THERMA TRU®

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

SMOOTH STAR & FIBER CLASSIC

SINGLE "IMPACT" DOOR WITH "NON-IMPACT" SIDELITES INSWING / OUTSWING

EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Opaque 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. The opaque door has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. The opaque door meets missile level "D" as defined in ASTM E 1996. The non-impact sidelites require an impact protective system when installed in the Seaward, Inland I and Inland II areas.
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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7	VERTICAL CROSS SECTIONS
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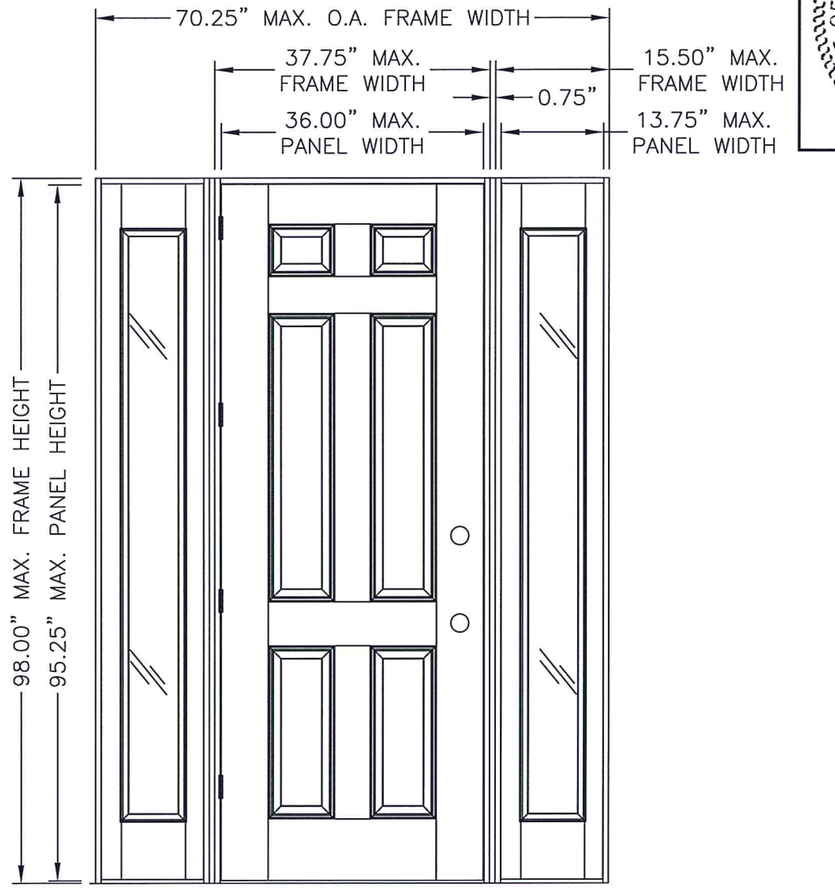
9	COMPONENTS
10	BILL OF MATERIALS



"SMOOTH STAR" & "FIBER CLASSIC"

DOOR TYPE	SWING	OVERALL FRAME DIMENSION	OVERALL SIDELITE D.L.O. DIMENSION	DESIGN PRESSURE	
				POSITIVE	NEGATIVE
SMOOTH STAR	OUTSWING	70.25" X 96.50"	6.75" X 79.00"	+65.0	−65.0
	INSWING	70.25" X 98.00"		+65.0	−65.0
FIBER CLASSIC	OUTSWING	70.25" X 96.50"		+65.0	−65.0
	INSWING	70.25" X 98.00"		+65.0	−65.0

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

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: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

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

REVISIONS

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 1 OF 10

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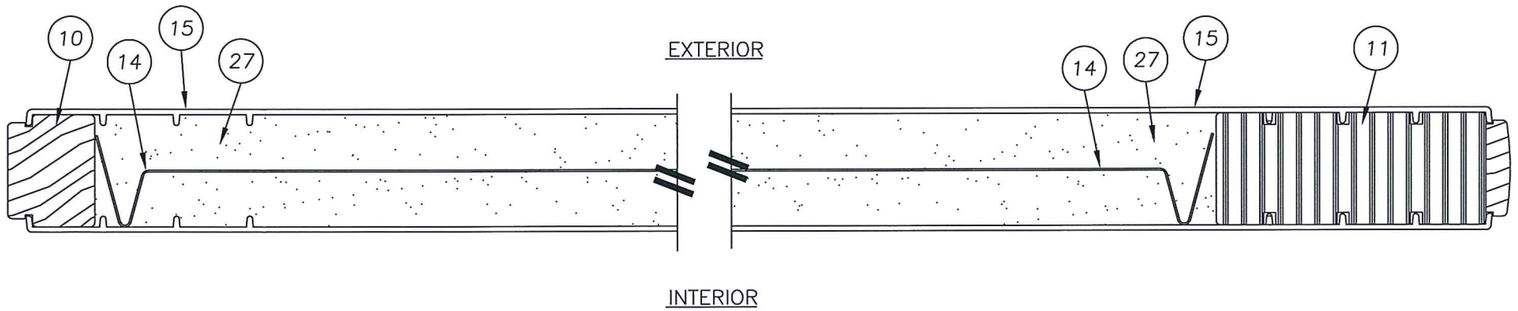
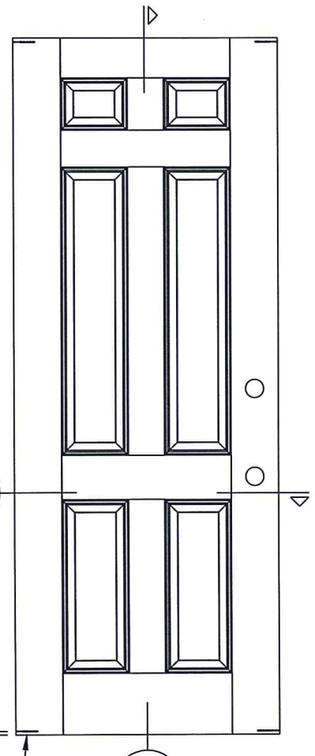
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 601 - 80 Opaque FG Imp IS - OS Sgls Dbls w-wo Imp SLLC - Drawings\Current\TX-4175-83.dwg, TX-4182

