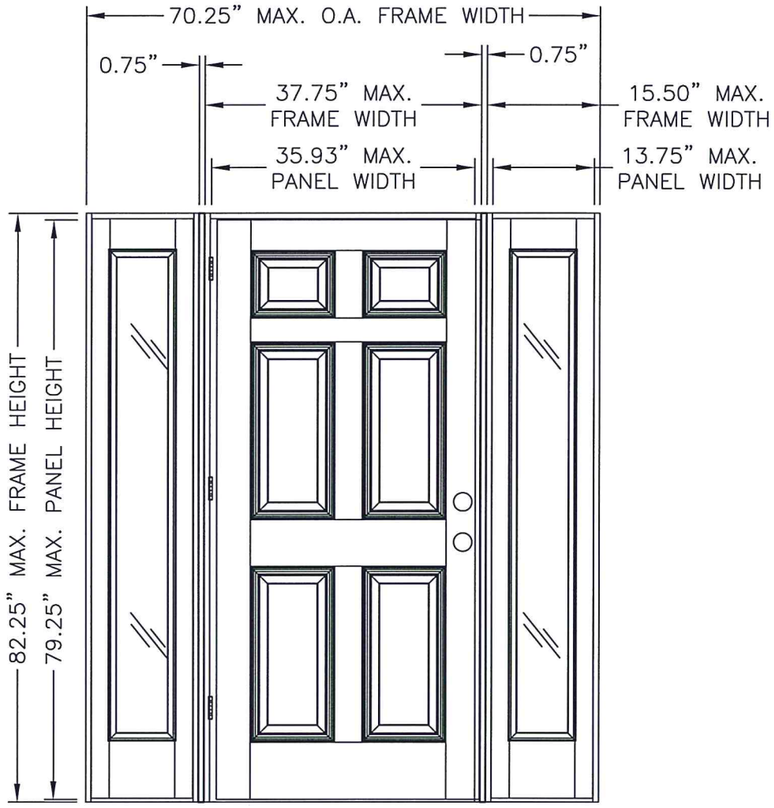
THERMA TRU®
118 INDUSTRIAL DR., EDGERTON, OH 43517
TEL. (419)298-1740

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

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



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

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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DOOR TYPE	SWING	OVERALL FRAME DIMENSION	OVERALL SIDELITE D.L.O. DIMENSION	DESIGN PRESSURE	
				POSITIVE	NEGATIVE
CLASSIC CRAFT	OUTSWING	70.25" X 80.75"	7.09" X 63.09"	+65.0	−65.0
	INSWING	70.25" X 82.25"		+65.0	−65.0
FIBER CLASSIC	OUTSWING	70.25" X 80.75"		+65.0	−65.0
	INSWING	70.25" X 82.25"		+65.0	−65.0
SMOOTH STAR	OUTSWING	70.25" X 80.75"		+65.0	−65.0
	INSWING	70.25" X 82.25"		+65.0	−65.0
CLASSIC CRAFT RUSTIC	OUTSWING	70.25" X 80.75"		+65.0	−65.0
	INSWING	70.25" X 82.25"		+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.
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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: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING

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

REVISIONS

NO.	DATE	BY
1	7/16/15	LFS

ADDED GENERAL NOTE 5.

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 1 OF 12

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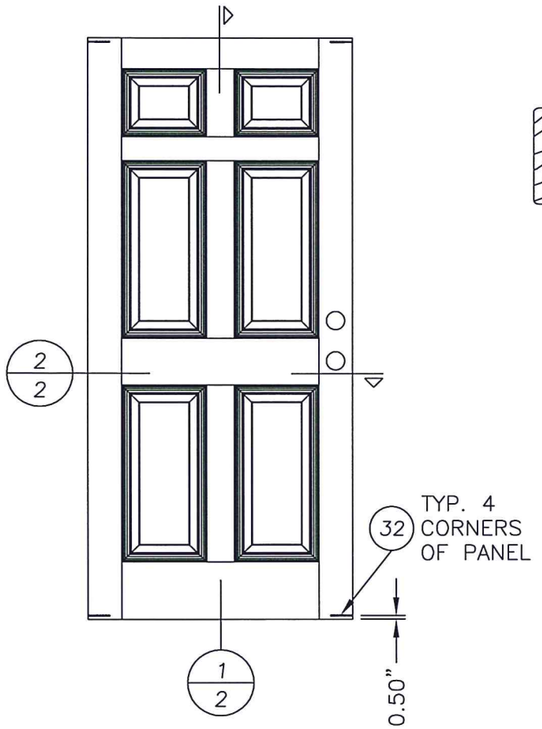
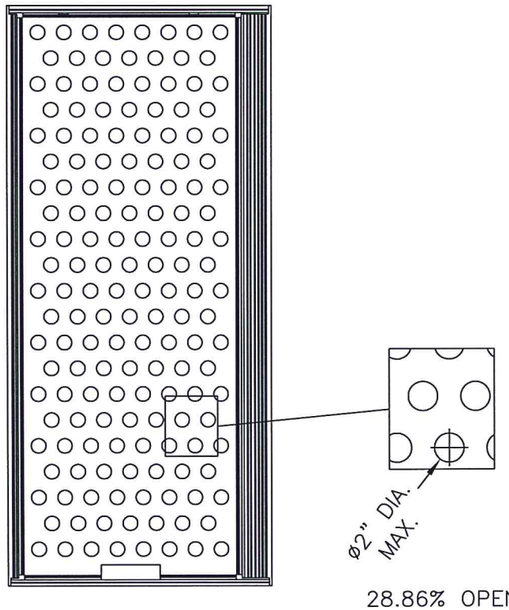
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 276 - 68 Opaque FG Imp IS - OS Sgls Dbls w-wo Non-Imp SL\C - Drawings\Current\TX-4184-89.dwg, TX-4187



