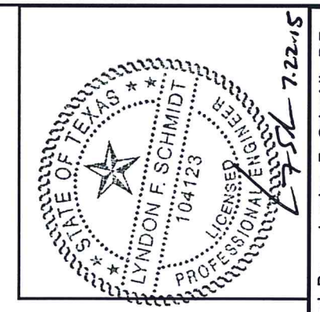
THERMA-TRU®

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

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



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

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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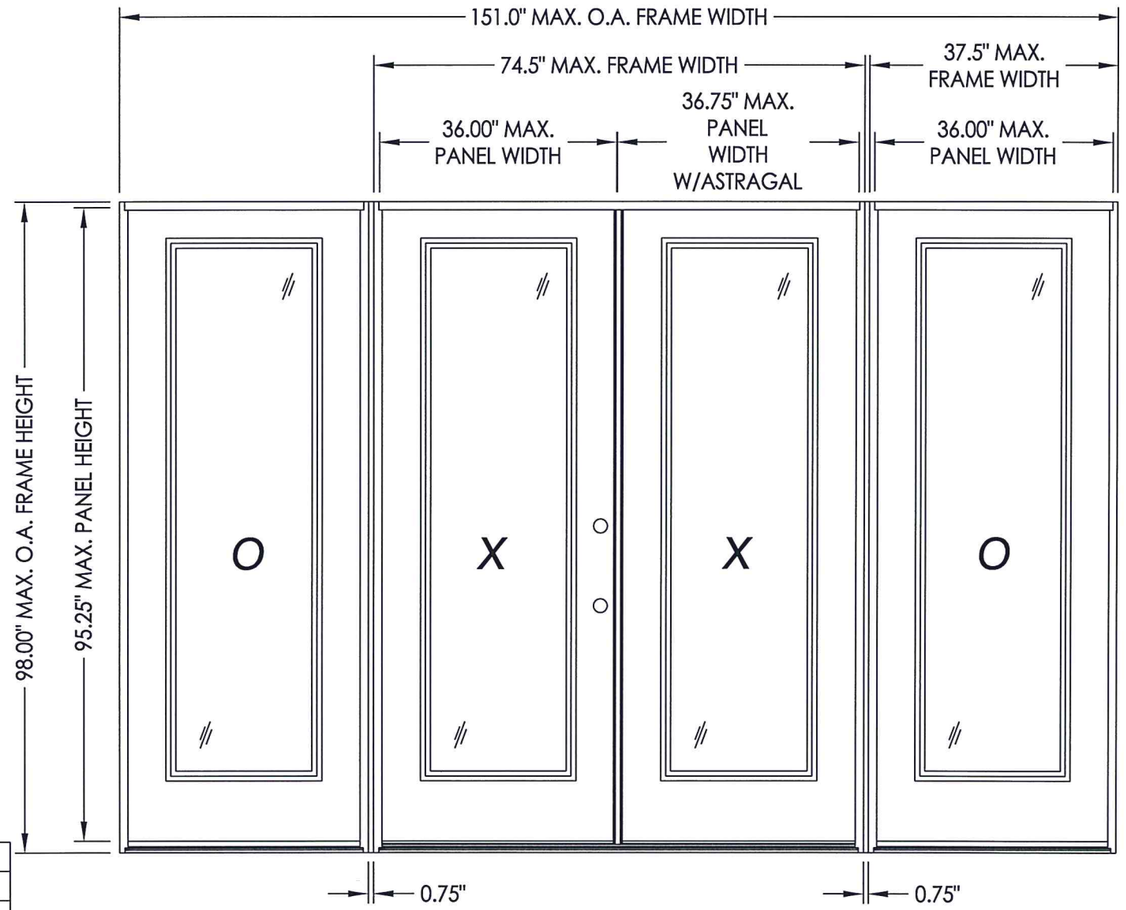
10	BILL OF MATERIALS & COMPONENTS



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

SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DOOR / SIDELITE DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	151.0" X 98.00"	21.00" X 78.75"	+50.0	-50.0
OUTSWING	151.0" X 96.75"	21.00" X 78.75"	+50.0	-50.0

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DBL DOOR W/ SIDELITES 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-4199
SHEET 1 OF 10

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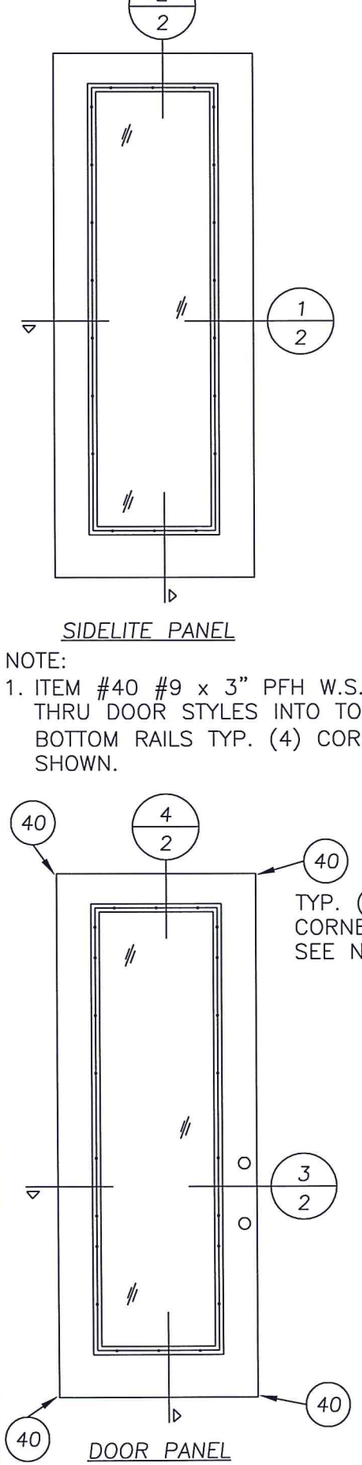
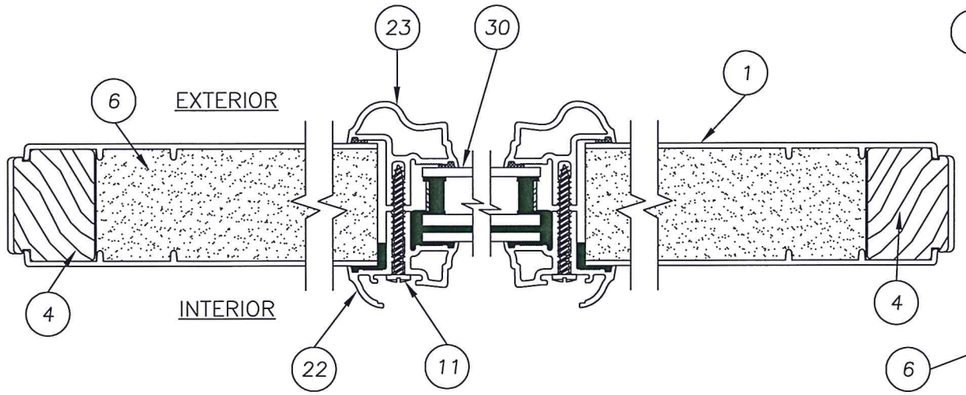
J:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 599 - 80 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SL\C - Drawings\Current\TX-4195-99.dwg, TX-4199

SIDELITE PANEL

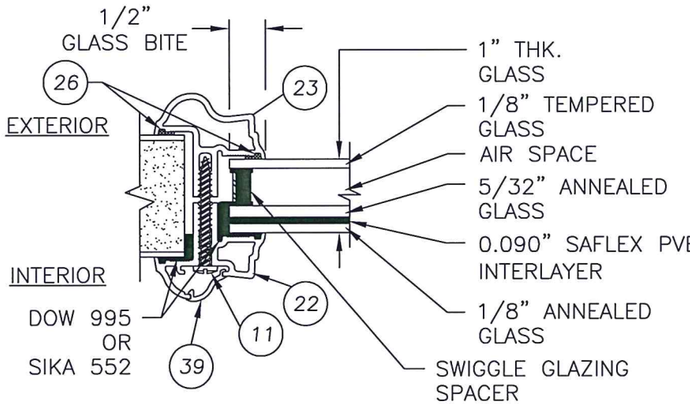
NOTE:
1. ITEM #40 #9 x 3" PFH W.S. LOCATED THRU DOOR STYLES INTO TOP & BOTTOM RAILS TYP. (4) CORNER AS SHOWN.



