THERMA-TRU®

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

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

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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5	HORIZONTAL CROSS SECTIONS
6	VERTICAL CROSS SECTIONS
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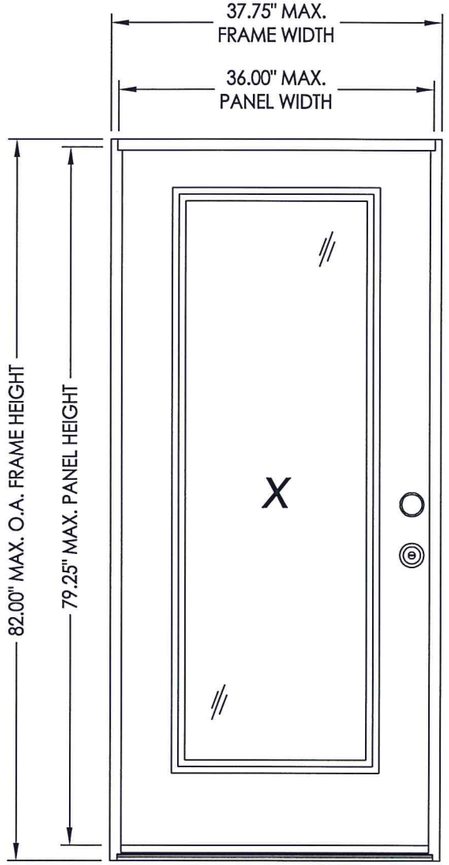
8	BILL OF MATERIALS & COMPONENTS



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

SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	37.75" X 82.00"	21.00" X 63.25"	+47.0	−53.0
OUTSWING	37.75" X 80.62"	21.00" X 63.25"	+50.0	−50.0

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

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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 IN/OUTSWING "IMPACT"

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

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-4190
SHEET 1 OF 8

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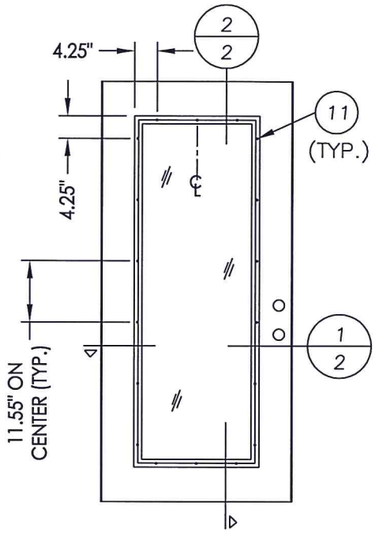
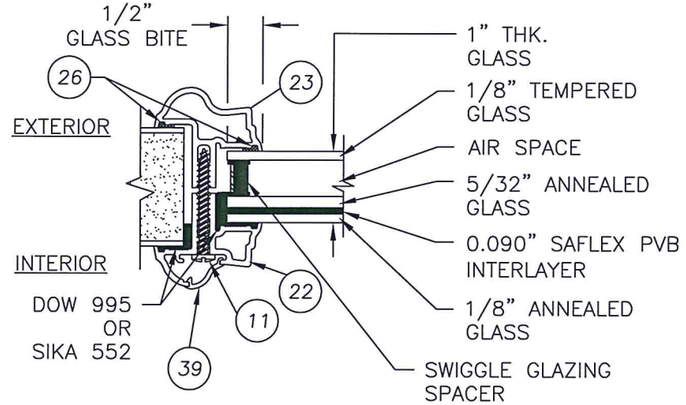
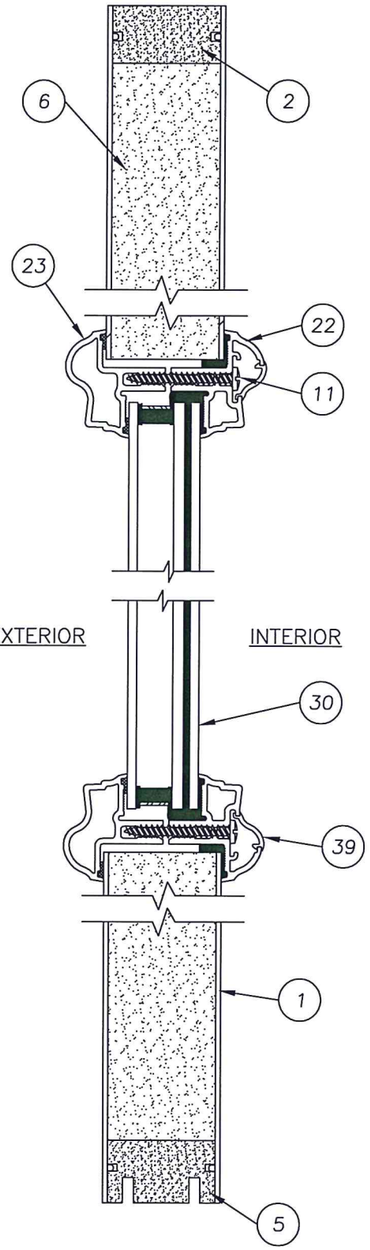