SMOOTH STAR



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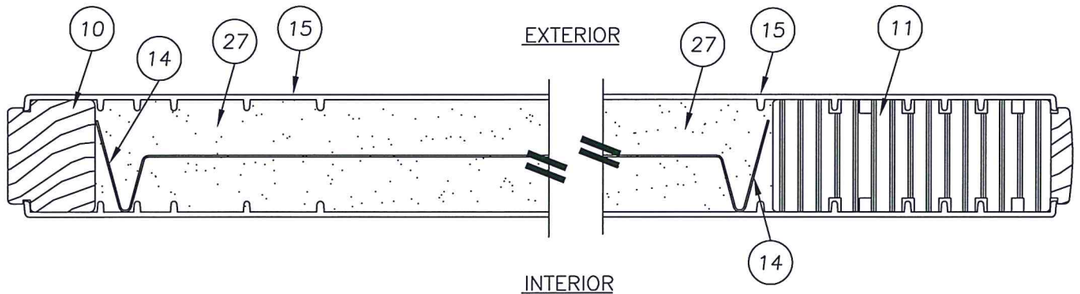
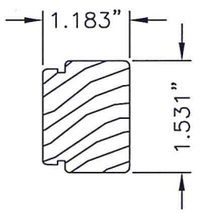
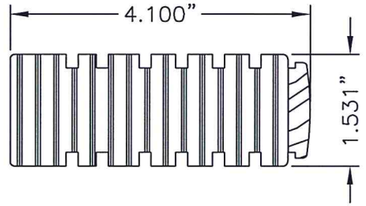
AREA MAX.



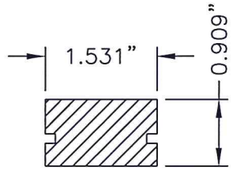
2/2 HORIZONTAL CROSS SECTION
SMOOTH STAR



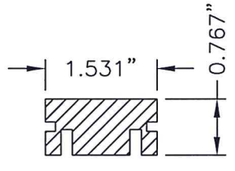
10 HINGE STILE
SMOOTH STAR



11 LOCK STILE
SMOOTH STAR



12 TOP RAIL
SMOOTH STAR



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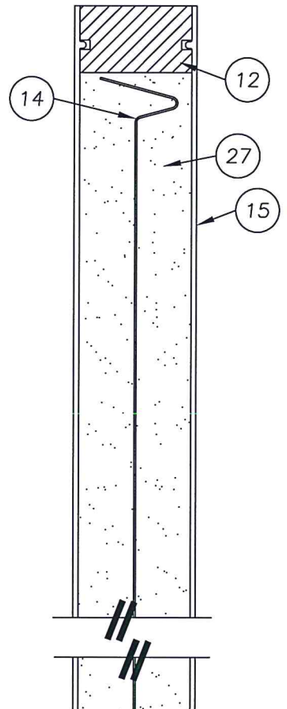

1/2 VERTICAL CROSS SECTION
SMOOTH STAR

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

PART OR ASSEMBLY: DOOR PANEL DETAILS (SMOOTH STAR)

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 2 OF 12

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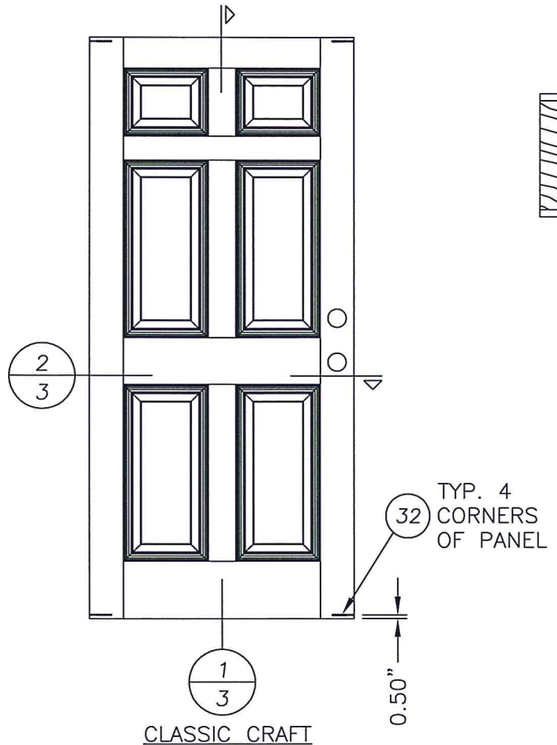
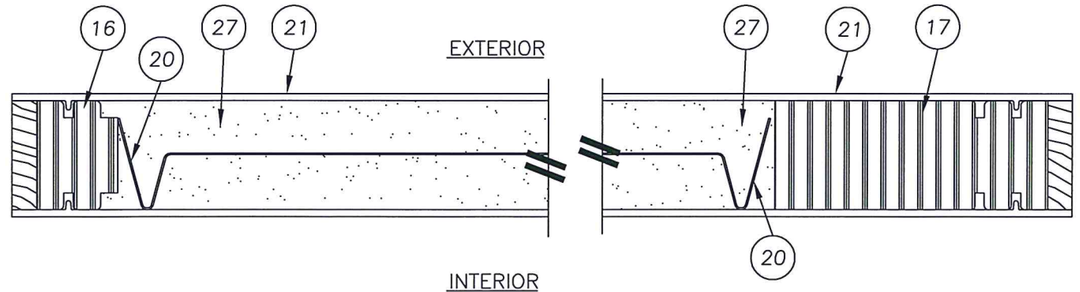
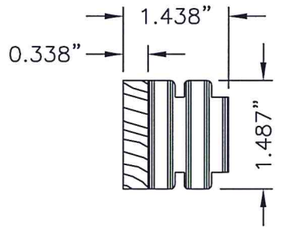


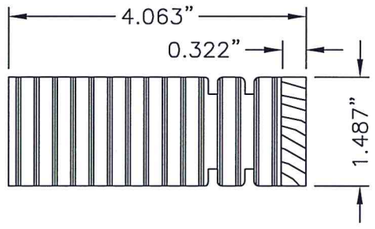
CLASSIC CRAFT



2/3 HORIZONTAL CROSS SECTION (CLASSIC CRAFT)



