Trinity Glass INTERNATIONAL

4621 192nd STREET TACOMA, WA 98446

3'0 X 8'0 GLAZED PREMIUM FIBERGLASS SINGLE DOOR WITH SIDELITE(S) (BOXED) INSWING / OUTSWING

"NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Trinity Glazed Premium Fiberglass Door with sidelite(s) (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 05-1206-1, 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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6	Vertical cross sections
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8	Frame anchoring (XO)
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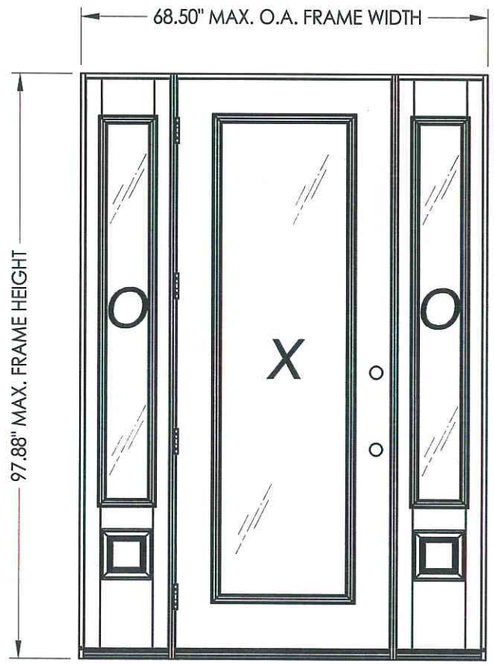
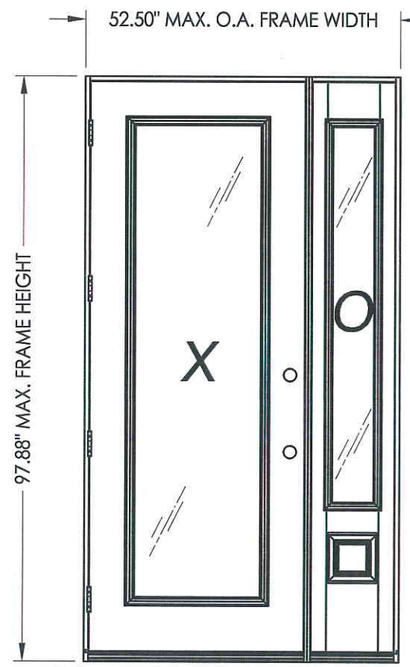


SINGLE DOOR W/ SIDELITES (BOXED)



SINGLE DOOR W/ SIDELITE (BOXED)

UNIT TYPE	SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
SINGLE W/ SIDELITES	INSWING	68.50" x 97.88"	G1	+47.0	-47.0
	OUTSWING	68.50" x 96.75"		+47.0	-47.0
SINGLE W/ SIDELITE	INSWING	52.50" x 97.88"		+47.0	-47.0
	OUTSWING	52.50" x 96.75"		+47.0	-47.0

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

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

1.6.10

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 1 OF 11

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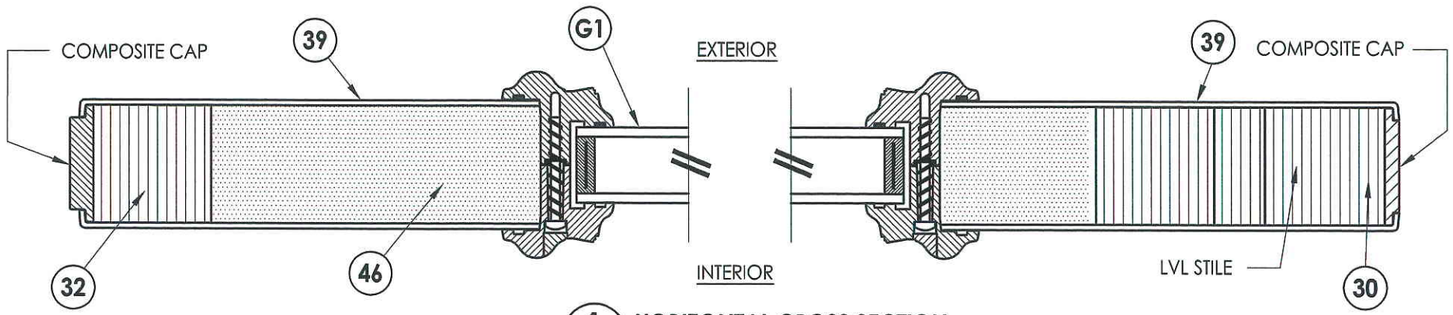
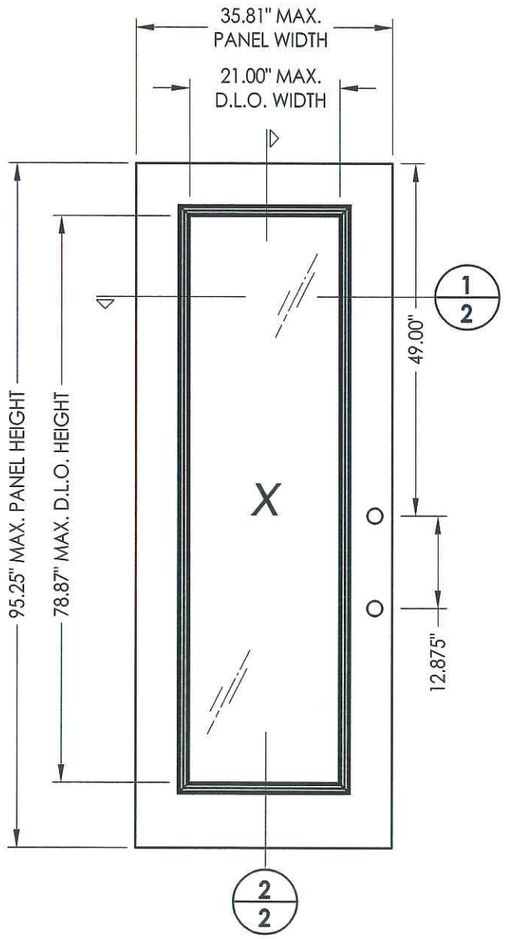
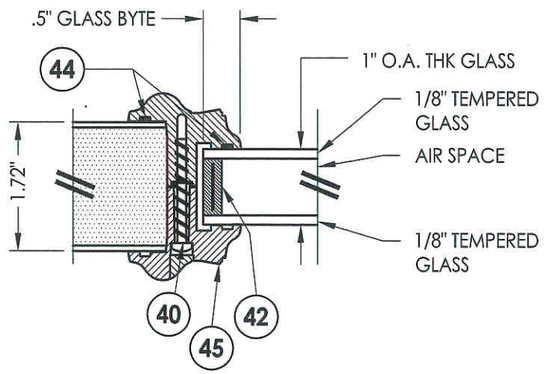


