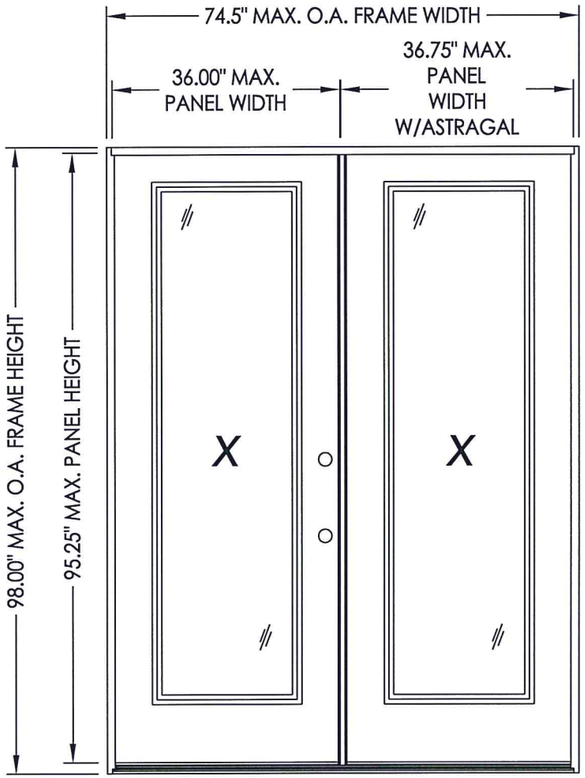
THERMA-TRU®

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

"SMOOTH STAR", "FIBER CLASSIC", "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC" GLAZED FIBERGLASS DOUBLE DOOR 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	74.5" X 98.00"	21.00" X 78.75"	+50.0	−50.0
OUTSWING	74.5" X 96.75"	21.00" X 78.75"	+50.0	−50.0

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

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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 DOUBLE DOOR IN/OUTSWING "IMPACT"
PART OR ASSEMBLY: TYPICAL ELEVATION, 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-4198
SHEET 1 OF 9

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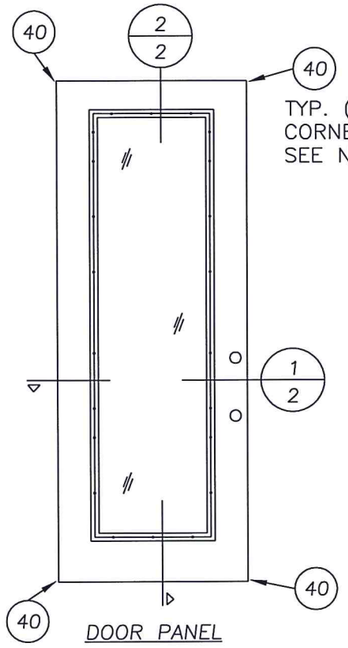
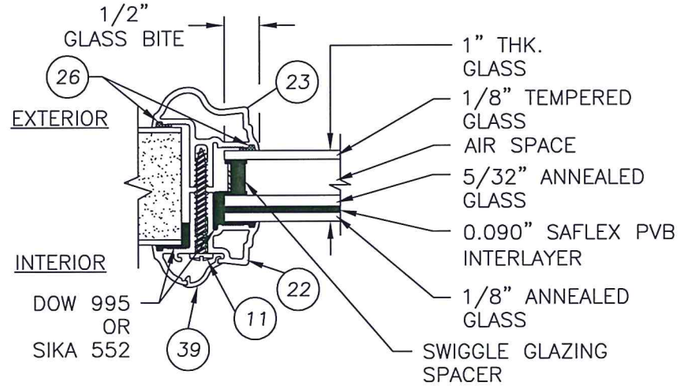
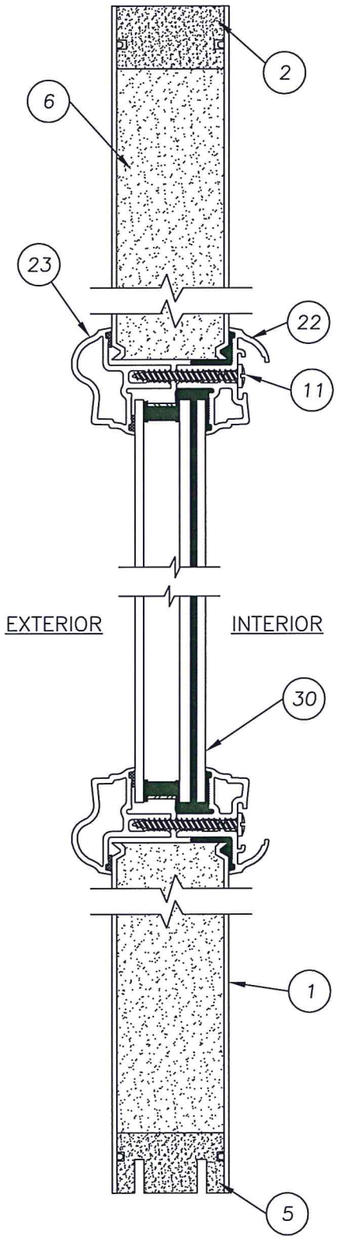