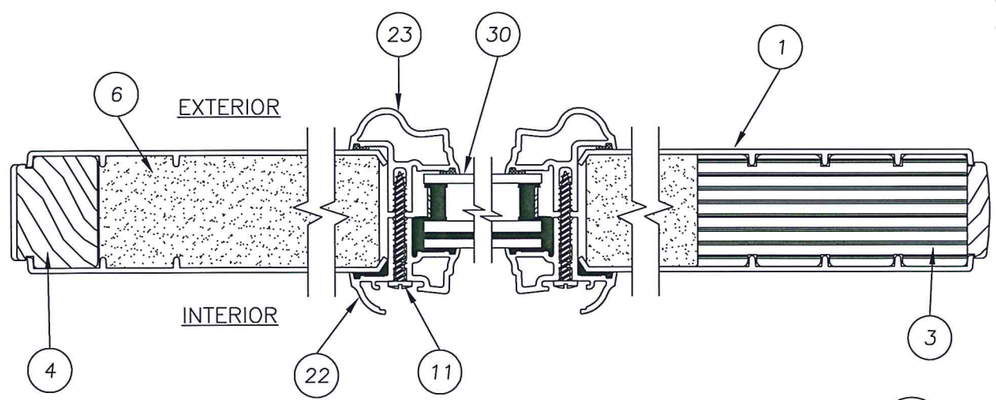
DOOR PANEL



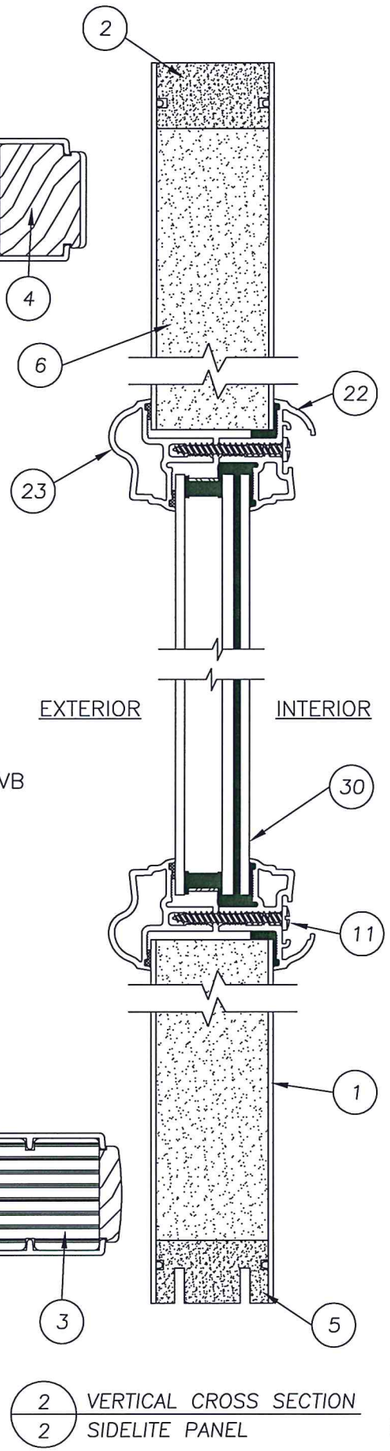
1/2 HORIZONTAL CROSS SECTION
2 SIDELITE PANEL



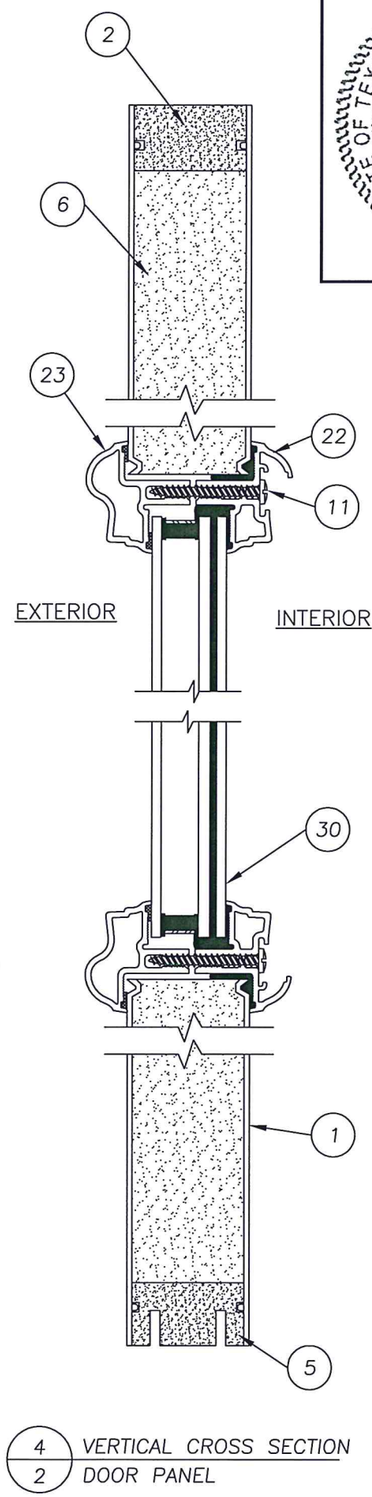
GLAZING DETAIL



3/2 HORIZONTAL CROSS SECTION
DOOR PANEL



2/2 VERTICAL CROSS SECTION
SIDELITE PANEL



4/2 VERTICAL CROSS SECTION
DOOR PANEL

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

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Phone No.: 813.659.9197

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

PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DBL DOOR W/
SIDELITES 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-4199
SHEET 2 OF 10

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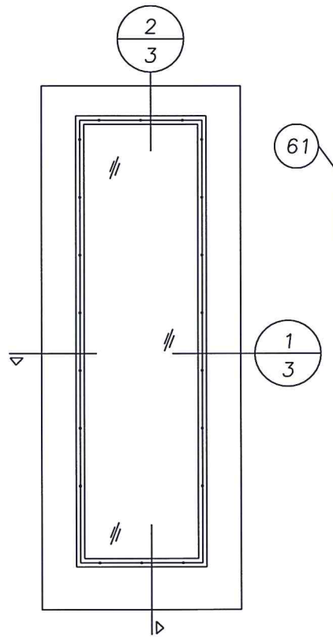
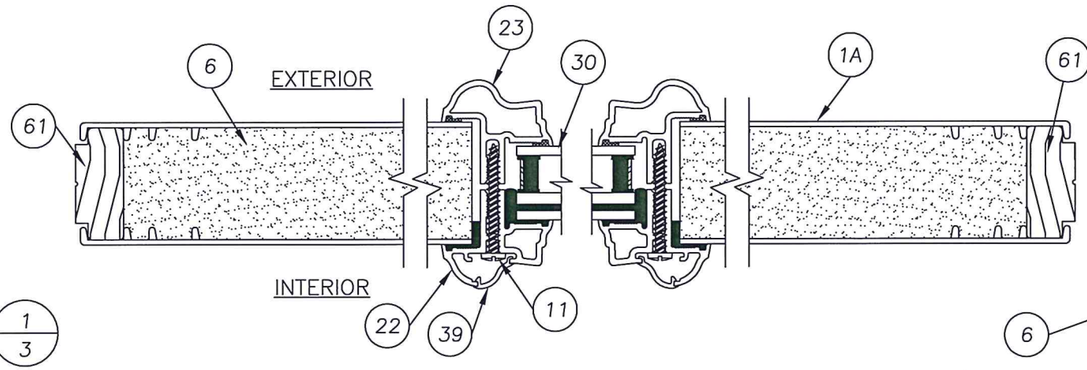
\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 599 - 80 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SL\C - Drawings\Current\TX-4195-99.dwg, 2.9