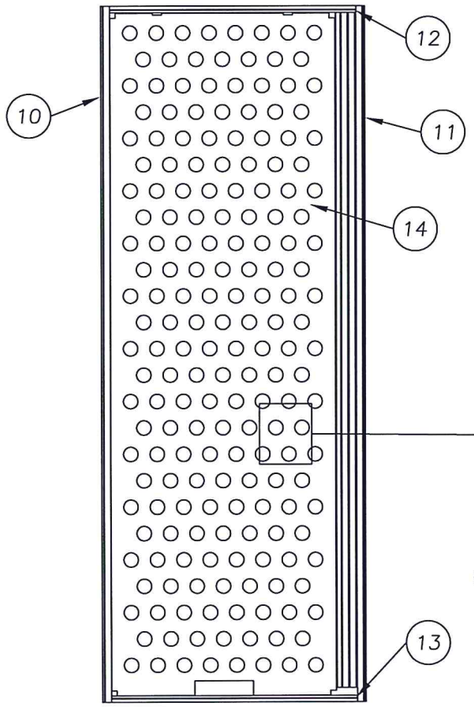


2/2 HORIZONTAL CROSS SECTION
SMOOTH STAR

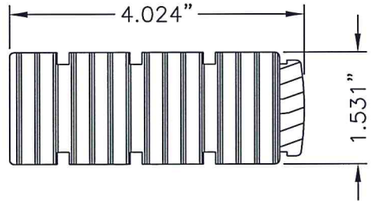


1/2 SMOOTH STAR

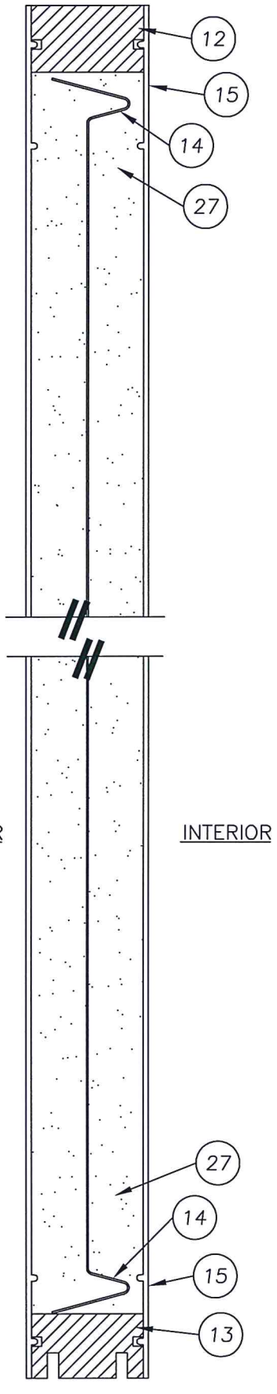
32 TYP. 4 CORNERS OF PANEL



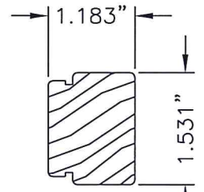
28.86% OPEN AREA MAX.



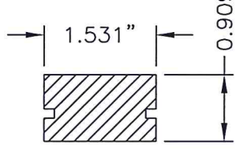
11 LOCK STILE
SMOOTH STAR



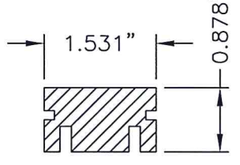
1/2 VERTICAL CROSS SECTION
SMOOTH STAR



10 HINGE STILE
SMOOTH STAR



12 TOP RAIL
SMOOTH STAR



13 BOTTOM RAIL
SMOOTH STAR

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

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY: DOOR PANEL DETAILS (SMOOTH STAR)

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 2 OF 10

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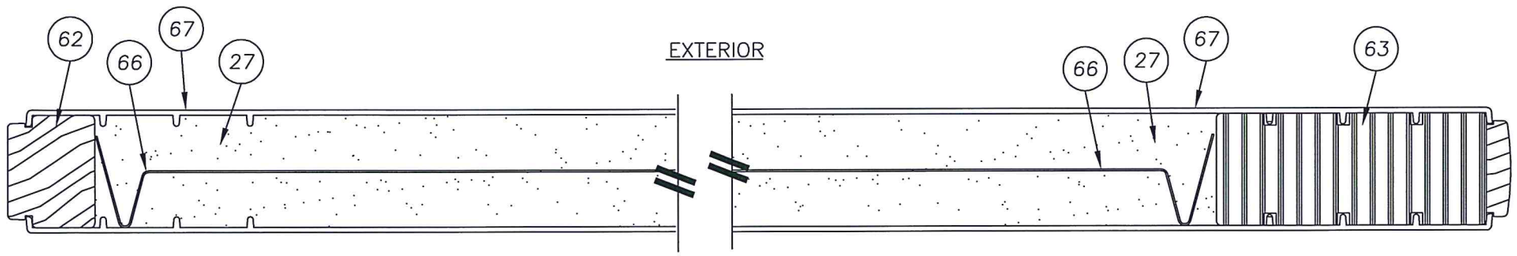
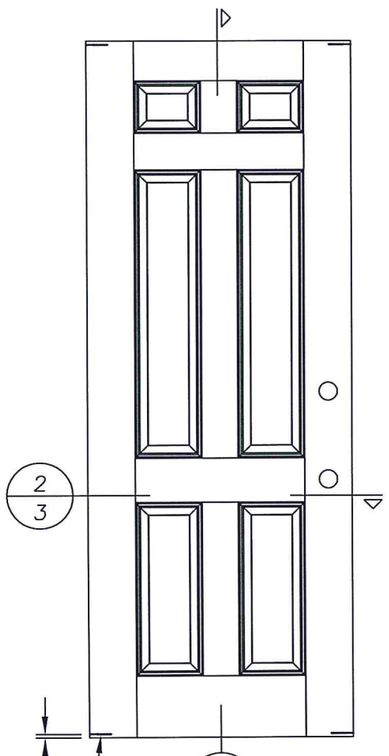
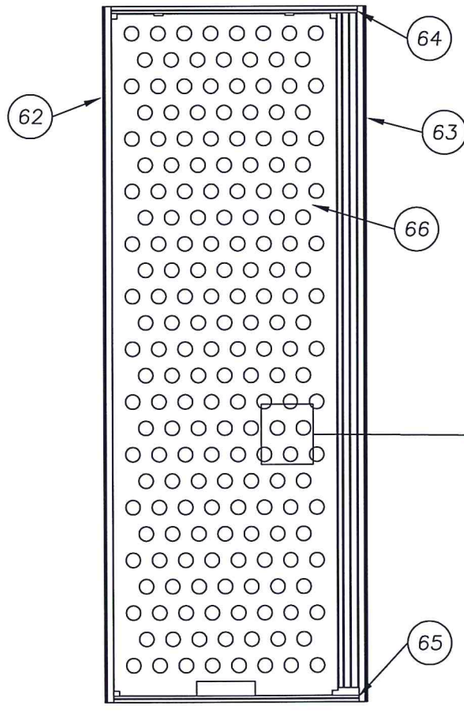


2/3 HORIZONTAL CROSS SECTION
FIBER CLASSIC

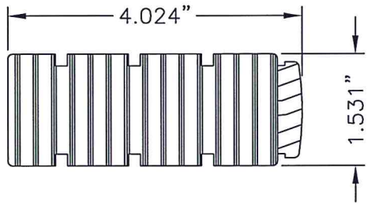


FIBER CLASSIC

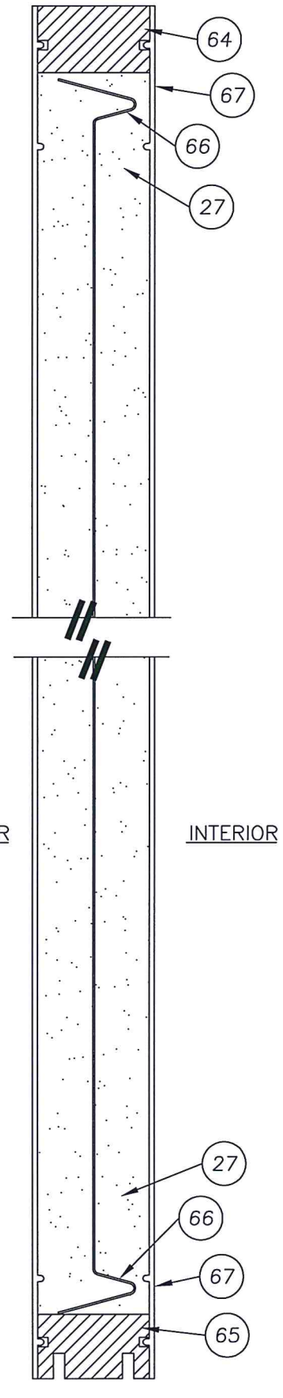
32 TYP. 4 CORNERS OF PANEL



28.86% OPEN AREA MAX.



