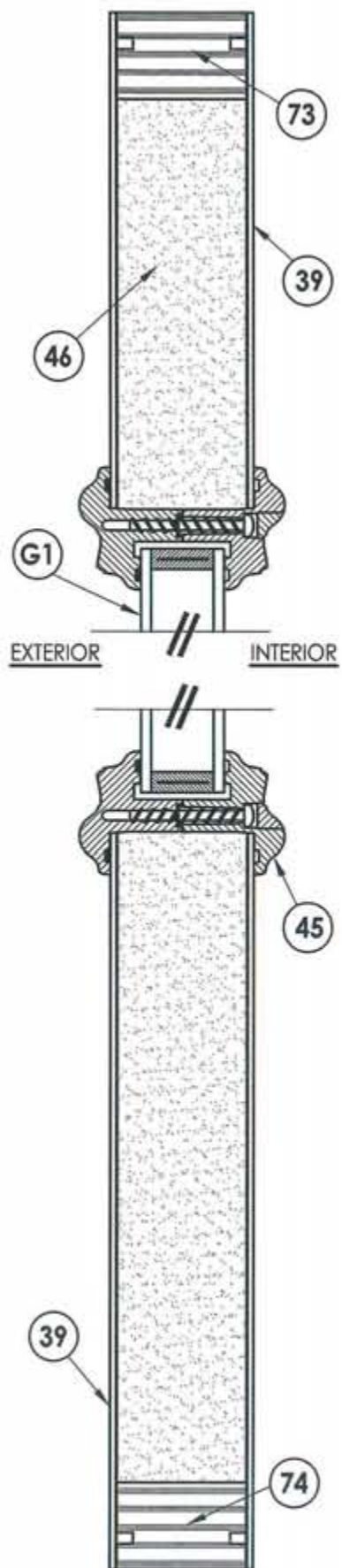
G1 GLAZING DETAIL



74 73 TOP & BOTTOM RAIL
SIDELITE



75 SIDELITE STILE



2
3 VERTICAL CROSS SECTION



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TEXAS P.E. #104123

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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

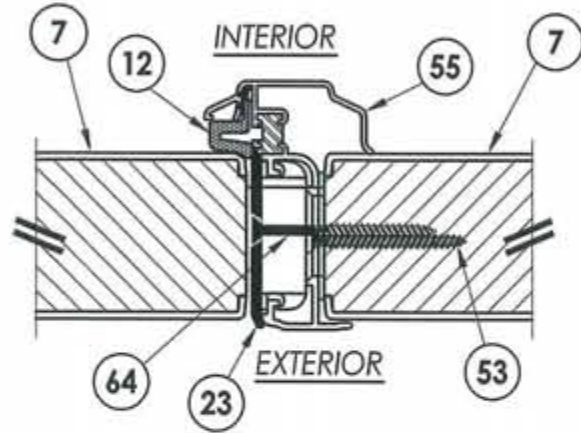
PART OR ASSEMBLY:
SIDELITE PANEL CONSTRUCTION
DETAILS AND GLAZING DETAILS

REVISIONS			
NO.	DATE	BY	DESCRIPTION
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2	6/28/06	REVIS	LOCKSET NOMENCLATURE
1	12/2/05	REVIS	ANCHOR LOCATIONS

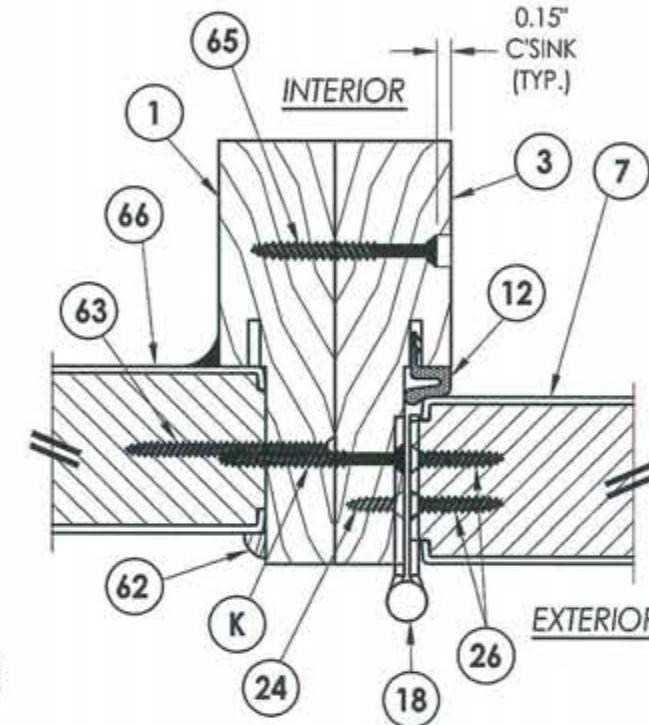
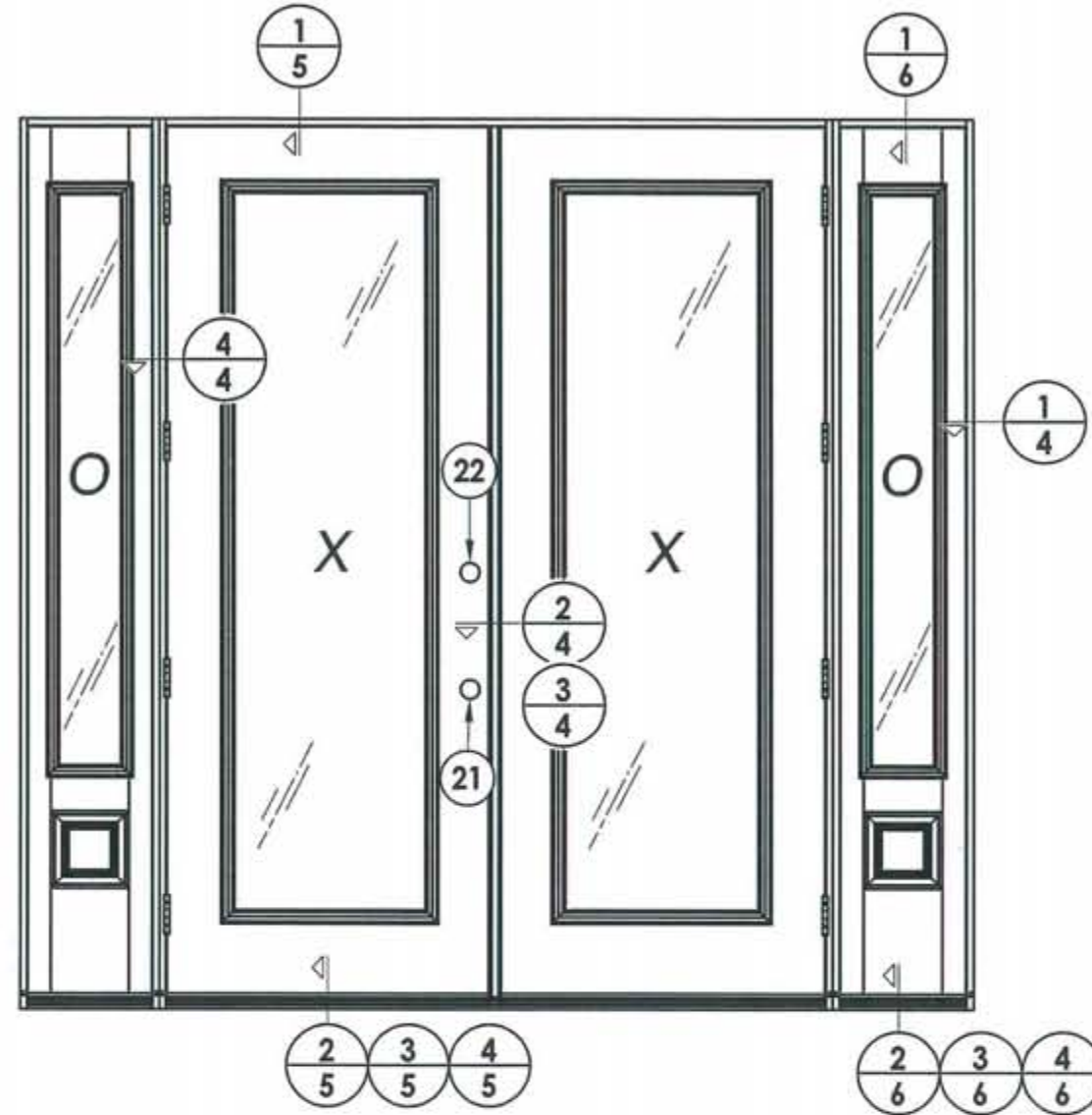
DATE: 11/21/05
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: LFS
DRAWING NO.: TX-720
SHEET 3 OF 11