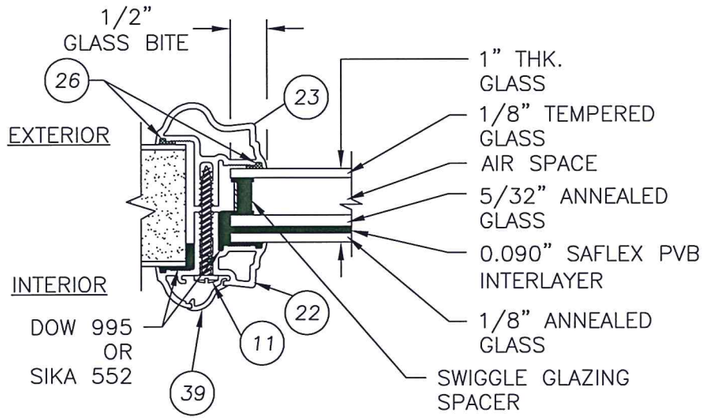


SIDELITE PANEL

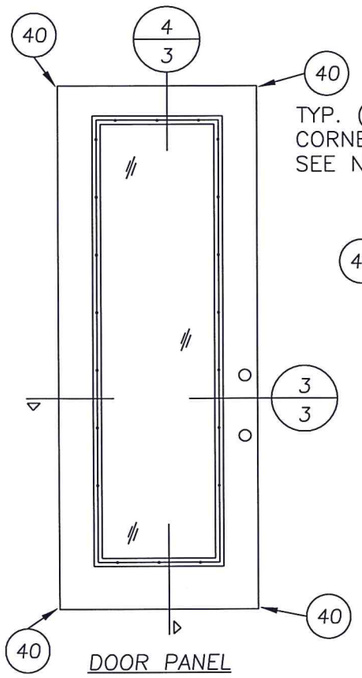
NOTE:
1. ITEM #40 #9 x 3" PFH W.S. LOCATED THRU DOOR STYLES INTO TOP & BOTTOM RAILS TYP. (4) CORNER AS SHOWN.



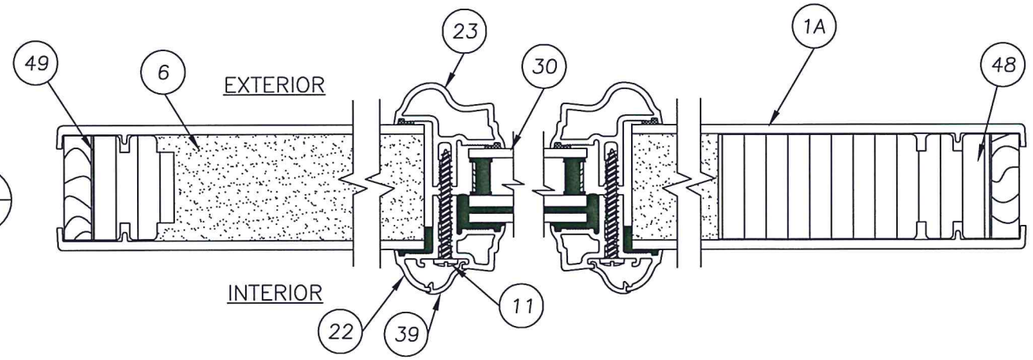
1/3 HORIZONTAL CROSS SECTION SIDELITE PANEL



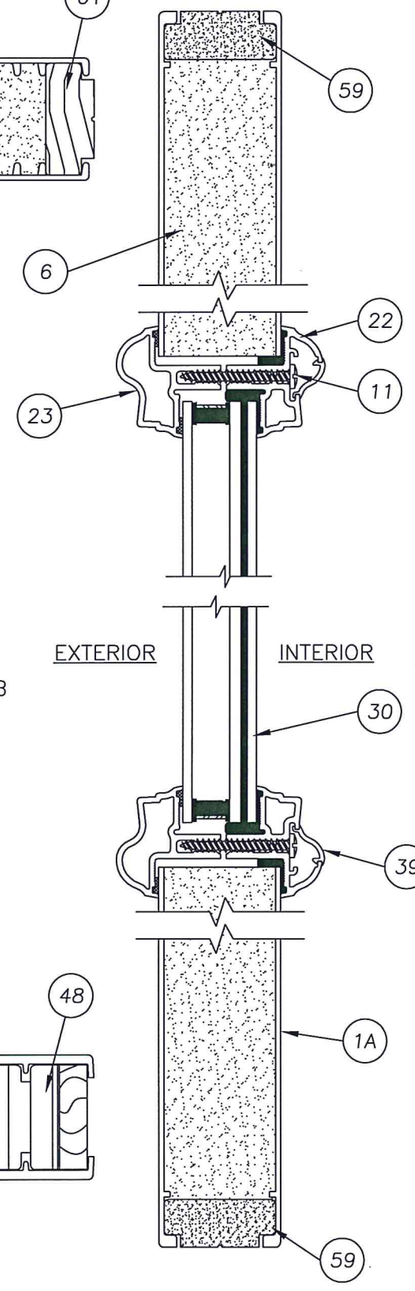
GLAZING DETAIL



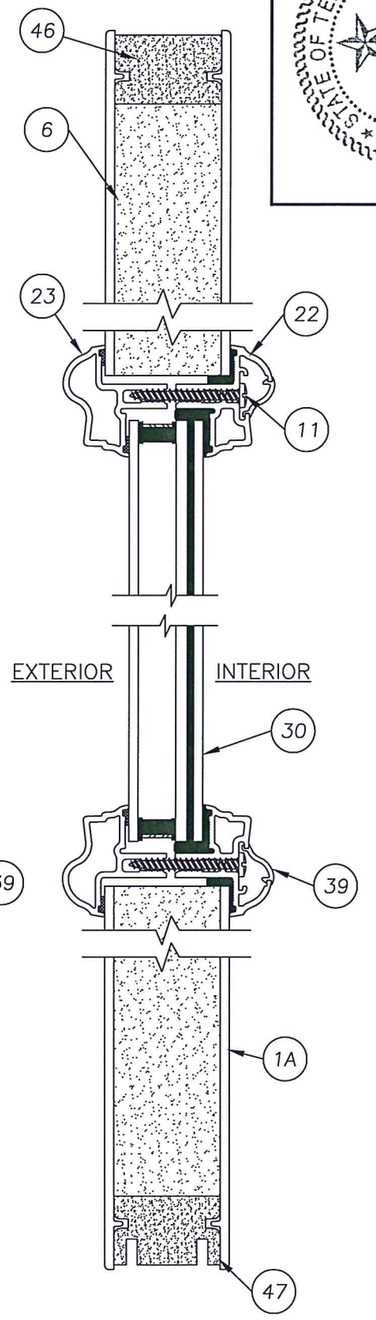
DOOR PANEL



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

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

PRODUCT: THERMA-TRU FIBERGLASS DBL DOOR W/ SIDELITES 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-4199
SHEET 3 OF 10

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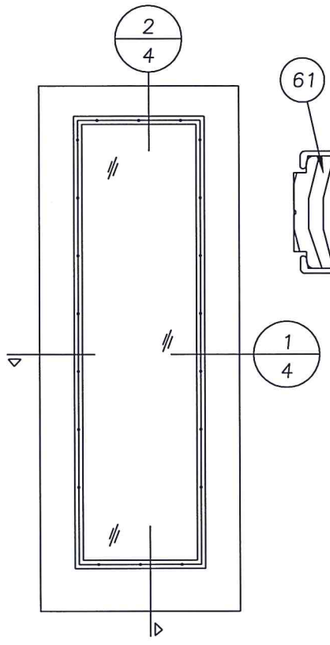
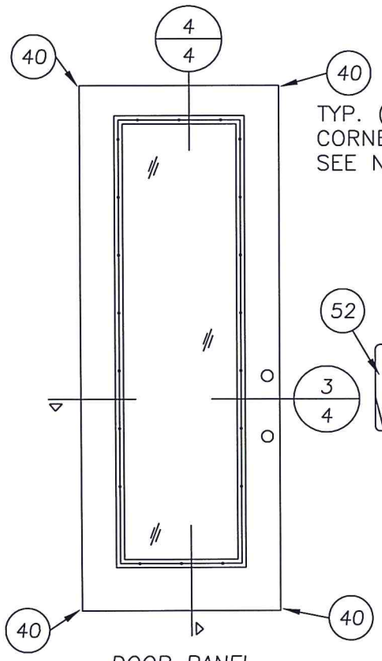
J:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 599 - 80 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SL\C - Drawings\Current\TX-4195-99.dwg, 3.9