63 LOCK STILE
FIBER CLASSIC



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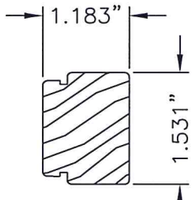
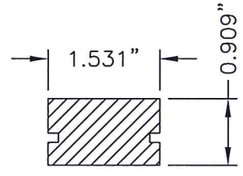
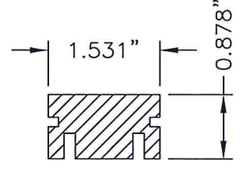
FIBER CLASSIC



62 HINGE STILE
FIBER CLASSIC



64 TOP RAIL
FIBER CLASSIC



65 BOTTOM RAIL
FIBER CLASSIC

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

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PART OR ASSEMBLY: DOOR PANEL DETAILS (FIBER CLASSIC)

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 3 OF 10

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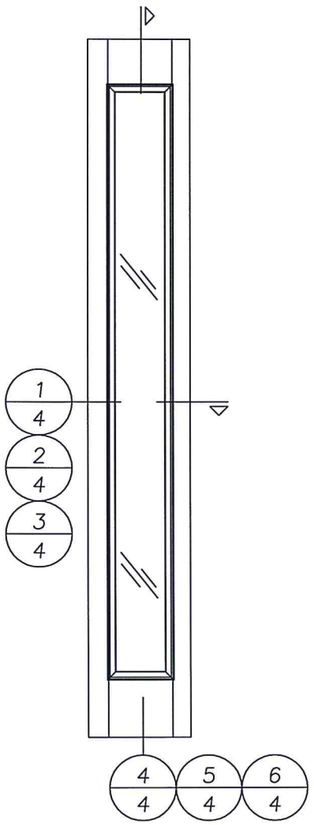
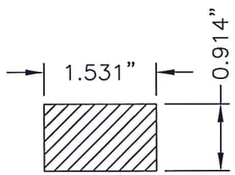
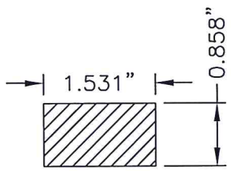
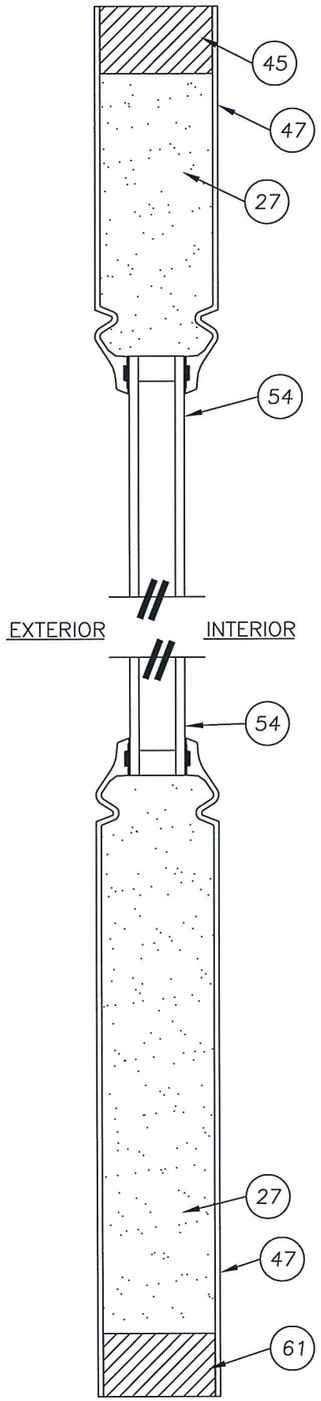




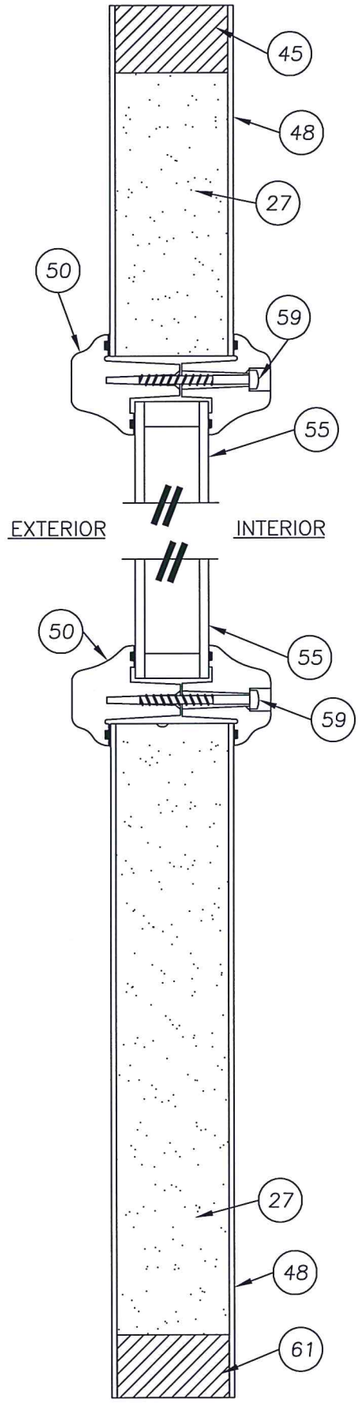
45 TOP RAIL SIDELITE



61 BOTTOM RAIL SIDELITE



4/4 VERTICAL CROSS SECTION (CLASSIC CRAFT)



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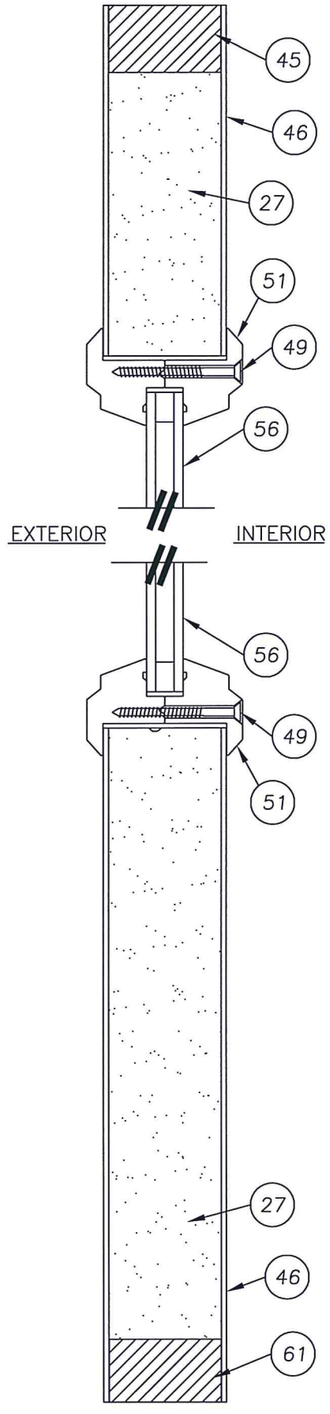
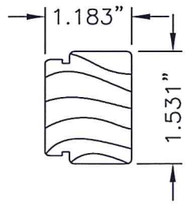
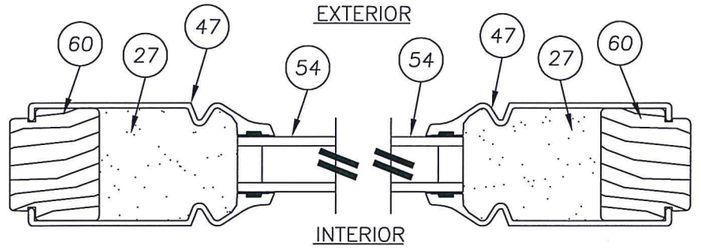