16 HINGE STILE
CLASSIC CRAFT



17 LOCK STILE
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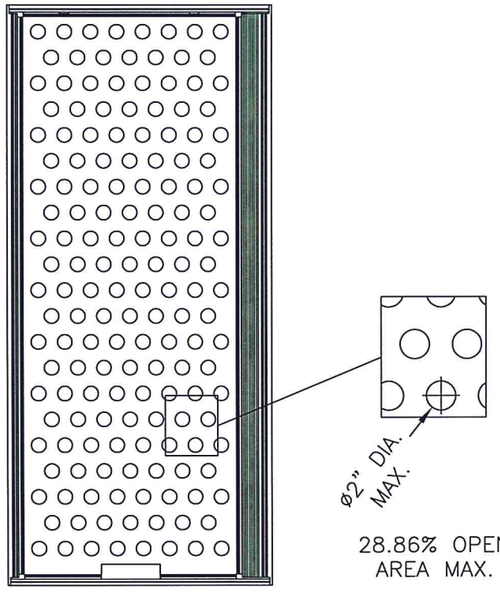
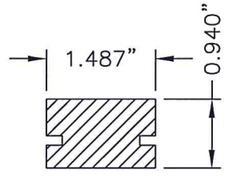
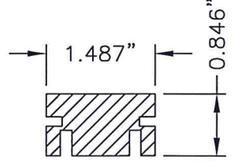


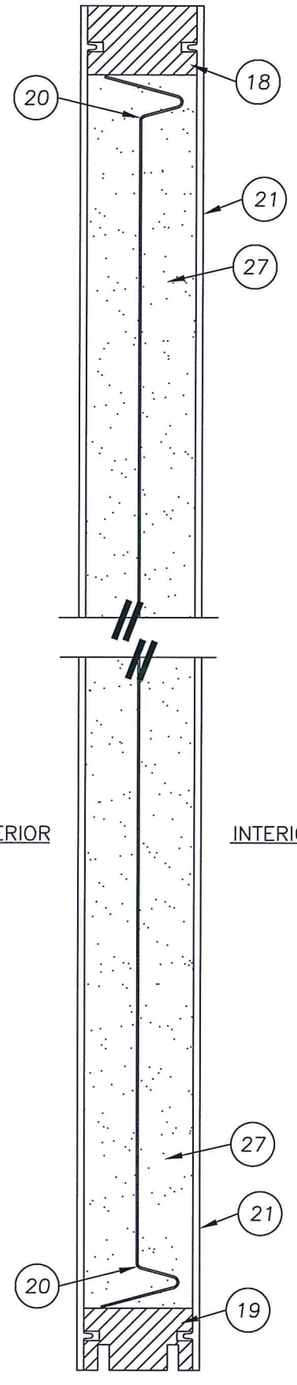
28.86% OPEN
AREA MAX.



18 TOP RAIL
CLASSIC CRAFT



19 BOTTOM RAIL
CLASSIC CRAFT



1/3 VERTICAL CROSS SECTION (CLASSIC CRAFT)

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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 (CLASSIC CRAFT)

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 3 OF 12

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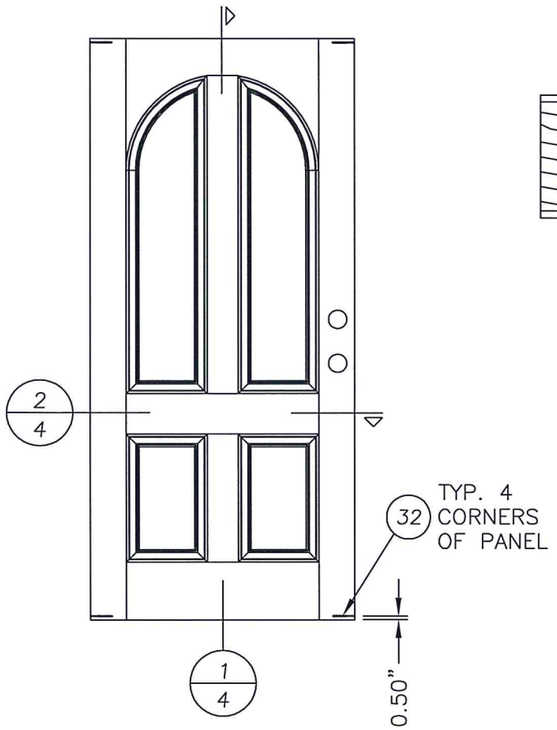
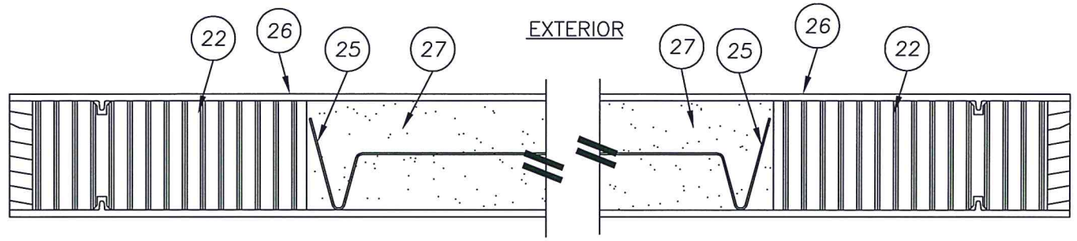


CLASSIC CRAFT RUSTIC



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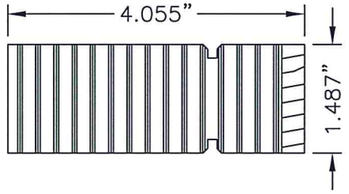
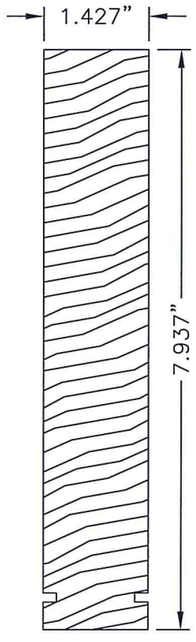
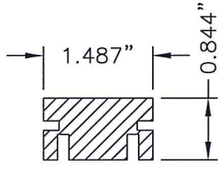


