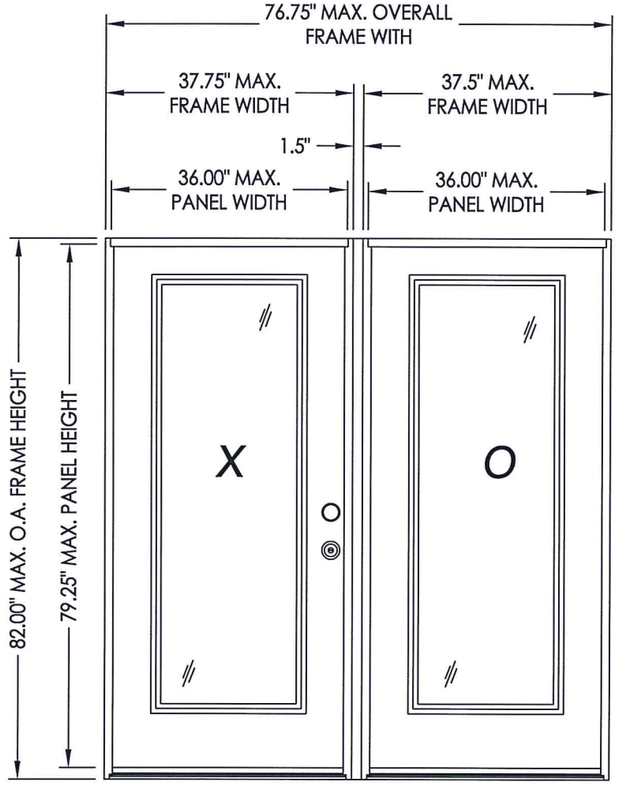
THERMA-TRU®

118 INDUSTRIAL DR., EDGERTON, OH 43517
TEL. (419)298-1740

"SMOOTH STAR", "FIBER CLASSIC", "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC" GLAZED FIBERGLASS DOOR W/SIDELITE INSWING / OUTSWING "IMPACT"



"SMOOTH STAR", "FIBER CLASSIC" "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Glazed Door 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. This system has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. This product meets missile level "D" as defined in ASTM E 1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.
5. Fiber-Classic and Smooth-Star Door and Sidelite panels require the use of "J" part numbers. These door and sidelite panels must be stained or painted within six months of installation.

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SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DOOR / SIDELITE DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	76.75" X 82.00"	21.00" X 63.25"	+47.0	−53.0
OUTSWING	76.75" X 80.62"	21.00" X 63.25"	+50.0	−50.0

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER · 7-22-12

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R.W. BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR W/ SIDELITE IN/OUTSWING "IMPACT"

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

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 1 OF 9

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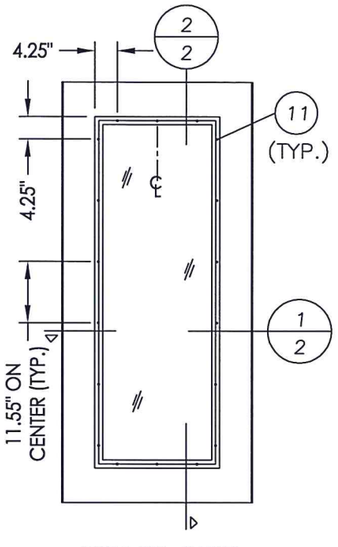
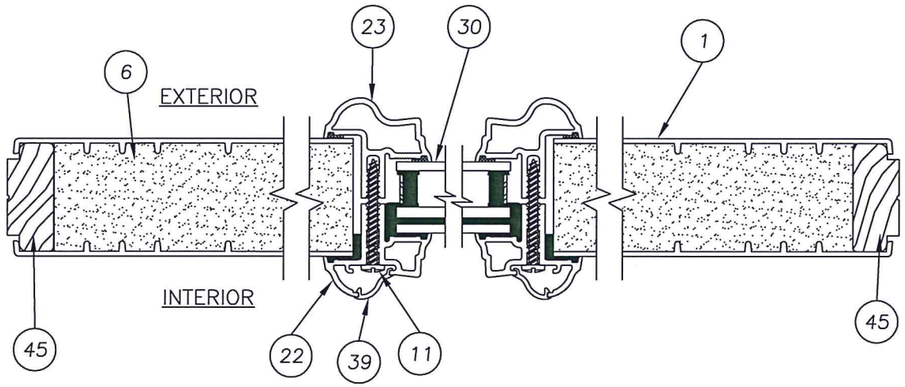
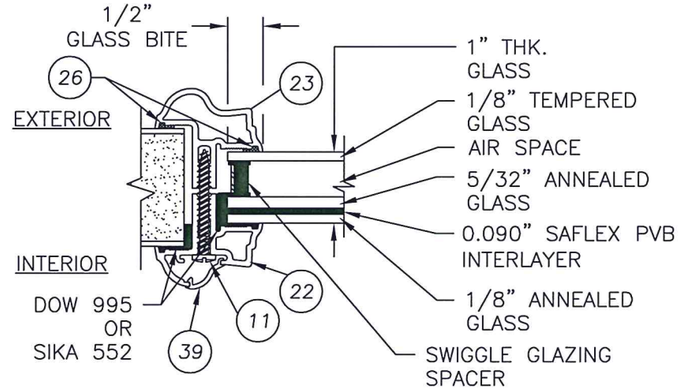
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 330 - 68 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SL\C - Drawings\Current\TX-4190-94.dwg, TX-4191



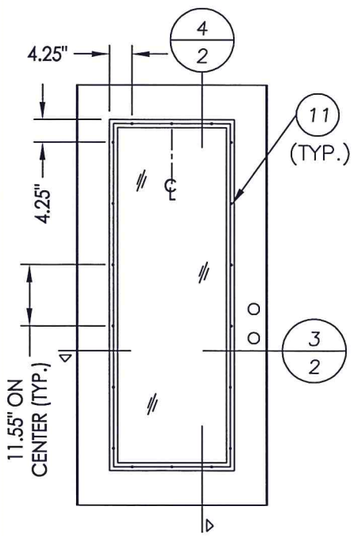
SIDELITE PANEL



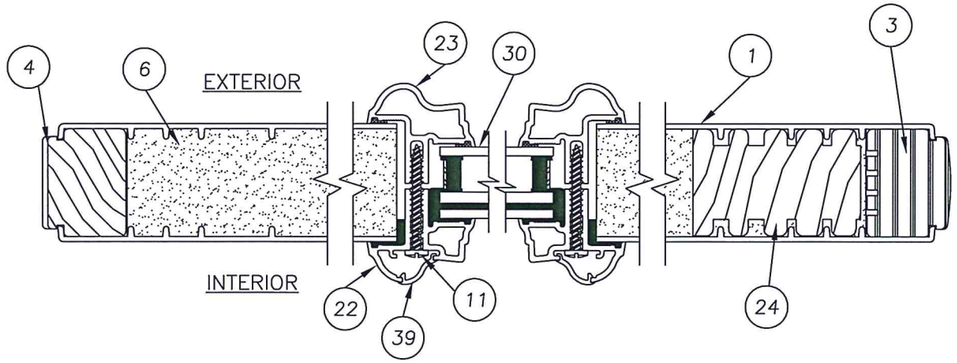
1/2 HORIZONTAL CROSS SECTION
2 SIDELITE PANEL