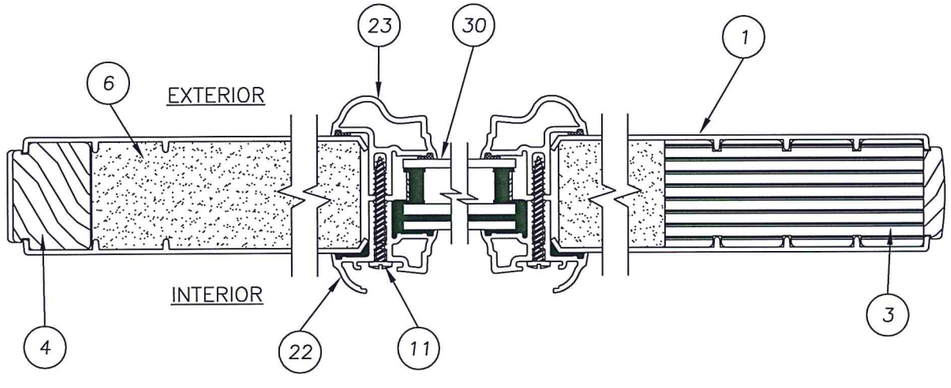
DOOR PANEL



GLAZING DETAIL



2/2 VERTICAL CROSS SECTION
DOOR PANEL



1/2 HORIZONTAL CROSS SECTION
DOOR PANEL

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOUBLE DOOR IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: "SMOOTH STAR" DOOR 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
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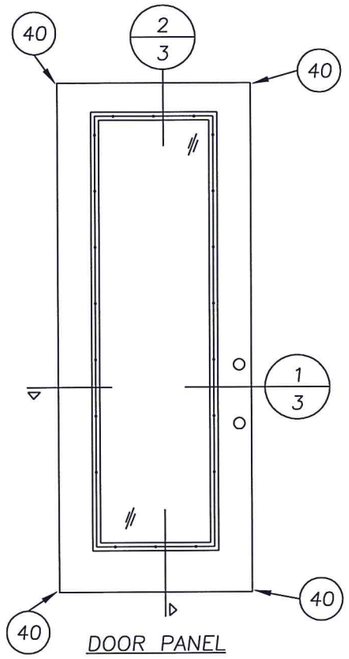
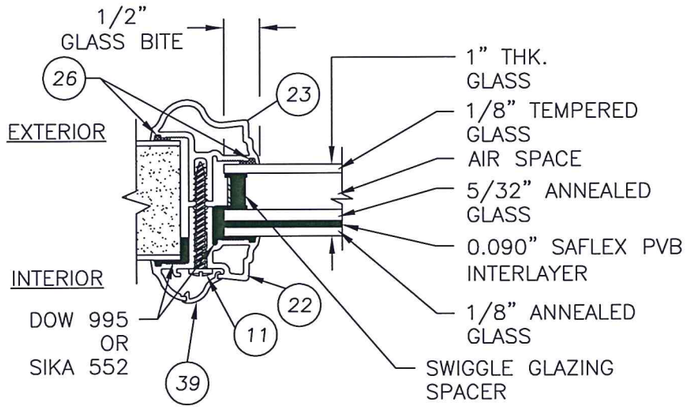