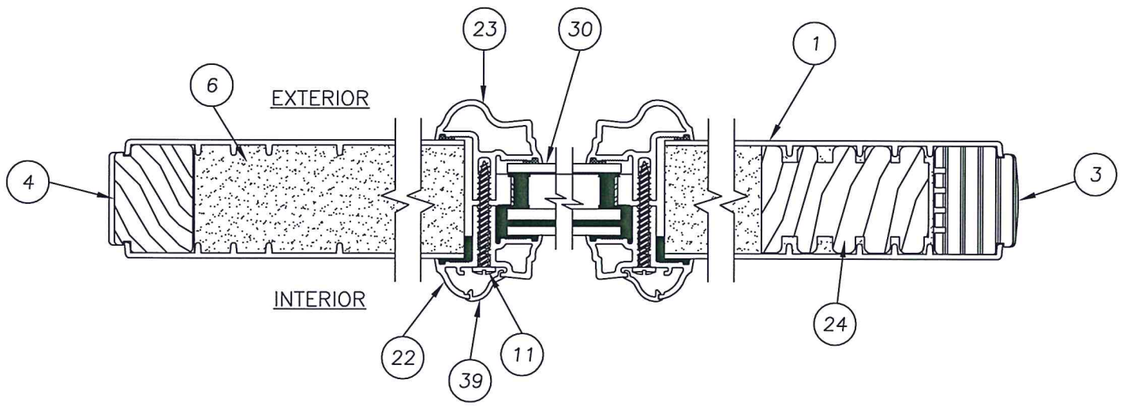
DOOR PANEL



GLAZING DETAIL



2/2 VERTICAL CROSS SECTION
DOOR PANEL



1/2 HORIZONTAL CROSS SECTION
DOOR PANEL

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

PRODUCT: THERMA-TRU
GLAZED FIBERGLASS 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
DRAWING NO.: TX-4190
SHEET 2 OF 8

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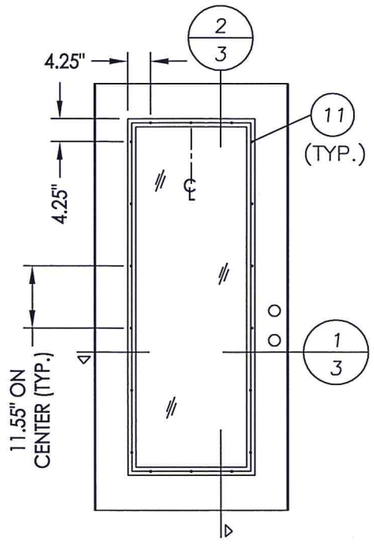
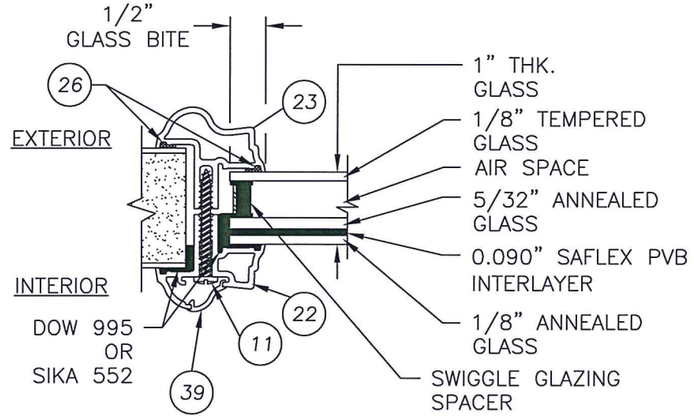