NOTE:

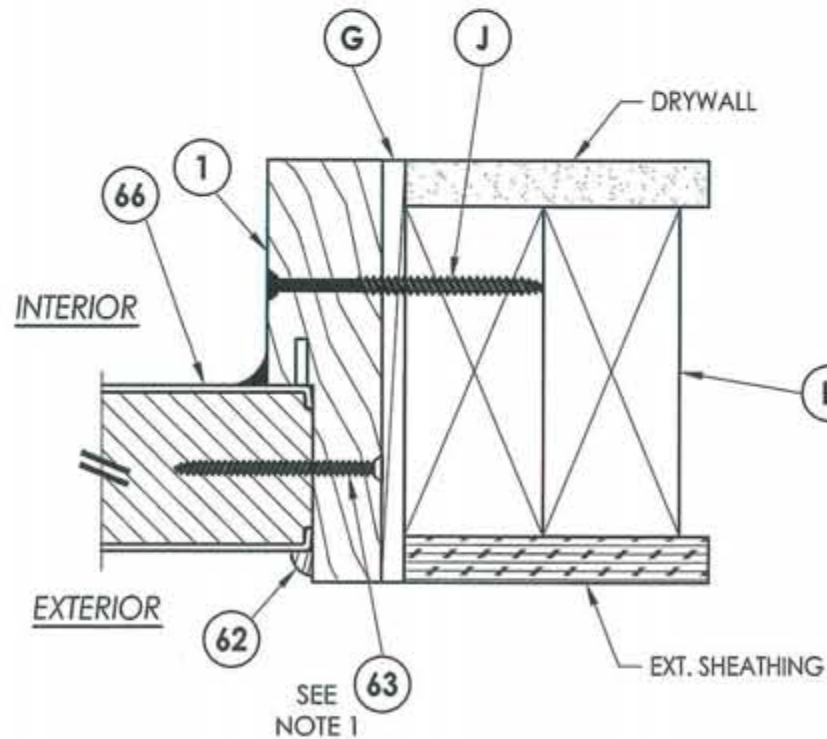
1. Sidelite ass'y fastener: 6" from each end and 6 more screws equally spaced between (8 screws total per jamb).



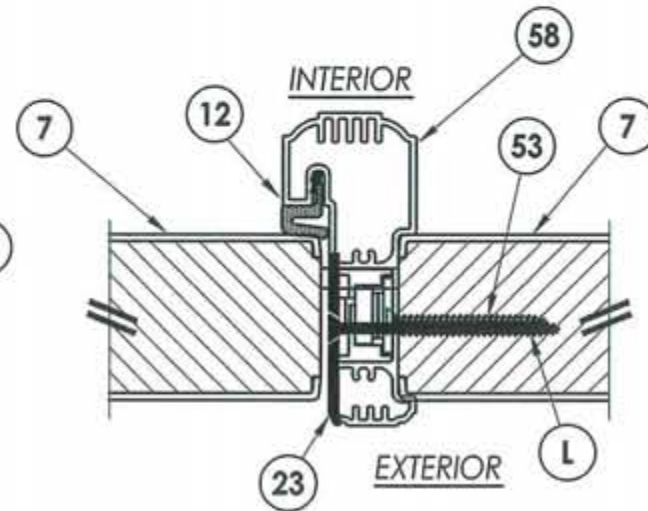
3 HORIZONTAL CROSS SECTION
4 Endura astragal