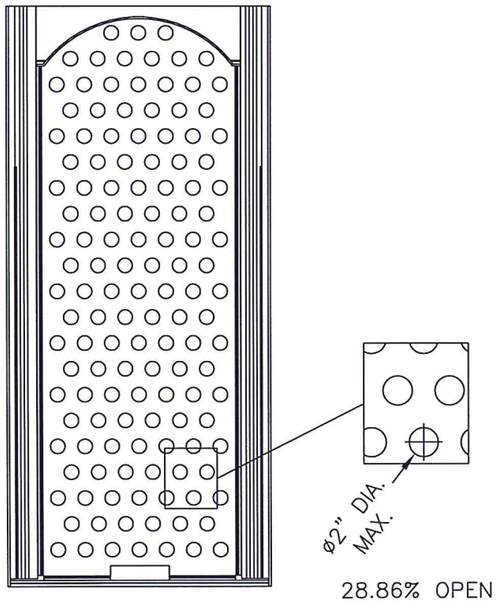
22 LOCK & HINGE STILE
CLASSIC CRAFT RUSTIC



23 TOP RAIL
CLASSIC CRAFT RUSTIC



24 BOTTOM RAIL
CLASSIC CRAFT RUSTIC



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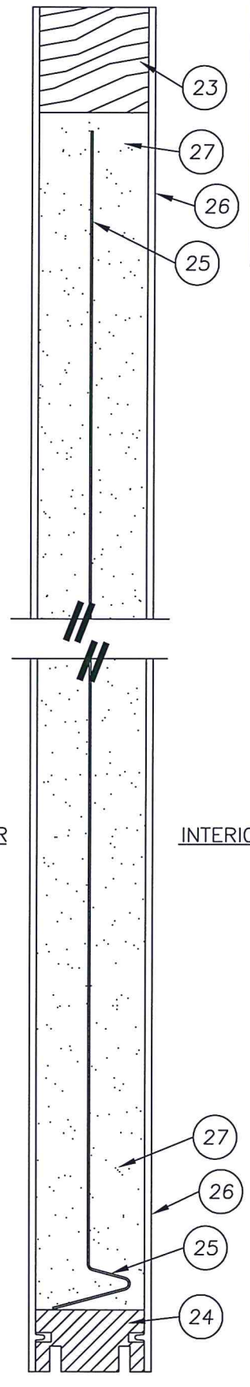

1/4 VERTICAL CROSS SECTION (CLASSIC CRAFT RUSTIC)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
REGISTERED PROFESSIONAL ENGINEER

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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 (CLASSIC CRAFT RUSTIC)

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 4 OF 12

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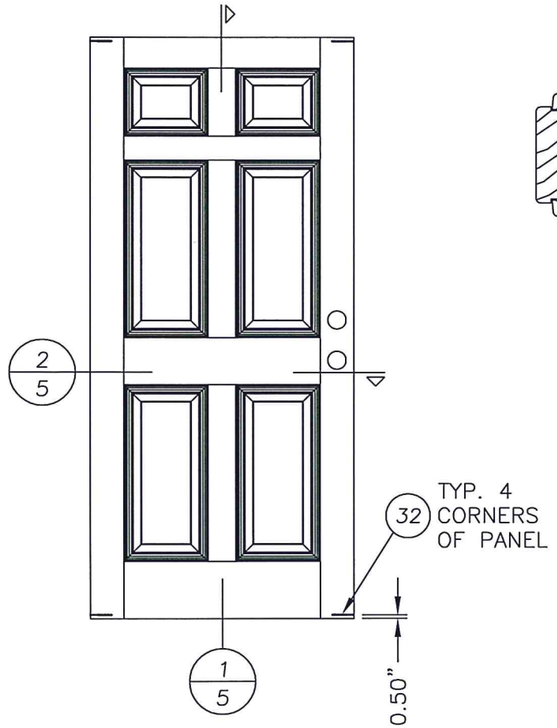
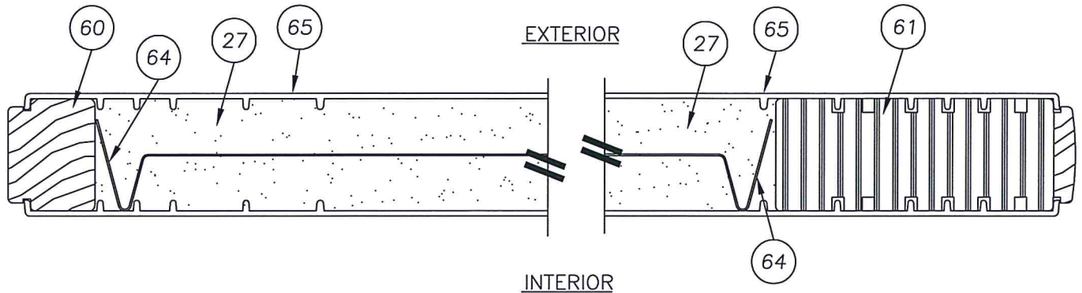
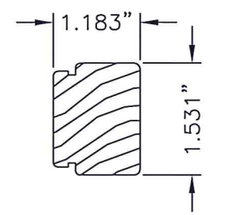