DOOR PANEL



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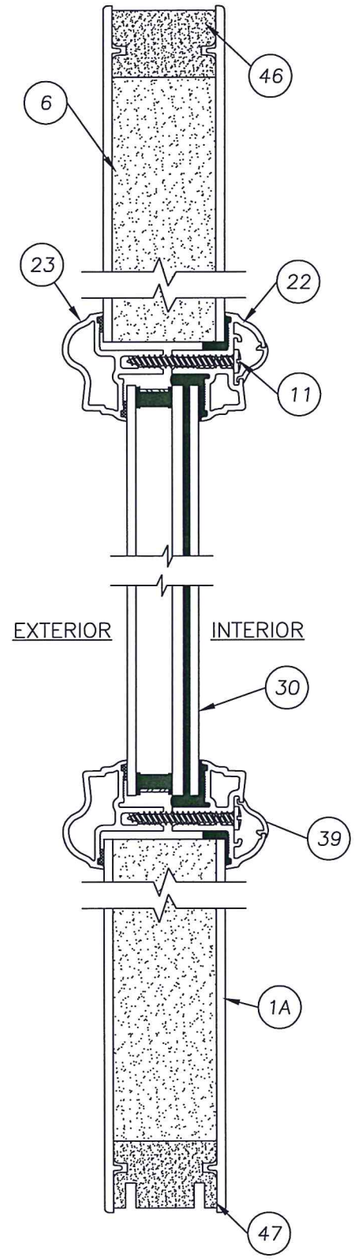

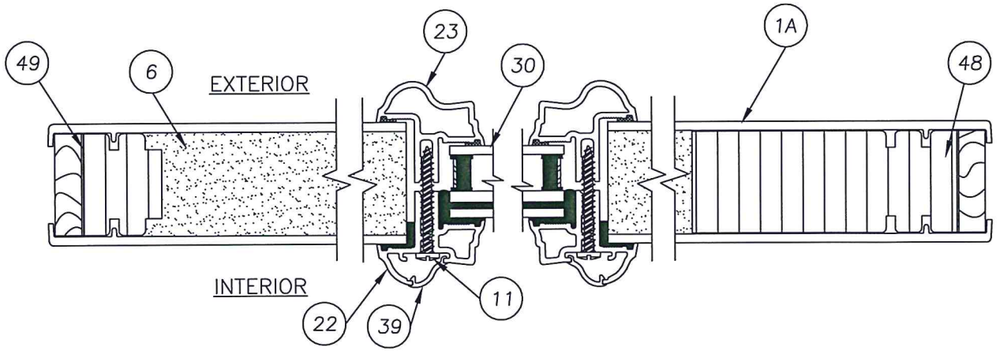

1/3 HORIZONTAL CROSS SECTION
DOOR PANEL

2/3 VERTICAL CROSS SECTION
DOOR PANEL

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PRODUCT: THERMA-TRU FIBERGLASS DOUBLE DOOR IN/OUTSWING "IMPACT"