6/4 VERTICAL CROSS SECTION (SMOOTH STAR)



60 STILE SIDELITE



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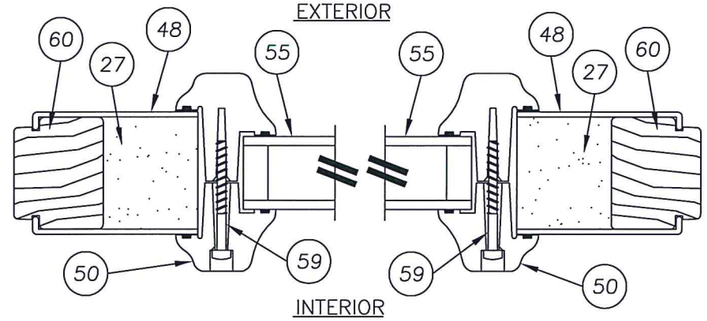

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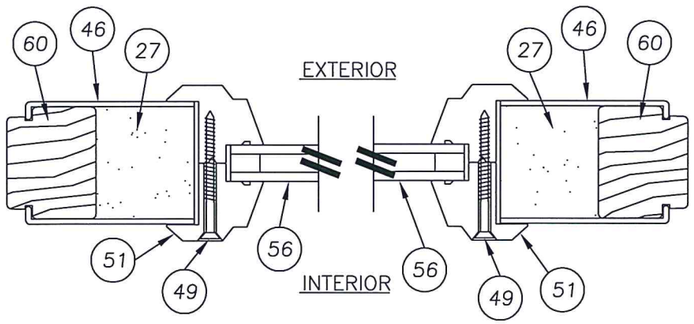

3/4 HORIZONTAL CROSS SECTION (SMOOTH STAR)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.27.15

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: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

PART OF ASSEMBLY: SIDELITE PANEL DETAILS

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 4 OF 10

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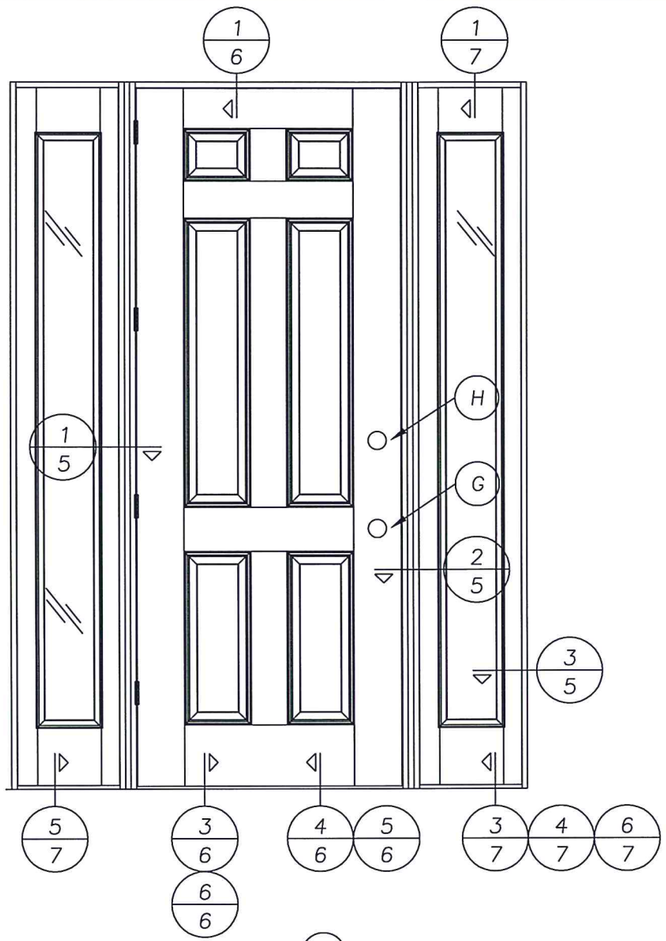
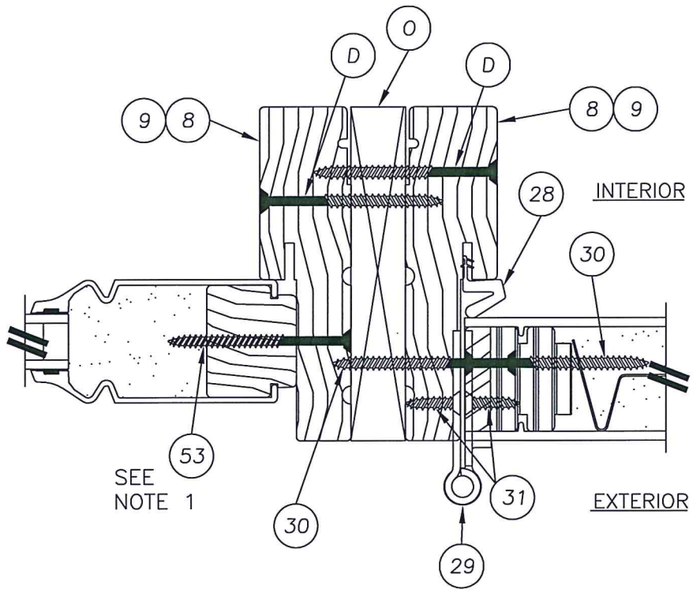
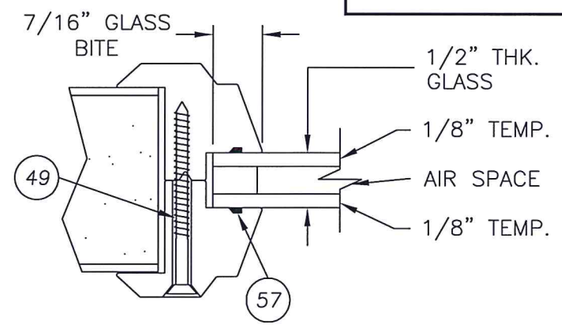
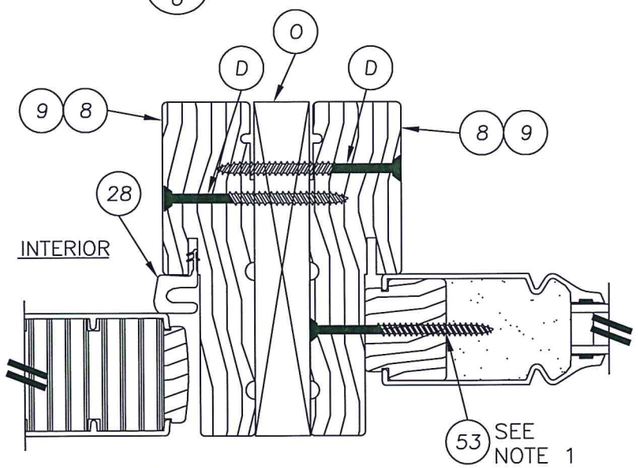