DOOR PANEL



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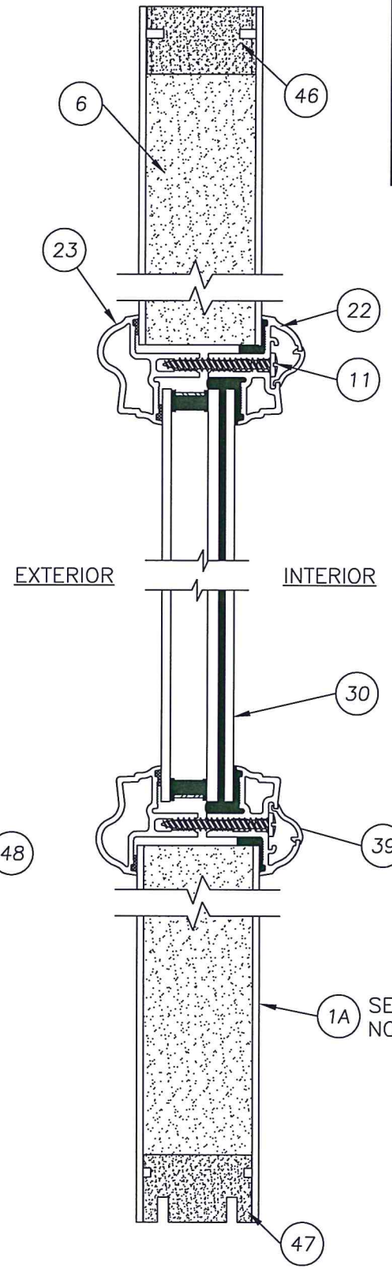
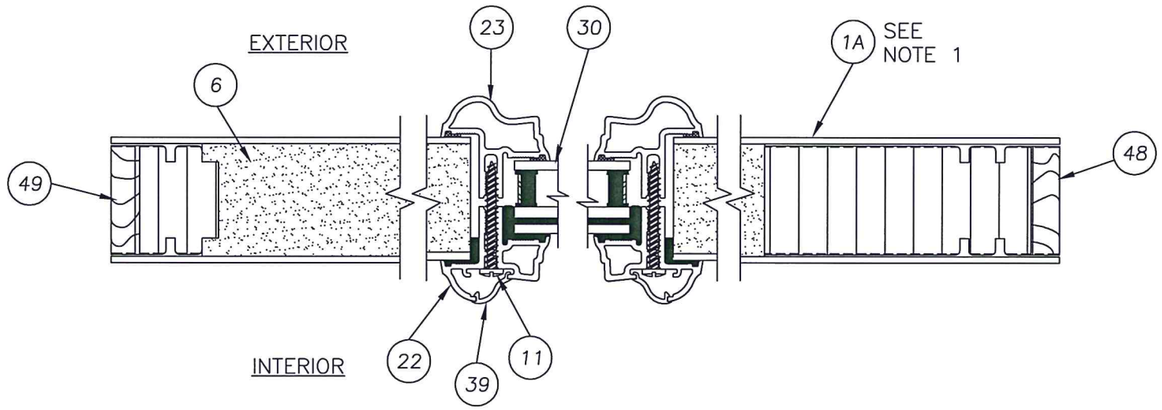


2 / 3 VERTICAL CROSS SECTION
DOOR PANEL



1 / 3 HORIZONTAL CROSS SECTION
DOOR PANEL

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

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

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

PART OR ASSEMBLY:
"CLASSIC CRAFT" & "C.C. 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
DRAWING NO.: TX-4190
SHEET 3 OF 8

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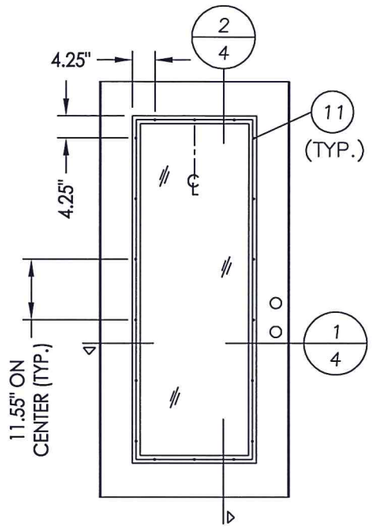