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

GLAZING DETAIL

1/4 HORIZONTAL CROSS SECTION DOOR PANEL

2/4 VERTICAL CROSS SECTION DOOR PANEL

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7.22.15

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

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

PART OR ASSEMBLY: "FIBER CLASSIC" DOOR PANEL DETAILS

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

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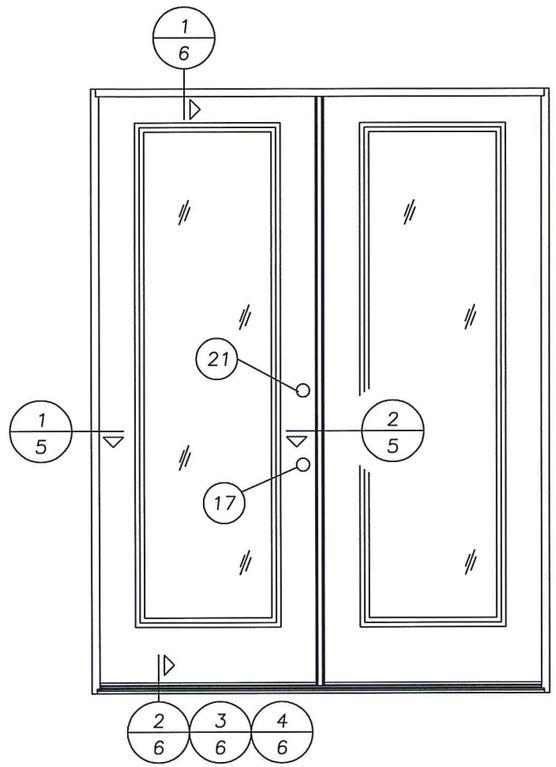
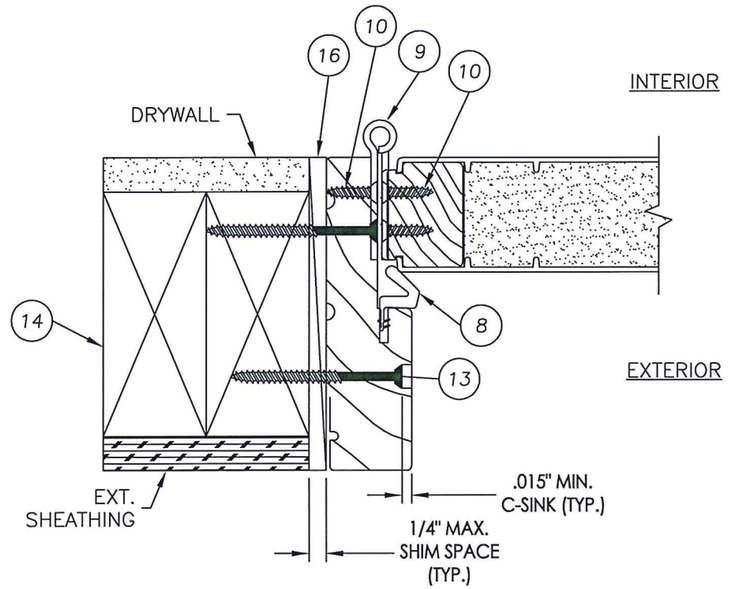
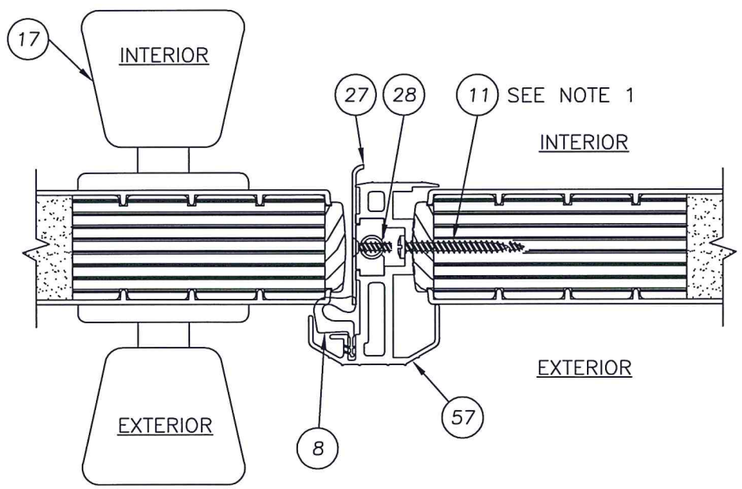




1/5 HORIZONTAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("Smooth Star Series" shown)



2/5 HORIZONTAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("Smooth Star Series" shown)

NOTE:
1. ASTRAGAL RETAINING SCREWS LOCATED @ 3/4", 2", 3–1/4", 4–1/2", 18–7/8", 37–1/4, 57–7/8", 76–3/8", 90–3/4", 92", 93" & 94–1/2" FROM TOP OF ASTRAGAL (12 TOTAL).

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PRODUCT: THERMA–TRU GLAZED FIBERGLASS DOUBLE DOOR IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