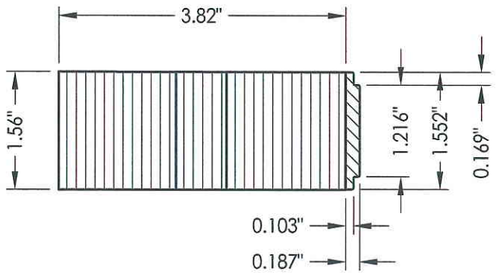
1/2 **HORIZONTAL CROSS SECTION**



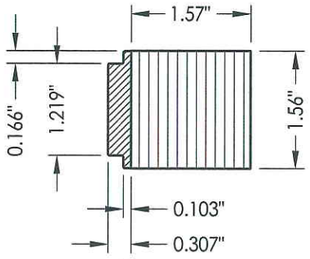
7 **PREMIUM LIPLITE FIBERGLASS DOOR**



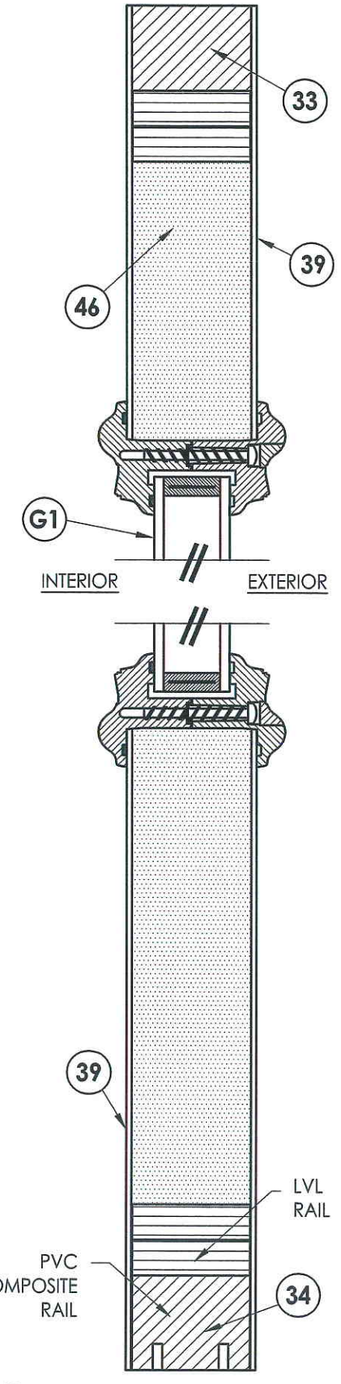
G1 **GLAZING DETAIL**



30 **LATCH STILE**



32 **HINGE STILE**



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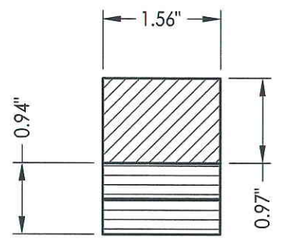
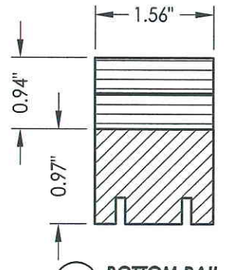
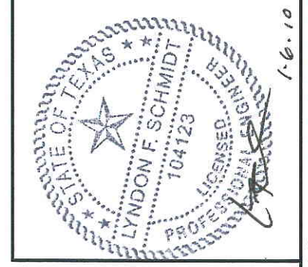


33 **TOP RAIL**



34 **BOTTOM RAIL**



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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	BY

REVISIONS

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 2 OF 11

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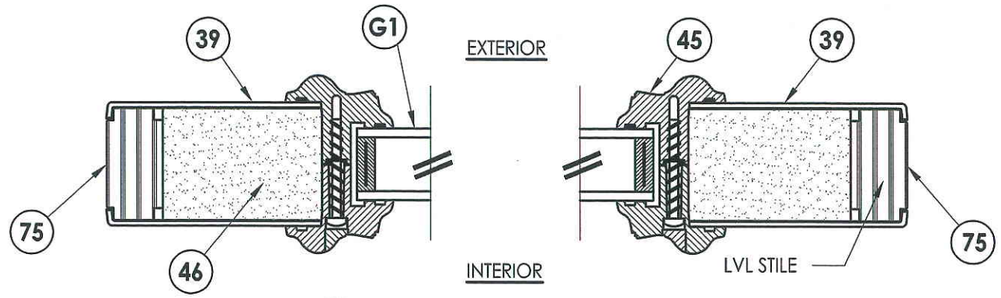
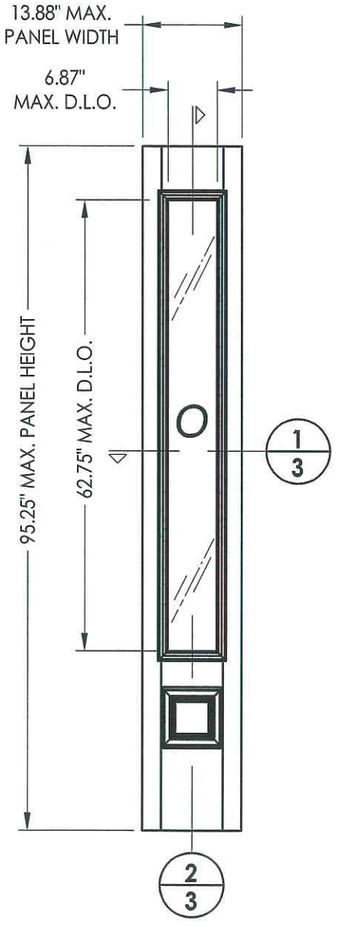
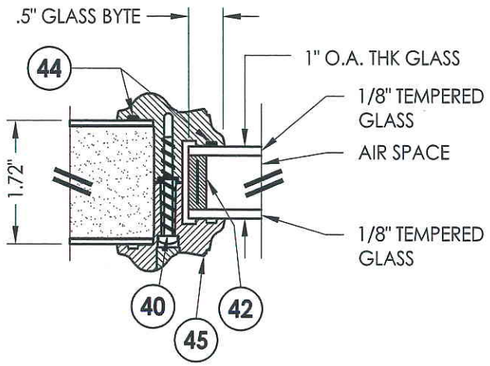


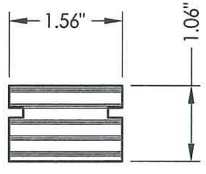
1/3 **HORIZONTAL CROSS SECTION**



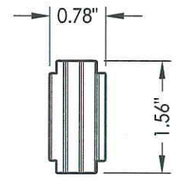
66 **PREMIUM LIPLITE FIBERGLASS SIDELITE**