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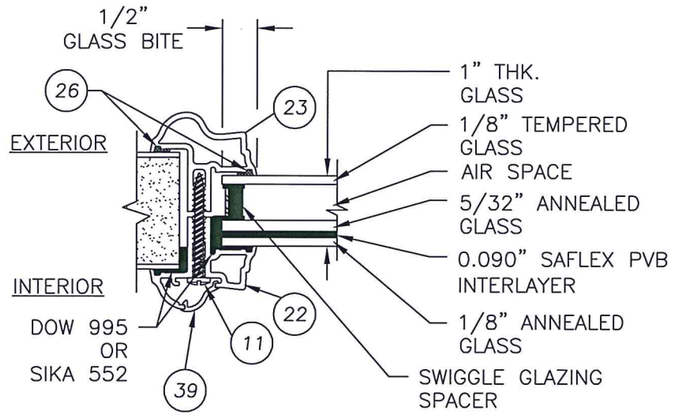
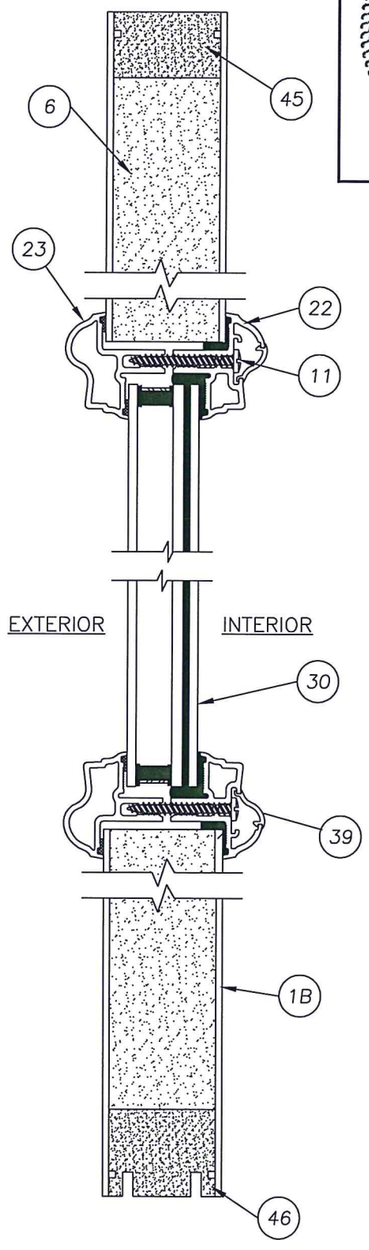
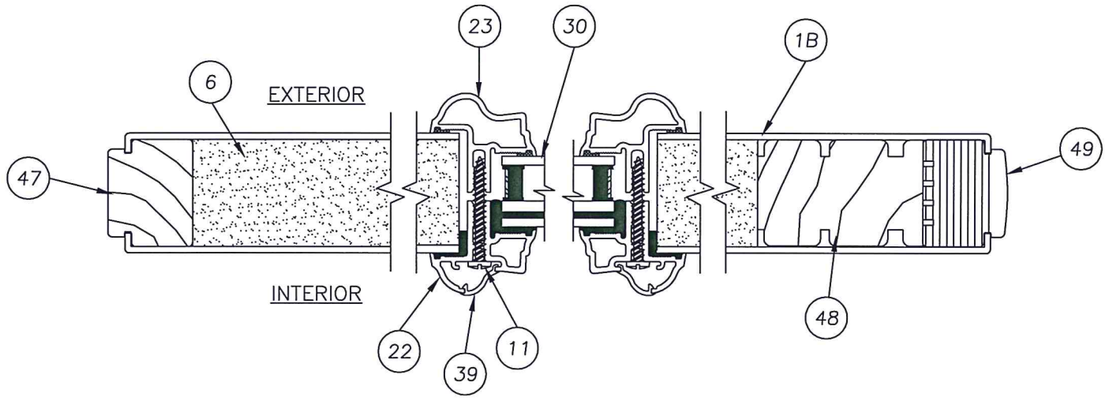


GLAZING DETAIL



2/4 VERTIAL CROSS SECTION
DOOR PANEL



1/4 HORIZONTAIL CROSS SECTION
DOOR PANEL

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CERTIFICATE OF REGISTRATION # F-11852

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

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

PART OF ASSEMBLY: "FIBER CLASSIC" 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
DRAWING NO.: TX-4190
SHEET 4 OF 8