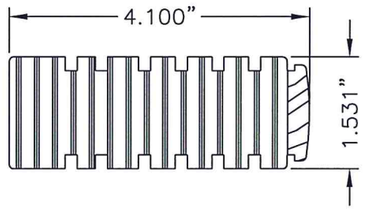
CLASSIC CRAFT



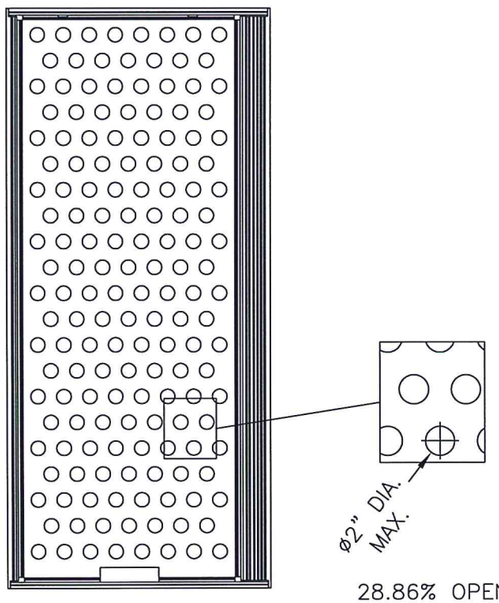
2/5 HORIZONTAL CROSS SECTION
FIBER CLASSIC



60 HINGE STILE
FIBER CLASSIC



61 LOCK STILE
FIBER CLASSIC



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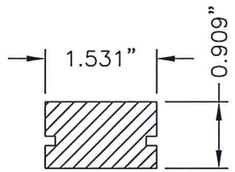
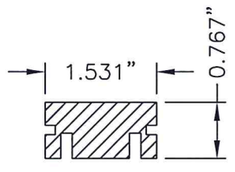


62 TOP RAIL
FIBER CLASSIC



63 BOTTOM RAIL
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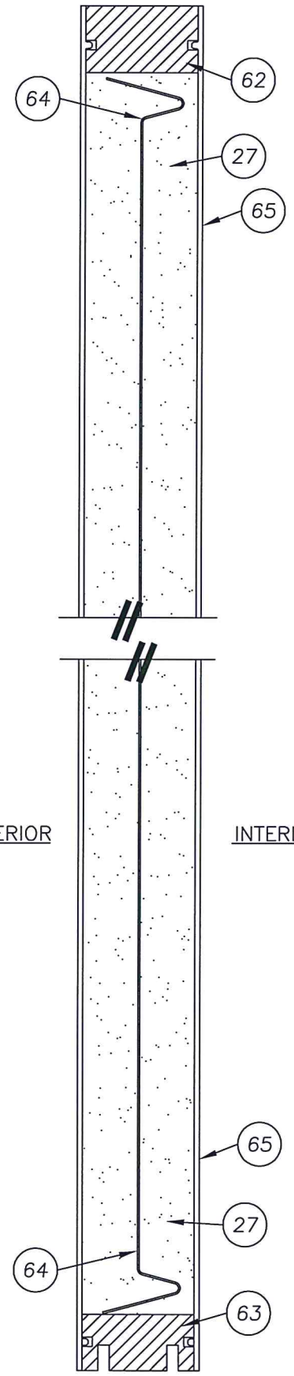

1/5 VERTICAL CROSS SECTION
FIBER CLASSIC

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

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

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

PART OR ASSEMBLY: DOOR PANEL DETAILS (FIBER CLASSIC)

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 5 OF 12

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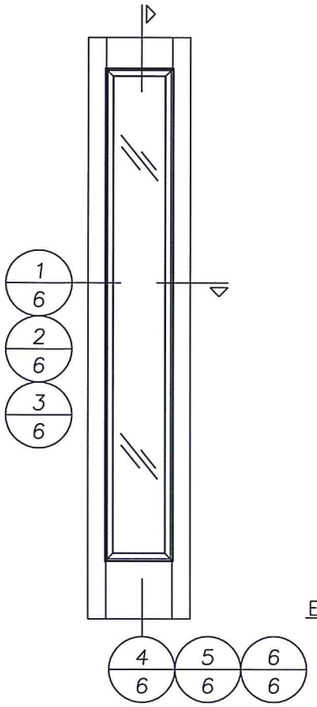
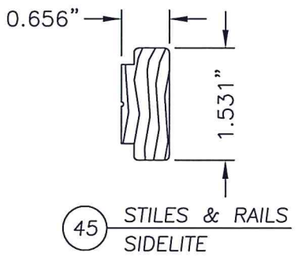
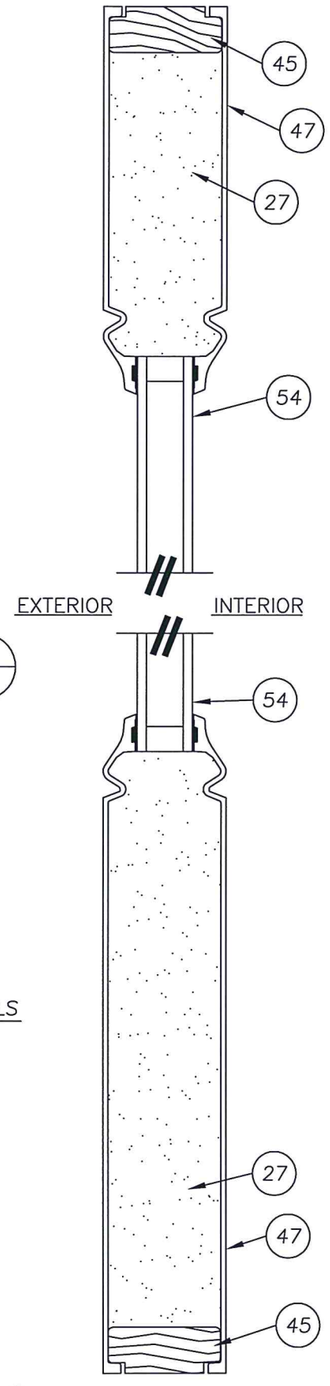
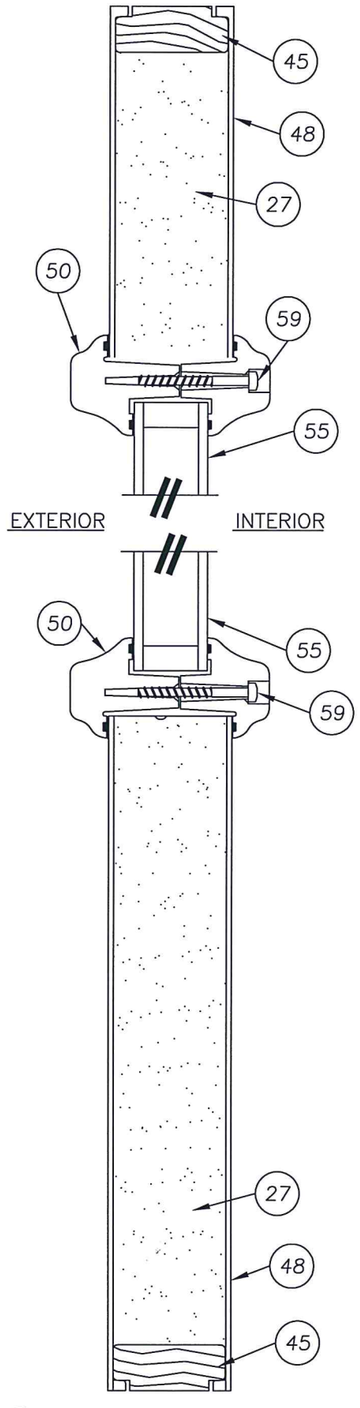