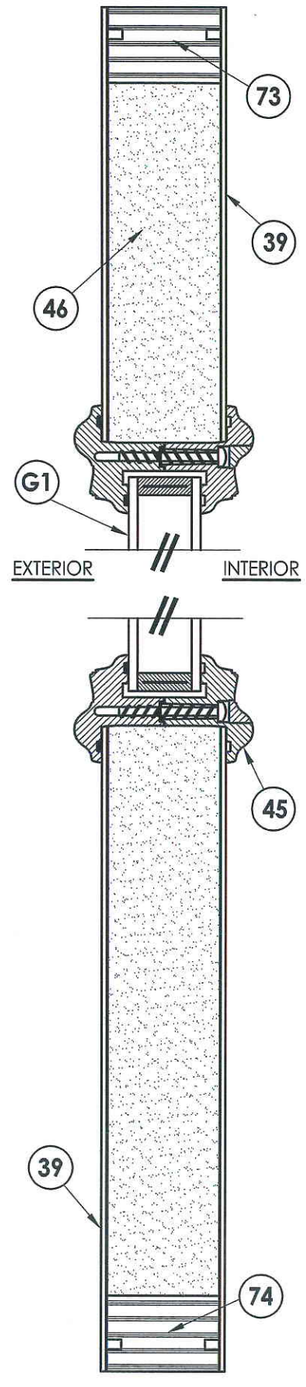
G1 **GLAZING DETAIL**



74 73 **TOP & BOTTOM RAIL**
SIDELITE



75 **SIDELITE STILE**



2/3 **VERTICAL CROSS SECTION**

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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

NO.	DATE	BY	REVISIONS

DATE: 8/12/09
SCALE: N.T.S.
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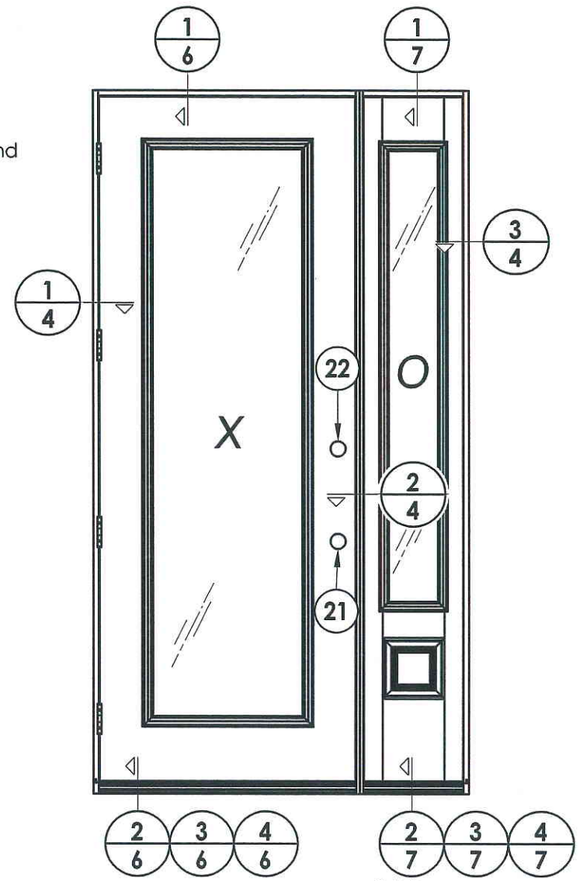
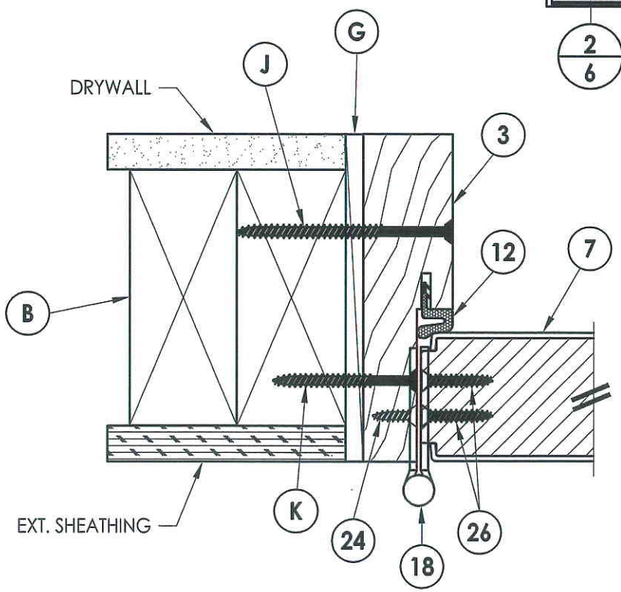
NOTE:

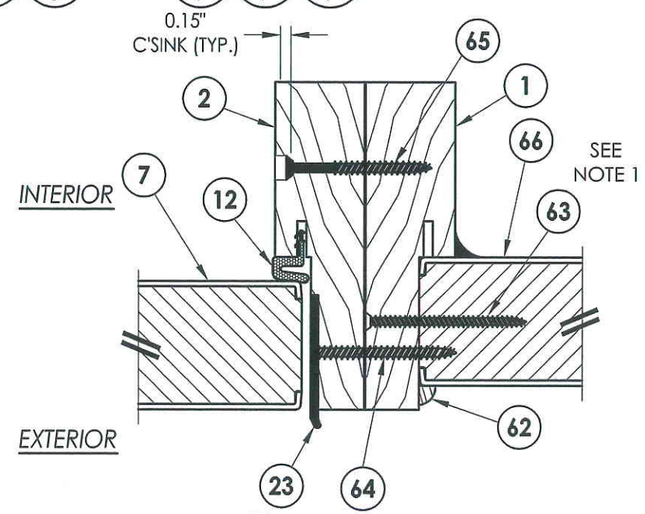
1. Sidelite ass'y fastener: 6" from each end and 6 more screws equally spaced between (8 screws total per jamb).