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

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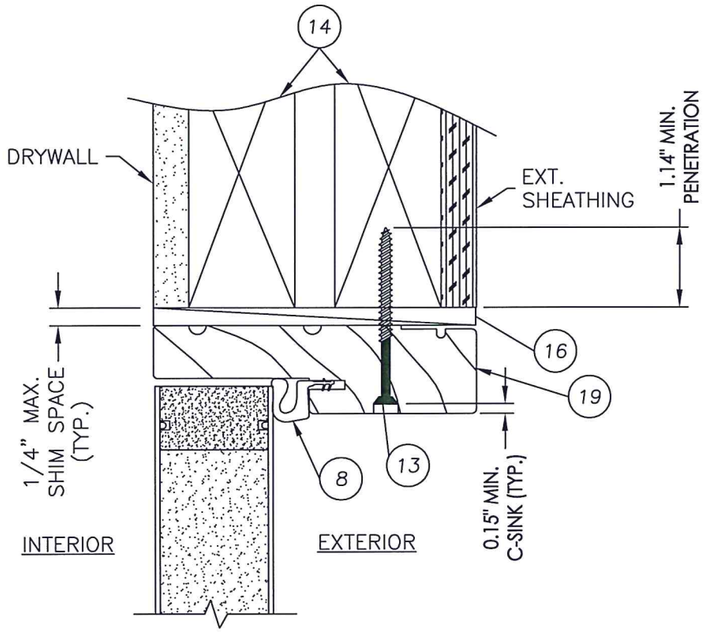
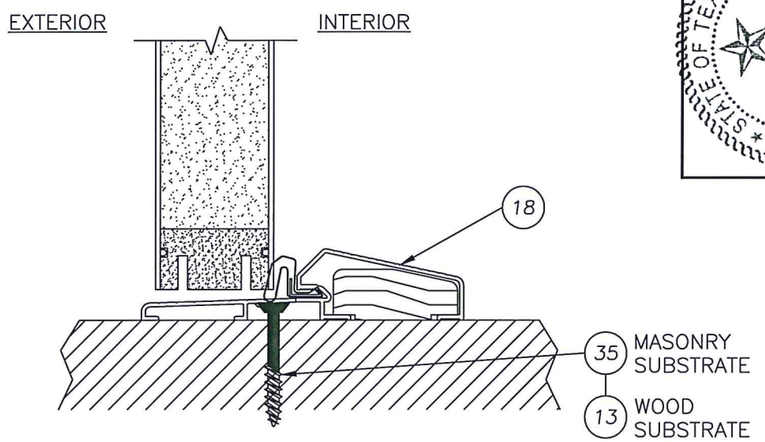


1/6 VERTICAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)



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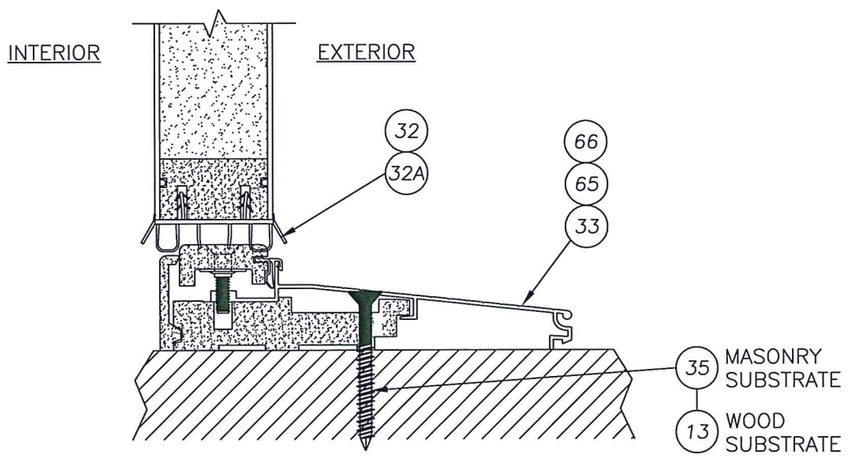
OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)



2/6 VERTICAL CROSS SECTION
INSWING CONFIGURATION
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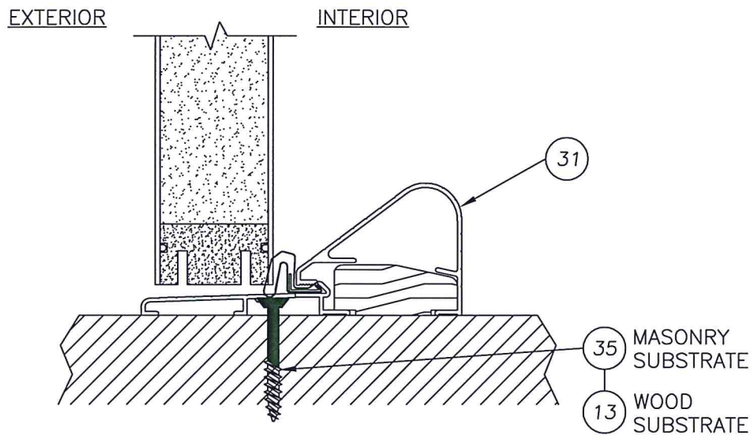