4 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved



1 HORIZONTAL CROSS SECTION
4 Outswing shown
Inswing also approved



2 HORIZONTAL CROSS SECTION
4 TRC astragal

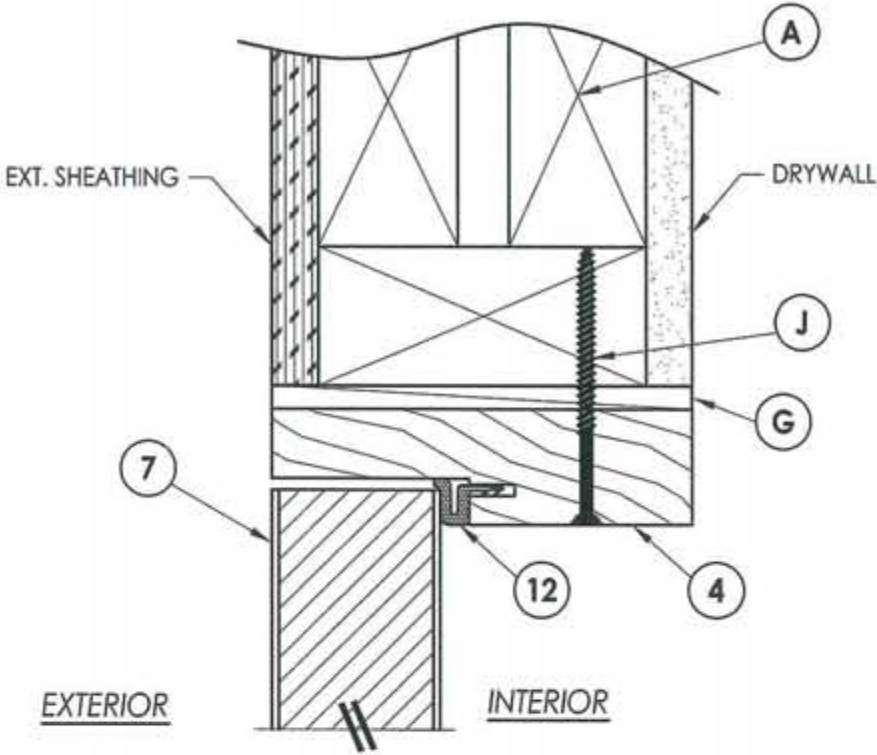
LOCK & DEADBOLT RATINGS CHART				
MANUFACTURER	MODEL	ITEM #	MAX. DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
KWIKSET	LOCK: 740	21	+40.0	-40.0
	DEADBOLT: 780	22		
KWIKSET	LOCK: COMBO 660	21	+40.0	-40.0
	DEADBOLT: COMBO 660	22		
SCHLAGE	LOCK: MAX. SECURITY	21	+40.0	-40.0
	DEADBOLT: MAX. SECURITY	22		



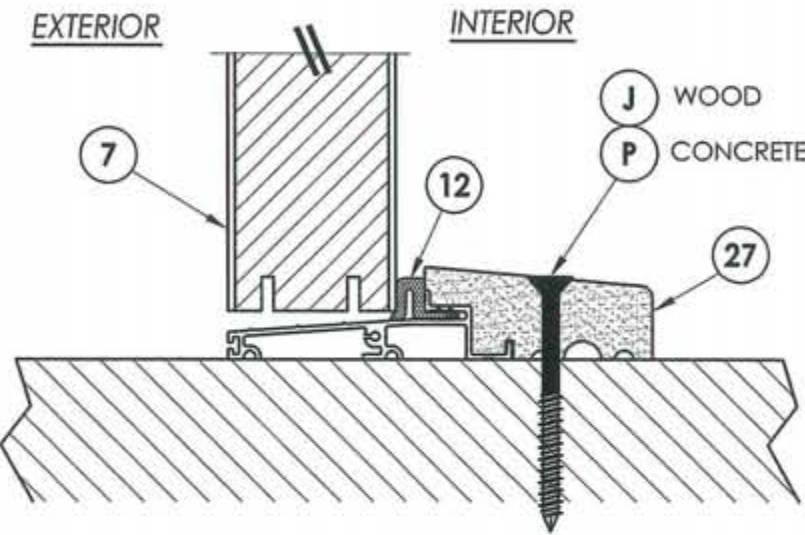
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1.6.10
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
		AL	
		EW	
		AEM	
		BY	
		REVISIONS	
		NO.	DATE
		3	7/27/09
		2	6/28/06
		1	12/2/05
DATE: 11/21/05			
SCALE: N.T.S.			
DWG. BY: AEM			
CHK. BY: LFS			
DRAWING NO.: TX-720			
SHEET 4 OF 11			

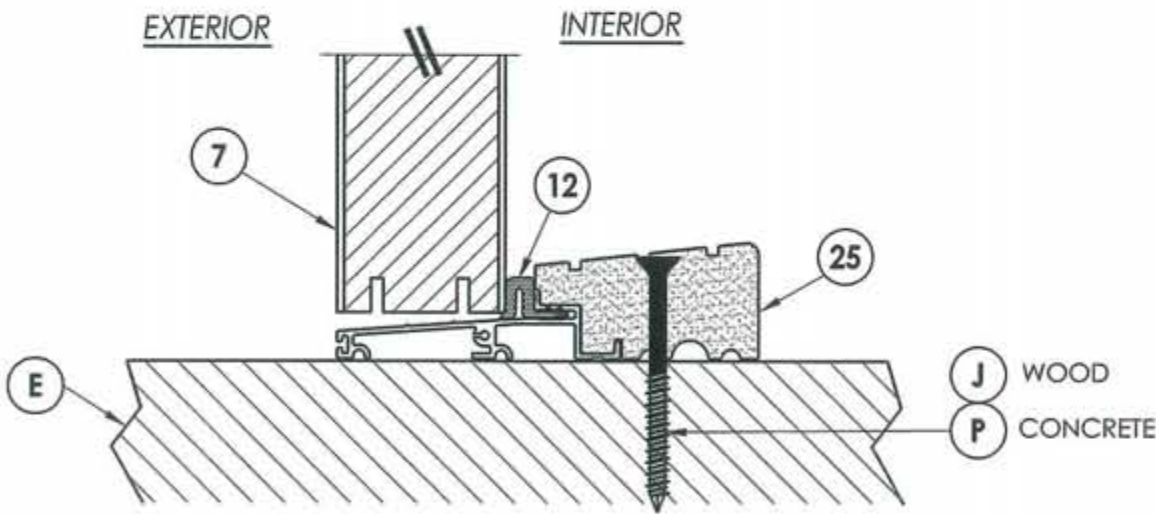
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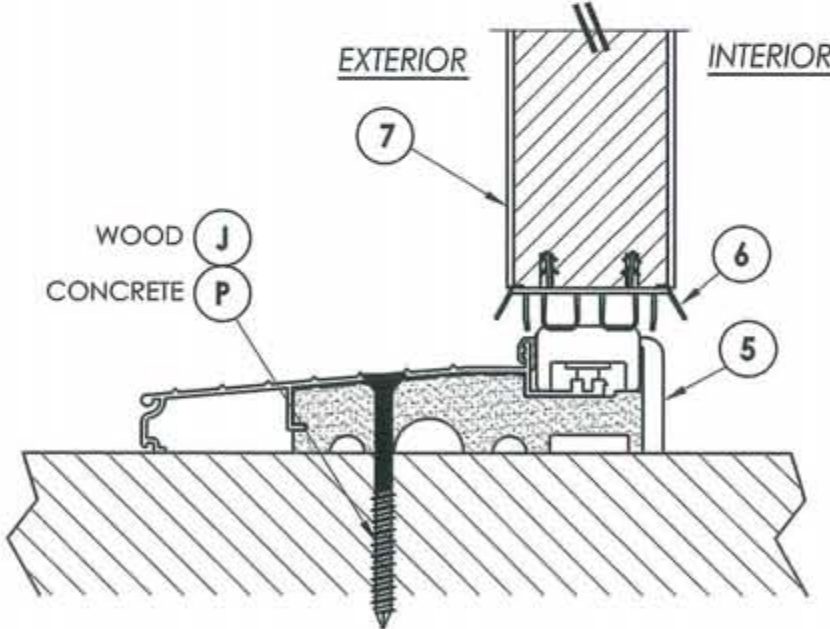
1 VERTICAL CROSS SECTION
5 Outswing shown
Inswing also approved