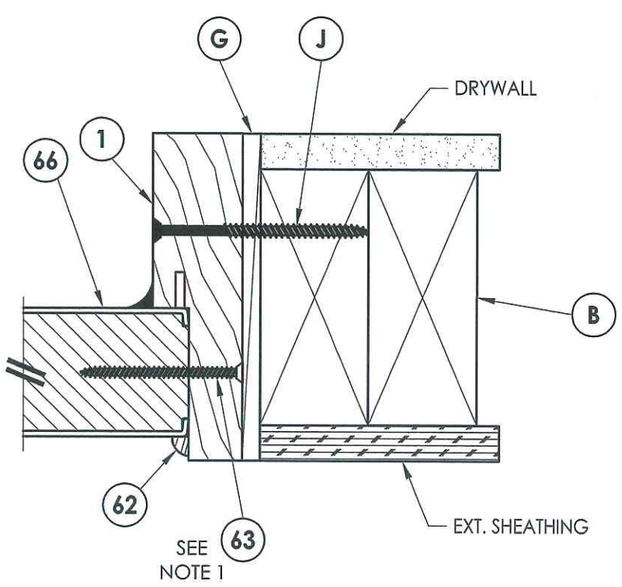
LOCK & DEADBOLT RATINGS CHART				
MANUFACTURER	MODEL	ITEM #	MAX. DESIGN PRESSURE (PSF) POSITIVE	NEGATIVE
KWIKSET	LOCK: 740	21	+47.0	-47.0
	DEADBOLT: 780	22		
KWIKSET	LOCK: COMBO 660	21	+47.0	-47.0
	DEADBOLT: COMBO 660	22		
SCHLAGE	LOCK: MAX. SECURITY	21	+47.0	-47.0
	DEADBOLT: MAX. SECURITY	22		



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



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



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

INTERIOR

EXTERIOR

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LYNDON F. SCHMIDT
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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

NO.	DATE	BY	REVISIONS

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 4 OF 11

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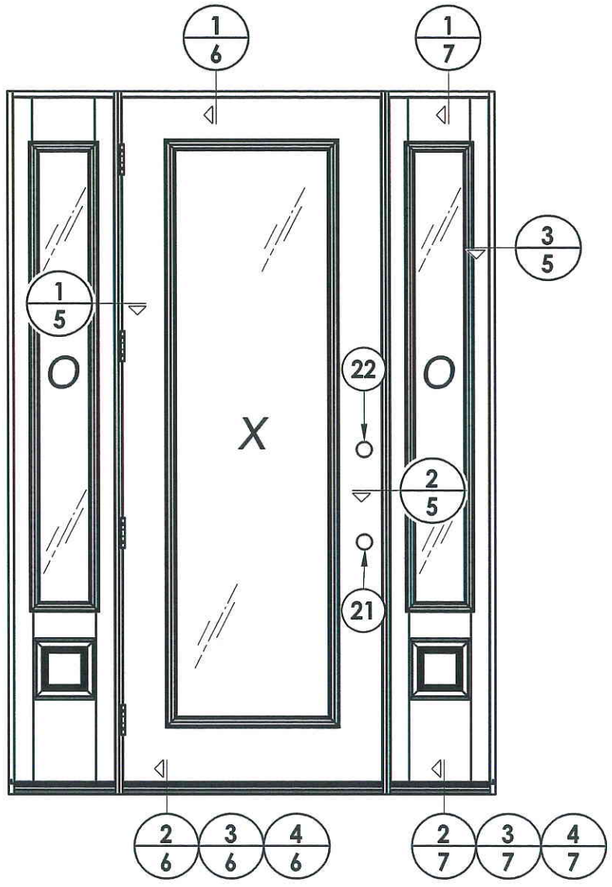
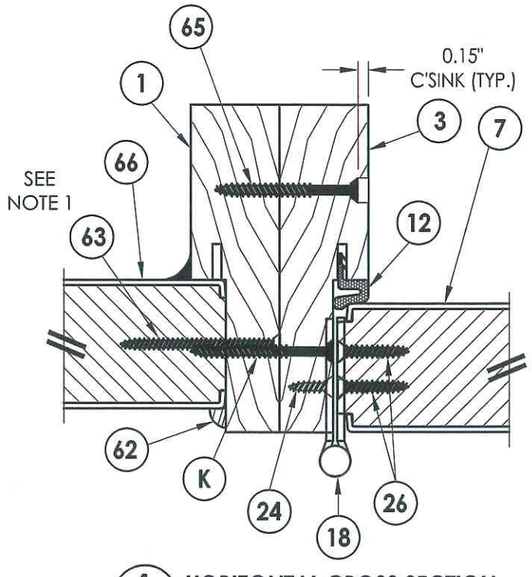
NOTE:

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

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

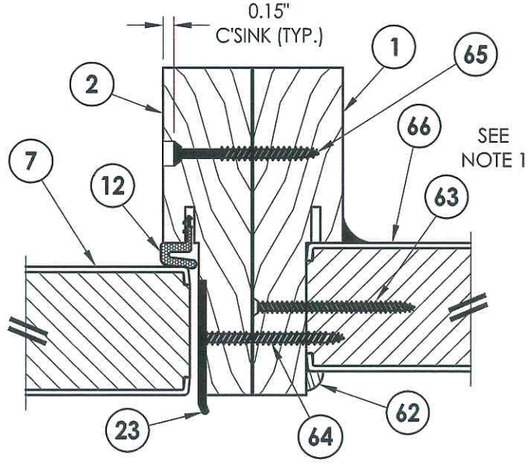




1/5 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved

INTERIOR

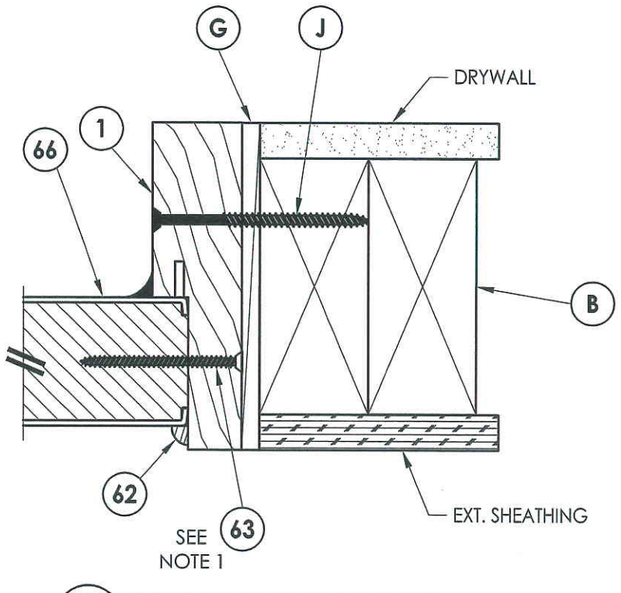
EXTERIOR



2/5 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved

INTERIOR

EXTERIOR



3/5 **HORIZONTAL CROSS SECTION**
Outswing shown
Inswing also approved

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LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
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:
HORIZONTAL CROSS SECTION