4/6 VERTICAL CROSS SECTION
OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)

STATE OF TEXAS
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7.22.15

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOUBLE DOOR 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-4198
SHEET 6 OF 9

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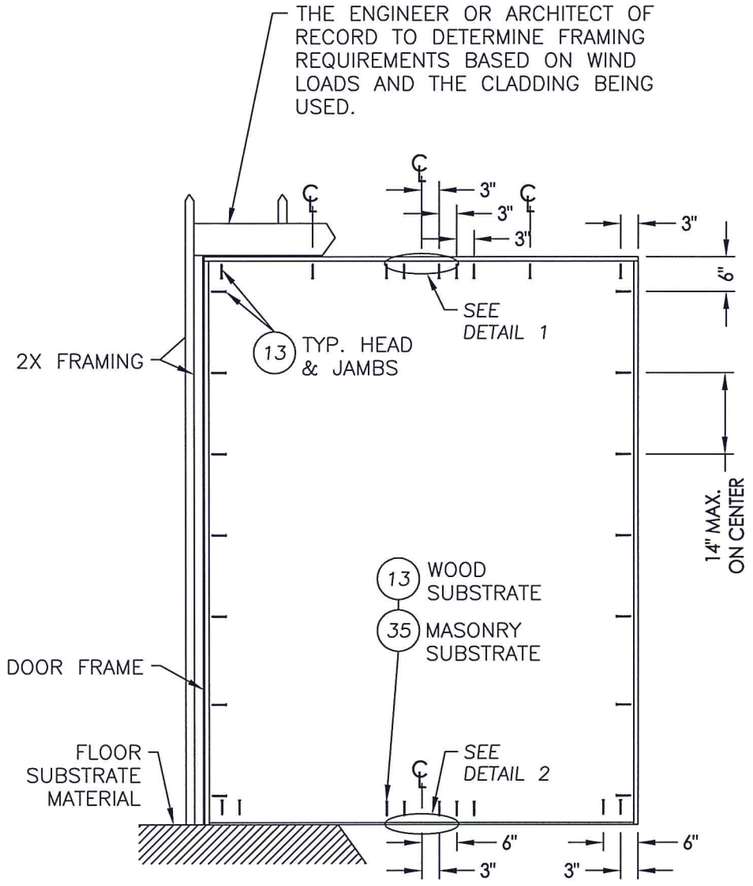
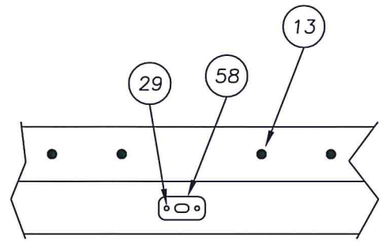
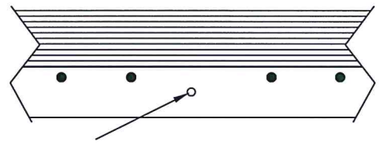


FRAME ANCHORING

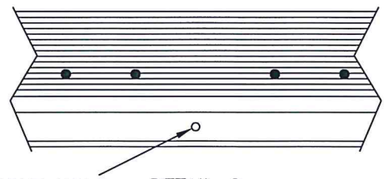


DETAIL 1



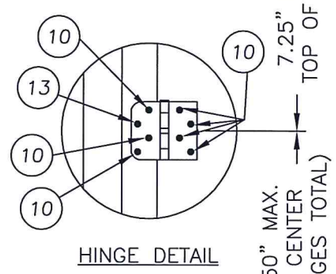
ASTAGAL BOLT HOLE (3" THROW)

DETAIL 2 OUTSWING

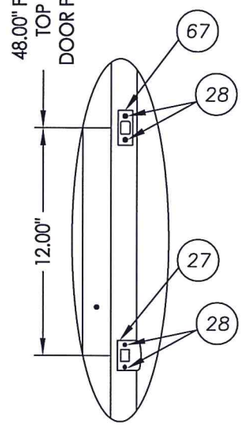


ASTAGAL BOLT HOLE (3" THROW)

DETAIL 2 INSWING



HINGE DETAIL



LATCH & DEADBOLT DETAIL

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"