2 VERTICAL CROSS SECTION
5 Outswing configuration



3 VERTICAL CROSS SECTION
5 Outswing configuration



4 VERTICAL CROSS SECTION
5 Inswing configuration

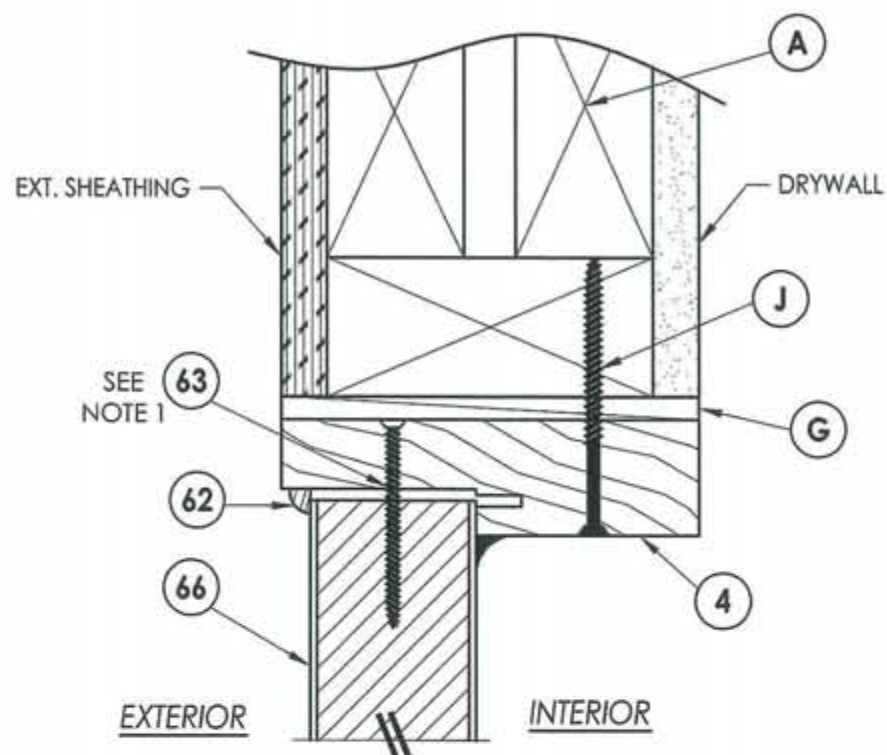


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PRODUCT:		TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
		AL	EW
		TDI PRODUCT EVALUATION UPDATE	REVISED LOCKSET NOMENCLATURE
		7/27/09	6/28/06
		NO.	DATE
		1	12/2/05
		2	6/28/06
		3	7/27/09
		DATE	11/21/05
		SCALE	N.T.S.
		DWG. BY:	AEM
		CHK. BY:	LFS
		DRAWING NO.:	TX-720
		SHEET	5 OF 11



1
6

VERTICAL CROSS SECTION

NOTE:

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

2 VERTICAL CROSS SECTION
6 Outswing sill

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

4 VERTICAL CROSS SECTION
6 Inswing sill



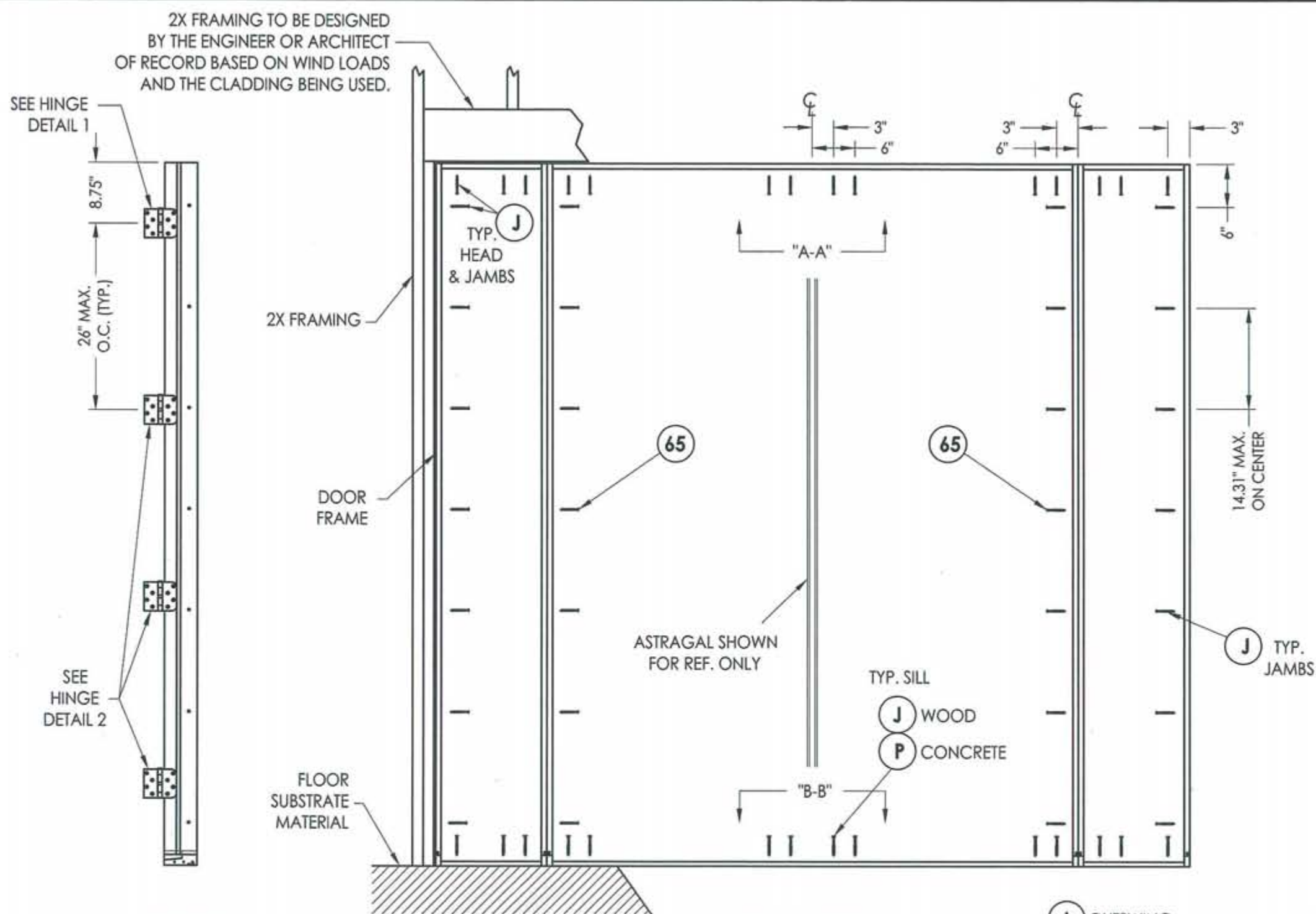
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
		AL	
3	7/27/09	TDI PRODUCT EVALUATION UPDATE	
2	6/28/06	REVISED LOCKSET NOMENCLATURE	EW
1	12/2/05	REVISED ANCHOR LOCATIONS	AEM
NO.	DATE		BY
REVISIONS			
DATE: 11/21/05			
SCALE: N.T.S.			
DWG. BY:		AEM	
CHK. BY:		LFS	
DRAWING NO.: TX-720			
SHEET 6 OF 11			

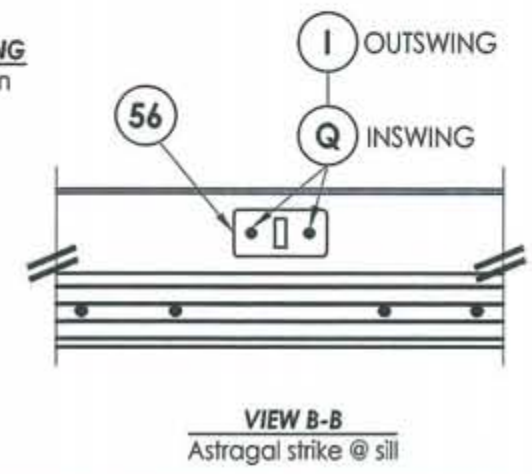
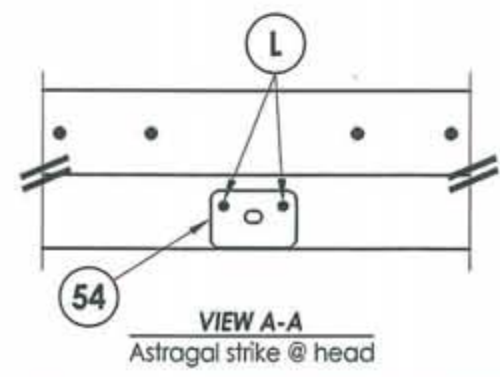
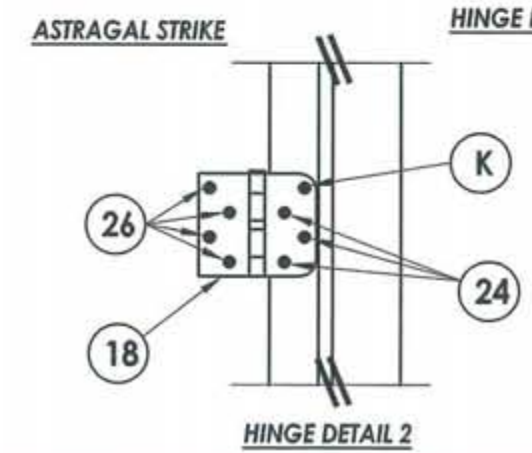
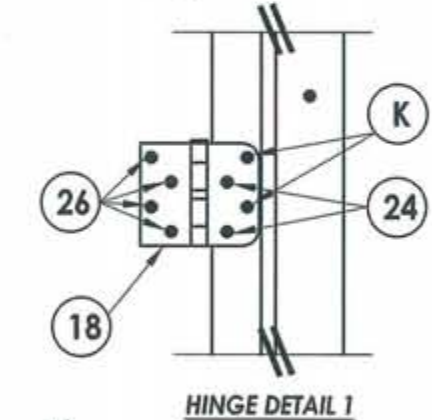
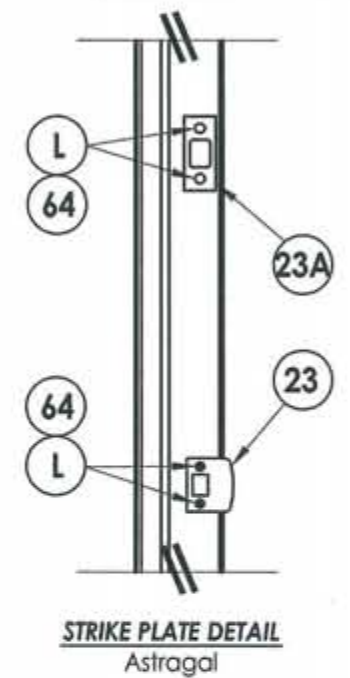
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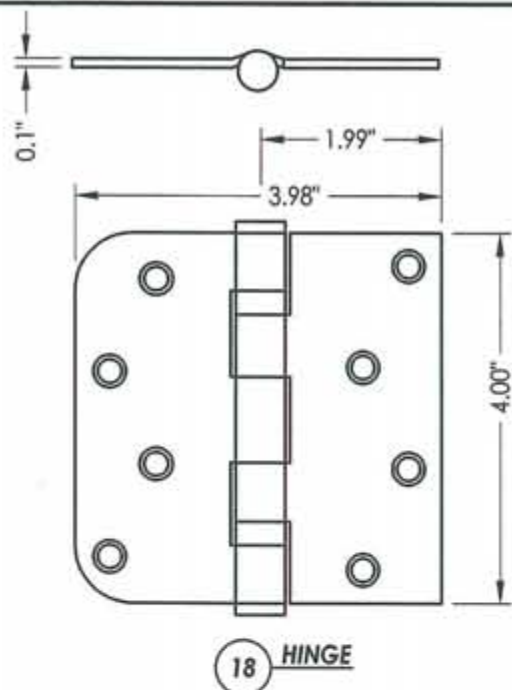
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Phone No.: 813.659.9197