NO.	DATE	REVISIONS	BY

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 5 OF 11

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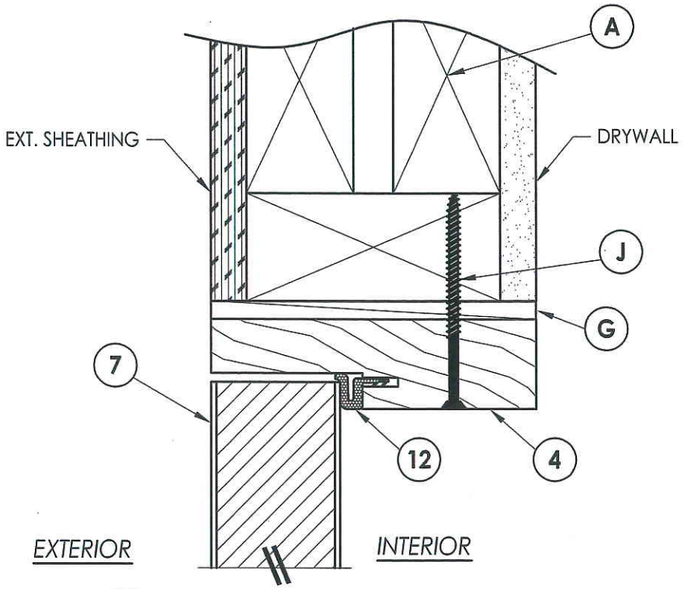
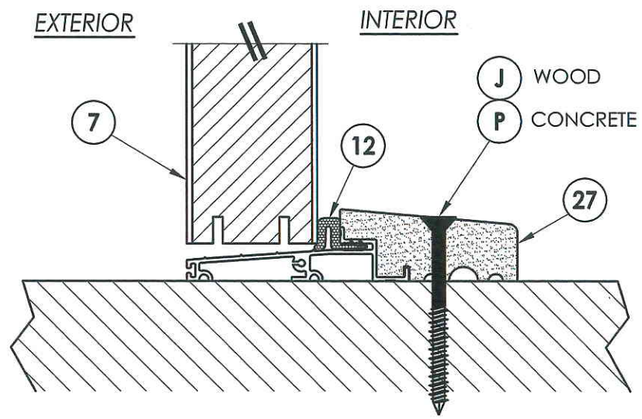
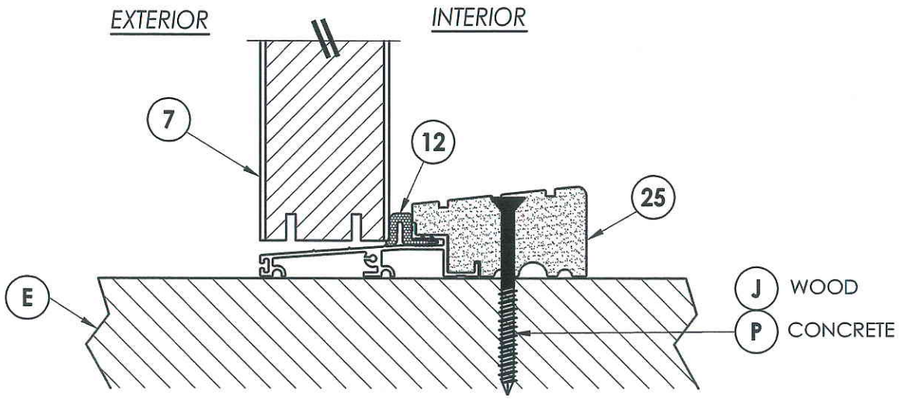


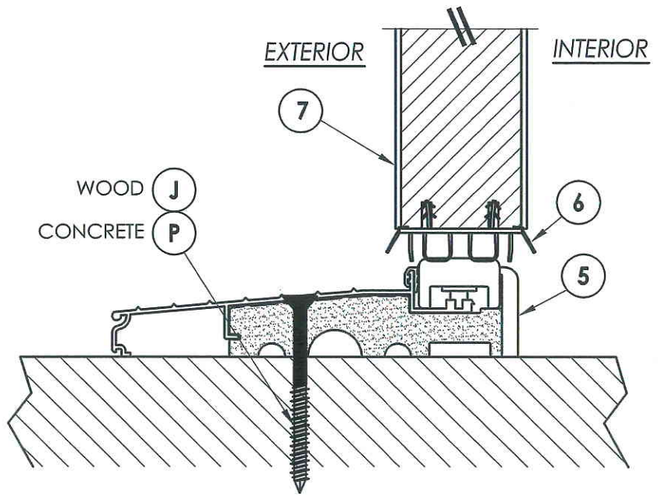
1/6 **VERTICAL CROSS SECTION**
Outswing shown
Inswing also approved



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



3/6 **VERTICAL CROSS SECTION**
Outswing configuration



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

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:
TRINITY GLASS INT'L
PREMIUM LIPLITE FIBERGLASS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	BY
	REVISIONS	

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 6 OF 11

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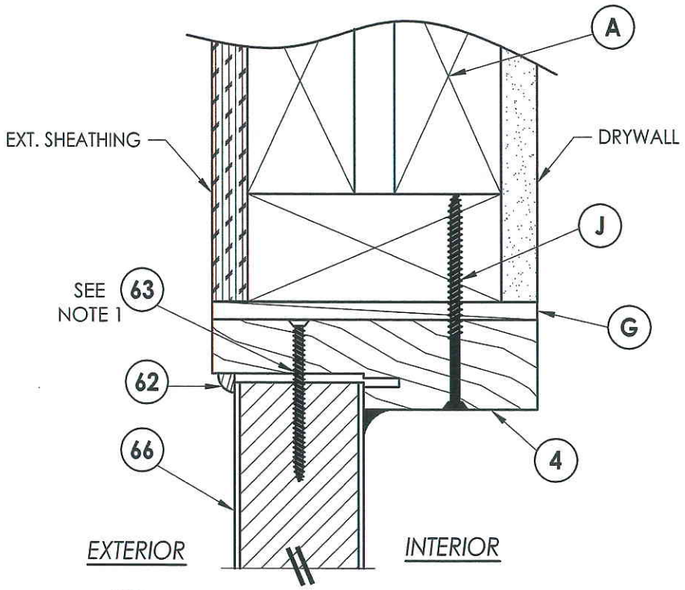
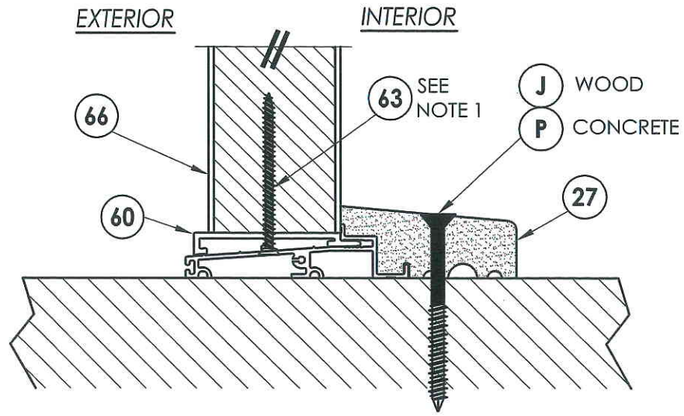