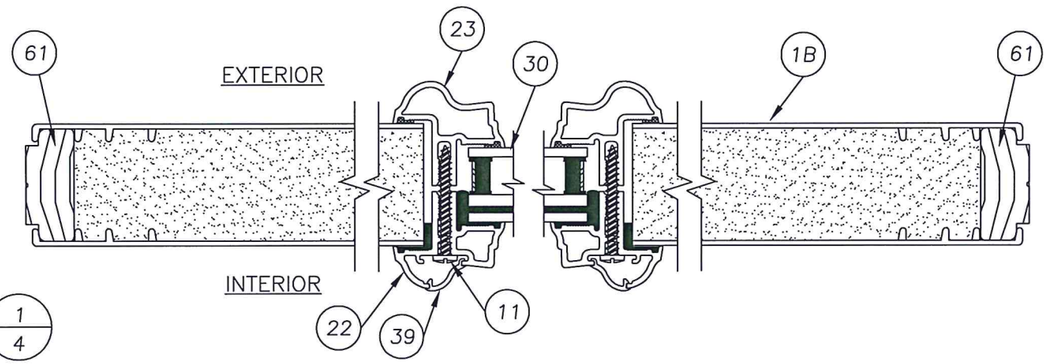
SIDELITE PANEL

NOTE:
1. ITEM #40 #9 x 3" PFH W.S. LOCATED THRU DOOR STYLES INTO TOP & BOTTOM RAILS TYP. (4) CORNER AS SHOWN.

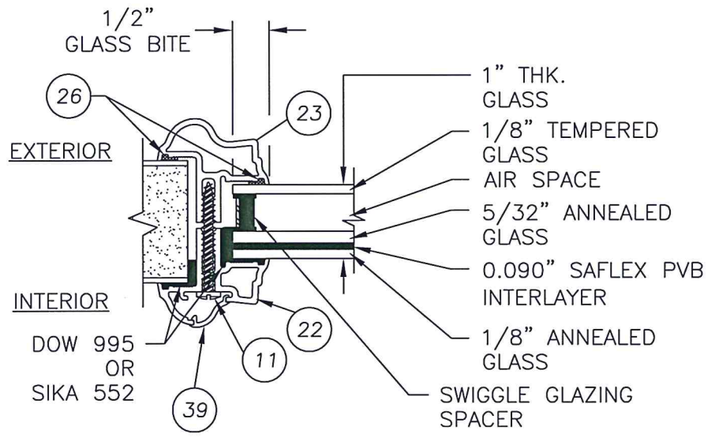


TYP. (4) CORNERS SEE NOTE 1

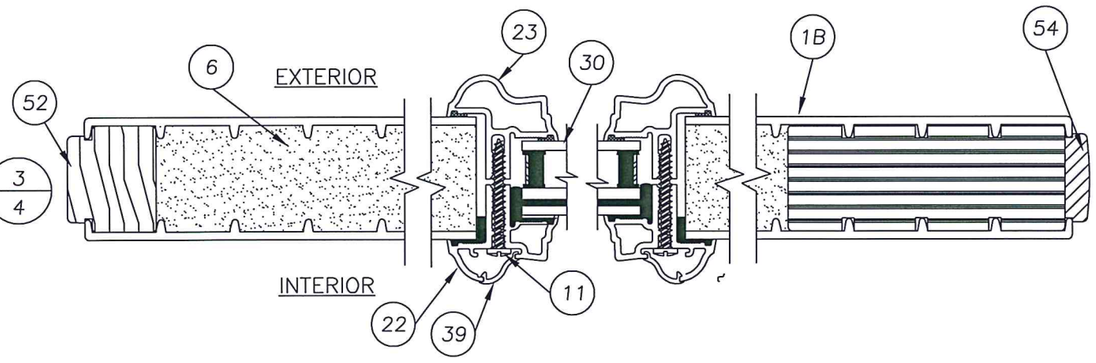
DOOR PANEL



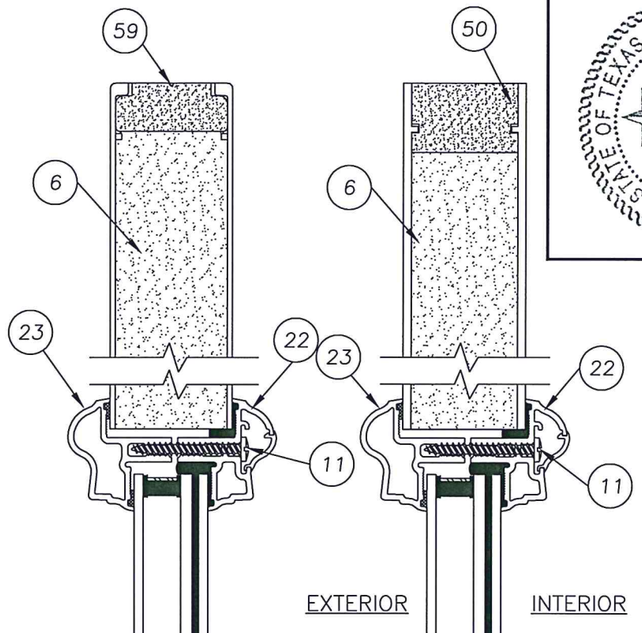
1/4 HORIZONTAL CROSS SECTION SIDELITE PANEL

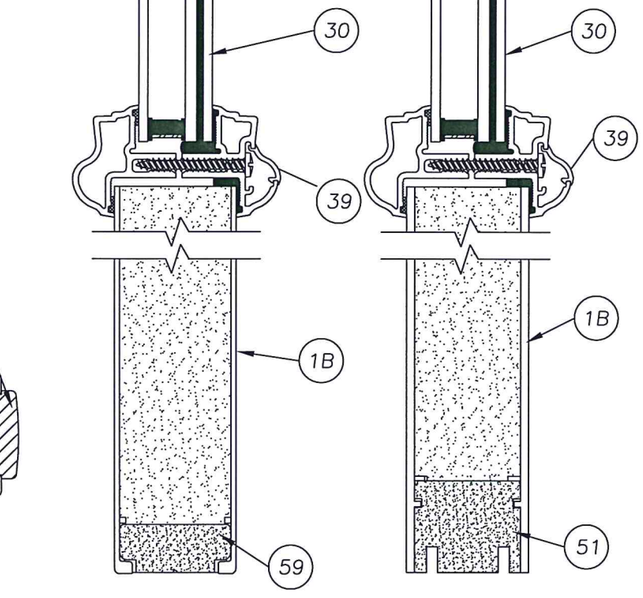


GLAZING DETAIL



3/4 HORIZONTAL CROSS SECTION DOOR PANEL





2/4 VERTICAL CROSS SECTION SIDELITE PANEL

4/4 VERTICAL CROSS SECTION DOOR PANEL

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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 FIBERGLASS DBL DOOR W/ SIDELITES 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-4199
SHEET 4 OF 10