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

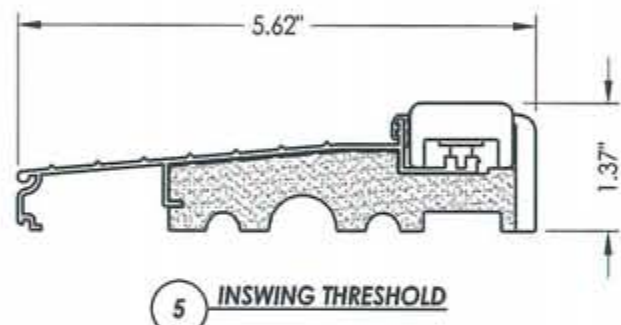


PRODUCT:		TRINITY GLASS INT'L PREMIUM LIPLITE FIBERGLASS			
PART OR ASSEMBLY:		FRAME ANCHORING			
REVISONS		AL	EW	AEM	BY
3	7/27/09	TDI PRODUCT EVALUATION UPDATE			
2	6/28/06	REVISED LOCKSET NOMENCLATURE			
1	12/2/05	REVISED ANCHOR LOCATIONS			
NO.	DATE				
DATE: 11/21/05					
SCALE: N.T.S.					
DWG. BY: AEM					
CHK. BY: LFS					
DRAWING NO.: TX-720					
SHEET 7 OF 11					

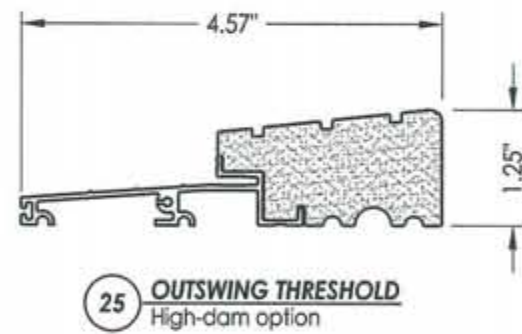
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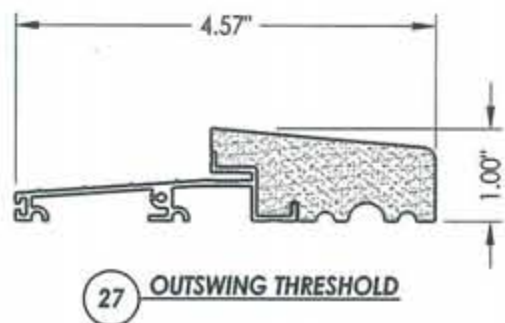
18 HINGE