GLAZING DETAIL



DOOR PANEL



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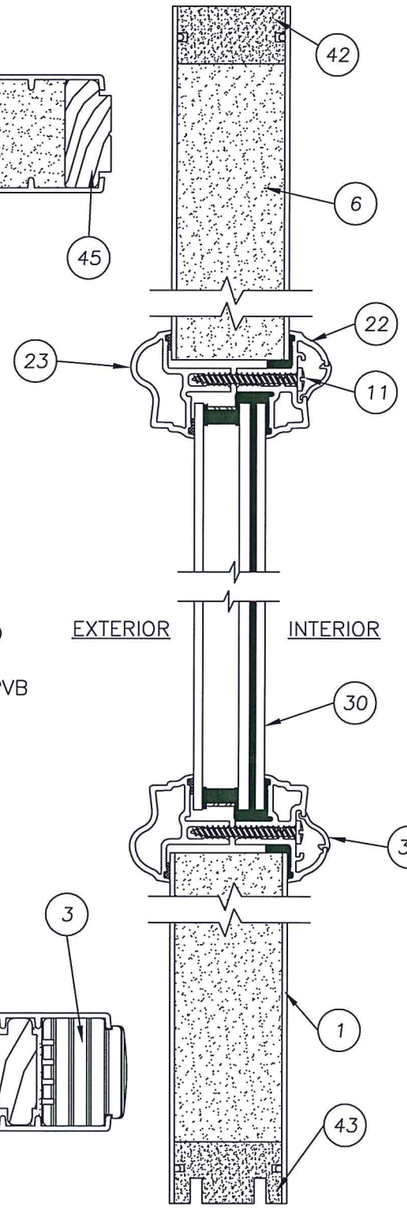
DOOR PANEL



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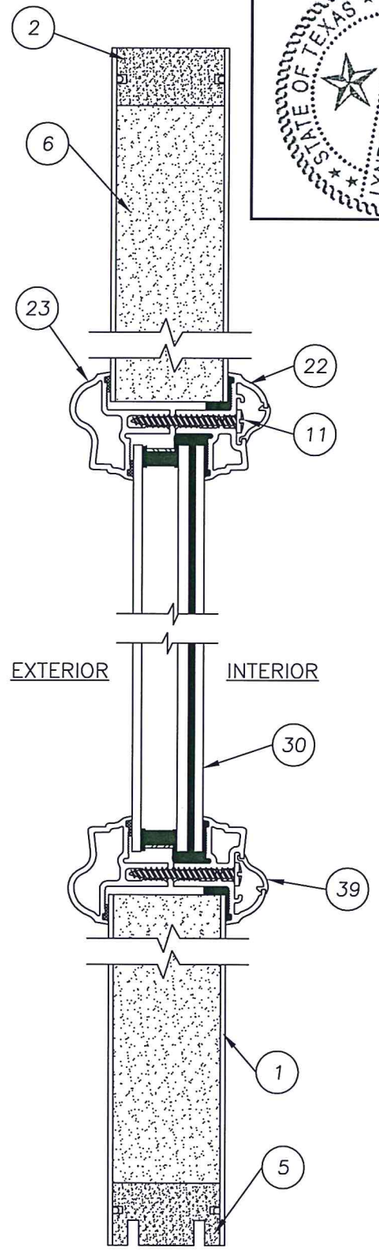

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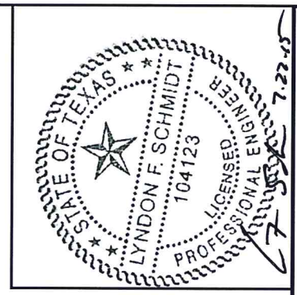
DOOR PANEL



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

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR W/ SIDELITE IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: "SMOOTH STAR" DOOR/SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 2 OF 9

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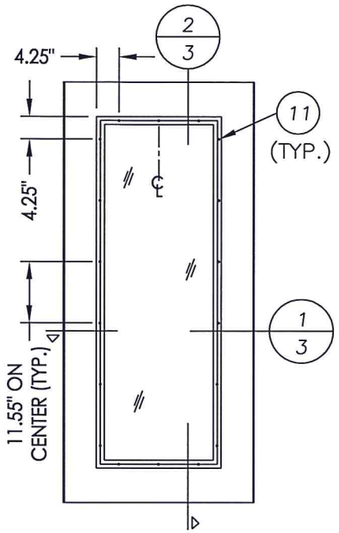
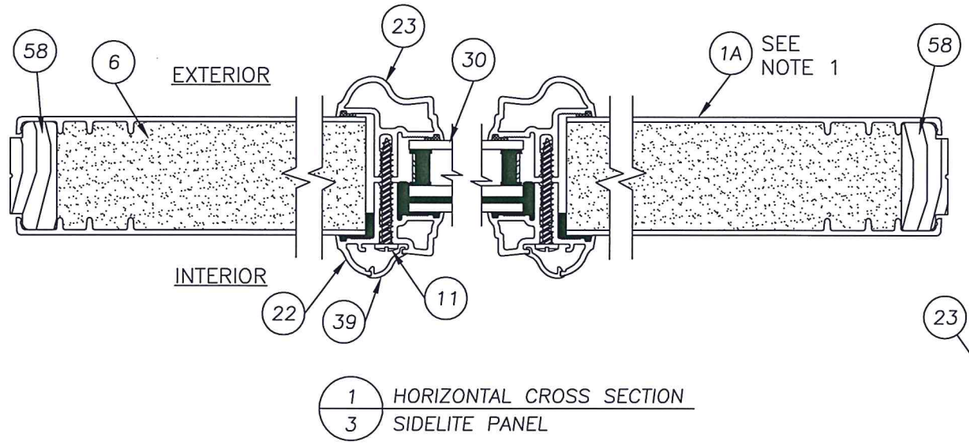


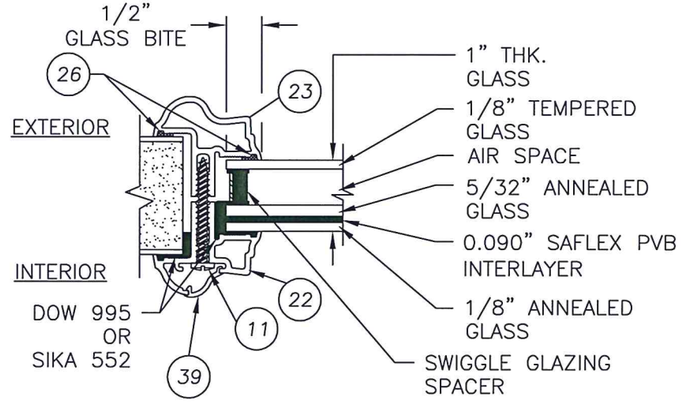
SIDELITE PANEL

NOTE:

1. "RUSTIC" PANEL UTILIZES MAHOGANY GRAINING PATTERN, "CLASSIC CRAFT" PANEL UTILIZES OAK GRAINING PATTERN.