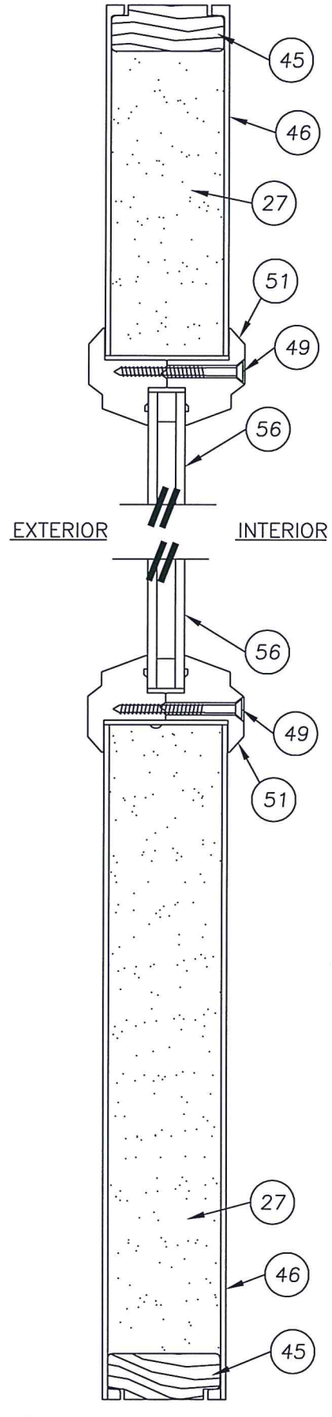
45 STILES & RAILS SIDELITE



4/6 VERTICAL CROSS SECTION (CLASSIC CRAFT)



5/6 VERTICAL CROSS SECTION (FIBER CLASSIC)



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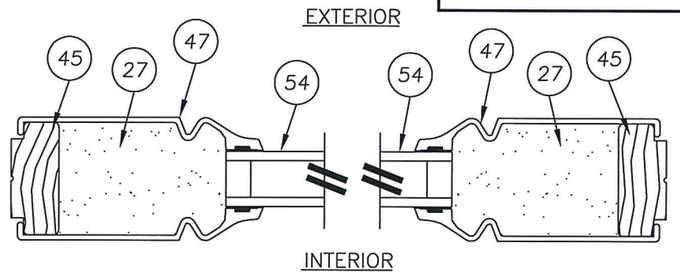
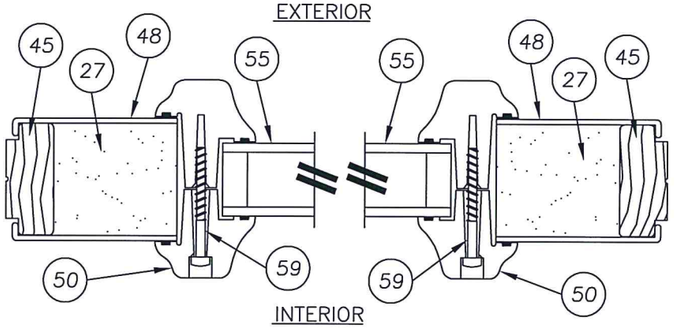
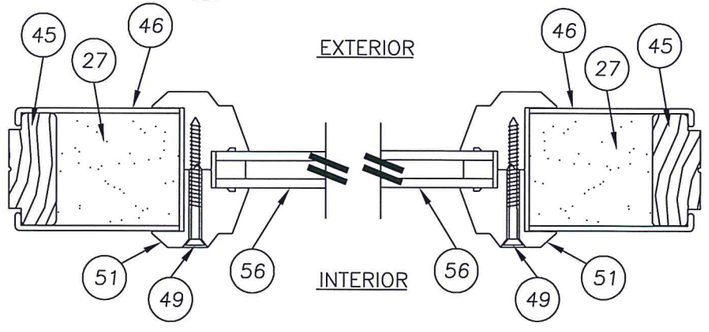


1/6 HORIZONTAL CROSS SECTION (CLASSIC CRAFT)



2/6 HORIZONTAL CROSS SECTION (FIBER CLASSIC)



3/6 HORIZONTAL CROSS SECTION (SMOOTH STAR)