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...mp SL\C - Drawings\Current\TX-4195-99.dwg, 4.9
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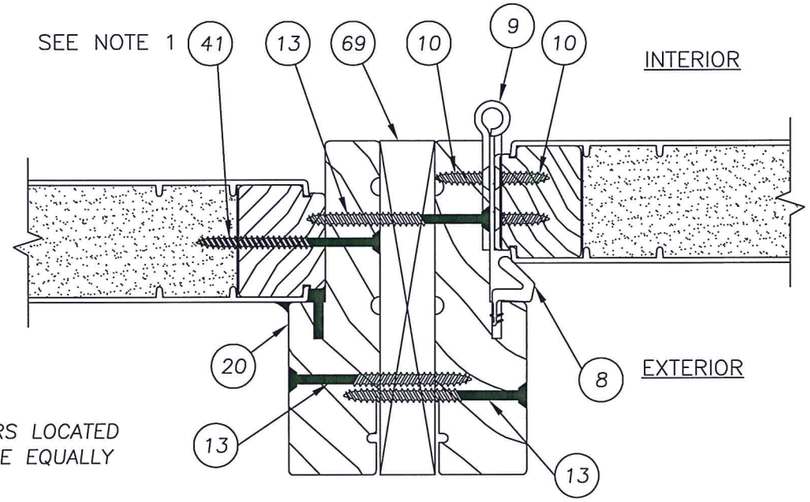
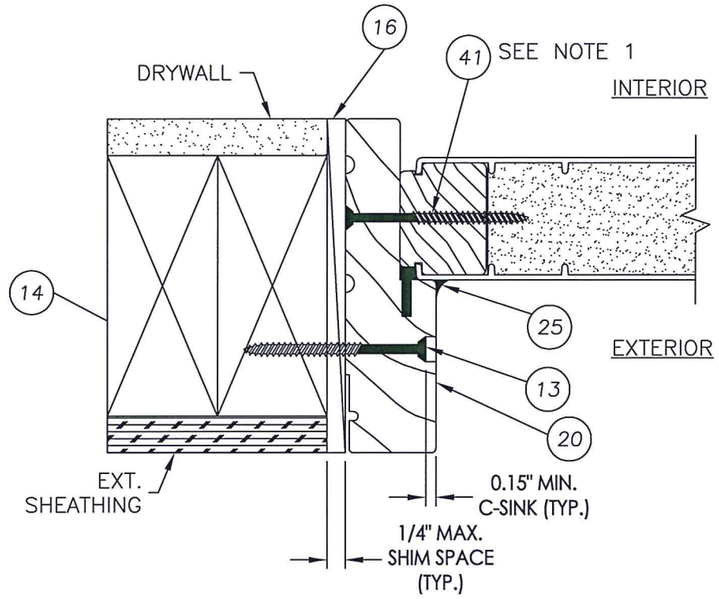
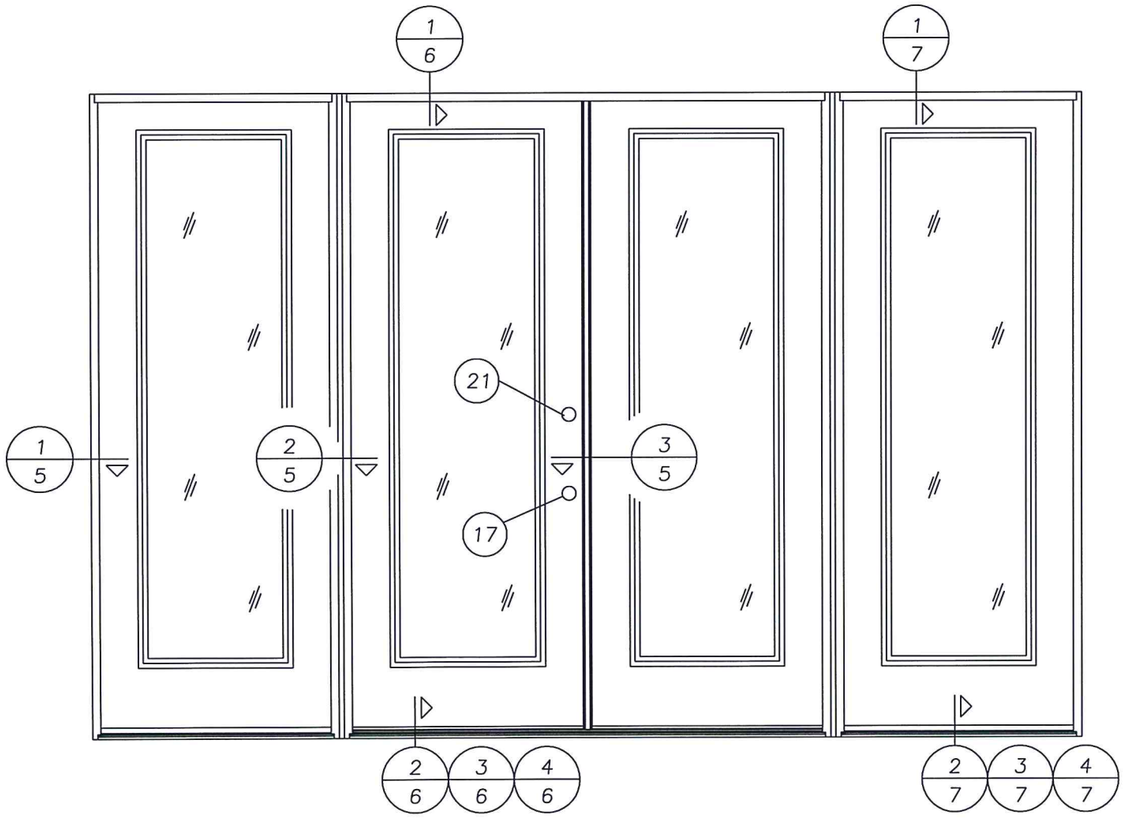


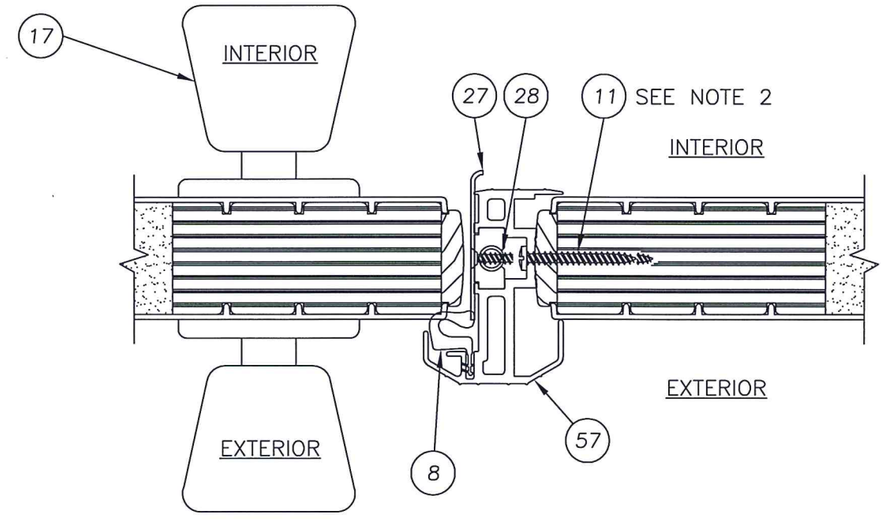
NOTES:
1. SIDELITE ASSEMBLY FASTENERS LOCATED 6" FROM ENDS PLUS 6 MORE EQUALLY SPACED (8 TOTAL).
2. ASTRAGAL RETAINING SCREWS LOCATED @ 3/4", 2", 3-1/4", 4-1/2", 18-7/8", 37-1/4, 57-7/8", 76-3/8", 90-3/4", 92", 93" & 94-1/2" FROM TOP OF ASTRAGAL (12 TOTAL).