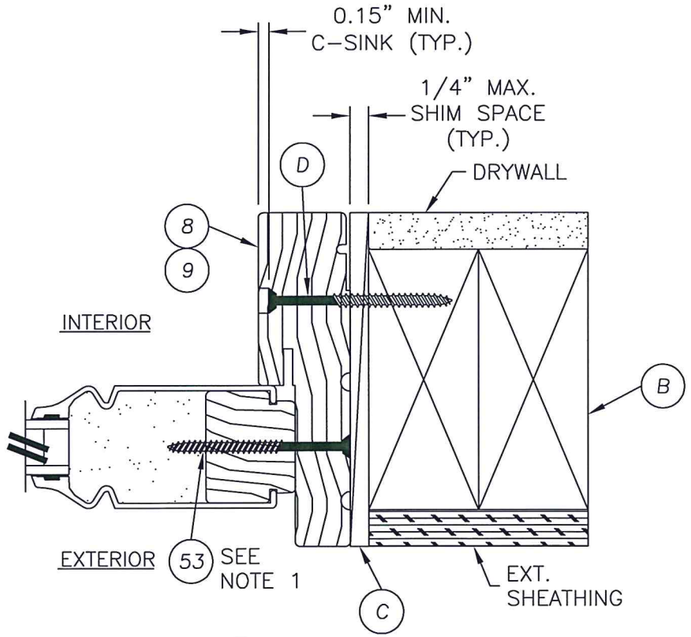
1/5 HORIZONTAL CROSS SECTION
OUTSWING SHOWN (INSWING ALSO APPROVED)
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES



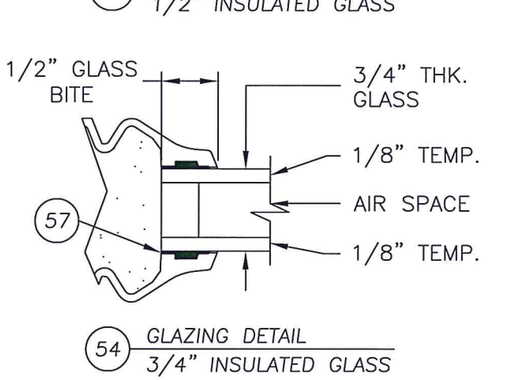
56 GLAZING DETAIL
1/2" INSUALTED GLASS



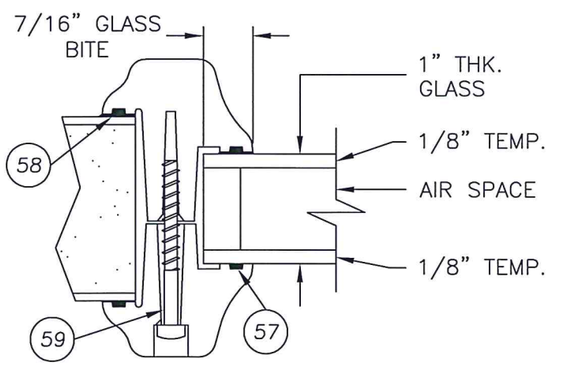
2/5 HORIZONTAL CROSS SECTION
OUTSWING SHOWN (INSWING ALSO APPROVED)
SMOOTH STAR PANEL SHOWN
SEE PANEL DETAILS FOR
OPTIONAL PANEL TYPES



3/5 HORIZONTAL CROSS SECTION
OUTSWING SHOWN (INSWING ALSO APPROVED)
CLASSIC CRAFT PANEL SHOWN
SEE SIDELITE PANEL DETAILS FOR
OPTIONAL PANEL TYPES



54 GLAZING DETAIL
3/4" INSULATED GLASS



55 GLAZING DETAIL
1" INSULATED GLASS

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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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & GLAZING DETAILS

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 5 OF 10

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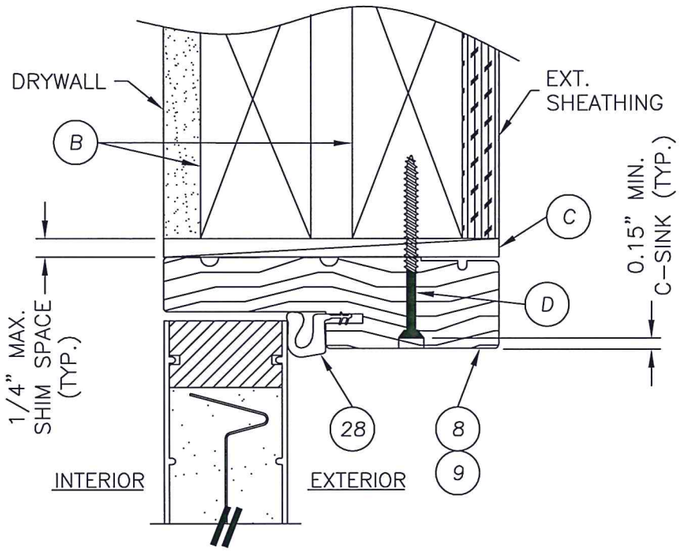
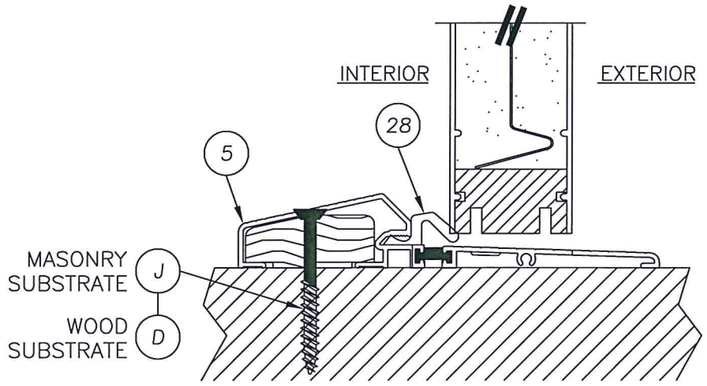
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 601 - 80 Opaque FG Imp IS - OS Sgls Dbls w-wo Imp SL\C - Drawings\Current\TX-4175-83.dwg, OXO5



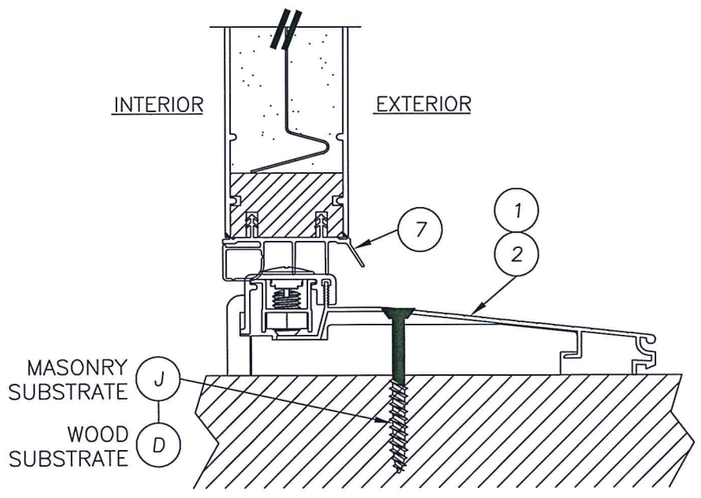
1/6 VERTICAL CROSS SECTION

INSWING SHOWN (OUTSWING ALSO APPROVED)
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES



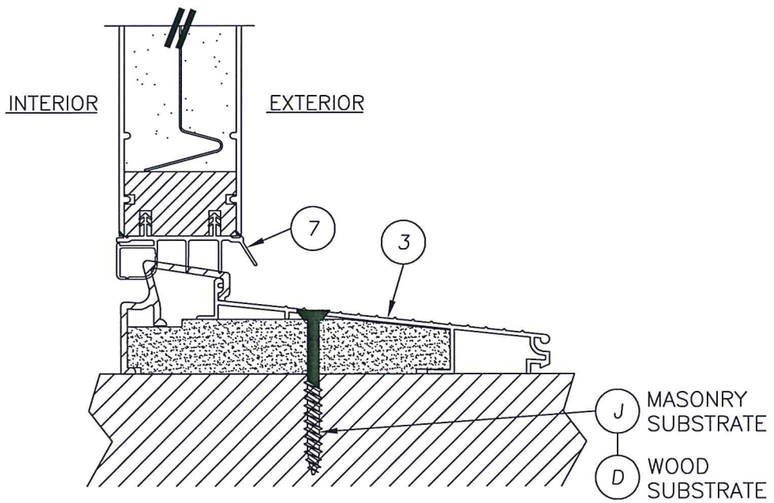
3/6 VERTICAL CROSS SECTION

@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES



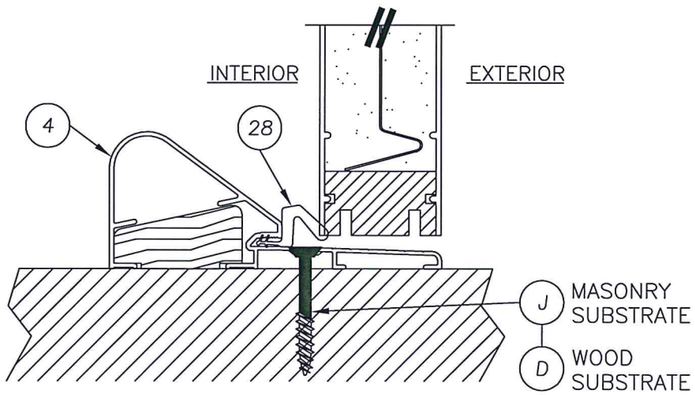
4/6 VERTICAL CROSS SECTION

@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES



5/6 VERTICAL CROSS SECTION

@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES



6/6 VERTICAL CROSS SECTION

@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES

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

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:
SINGLE OPAQUE
FIBERGLASS DOOR W/SIDELITES
"IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 6 OF 10

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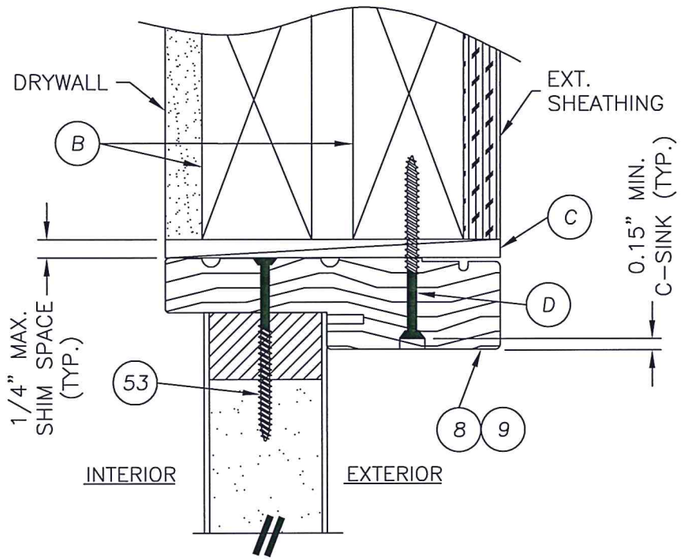
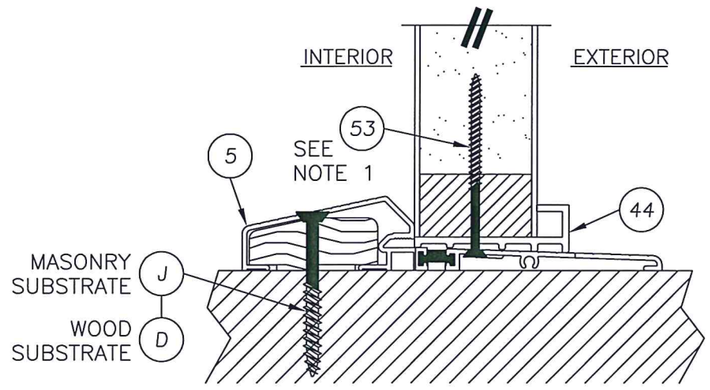
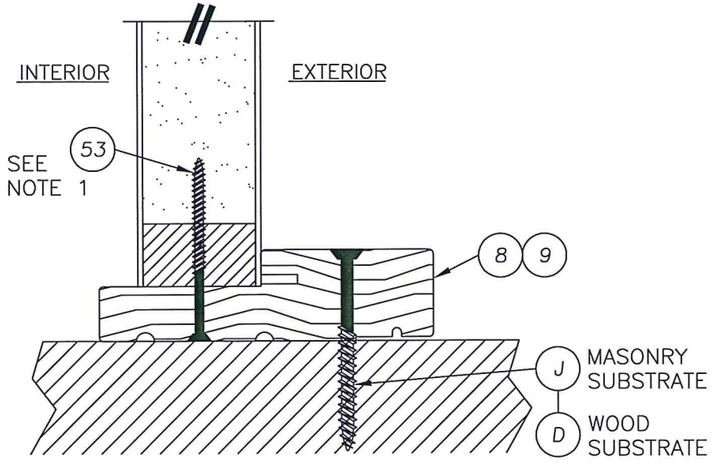
NOTE:
1. SIDELITE ASSEMBLY SCREWS LOCATED 4.25" FROM ENDS (2 TOTAL).