1/3 HORIZONTAL CROSS SECTION SIDELITE PANEL



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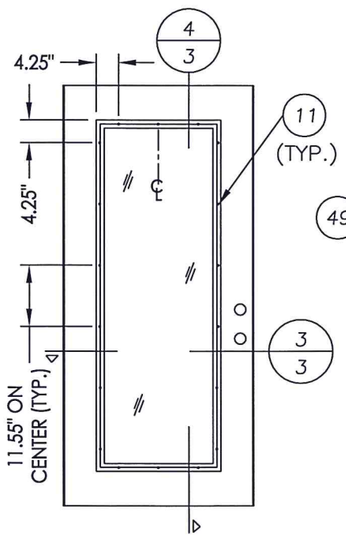
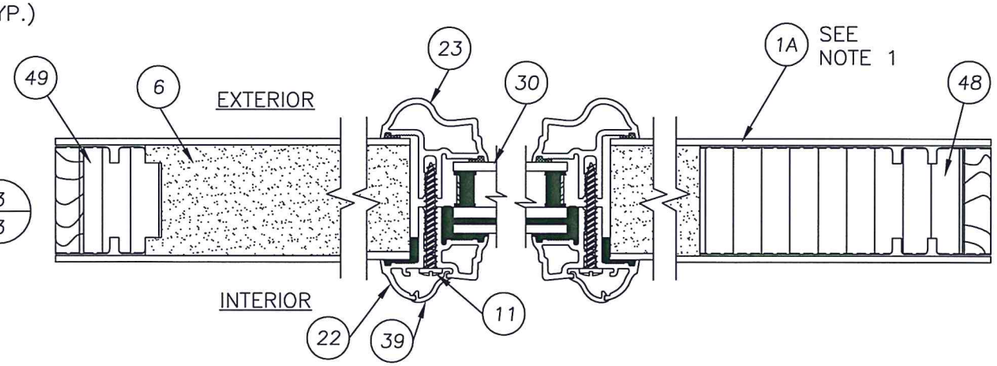
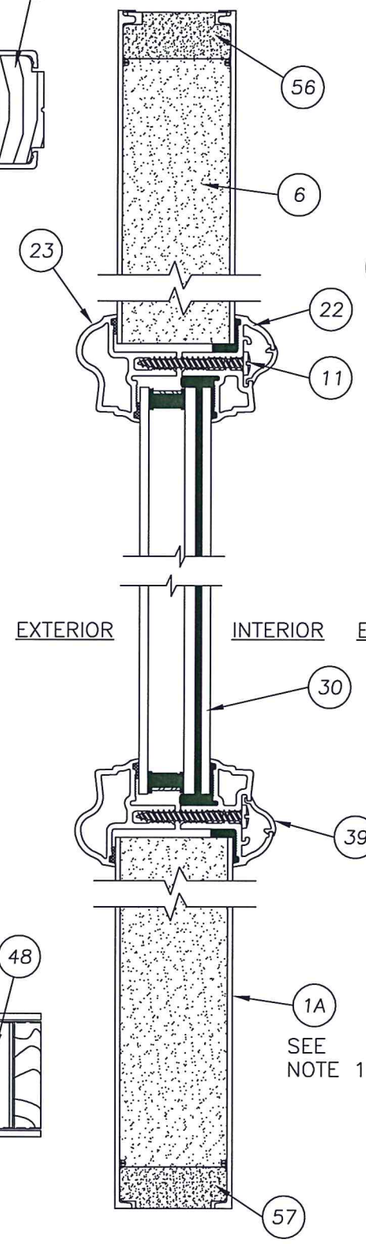


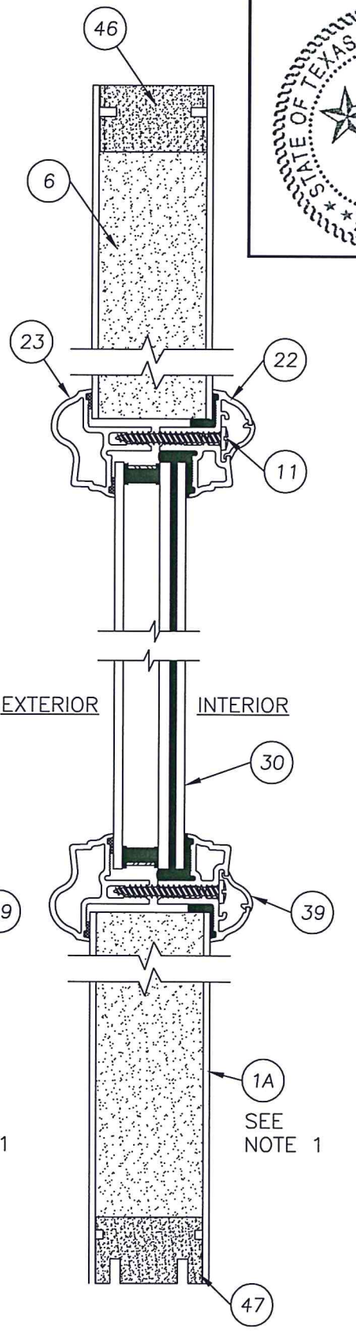
DOOR PANEL



3/3 HORIZONTAL CROSS SECTION DOOR PANEL



2/3 VERTICAL CROSS SECTION SIDELITE PANEL



4/3 VERTICAL CROSS SECTION DOOR PANEL

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

PRODUCT: THERMA-TRU FIBERGLASS DOOR W/ GLAZED SIDELITE IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: "CLASSIC CRAFT" & "CC RUSTIC" DOOR/SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 3 OF 9

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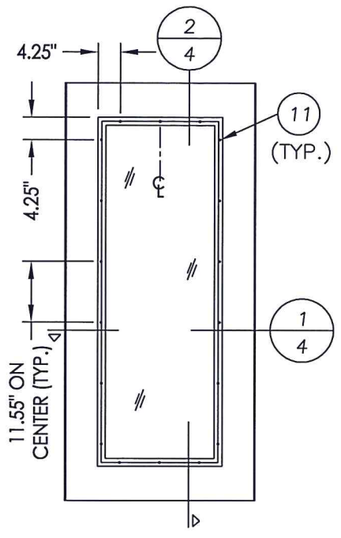
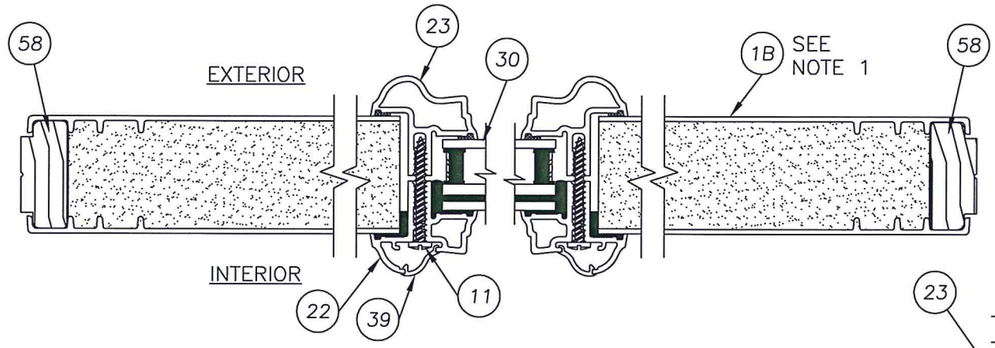
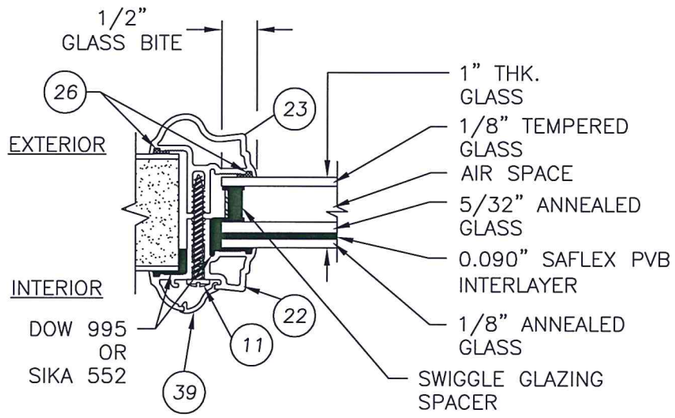