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





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



3/5 HORIZONTAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("Smooth Star Series" shown)

7-22-15

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DBL DOOR W/ SIDELITES 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-4199
SHEET 5 OF 10

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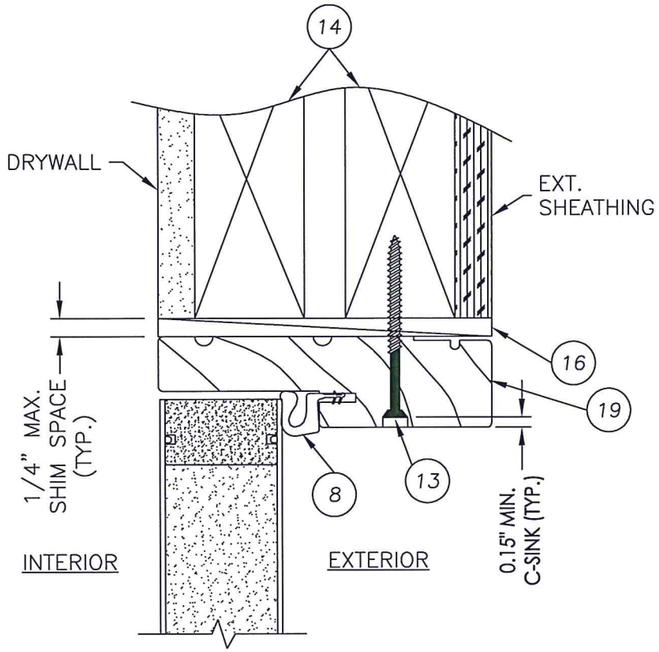
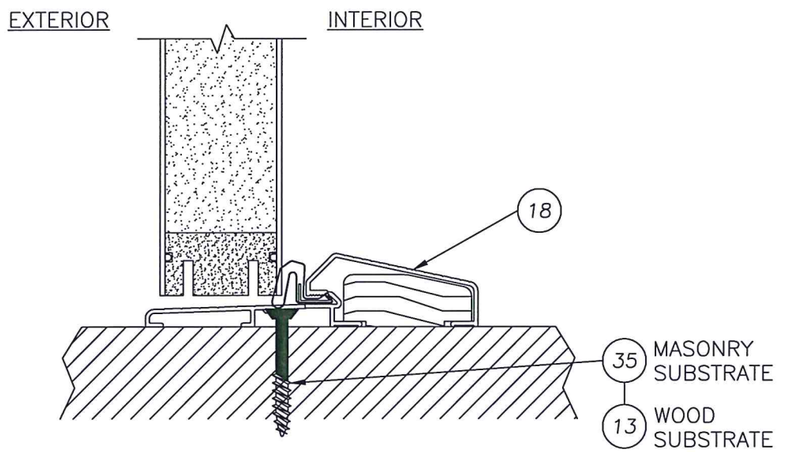
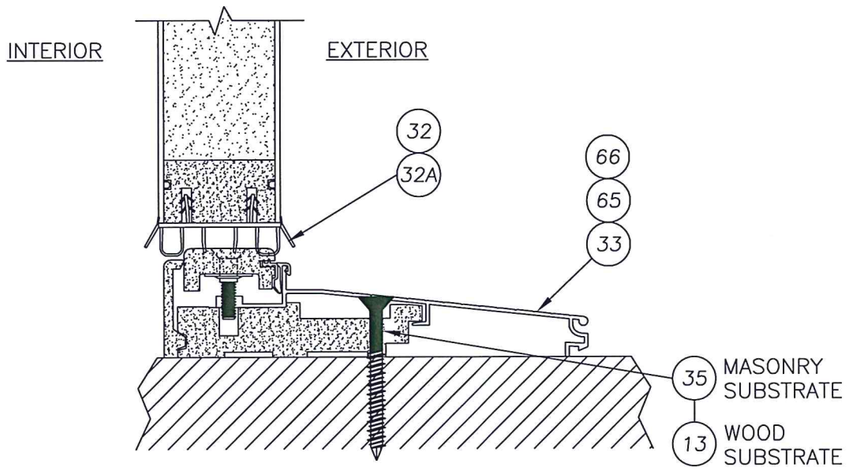


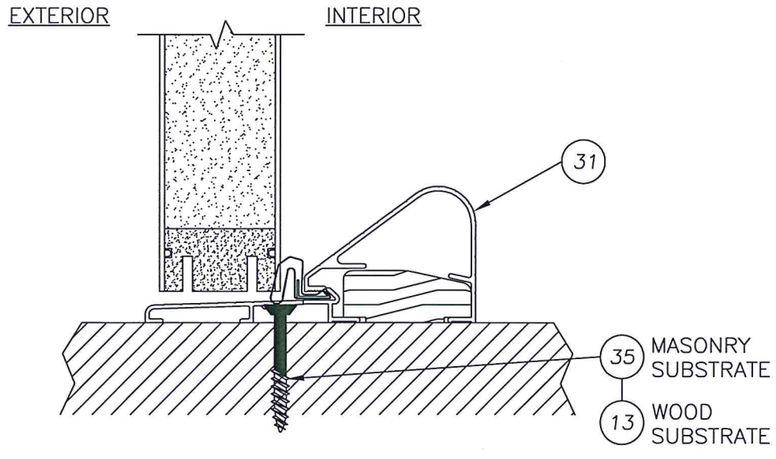
1/6 VERTICAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)



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



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



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

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

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TEXAS P.E. #104123

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Phone No.: 813.659.9197

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

PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DBL DOOR W/
SIDELITES 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-4199
SHEET 6 OF 10

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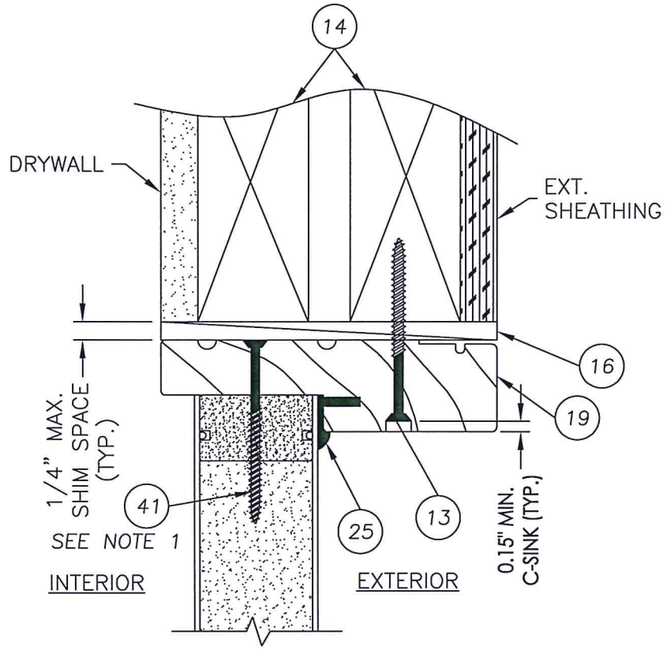
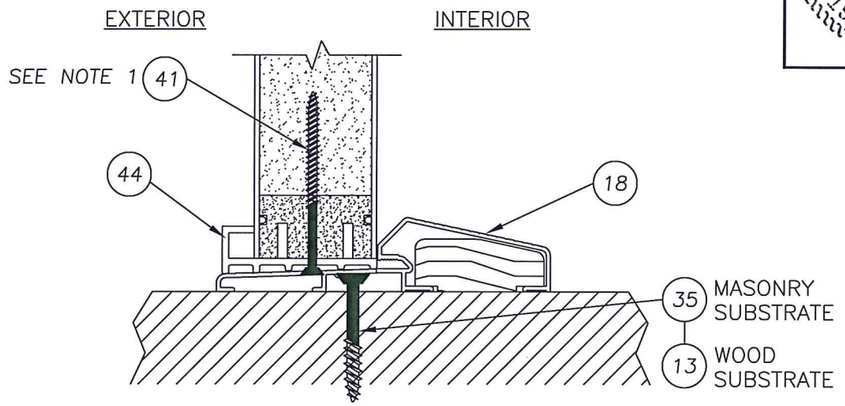
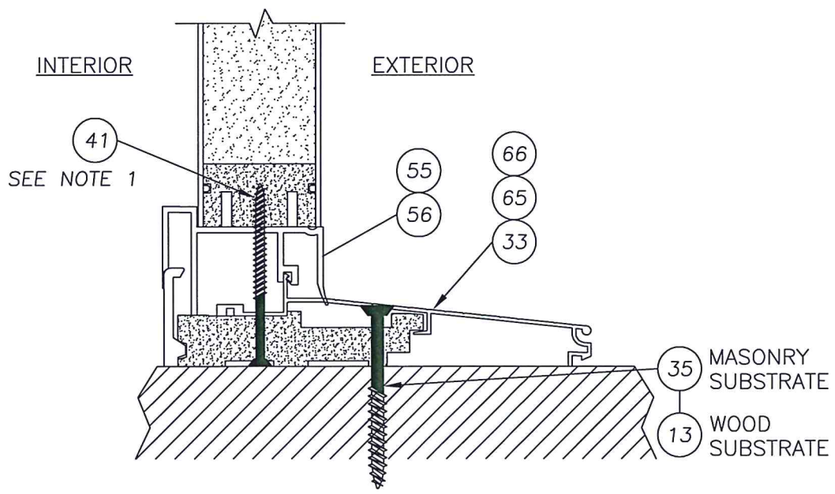