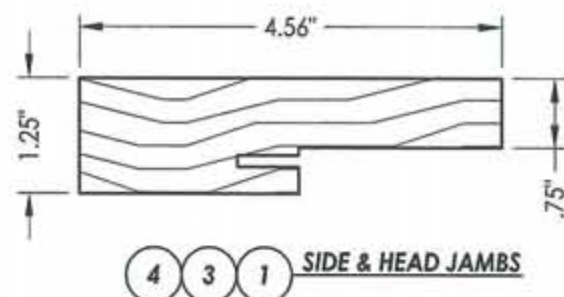
5 INSWING THRESHOLD



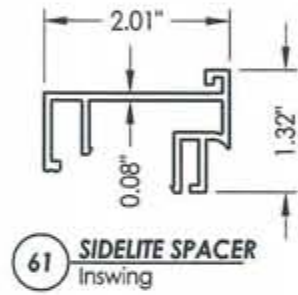
25 OUTSWING THRESHOLD
High-dam option



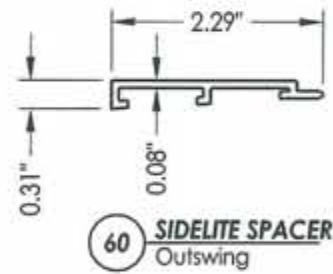
27 OUTSWING THRESHOLD



4 3 1 SIDE & HEAD JAMBS



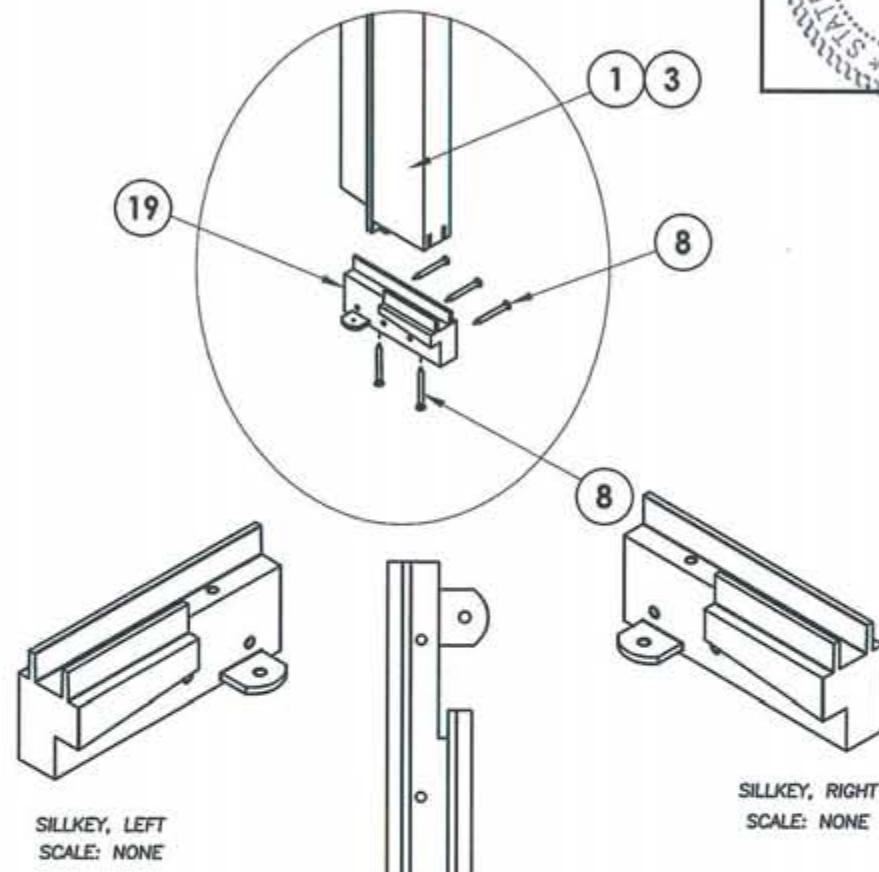
61 SIDELITE SPACER
Inswing



60 SIDELITE SPACER
Outswing



6 DOOR BOTTOM SWEEP



19 SILLKEY DETAILS
Optional

SILLKEY, RIGHT
SCALE: NONE

SILLKEY, LEFT
SCALE: NONE

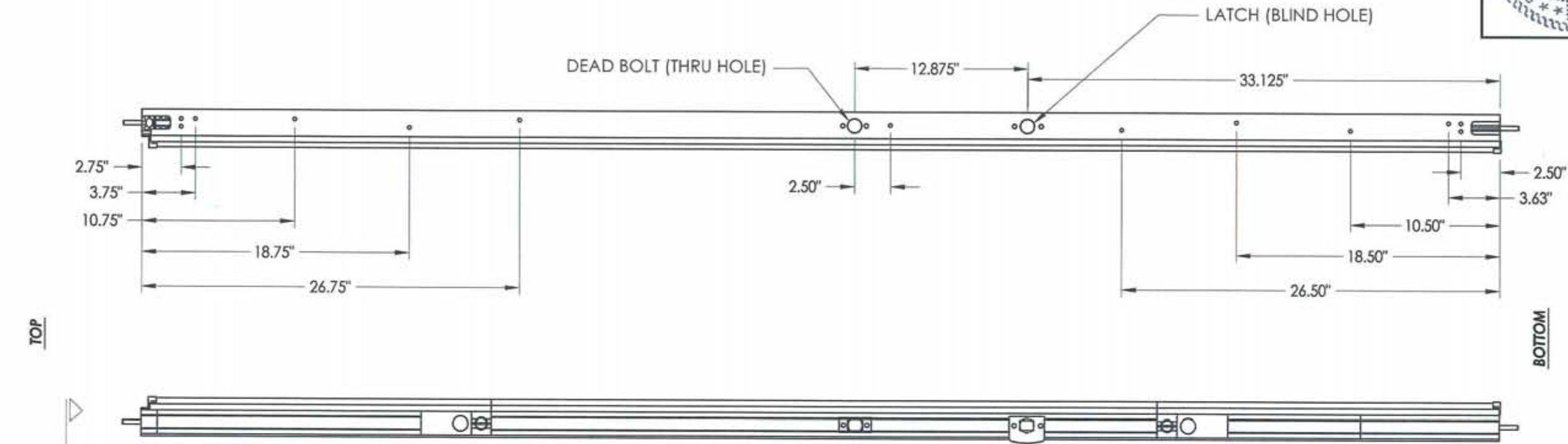


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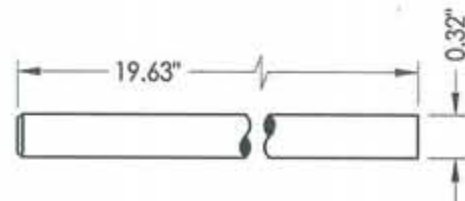
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CERTIFICATE OF REGISTRATION # F-11852

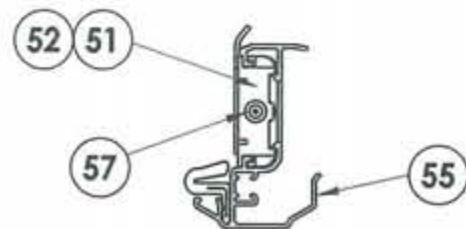
PRODUCT:		TRINITY GLASS INT'L PREMIUM LITE FIBERGLASS		PART OR ASSEMBLY:		COMPONENTS	
AL	EW	AE	BY	NO.	DATE	REVISIONS	
3	7/27/09	TDI	PRODUCT EVALUATION UPDATE				
2	6/28/06	REVISED	LOCKSET NOMENCLATURE				
1	12/2/05	REVISED	ANCHOR LOCATIONS				
DATE							
DATE: 11/21/05							
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CHK. BY: LFS							
DRAWING NO.: TX-720							
SHEET 8 OF 11							



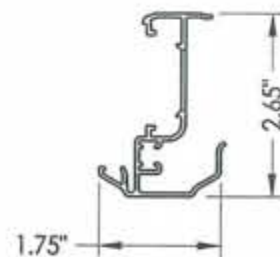
8'-0" ALUMINUM ASTRAGAL ASSEMBLY
By Endura Products



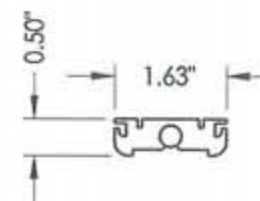
57 SLIDE BOLT ROD
MATL: Steel



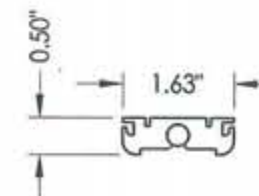
VIEW A-A
Aluminum Astragal Assembly



55 ALUMINUM ASTRAGAL
By Endura Products



52 TOP BOLT RETAINER
MATL: 9-3/4" Aluminum



51 TOP BOLT RETAINER
MATL: 4-3/4" HDPE



1-6-10

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:
TRINITY GLASS INT'L
PREMIUM LIP LITE FIBERGLASS

PART OR ASSEMBLY:
ENDURA ASTRAGAL DETAILS

NO.	DATE	REVISIONS
3	7/27/09	TDI PRODUCT EVALUATION UPDATE
2	6/28/06	REVISED LOCKSET NOMENCLATURE
1	12/2/05	REVISED ANCHOR LOCATIONS

DATE: 11/21/05

SCALE: N.T.S.