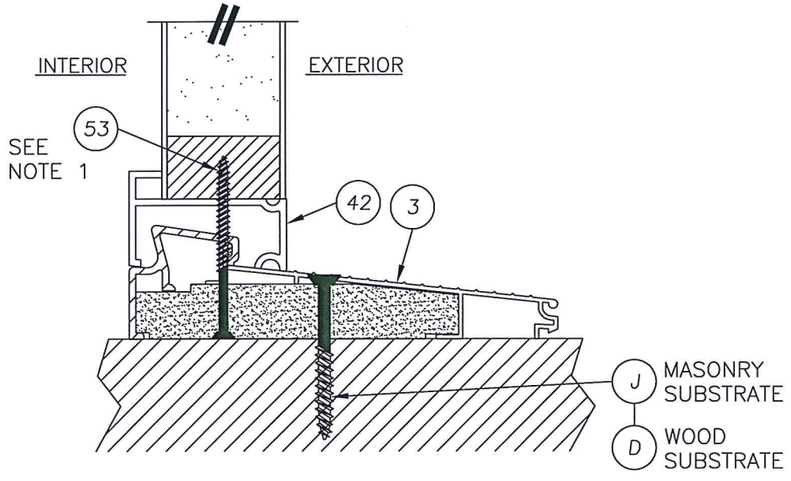
1/7 VERTICAL CROSS SECTION



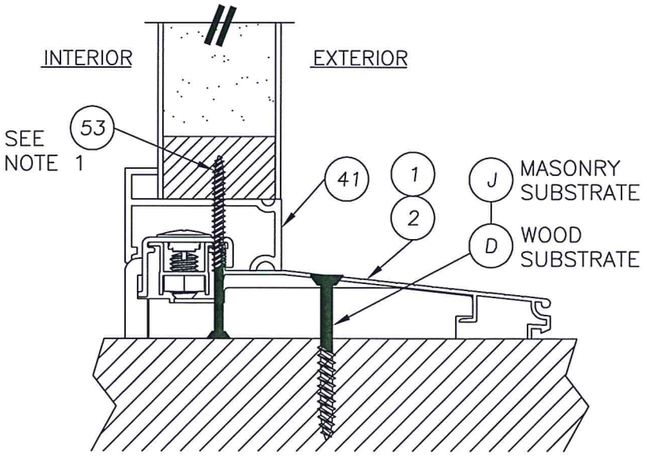
5/7 VERTICAL CROSS SECTION



4/7 VERTICAL CROSS SECTION



3/7 VERTICAL CROSS SECTION



6/7 VERTICAL CROSS SECTION

STATE OF TEXAS
LYNDON F SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

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

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: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 7 OF 10

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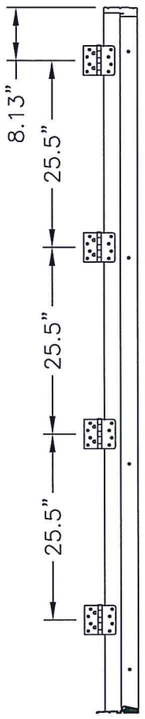
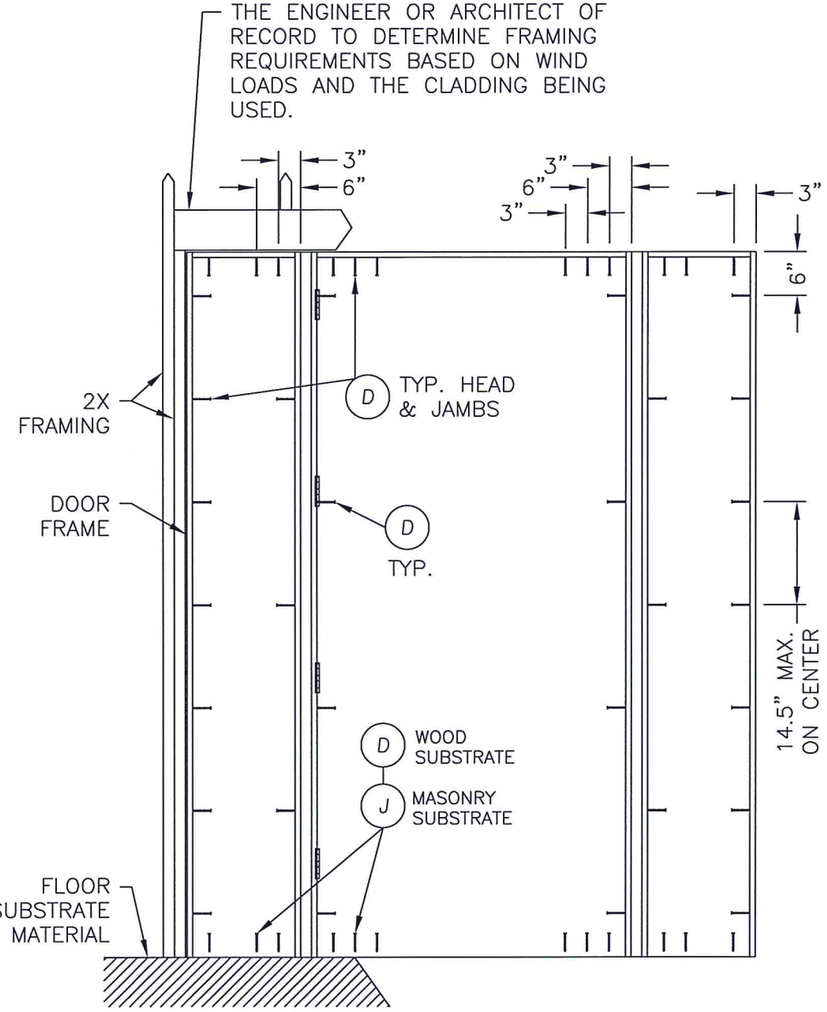
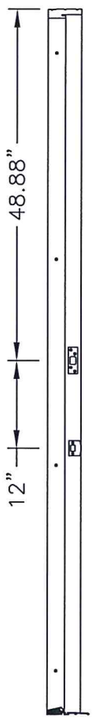


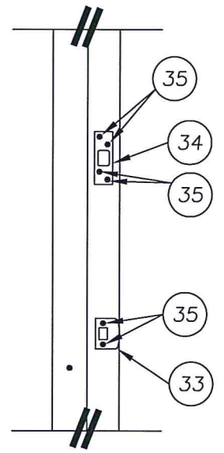
HINGE DETAIL



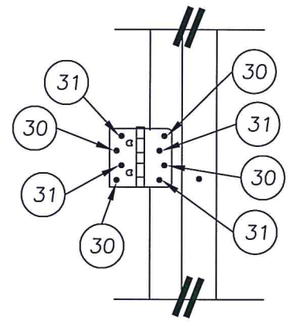
FRAME ANCHORING



STRIKE PLATE DETAIL



STRIKE PLATE DETAIL



HINGE 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"

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: *SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING*

PART OR ASSEMBLY: *FRAME ANCHORING*

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

DATE: 7/16/12
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 8 OF 10

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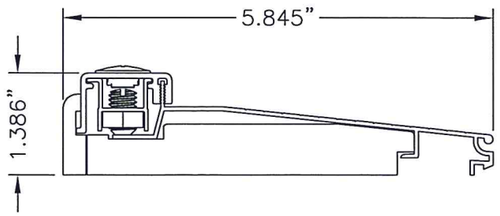
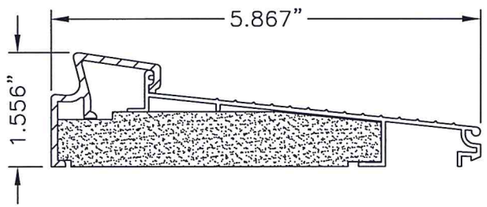
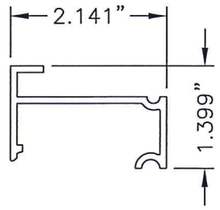