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 DOUBLE DOOR 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-4198
SHEET 7 OF 9

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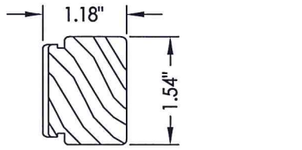
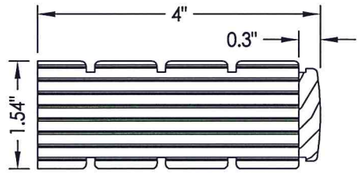
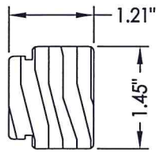


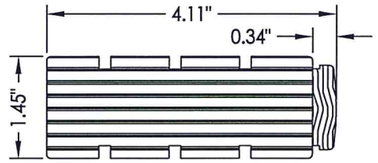
4 HINGE STILE (SMOOTH STAR)



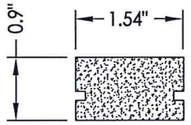
3 LATCH STILE (SMOOTH STAR)



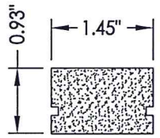
52 HINGE STILE (FIBER CLASSIC)



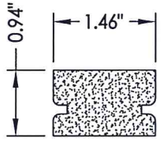
54 LOCK STILE (FIBER CLASSIC)



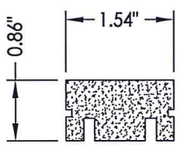
2 DOOR TOP RAIL (SMOOTH STAR)



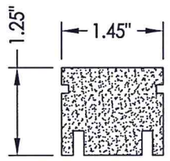
50 DOOR TOP RAIL (FIBER CLASSIC)



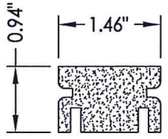
46 DOOR TOP RAIL (CLASSIC CRAFT) (& RUSTIC)



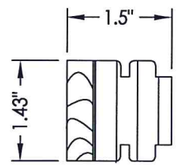
5 BOTTOM RAIL DOOR (SMOOTH STAR)



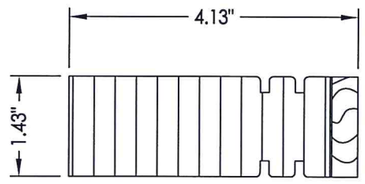
51 DOOR BOTTOM RAIL (FIBER CLASSIC)



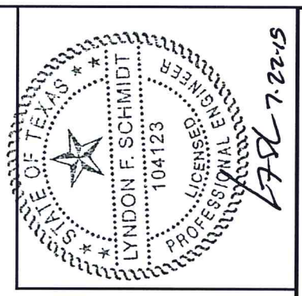
47 DOOR BOTTOM RAIL (CLASSIC CRAFT) (& RUSTIC)



49 HINGE STILE (CLASSIC CRAFT) (& RUSTIC)



48 LATCH STILE (CLASSIC CRAFT) (& RUSTIC)



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 DOUBLE DOOR IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: COMPONENTS

REVISIONS

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

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4198
SHEET 8 OF 9

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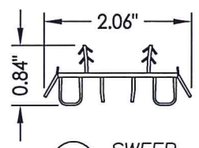
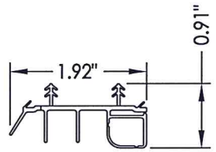
\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 599 - 80 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SL\C - Drawings\Current\TX-4195-99.dwg, 8.8