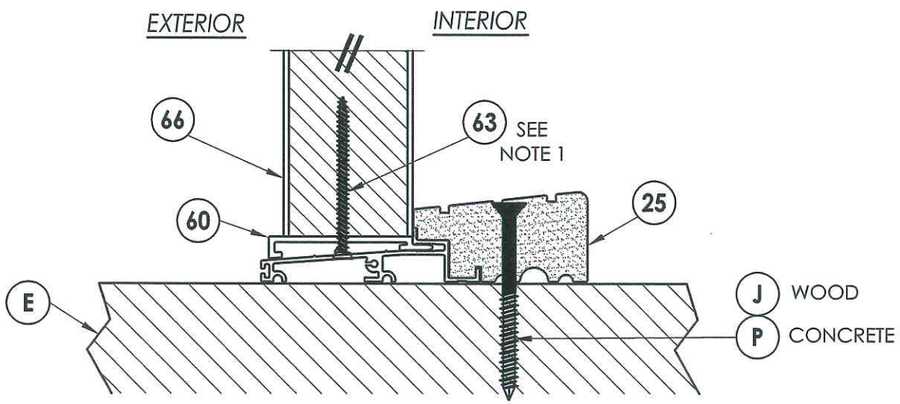
1/7 **VERTICAL CROSS SECTION**



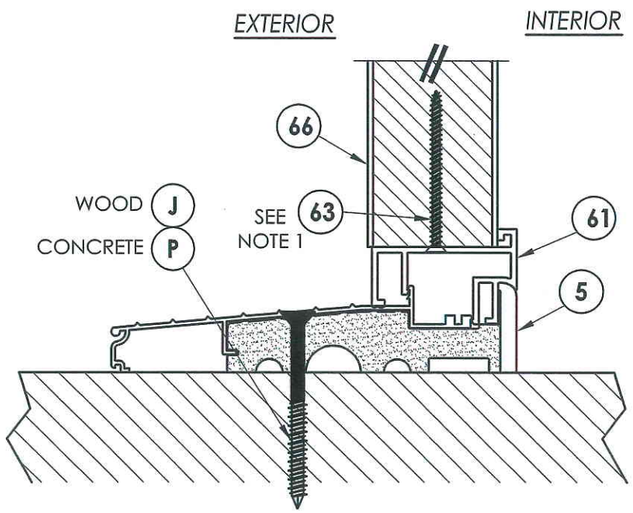
2/7 **VERTICAL CROSS SECTION**
Outswing sill

NOTE:

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



3/7 **VERTICAL CROSS SECTION**
Outswing sill - high dam



4/7 **VERTICAL CROSS SECTION**
Inswing sill

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 7 OF 11

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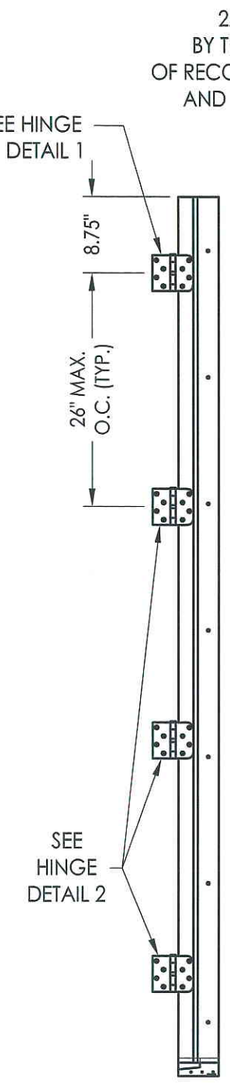
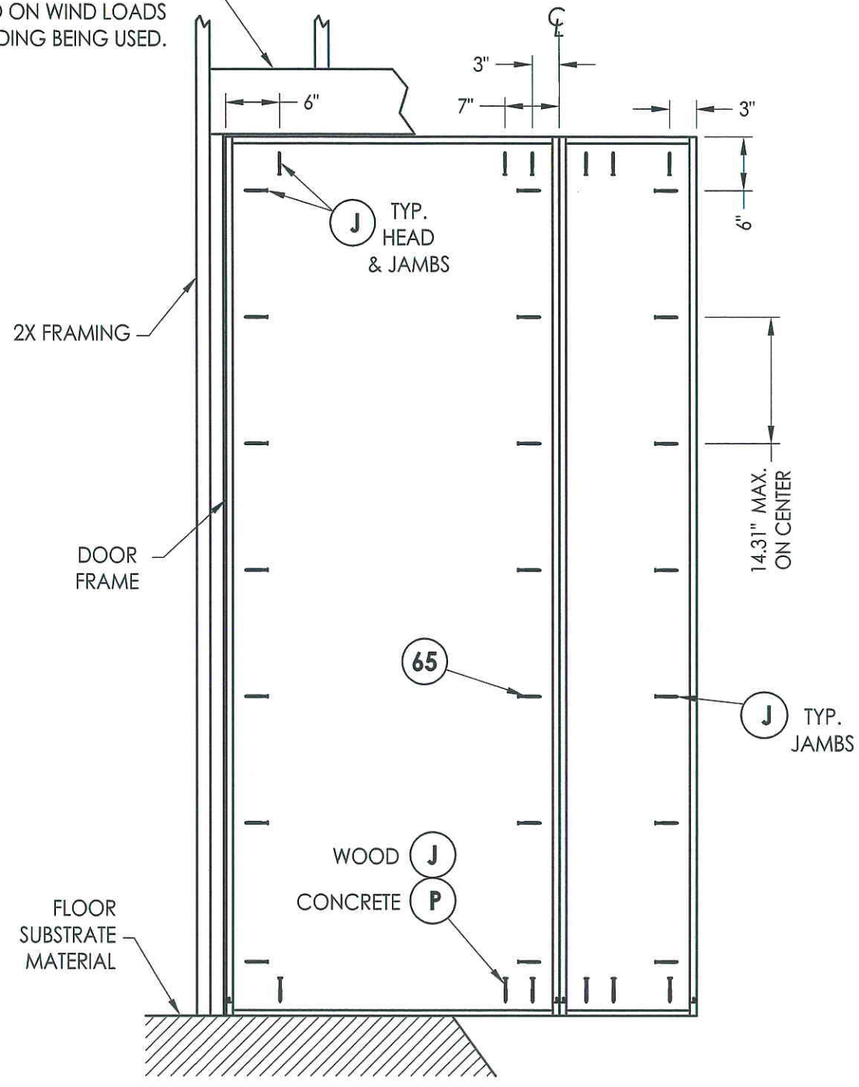
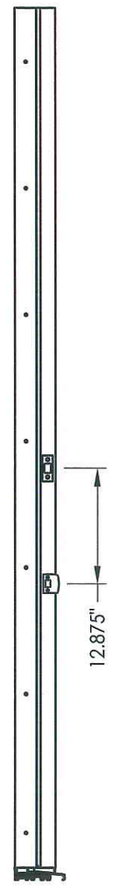