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

R|W BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197

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

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

7-22-15

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

PART OR ASSEMBLY: SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 6 OF 12

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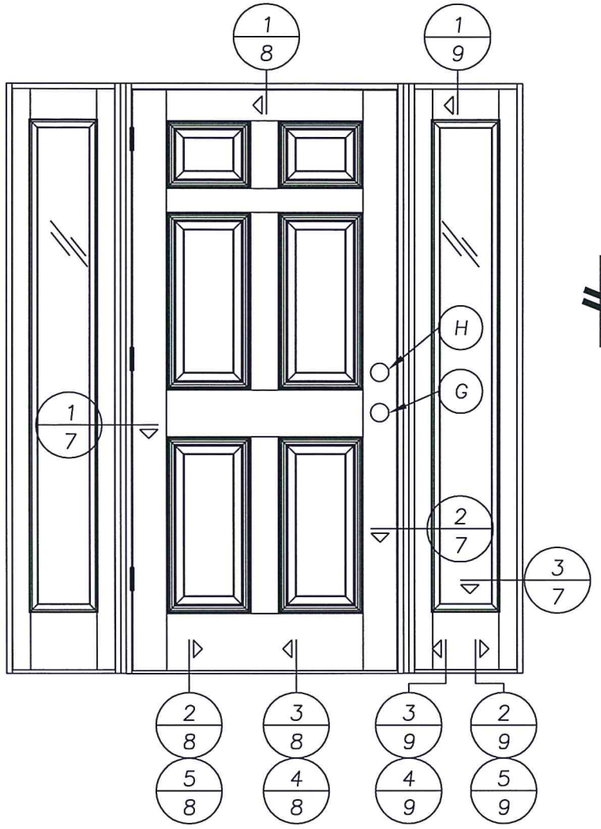
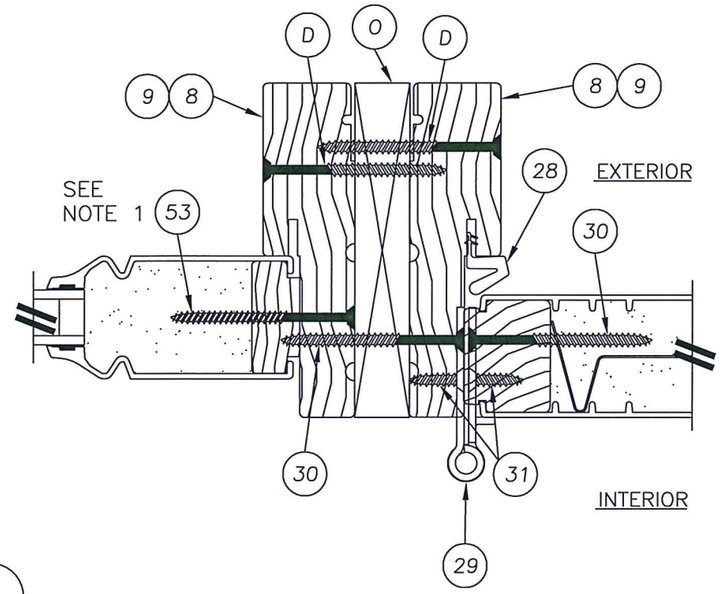
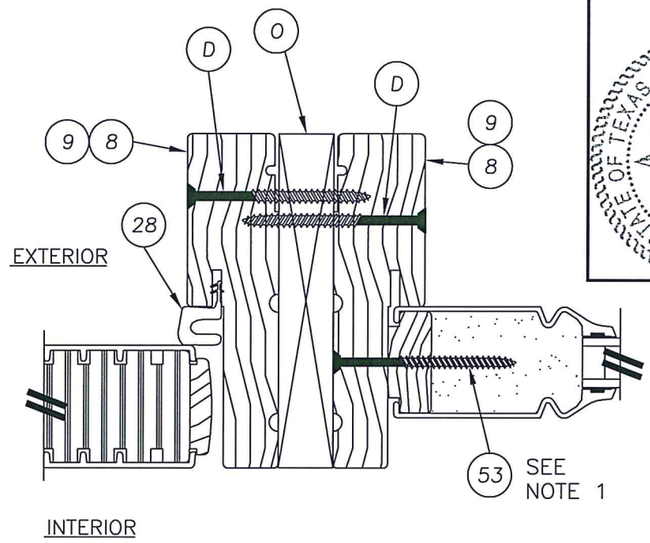




1/7 HORIZONTAL CROSS SECTION

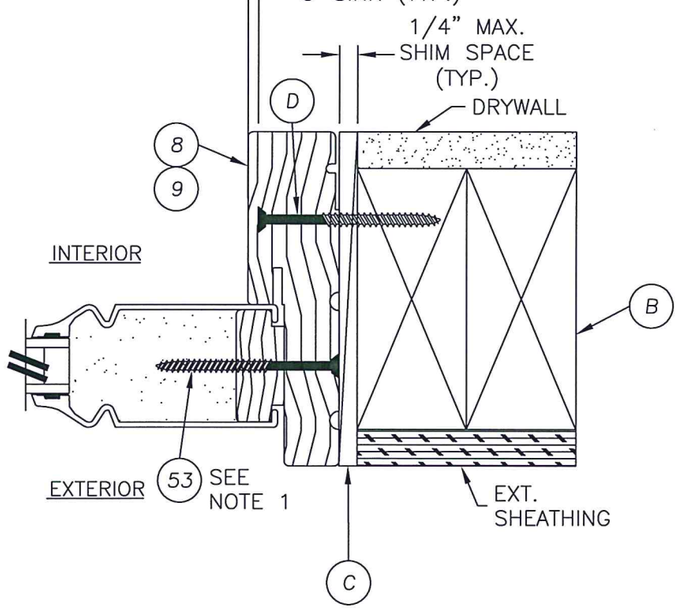
INSWING SHOWN – OUTSWING ALSO APPROVED
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES



2/7 HORIZONTAL CROSS SECTION

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

NOTE:
1. SIDELITE ASSEMBLY SCREWS LOCATED 4" FROM ENDS AND 5 MORE EQUALLY SPACED (7 TOTAL).