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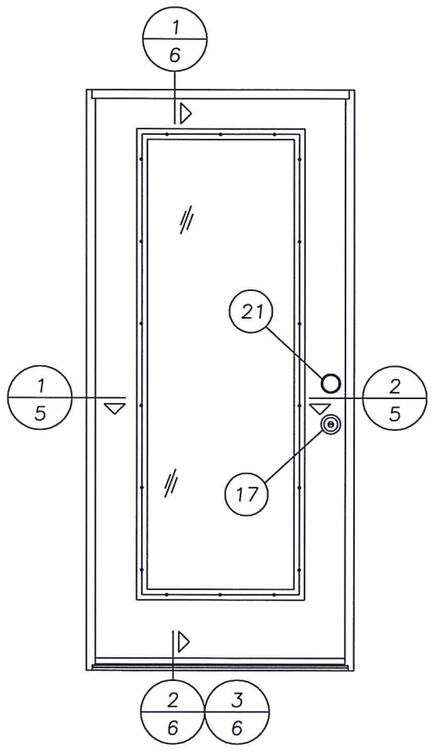
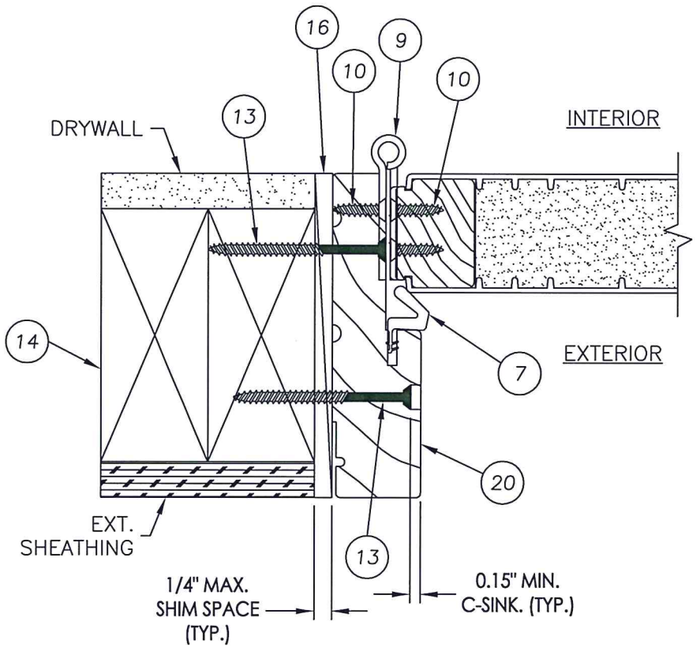
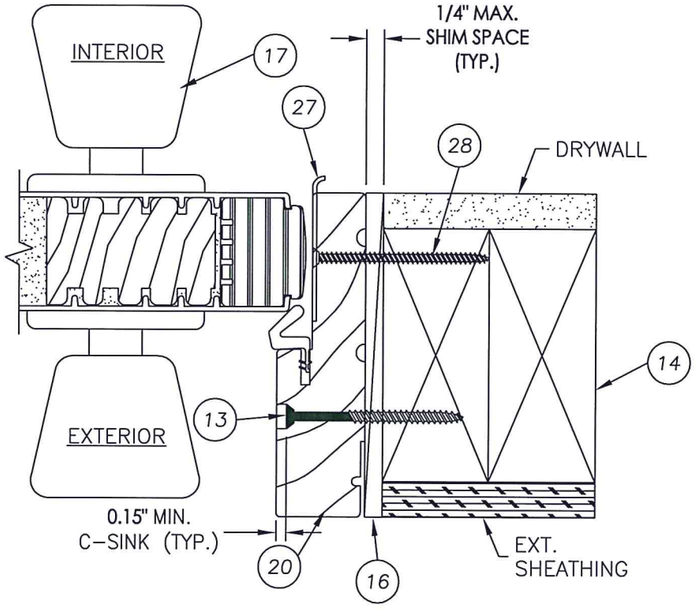




1/5 HORIZONTAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)



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

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7.22.15

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PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR 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.
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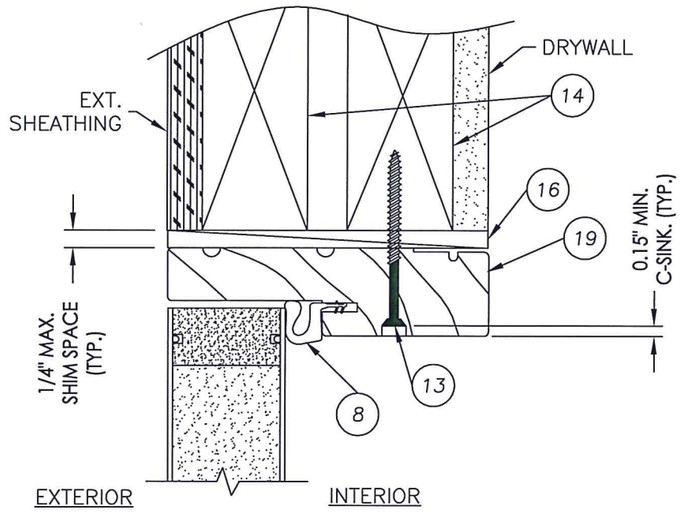