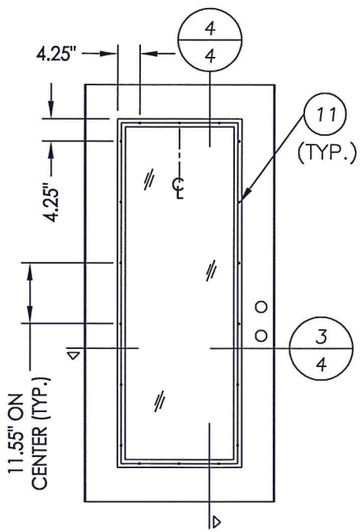
SIDELITE PANEL



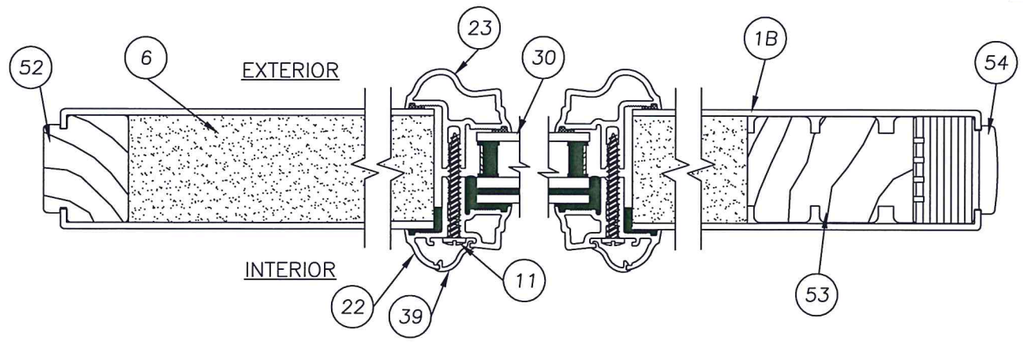
1/4 HORIZONTAL CROSS SECTION
SIDELITE PANEL



GLAZING DETAIL



DOOR PANEL



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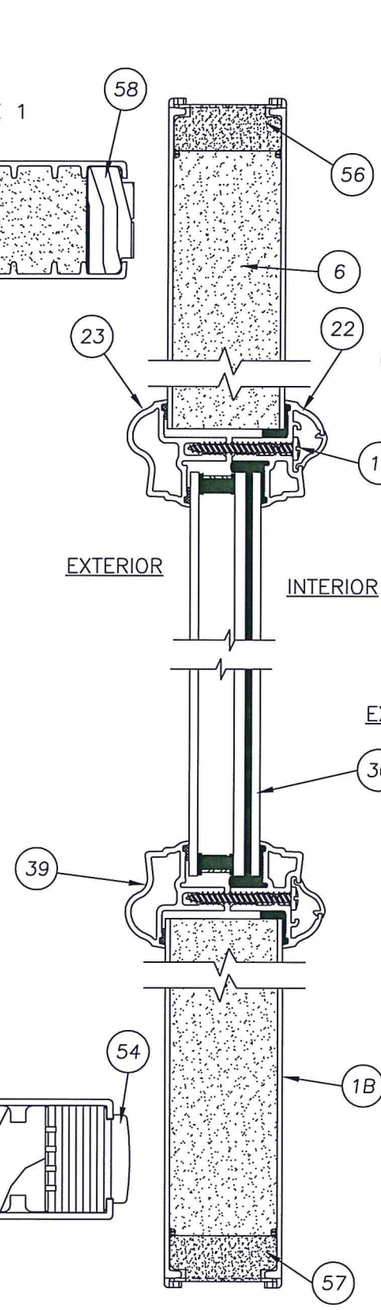
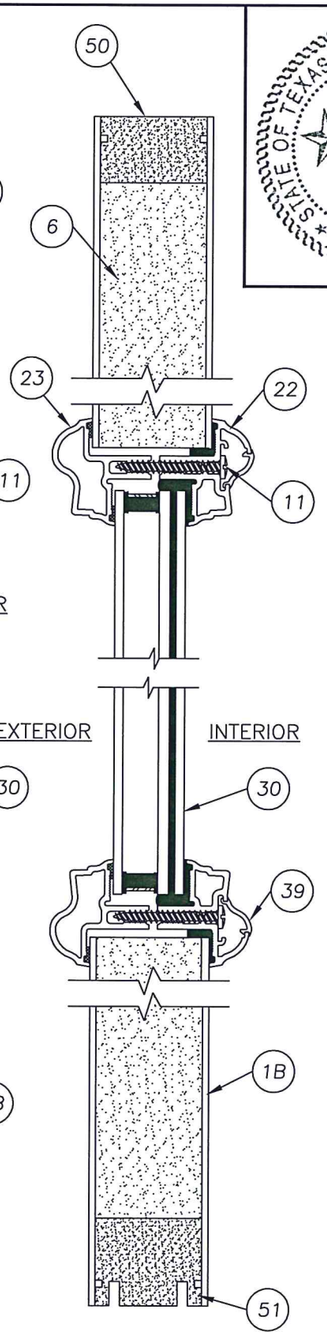
DOOR PANEL



2/4 VERTICAL CROSS SECTION
SIDELITE PANEL



4/4 VERTICAL CROSS SECTION
DOOR PANEL

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

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
7-22-15

PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DOOR W/
SIDELITE IN/OUTSWING "IMPACT"

PART OR ASSEMBLY:
"FIBER CLASSIC"
DOOR/SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 4 OF 9