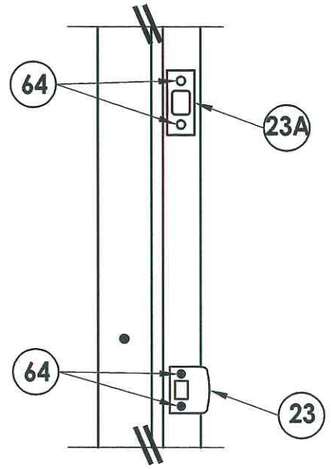
HINGE JAMB



FRAME ANCHORING
Stud construction



STRIKE MULLION



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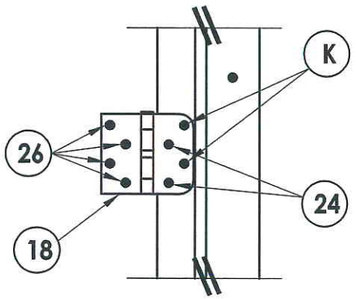
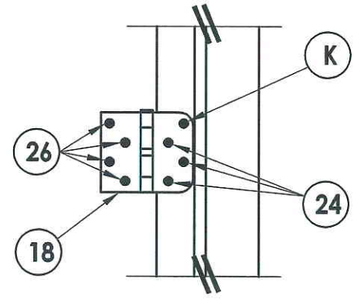


HINGE DETAIL 1



HINGE DETAIL 2

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P.O. Box 230 Valrico FL. 33595
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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 (XO)

NO.	DATE	REVISIONS	BY

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 8 OF 11

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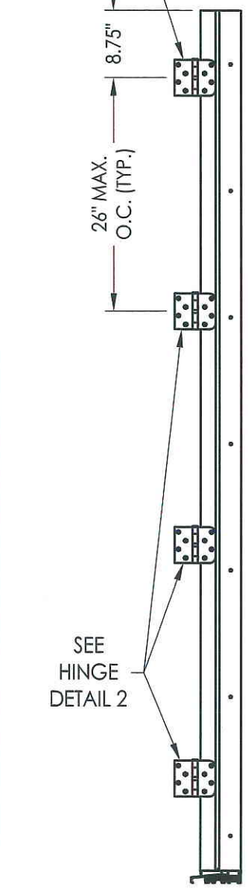

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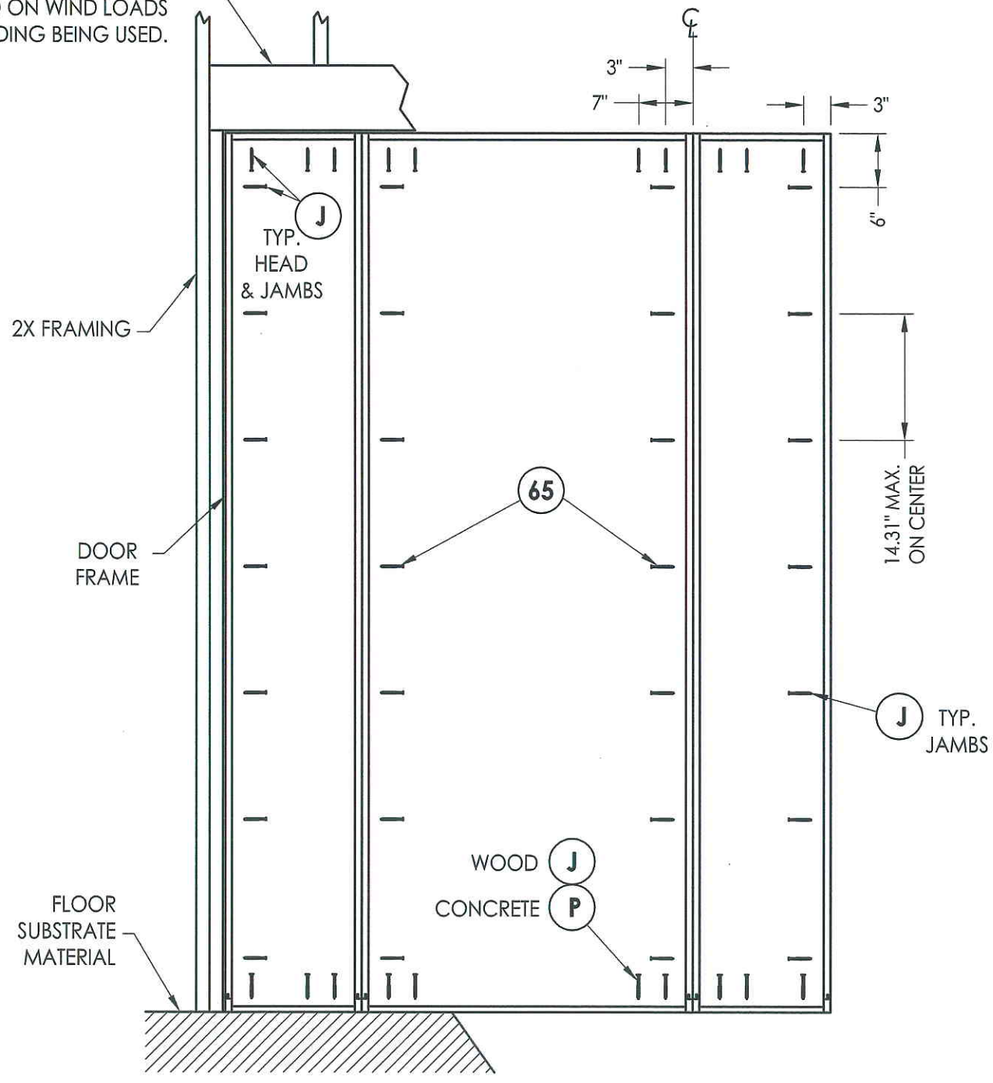
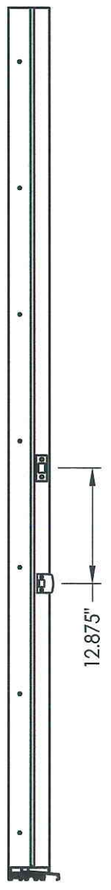


FRAME ANCHORING
Stud construction



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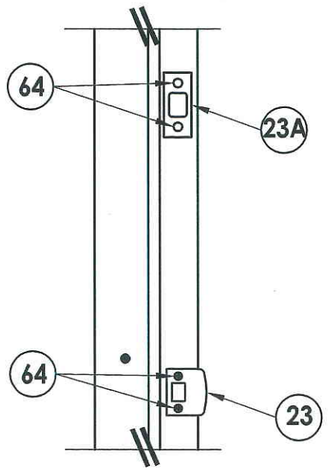