1/6 VERTICAL CROSS SECTION
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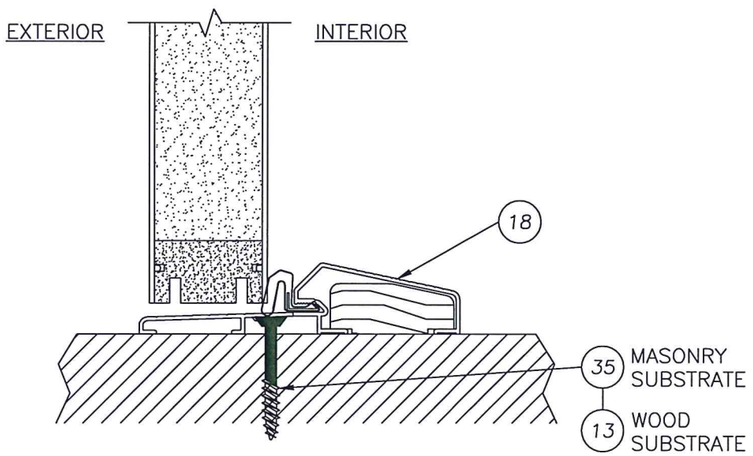
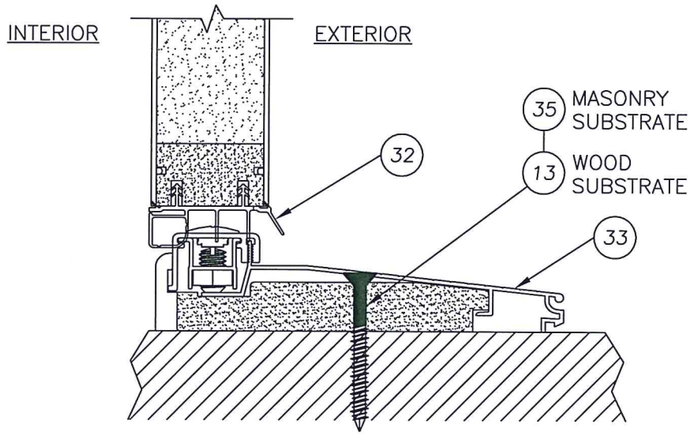


2/6 VERTICAL CROSS SECTION
OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)



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

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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 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.
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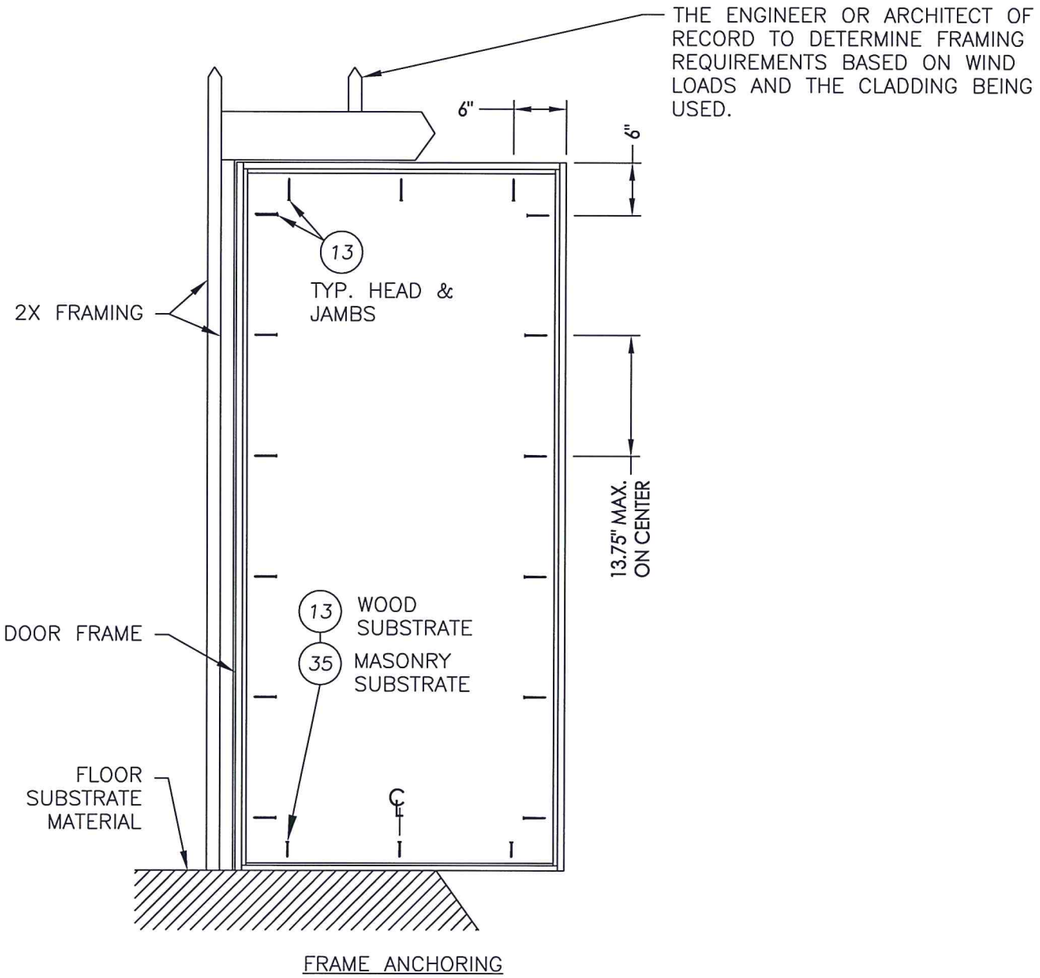
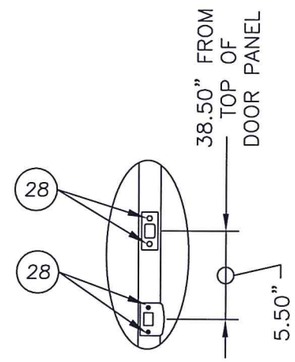