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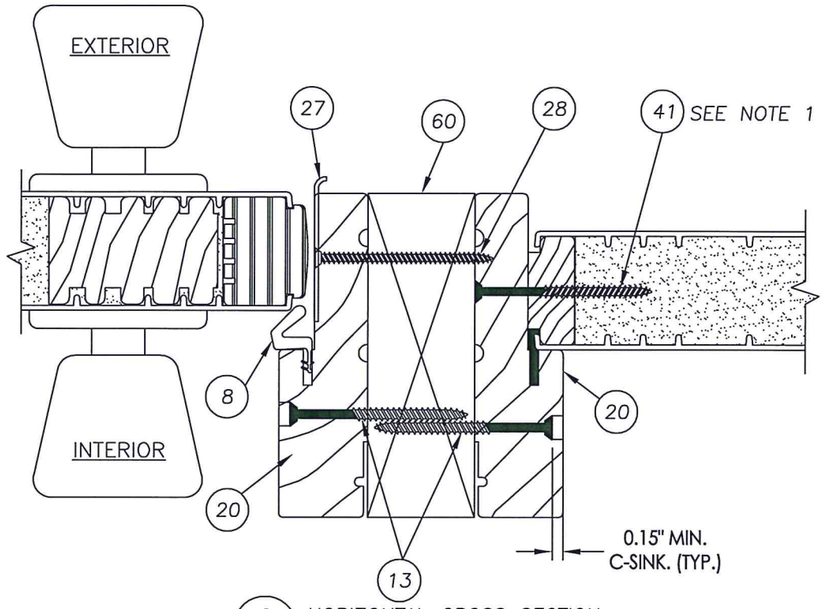
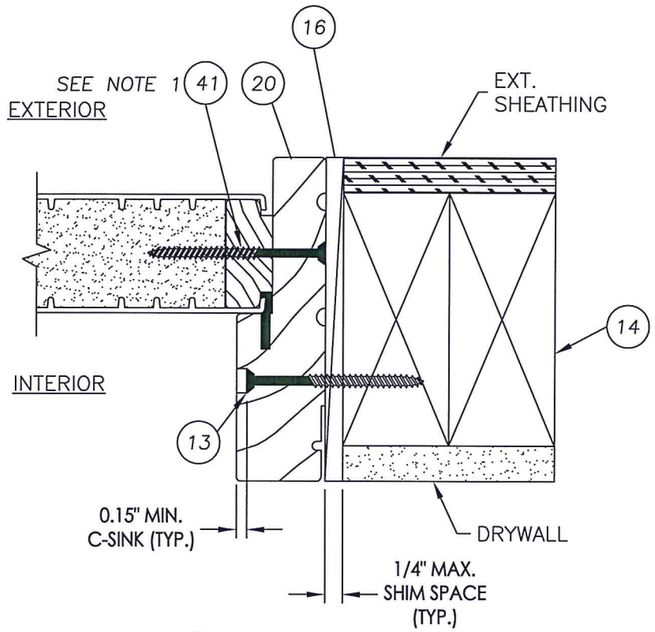


2/5 HORIZONTAL CROSS SECTION
OUTSWING SHOWN (INSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)



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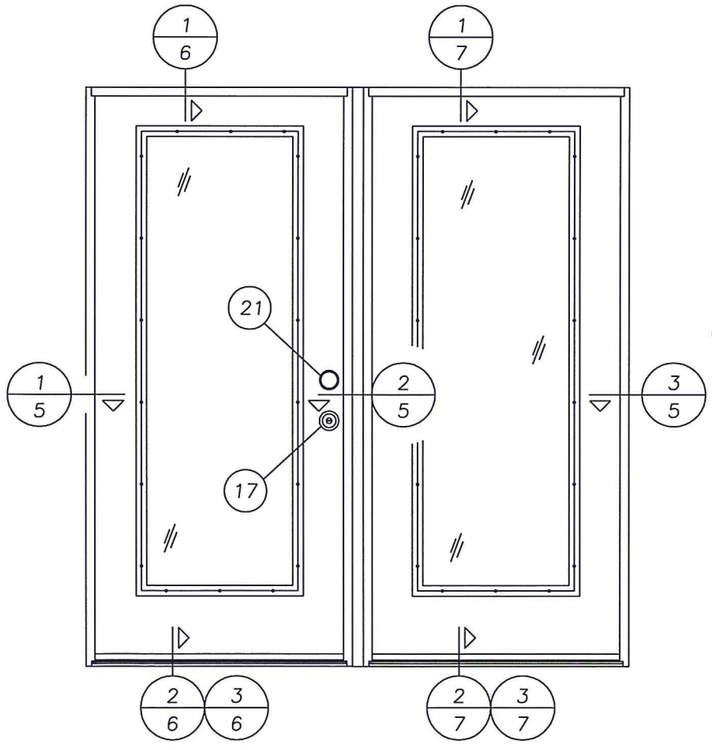

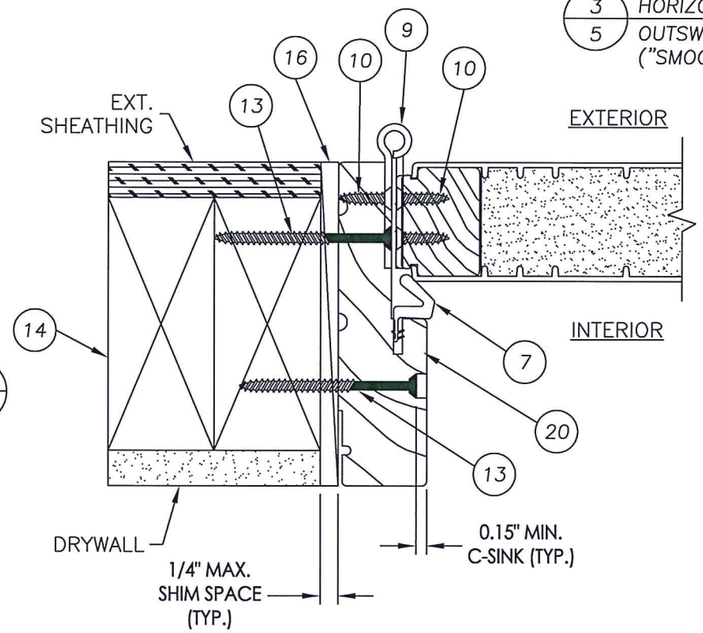

1/5 HORIZONTAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)

NOTE:
1. SIDELITE ASSEMBLY FASTENERS LOCATED 6" FROM ENDS PLUS 4 MORE EQUALLY SPACED (6 TOTAL).

STATE OF TEXAS
LYNDON F. SCHMIDT
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7.22.15

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

PRODUCT: THERMA-TRU FIBERGLASS DOOR W/ GLAZED FIBERGLASS SIDELITE IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 5 OF 9

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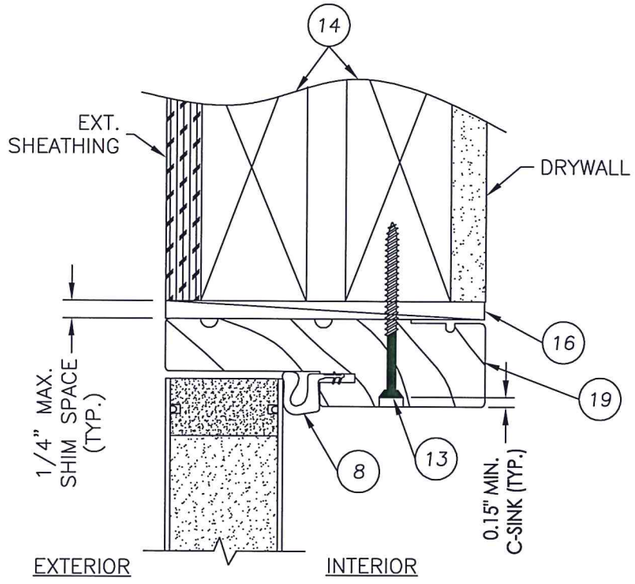
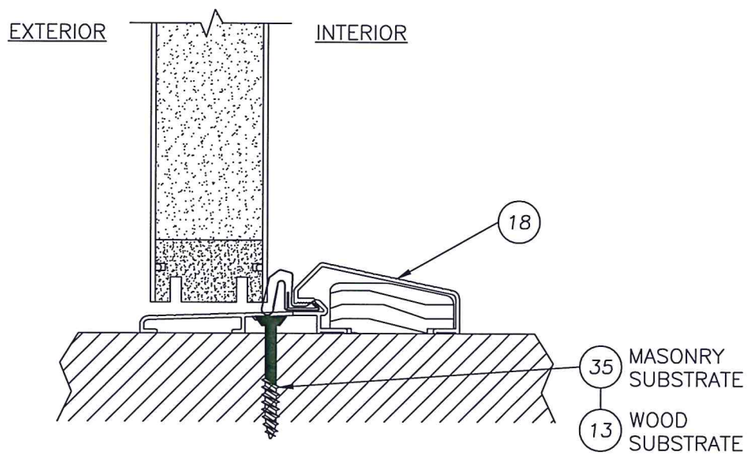
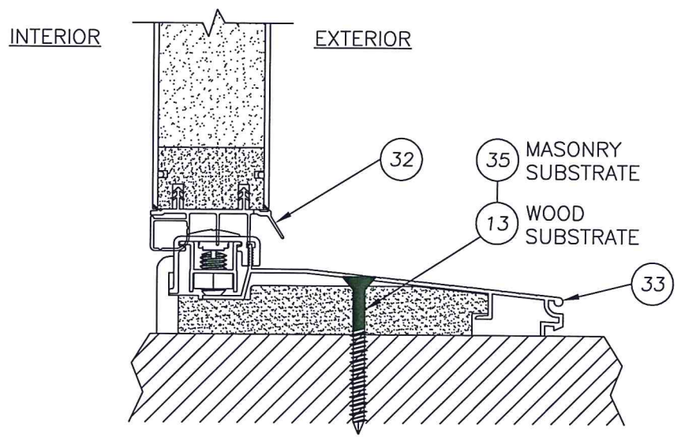