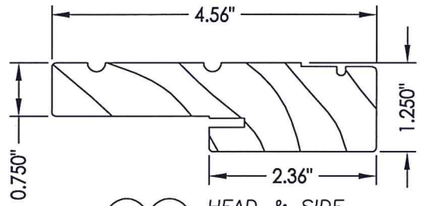
Item	DESCRIPTION	Material
1	DOOR SKIN; SMOOTH STAR SERIES (.075" MIN.)	FIBERGLASS
1A	DOOR SKIN; CLASSIC CRAFT & RUSTIC SERIES (0.090" MIN.)	FIBERGLASS
1B	DOOR SKIN; FIBER CLASSIC SERIES (.065" MIN.)	FIBERGLASS
2	TOP RAIL DOOR THERMA-TRU (SMOOTH STAR)	COMP.
3	LATCH STILE DOOR THERMA-TRU (SMOOTH STAR)	LVL
4	HINGE STILE / DOOR, STILE / SIDELITE THERMA-TRU (SMOOTH STAR)	WOOD
5	BOTTOM RAIL DOOR THERMA-TRU (SMOOTH STAR)	COMP.
6	POLYURETHANE FOAM (1.9lbs. DENSITY)	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 780 SERIES	STEEL
22	INTERIOR LITE FRAME	ALUM.
23	EXTERIOR LITE FRAME	ALUM.
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 (SAFLEX PVB INTERLAYER) 1/8" TEMP.- AIR - 5/32" ANN. / 0.090" SAFLEX PVB / 1/8" ANN.	GLASS
31	OUTSWING THRESHOLD COASTAL	ALUM./WOOD
32	DOOR BOTTOM SWEEP (INSWING)	PVC
32A	DOOR BOTTOM SWEEP (INSWING)	PVC
33	INSWING THRESHOLD HPA	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
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
54	LATCH SIDE STILE (FIBER CLASSIC)	LVL / OAK
57	ASTRAGAL (6063-T5) COASTAL	ALUM.
58	ASTRAGAL STRIKE PLATE	STEEL
65	INSWING THRESHOLD SELF ADJUSTING	ALUM./COMP.
66	INSWING THRESHOLD IMPERIAL	ALUM./COMP.
67	DEAD BOLT STRIKE PLATE	STEEL



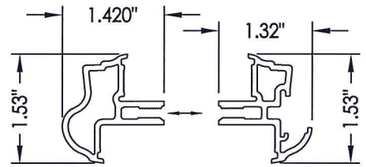
32A SWEEP



32 SWEEP

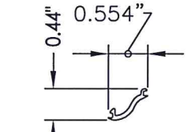


19 20 HEAD & SIDE JAMB

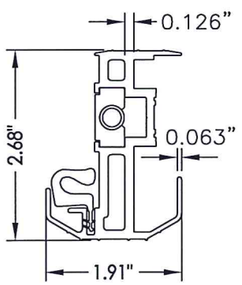


23 EXT. LITE FRAME

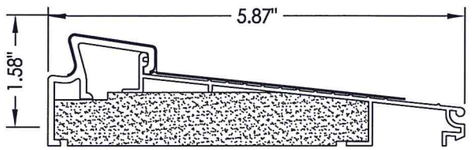
22 INT. LITE FRAME



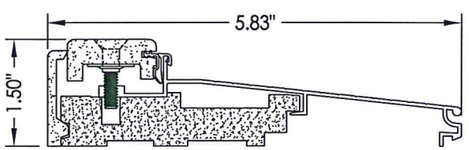
39 LITE FRAME TRIM



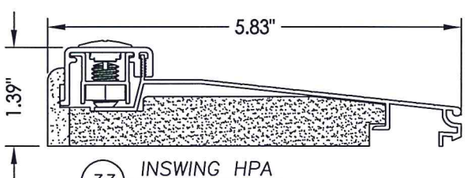
57 ASTRAGAL COASTAL



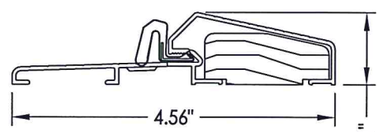
65 INSWING SELF ADJUST THRESHOLD



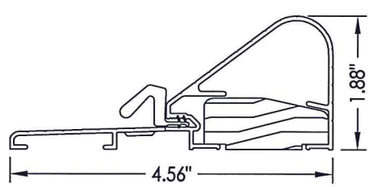
66 INSWING IMPERIAL THRESHOLD



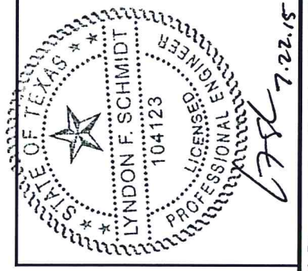
33 INSWING HPA THRESHOLD



18 OUTSWING THRESHOLD



31 OUTSWING COASTAL THRESHOLD



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

PRODUCT: THERMA-TRU FIBERGLASS DOUBLE DOOR W/ SIDELITES IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: BILL OF MATERIAL & COMPONENTS

NO.	DATE	BY
1	7/22/15	LFS

REVISIONS

ADDED GENERAL NOTE 5.

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4198
SHEET 9 OF 9

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