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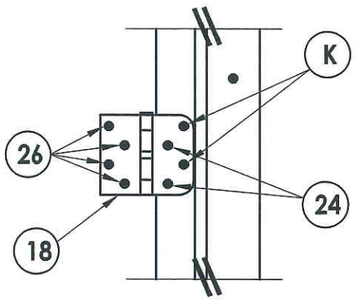

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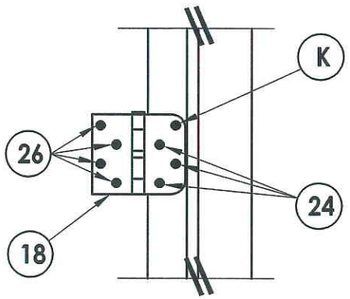

HINGE DETAIL 2

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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
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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 (OXO)

NO.	DATE	REVISIONS	BY

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 9 OF 11

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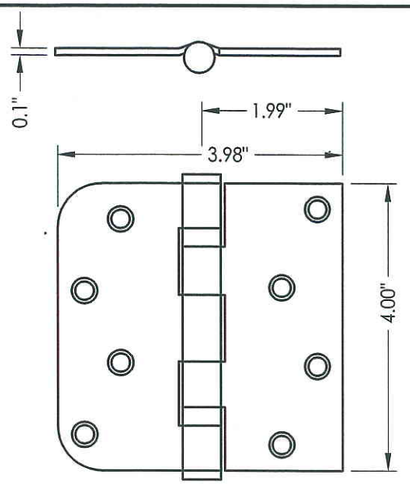
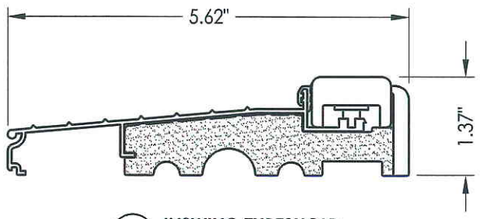
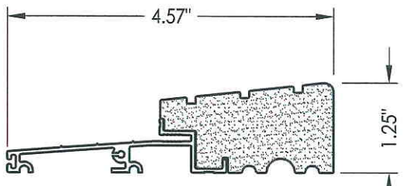


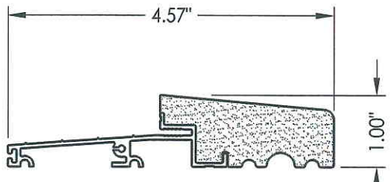
18 **HINGE**



5 **INSWING THRESHOLD**

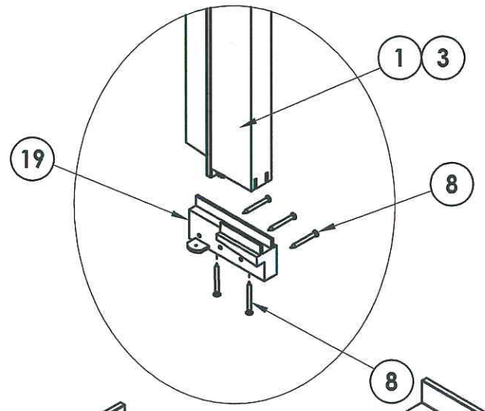


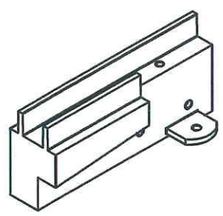
25 **OUTSWING THRESHOLD**
High-dam option



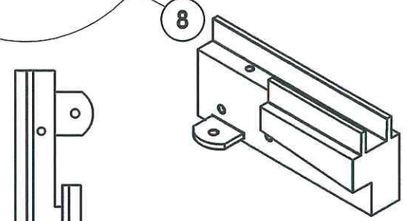
27 **OUTSWING THRESHOLD**

6 **DOOR BOTTOM SWEEP**





SILLKEY, LEFT
SCALE: NONE



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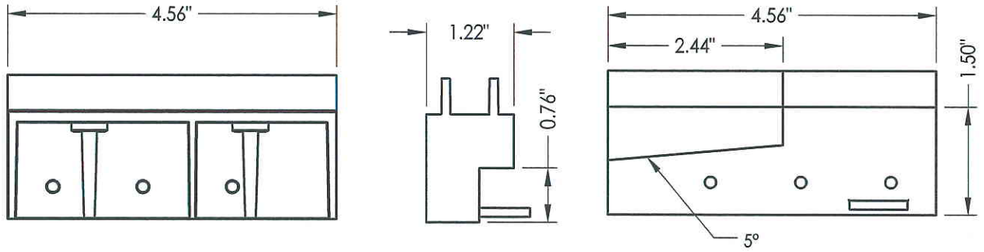
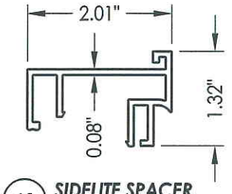
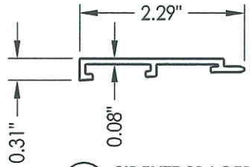
SCALE: NONE



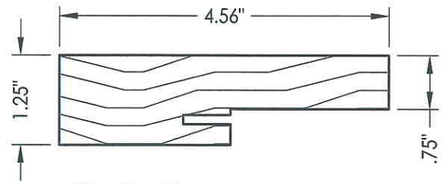
19 **SILLKEY DETAILS**
Optional



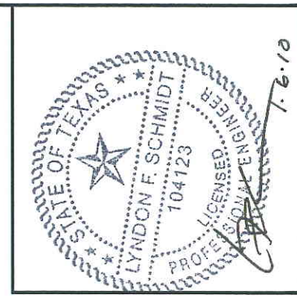
61 **SIDELITE SPACER**
Inswing



60 **SIDELITE SPACER**
Outswing



4 3 1 **SIDE & HEAD JAMBS**



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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: COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 10 OF 11

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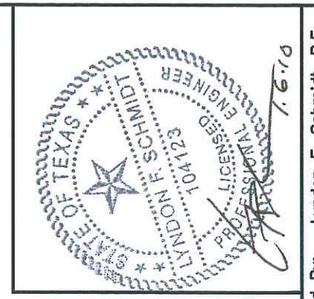
BILL OF MATERIALS

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	STEEL
K	#9 X 2" PFH WS	STEEL
P	3/16" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
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
9	#9 X 2-1/4" PFH WOOD 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
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 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"

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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	BY	REVISIONS

DATE: 8/12/09
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4033
SHEET 11 OF 11

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