1/6 VERTICAL CROSS SECTION
OUTSWING SHOWN (INSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)



2/6 VERTICAL CROSS SECTION
OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)



3/6 VERTICAL CROSS SECTION
INSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.22.15

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

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR W/ SIDELITE IN/OUTSWING "IMPACT"
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 6 OF 9

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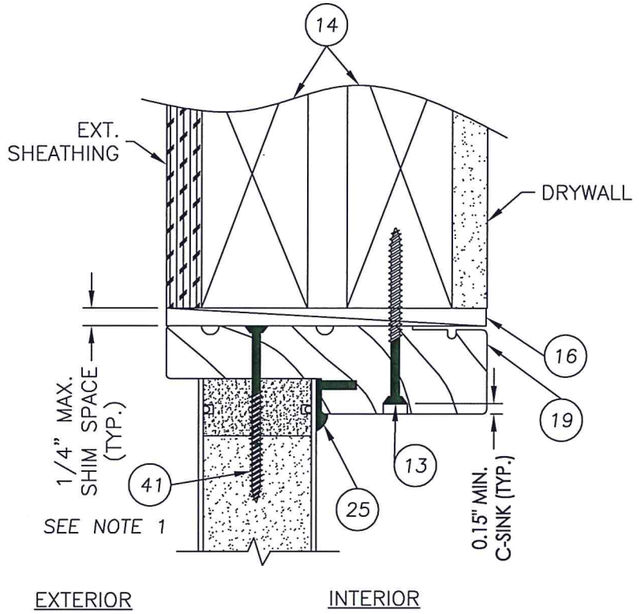
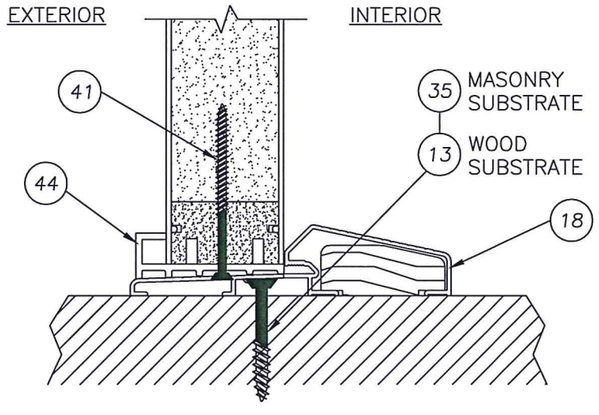
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 330 - 68 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SLVC - Drawings\Current\TX-4190-94.dwg, 1.6

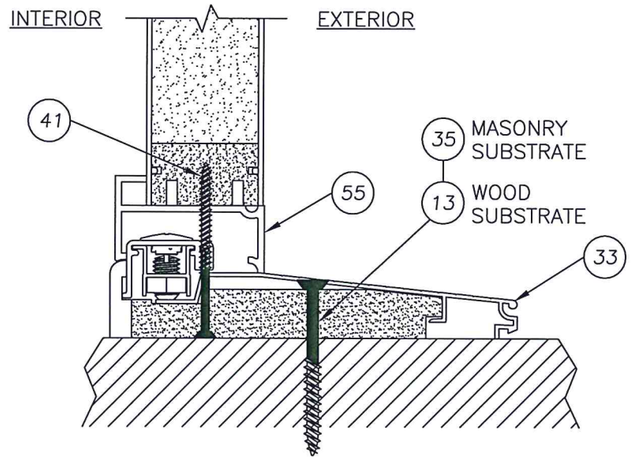


1/7 VERTICAL CROSS SECTION
OUTSWING SHOWN (INSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)

NOTE:
1. SIDELITE ASSEMBLY FASTENERS LOCATED 6" FROM ENDS PLUS 1 AT CENTERLINE (3 TOTAL).



2/7 VERTICAL CROSS SECTION
OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)



3/7 VERTICAL CROSS SECTION
INSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)

STATE OF TEXAS
LYNDON F. SCHMIDT
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7-22-15

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PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR W/ SIDELITE IN/OUTSWING "IMPACT"
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 7 OF 9