FRAME ANCHORING

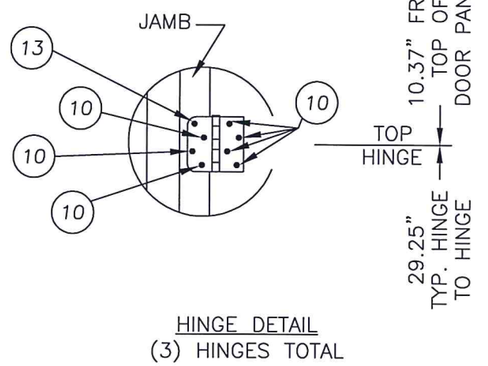
CONCRETE ANCHOR NOTES:

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

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7-22-15

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *THERMA-TRU GLAZED FIBERGLASS 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-4190
SHEET 7 OF 8

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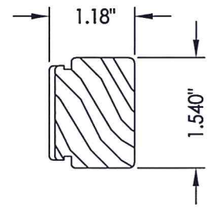
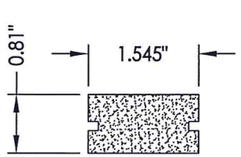
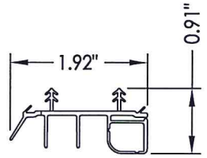
Item	DESCRIPTION	Material
1	DOOR SKIN; SMOOTH STAR SERIES (.065" MIN.)	FIBERGLASS
1A	DOOR SKIN; CLASSIC CRAFT & RUSTIC SERIES (.090" MIN.)	FIBERGLASS
1B	DOOR SKIN; FIBER CLASSIC SERIES (.065" MIN.)	FIBERGLASS
2	TOP RAIL DOOR THERMA-TRU (SMOOTH STAR)	COMP.
3	LATCH STILE DOOR THERMA-TRU (SMOOTH STAR)	LVL
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
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	WOOD
26	CELLULAR GLAZING TAPE	FOAM
27	LATCH STRIKE	STEEL
28	#8 x 2-1/2" PFH WOOD 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
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
41	TOP RAIL (CLASSIC CRAFT & RUSTIC)	COMP.
42	BOTTOM RAIL (CLASSIC CRAFT & RUSTIC)	COMP.
43	LATCH SIDE STILE (CLASSIC CRAFT & RUSTIC)	LSL / OAK
44	HINGE SIDE STILE (CLASSIC CRAFT & RUSTIC)	LSL / OAK
45	TOP RAIL (FIBER CLASSIC)	COMP.
46	BOTTOM RAIL (FIBER CLASSIC)	COMP.
47	HINGE SIDE STILE (FIBER CLASSIC)	WOOD
48	LOCK BLOCK (FIBER CLASSIC)	WOOD
49	LATCH SIDE STILE (FIBER CLASSIC)	LVL / OAK