DWG. BY: AEM

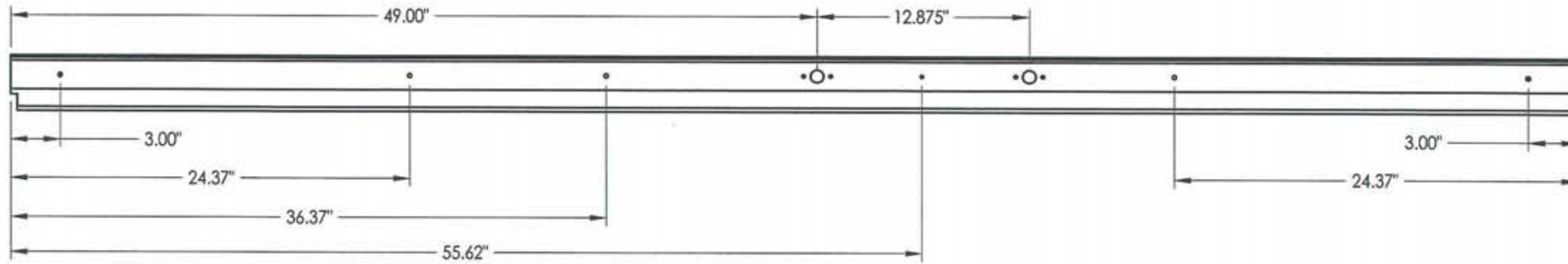
CHK. BY: LFS

DRAWING NO.:

TX-720

SHEET 9 OF 11

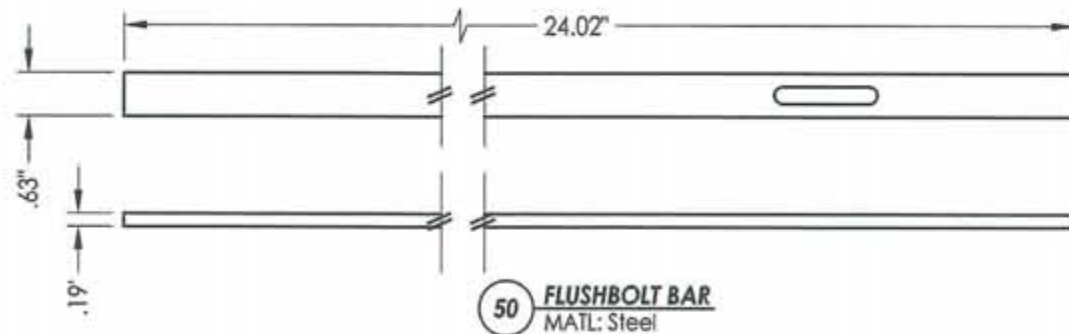
A-A
TOP
BOTTOM



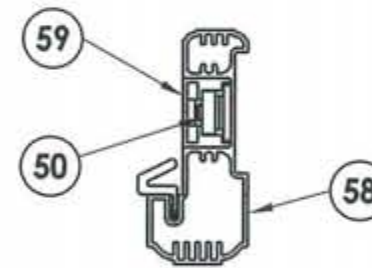
DEAD BOLT THRU HOLE

LATCH THRU HOLE

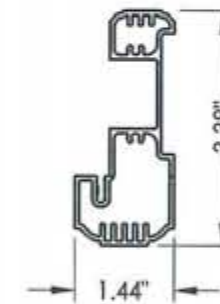
8'0 ALUMINUM ASTRAGAL ASSEMBLY
By Trinity



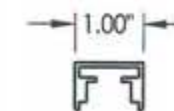
50 FLUSHBOLT BAR
MATL: Steel



VIEW A-A
Aluminum Astragal Assembly



58 ALUMINUM ASTRAGAL
BY Trinity



59 ASTRAGAL CHANNEL
BY Trinity



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:		TRC ASTRAGAL DETAILS	

NO.	DATE	REVISIONS
3	7/27/09	TDI PRODUCT EVALUATION UPDATE
2	6/28/06	REVISED LOCKSET NOMENCLATURE
1	12/2/05	REVISED ANCHOR LOCATIONS

DATE:	11/21/05
SCALE:	N.T.S.
DWG. BY:	AEM
CHK. BY:	LFS
DRAWING NO.:	TX-720
SHEET	10 OF 11

R:\A - Projects\Project Folders\Proj 1101 - 1200\p1160\DWG. RWBC Drawings\TX-720\TX-720.dwg, 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
I	3/16" X 1-3/4" ITW CONCRETE SCREW	STEEL
J	#10 X 3" PFH WS	STEEL
K	#9 X 2" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
Q	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
1	SIDELITE 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" 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 (Fy = 5,203 PSI MIN.)	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
50	FLUSHBOLT BAR	STEEL
51	4-3/4" LENGTH TOP BOLT RETAINER	HDPE
52	9-3/4" LENGTH TOP BOLT RETAINER	ALUMINUM
53	#8 X 1-3/4" PFH SMS	STEEL
54	ASTRAGAL STRIKE @ HEAD	STEEL
55	ASTRAGAL BY ENDURA PRODUCT	ALUMINUM
56	ASTRAGAL STRIKE @ SILL	STEEL
57	SLIDE BOLT ROD	STEEL
58	ASTRAGAL BY TRC	ALUMINUM

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
59	ASTRAGAL CHANNEL BY TRC	ALUMINUM
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 WOOD SCREW	STEEL
65	#10 X 2" PFH SCREW	STEEL
66	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
73	LVL SIDELITE TOP RAIL	POPLAR
74	LVL SIDELITE BOTTOM RAIL	POPLAR
75	LVL SIDELITE STILE	POPLAR

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"



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TRINITY GLASS INT'L
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PART OR ASSEMBLY:

BILL OF MATERIALS

NO.	DATE	REVISIONS			
		TDI	PRODUCT	EVALUATION	UPDATE
3	7/27/09				AL
2	6/28/06				EW
1	12/2/05				AEM

DATE: 11/21/05

SCALE: N.T.S.

DWG. BY: AEM

CHK. BY: LFS

DRAWING NO.:

TX-720

SHEET 11 OF 11