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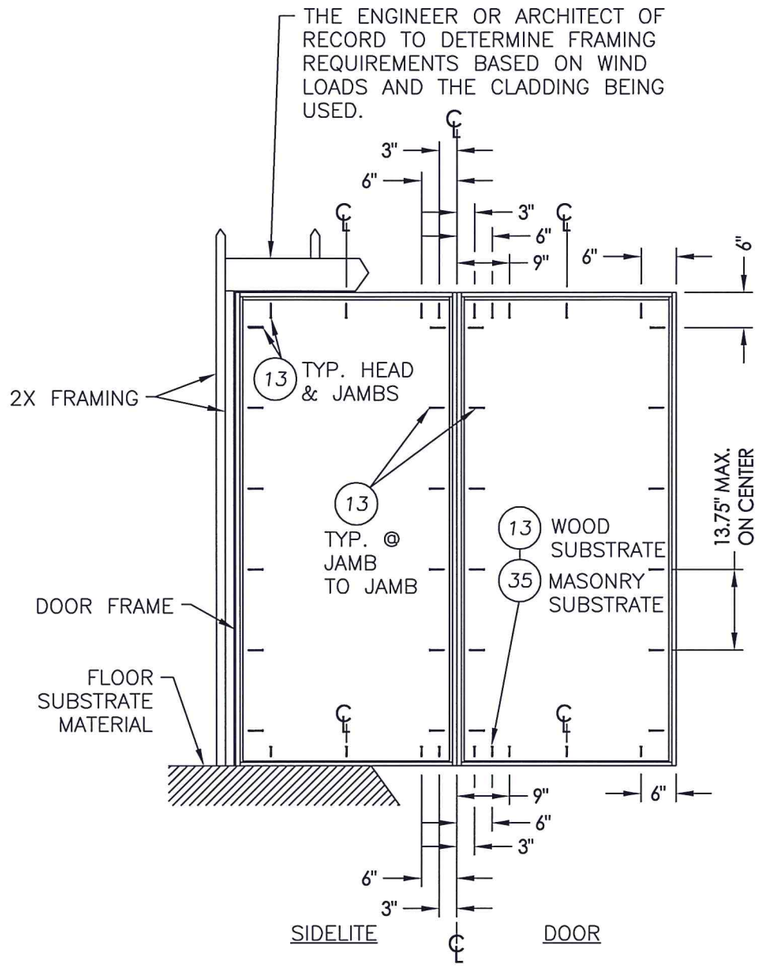
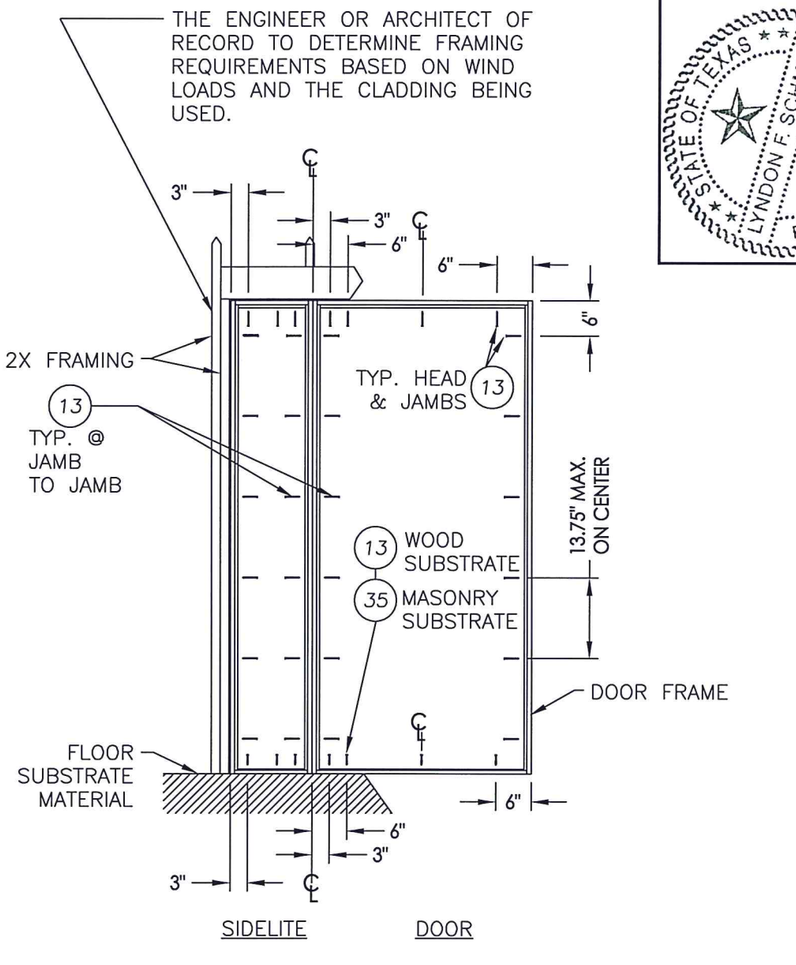
C:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 330 - 68 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SLVC - Drawings\Current\TX-4190-94.dwg, 1.7



FRAME ANCHORING
FOR UP TO 36" SIDELITE

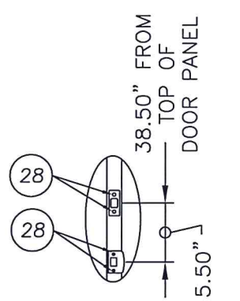


FRAME ANCHORING
FOR UP TO 14" SIDELITE

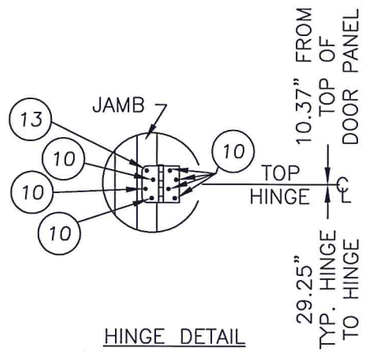
CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *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.*
3. *Concrete anchor table:*

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



LATCH & DEADBOLT
STRIKE PLATE DETAIL



HINGE DETAIL
(3) HINGES TOTAL

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7-22-15

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

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P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

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

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR W/ SIDELITE IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4191
SHEET 8 OF 9

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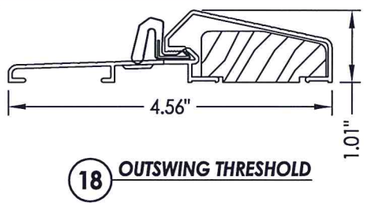
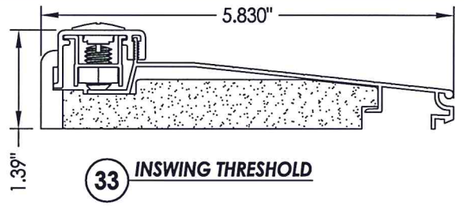
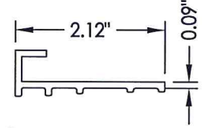
Item	DESCRIPTION	Material
1	DOOR SKIN; SMOOTH STAR SERIES (.065" MIN.)	FIBERGLASS
1A	DOOR SKIN; CLASSIC CRAFT SERIES & RUSTIC (.090" MIN.)	FIBERGLASS
1B	DOOR SKIN; FIBER CLASSIC SERIES (.065" MIN.)	FIBERGLASS
2	TOP RAIL DOOR THERMA-TRU (SMOOTH STAR)	COMP.
3	LATCH STILE DOOR THERMA-TRU (SMOOTH STAR)	LVL
4	HINGE STILE DOOR THERMA-TRU (SMOOTH STAR)	WOOD
5	BOTTOM RAIL DOOR THERMA-TRU (SMOOTH STAR)	COMP.
6	POLYURETHANE FOAM	FOAM
7	MEDIUM REACH COMPRESSION WEATHER-STRIP (THERMA-TRU)	FOAM
8	LONG REACH COMPRESSION WEATHER-STRIP (THERMA-TRU)	FOAM
9	4" x 4" HINGE .097" THK. (THERMA-TRU)	STEEL
10	#10 x 3/4" PFH WOOD SCREW (Hinge to Frame)	STEEL
11	#10 x 1-1/2" PPH SHEET METAL SCREW	STEEL
12	#10 x 2" PFH WOOD SCREW	STEEL
13	#10 x 2-1/2" PFH WOOD SCREW	STEEL
14	2X FRAMING (G >= 0.42)	WOOD
16	MAX. 1/4" SHIM MATERIAL	WOOD
17	LOCK - KWIKSET 200 SERIES	STEEL
18	THRESHOLD OUTSWING (THERMA-TRU)	ALUM./WOOD
19	HEADER JAMB (4.656" x 1.25" THERMA-TRU, PINE)	WOOD
20	SIDE JAMB (4.656" x 1.25" THERMA-TRU) (FJ PINE)	WOOD
21	DEADBOLT - KWIKSET 600 SERIES	STEEL
22	INTERIOR LITE FRAME	ALUM.
23	EXTERIOR LITE FRAME	ALUM.
24	LOCK BLOCK (SMOOTH STAR)	WOOD
25	SILICONE CAULK	SILICONE
26	CELLULAR GLAZING TAPE	FOAM
27	LATCH STRIKE	STEEL
28	#8 x 2-1/2" PFH WOOD SCREW	STEEL
29	#8 x 3" PFH SCREW	STEEL
30	1" THK. INSUL. LAMINATED GLASS (PVB INTERLAYER BY SOLUTIA) 1/8" TEMP.-AIR- 5/32" ANN./.090" PVB INTERLAYER/1/8" ANN.	GLASS
31	NOT USED	-
32	DOOR BOTTOM SWEEP (INSWING)	PVC
33	INSWING THRESHOLD	ALUM./COMP.
35	1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
39	LITE FRAME TRIM	PVC
40	#9 x 3" PFH WOOD SCREW	STEEL
41	#9 x 2-1/2" PFH SCREW	STEEL
42	SIDELITE TOP RAIL (SMOOTH STAR)	COMP.
43	SIDELITE BOTTOM RAIL (SMOOTH STAR)	COMP.
44	OUTSWING SIDELITE SPACER	PVC
45	SIDELITE STILE (SMOOTH STAR)	WOOD
46	TOP RAIL (CLASSIC CRAFT & RUSTIC)	COMP.
47	BOTTOM RAIL (CLASSIC CRAFT & RUSTIC)	COMP.
48	LATCH SIDE STILE (CLASSIC CRAFT & RUSTIC)	LSL / OAK
49	HINGE SIDE STILE (CLASSIC CRAFT & RUSTIC)	LSL / OAK
50	TOP RAIL (FIBER CLASSIC)	COMP.
51	BOTTOM RAIL (FIBER CLASSIC)	COMP.
52	HINGE SIDE STILE (FIBER CLASSIC)	WOOD
53	LOCK BLOCK (FIBER CLASSIC)	WOOD
54	LATCH SIDE STILE (FIBER CLASSIC)	LVL / OAK
55	SIDELITE SPACER INSWING	PVC
56	SIDELITE TOP & BOTTOM RAIL (CLASSIC CRAFT, RUSTIC & FIBER CLASSIC)	COMP.
57	SIDELITE BOTTOM RAIL (CLASSIC CRAFT, RUSTIC & FIBER CLASSIC)	COMP.
58	SIDELITE STILE (CLASSIC CRAFT, RUSTIC & FIBER CLASSIC)	WOOD
60	2X MULLION (G >= 0.42)	WOOD