1/7 VERTICAL CROSS SECTION
INSWING SHOWN (OUTSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)

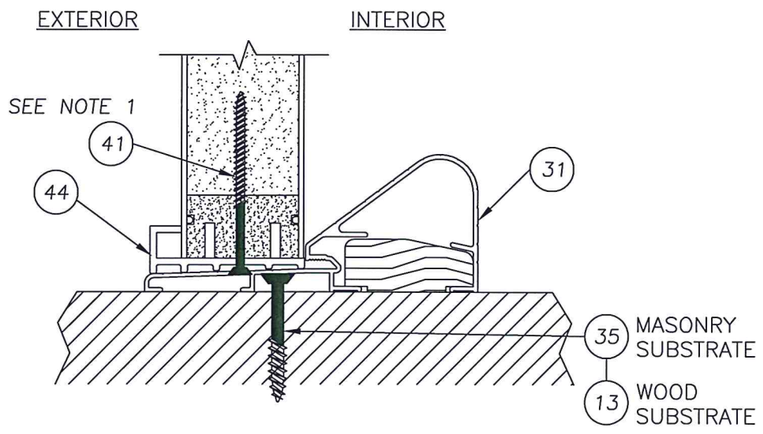
NOTE:
1. SIDELITE ASSEMBLY FASTENERS LOCATED 6" FROM ENDS PLUS ONE AT CENTERLINE (3 TOTAL).



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



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



4/7 VERTICAL CROSS SECTION
OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)

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 DBL DOOR W/ SIDELITES 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-4199
SHEET 7 OF 10

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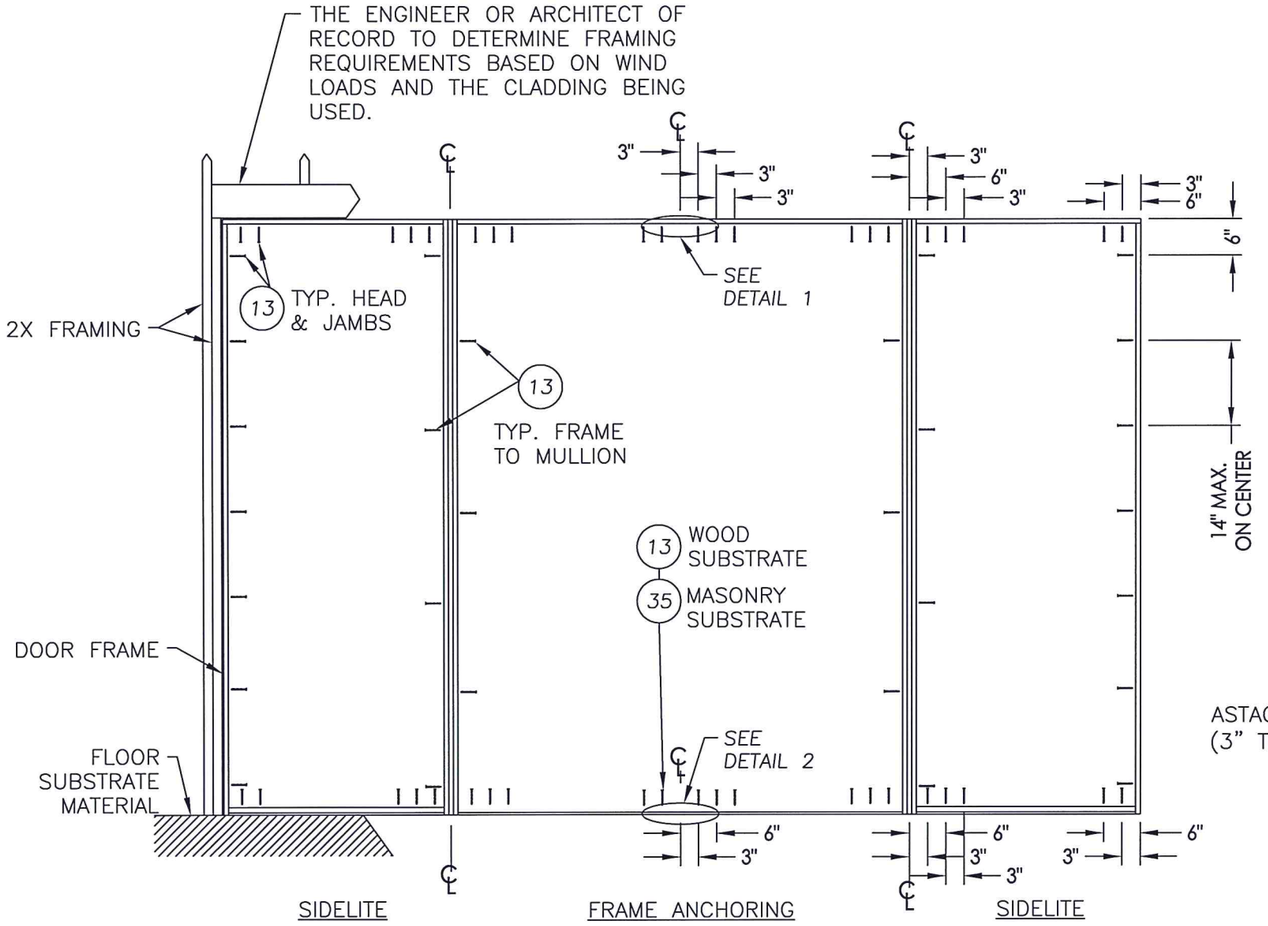
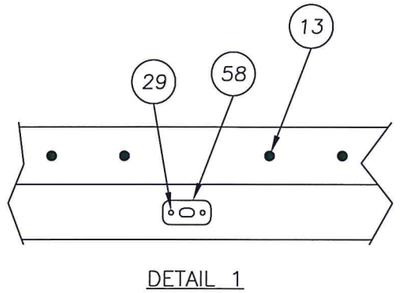
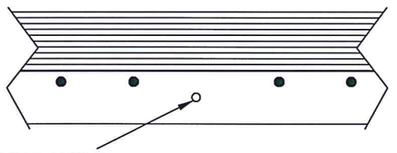
C:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 599 - 80 Glazed FG Imp IS - OS Sgls Dbls w-wo Imp SLVC - Drawings\Current\TX-4195-99.dwg, 7.9



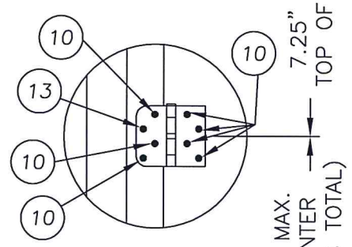


DETAIL 1

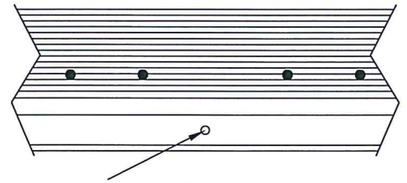


ASTAGAL BOLT HOLE (3" THROW)

DETAIL 2 OUTSWING

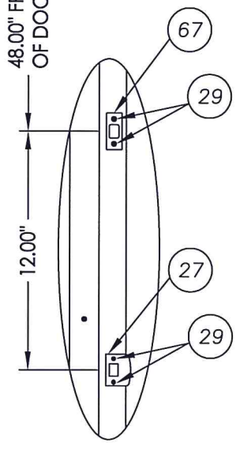


HINGE DETAIL



ASTAGAL BOLT HOLE (3" THROW)

DETAIL 2 INSWING



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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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 DBL DOOR W/ SIDELITES 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-4199
SHEET 8 OF 10

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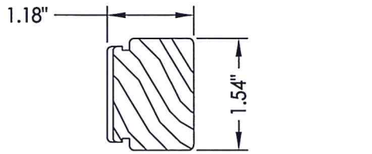
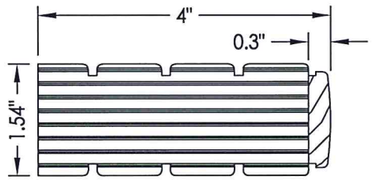
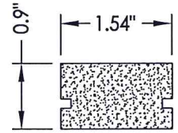