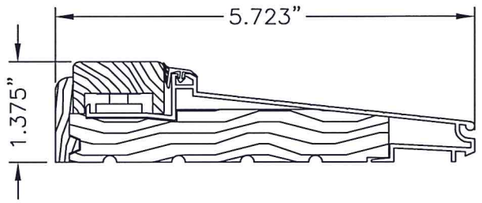
2 THRESHOLD
INSWING ADJUSTABLE



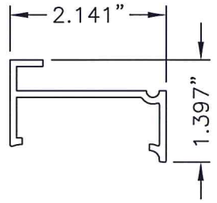
3 THRESHOLD
INSWING SELF–ADJUST



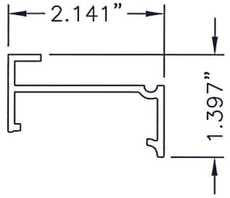
41 INSWING SIDELITE
SPACER



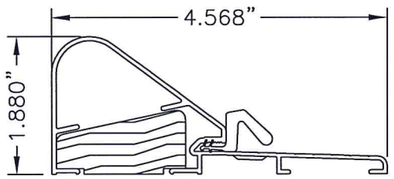
1 THRESHOLD
INSWING ADJUSTABLE



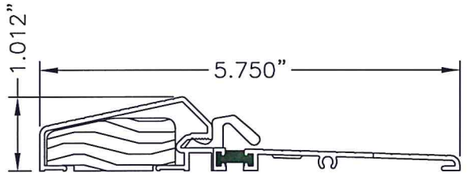
40 INSWING SIDELITE
SPACER



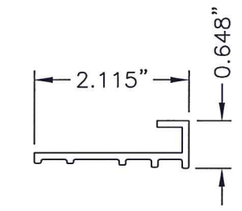
43 INSWING SIDELITE
SPACER



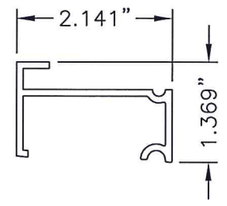
4 THRESHOLD
OUTSWING COASTAL



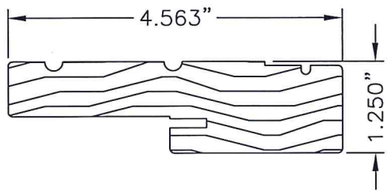
5 THRESHOLD
OUTSWING STANDARD



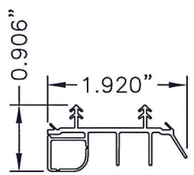
44 OUTSWING SIDELITE
SPACER



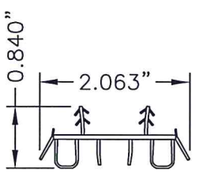
42 INSWING SIDELITE
SPACER



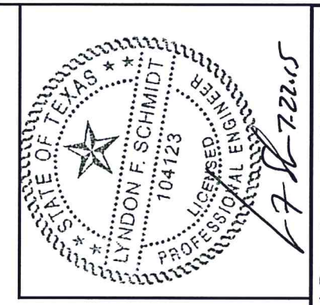
9 8 JAMB



7 SWEEP



52 SWEEP



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

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:
SINGLE OPAQUE
FIBERGLASS DOOR W/SIDELITES
"IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY:
COMPONENTS

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

DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX–4182
SHEET 9 OF 10

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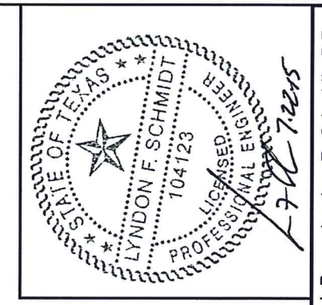
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	WOOD
D	#10 X 2-1/2" PFH WOOD SCREW	STEEL
G	KWIKSET 200 SERIES PASSAGE LOCK	STEEL
H	KWIKSET 600 SERIES DEADBOLT	STEEL
J	1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
O	1X MULLION (G >= 0.42)	WOOD
1	INSWING ADJUSTABLE THRESHOLD (IS300AJ)	ALUM./WOOD
2	INSWING THRESHOLD (IS300HP5)	ALUM./COMP.
3	INSWING SELF ADJUST THERMAL BREAK THRESHOLD (ISP30M)	ALUM./COMP.
4	OUTSWING COASTAL THRESHOLD	ALUM./WOOD
5	OUTSWING STANDARD THRESHOLD	ALUM./WOOD
7	DOOR BOTTOM SWEEP	VINYL
8	JAMB (OAK)	WOOD
9	JAMB (PINE)	WOOD
10	HINGE STILE (SMOOTH STAR)	WOOD
11	LOCK STILE (SMOOTH STAR)	LVL/WOOD
12	TOP RAIL (SMOOTH STAR)	PVC
13	BOTTOM RAIL (SMOOTH STAR)	PVC
14	PANEL REINFORCEMENT 0.023" THK. (SMOOTH STAR)	STEEL
15	DOOR SKIN 0.070" THK. (SMOOTH STAR) Fy = 6,000 PSI MIN.	FIBERGLASS
27	FOAM CORE	POLYURETHANE
28	WEATHERSTRIP	FOAM
29	HINGE	STEEL
30	#10 X 2-1/2" PFH SCREW	STEEL
31	#10 X 3/4" PFH SCREW	STEEL
32	#9 X 3" PFH WOOD SCREW	STEEL
33	LATCH STRIKE PLATE	STEEL
34	SECURITY STRIKE PLATE (SINGLE DOOR ONLY)	STEEL
35	#8 X 3" PFH SCREW	STEEL

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
40	INSWING SIDELITE SPACER FOR ADJUSTABLE THRESHOLD (DB14AJA)	PVC
41	INSWING SIDELITE SPACER FOR HP THRESHOLD (DB14HPA)	PVC
42	INSWING SIDELITE SPACER FOR SELF ADJUST THRESHOLD (DB14)	PVC
43	INSWING SIDELITE SPACER	PVC
44	OUTSWING SIDELITE SPACER	PVC
45	SIDELITE TOP RAIL	PVC
46	SIDELITE SKIN 0.070" THK. (SMOOTH STAR) Fy = 6,000 PSI MIN.	FIBERGLASS
47	SIDELITE SKIN 0.090" THK. (CLASSIC CRAFT) Fy = 6,000 PSI MIN.	FIBERGLASS
48	SIDELITE SKIN 0.070" THK. (FIBER CLASSIC) Fy = 6,000 PSI MIN.	FIBERGLASS
49	#6 X 1-3/4" PFH SCREW (LITE FRAME)	STEEL
50	LITE FRAME FIBER CLASSIC	PVC
51	LITE FRAME SMOOTH STAR	PVC
52	DOOR BOTTOM SWEEP	VINYL
53	#9 X 2-1/2" PFH WOOD SCREW (JAMB TO SIDELITE)	STEEL
54	3/4" INSULATED GLASS 1/8" TEMPERED – AIR – 1/8" TEMPERED	GLASS
55	1" INSULATED GLASS 1/8" TEMPERED – AIR – 1/8" TEMPERED	GLASS
56	1/2" INSULATED GLASS 1/8" TEMPERED – AIR – 1/8" TEMPERED	GLASS
57	GLAZING COMPOUND	SILICONE
58	SEALANT	SILICONE
59	#9 X 1" PPH SCREW (LITE FRAME)	STEEL
60	SIDELITE STILE	WOOD
61	SIDELITE BOTTOM RAIL	PVC
62	HINGE STILE (FIBER CLASSIC)	WOOD
63	LOCK STILE (FIBER CLASSIC)	LVL/WOOD
64	TOP RAIL (FIBER CLASSIC)	PVC
65	BOTTOM RAIL (FIBER CLASSIC)	PVC
66	PANEL REINFORCEMENT 0.023" THK. (FIBER CLASSIC)	STEEL
67	DOOR SKIN 0.070" THK. (FIBER CLASSIC) Fy = 6,000 PSI MIN.	FIBERGLASS



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

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY: BILL OF MATERIALS

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

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