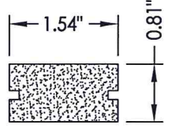
18 OUTSWING THRESHOLD



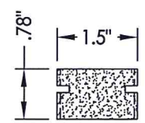
33 INSWING THRESHOLD



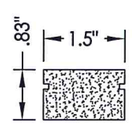
44 SIDELITE SPACER
Outswing



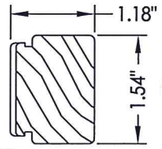
42 SIDELITE TOP RAIL
(Smooth Star)



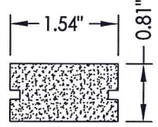
42 TOP RAIL
(Classic craft & Rustic)



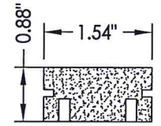
50 TOP RAIL
(Fiber Classic)



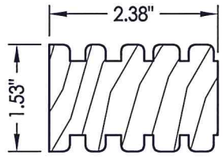
4 HINGE STILE
(Smooth Star)



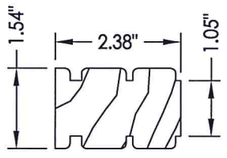
2 DOOR TOP RAIL
(Smooth Star)



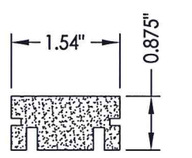
5 DOOR BOTTOM RAIL
(Smooth Star)



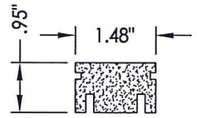
24 LOCK BLOCK
(Smooth Star)



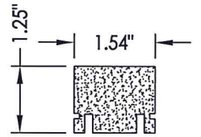
53 LOCK BLOCK
(Fiber Classic)



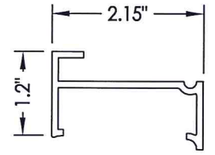
43 SIDELITE BOTTOM RAIL
(Smooth Star)



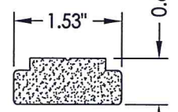
47 BOTTOM RAIL
(Classic craft & Rustic)



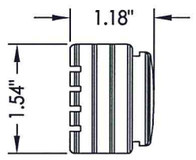
51 BOTTOM RAIL
(Fiber Classic)



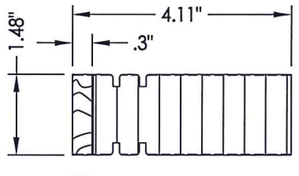
55 SIDELITE SPACER
Inswing



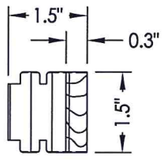
56 SIDELITE TOP & BOTTOM RAIL
(Fiber Classic)
56 TOP RAIL
(Classic Craft & Rustic)



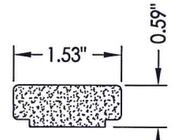
3 LATCH STILE
(Smooth Star)



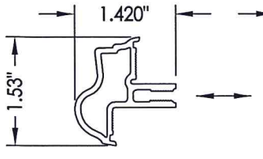
48 LATCH SIDE STILE
(Classic Craft & Rustic)



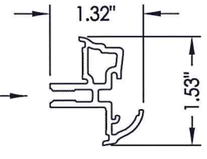
49 HINGE SIDE STILE
(Classic Craft & Rustic)



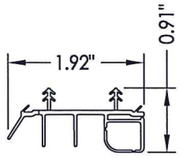
57 SIDELITE BOTTOM RAIL
(Classic Craft, Rustic)



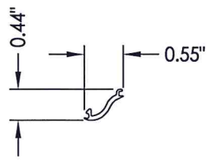
23 EXT. LITE FRAME



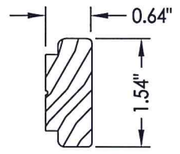
22 INT. LITE FRAME



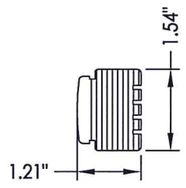
32 SWEEP



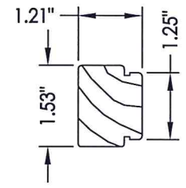
39 LITE FRAME TRIM



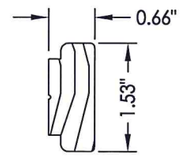
45 SIDELITE STILE
(Smooth Star)



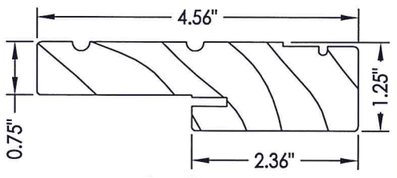
54 LATCH SIDE STILE
(Fiber Classic)



52 HINGE SIDE STILE
(Fiber Classic)



58 SIDELITE STILE
(Classic Craft, Rustic & Fiber Classic)



19 20 HEAD & SIDE
Jamb

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

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

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR W/ SIDELITE IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS	BY
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
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SHEET 9 OF 9

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