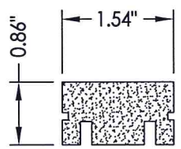
4 HINGE STILE / DOOR STILE / SIDELITE (SMOOTH STAR)



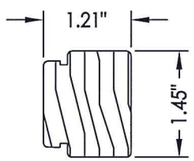
3 LATCH STILE (SMOOTH STAR)



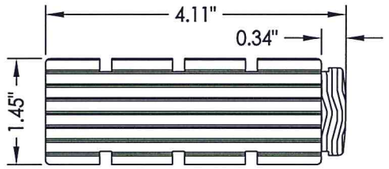
2 DOOR TOP RAIL DOOR / SIDELITE (SMOOTH STAR)



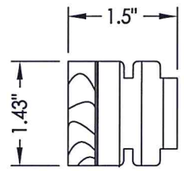
5 BOTTOM RAIL DOOR / SIDELITE (SMOOTH STAR)



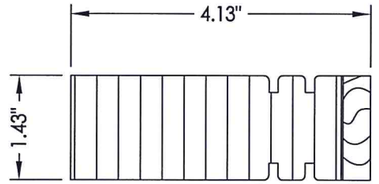
52 HINGE STILE (FIBER CLASSIC)



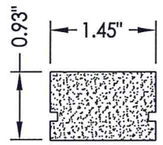
54 LOCK STILE (FIBER CLASSIC)



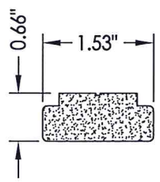
49 HINGE STILE (CLASSIC CRAFT) (& RUSTIC)



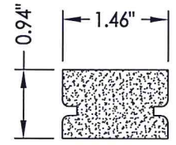
48 LATCH STILE (CLASSIC CRAFT) (& RUSTIC)



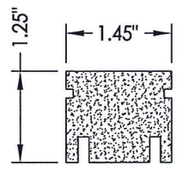
50 DOOR TOP RAIL (FIBER CLASSIC)



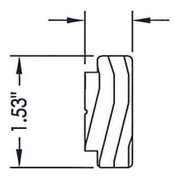
59 SIDELITE TOP & BOTTOM RAIL (CLASSIC CRAFT & RUSTIC) (FIBER CLASSIC)



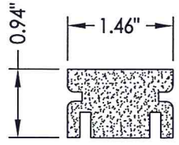
46 DOOR TOP RAIL (CLASSIC CRAFT) (& RUSTIC)



51 DOOR BOTTOM RAIL (FIBER CLASSIC)



61 SIDELITE STILE (CLASSIC CRAFT & RUSTIC) (FIBER CLASSIC)



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

7.22.15

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

R.W. 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: THERMA-TRU GLAZED FIBERGLASS DBL DOOR W/ SIDELITES IN/OUTSWING "IMPACT"

PART OR ASSEMBLY: 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-4199
SHEET 9 OF 10

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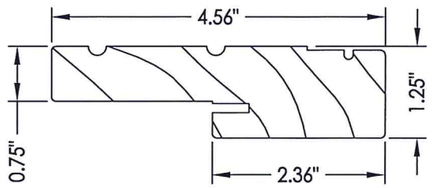
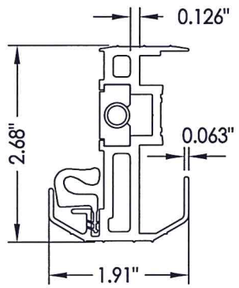
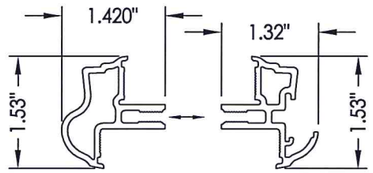
Item	DESCRIPTION	Material
1	DOOR SKIN; SMOOTH STAR SERIES (.075" MIN.)	FIBERGLASS
1A	DOOR SKIN; CLASSIC CRAFT & RUSTIC SERIES (0.090" MIN.)	FIBERGLASS
1B	DOOR SKIN; FIBER CLASSIC SERIES (.065" MIN.)	FIBERGLASS
2	TOP RAIL DOOR THERMA-TRU (SMOOTH STAR)	COMP.
3	LATCH STILE DOOR THERMA-TRU (SMOOTH STAR)	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.
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 (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
41	#9 x 2-1/2" PFH SCREW	STEEL
44	OUTSWING SIDELITE ADAPTER	PVC
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
55	INSWING SIDELITE SPACER	PVC
56	INSWING SIDELITE SPACER	PVC
57	ASTRAGAL (6063-T5) COASTAL	ALUM.
58	ASTRAGAL STRIKE PLATE	STEEL
59	SIDELITE TOP & BOTTOM RAIL (CLASSIC CRAFT, RUSTIC & FIBER CLASSIC)	COMP.
61	SIDELITE STILE (CLASSIC CRAFT, RUSTIC & FIBER CLASSIC)	WOOD
65	INSWING THRESHOLD SELF ADJUSTING	ALUM./COMP.
66	INSWING THRESHOLD IMPERIAL	ALUM./COMP.
67	DEAD BOLT STRIKE PLATE	STEEL
69	1X MULLION (G >= 0.42)	WOOD



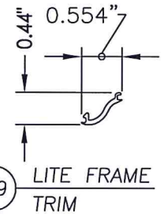
19 20 HEAD & SIDE JAMB



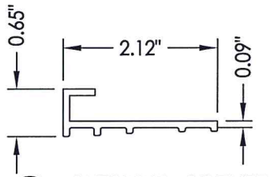
57 ASTRAGAL COASTAL



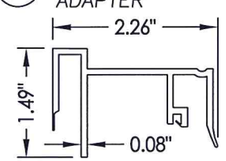
23 EXT. LITE FRAME
22 INT. LITE FRAME



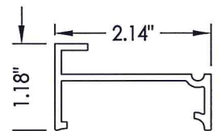
39 LITE FRAME TRIM



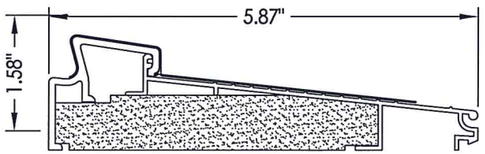
44 OUTSWING SIDELITE ADAPTER



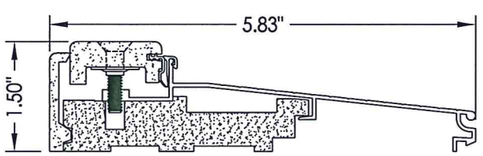
55 INSWING SIDELITE ADAPTER



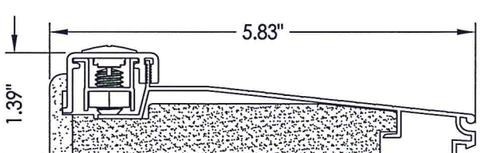
56 INSWING SIDELITE ADAPTER



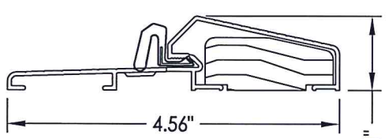
65 INSWING SELF ADJUST THRESHOLD



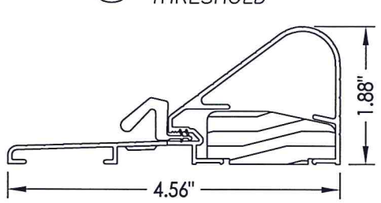
66 INSWING IMPERIAL THRESHOLD



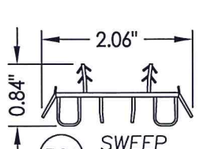
33 INSWING HPA THRESHOLD



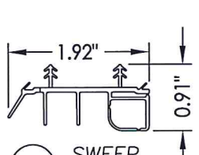
18 OUTSWING THRESHOLD



31 OUTSWING COASTAL THRESHOLD



32A SWEEP



32 SWEEP

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

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

PART OR ASSEMBLY: BILL OF MATERIAL & 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-4199
SHEET 10 OF 10

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