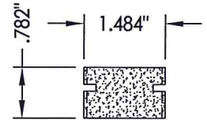
4 HINGE STILE (SMOOTH STAR)



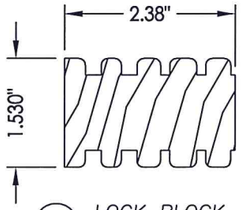
2 DOOR TOP RAIL (SMOOTH STAR)



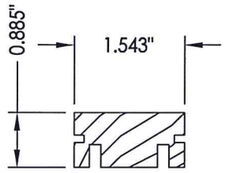
32 SWEEP



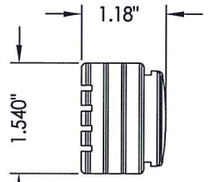
41 TOP RAIL (CLASSIC CRAFT) (& RUSTIC)



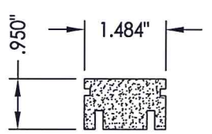
24 LOCK BLOCK (SMOOTH STAR)



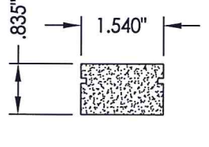
5 DOOR BTM. RAIL (SMOOTH STAR)



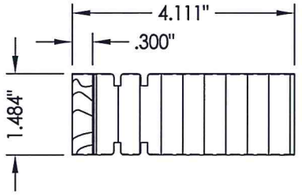
3 LATCH STILE (SMOOTH STAR)



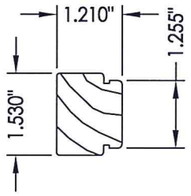
42 BOTTOM RAIL (CLASSIC CRAFT) (& RUSTIC)



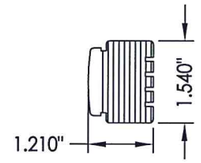
45 TOP RAIL (FIBER CLASSIC)



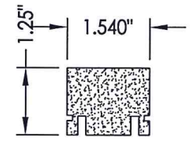
43 LATCH SIDE STILE (CLASSIC CRAFT) (& RUSTIC)



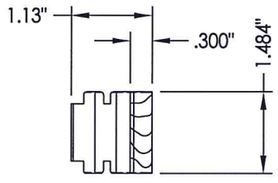
47 HINGE SIDE STILE (FIBER CLASSIC)



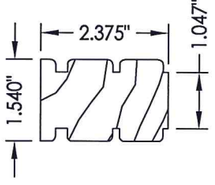
49 LATCH SIDE STILE (FIBER CLASSIC)



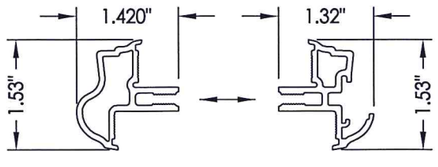
46 BOTTOM RAIL (FIBER CLASSIC)



44 HINGE SIDE STILE (CLASSIC CRAFT) (& RUSTIC)

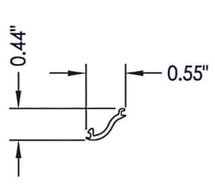


48 LOCK BLOCK (FIBER CLASSIC)

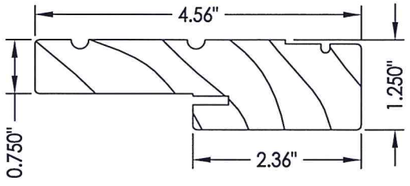


23 EXT. LITE FRAME

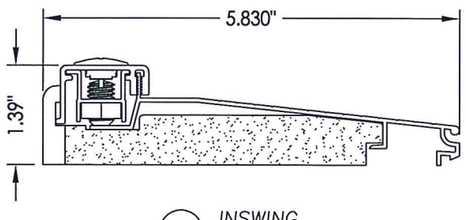
22 INT. LITE FRAME



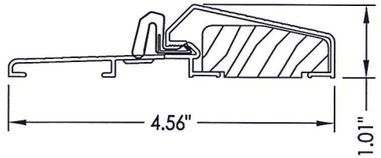
39 LITE FRAME TRIM



19 20 HEAD & SIDE JAMB



33 INSWING THRESHOLD



18 OUTSWING THRESHOLD

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

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: THERMA-TRU GLAZED FIBERGLASS DOOR 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
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4190
SHEET 8 OF 8

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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 SLC - Drawings\Current\TX-4190-94.dwg, 0.8