3/7 HORIZONTAL CROSS SECTION

OUTSWING SHOWN – INSWING ALSO APPROVED
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

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: *HORIZONTAL CROSS SECTIONS & GLAZING DETAILS*

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
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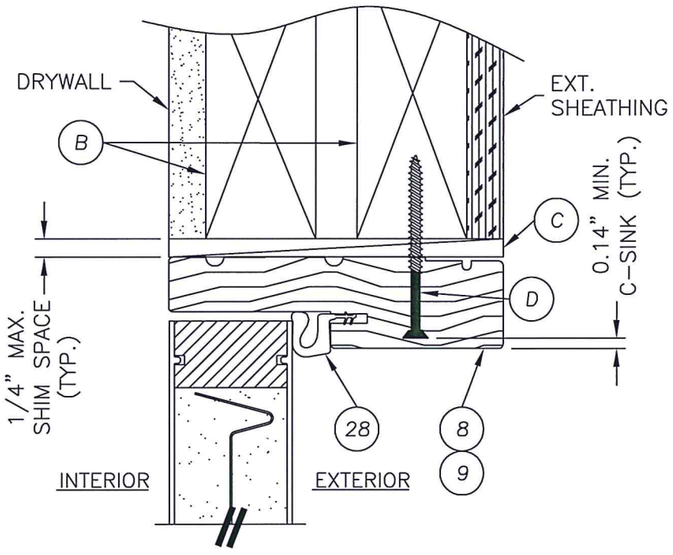
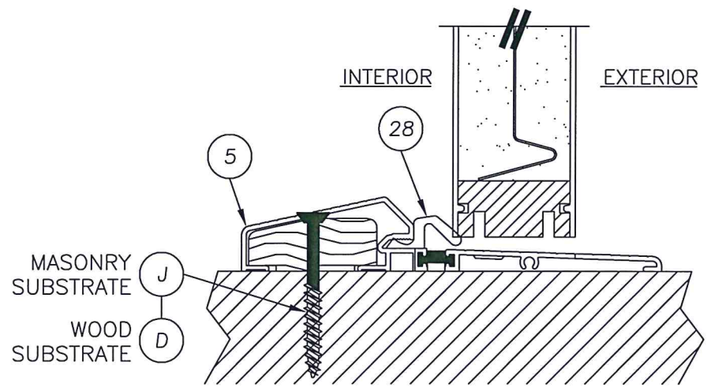


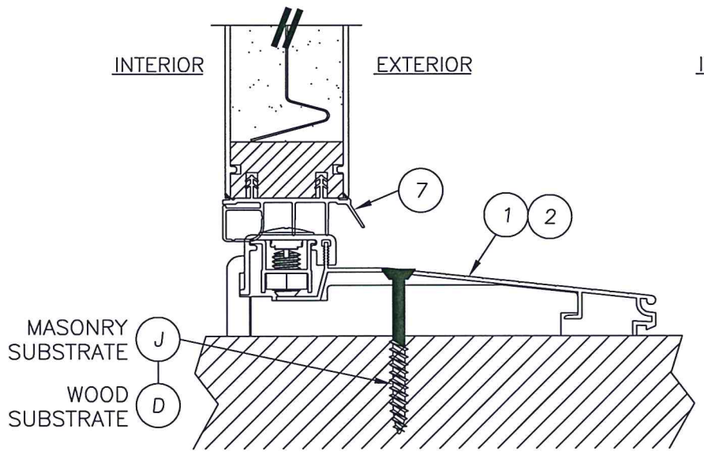
1/8 VERTICAL CROSS SECTION

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



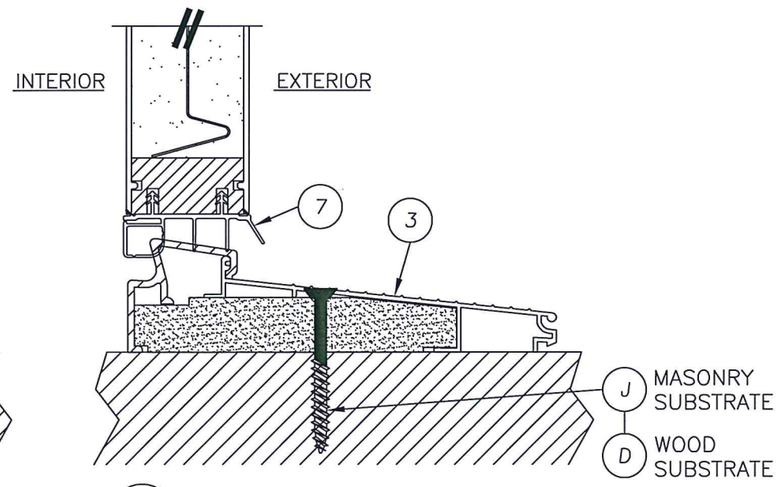
2/8 VERTICAL CROSS SECTION

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



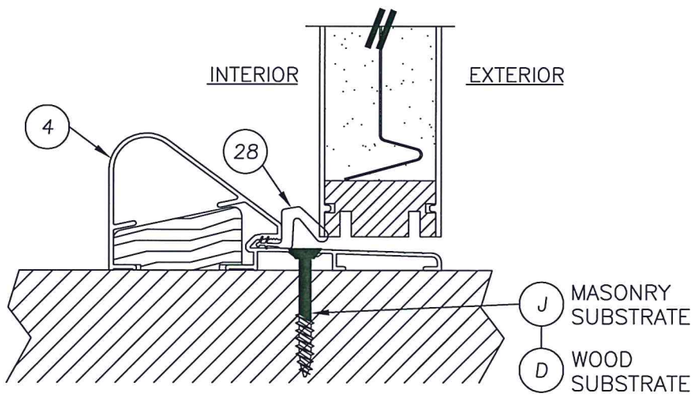
3/8 VERTICAL CROSS SECTION

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



4/8 VERTICAL CROSS SECTION

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



5/8 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

2-27-15

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

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
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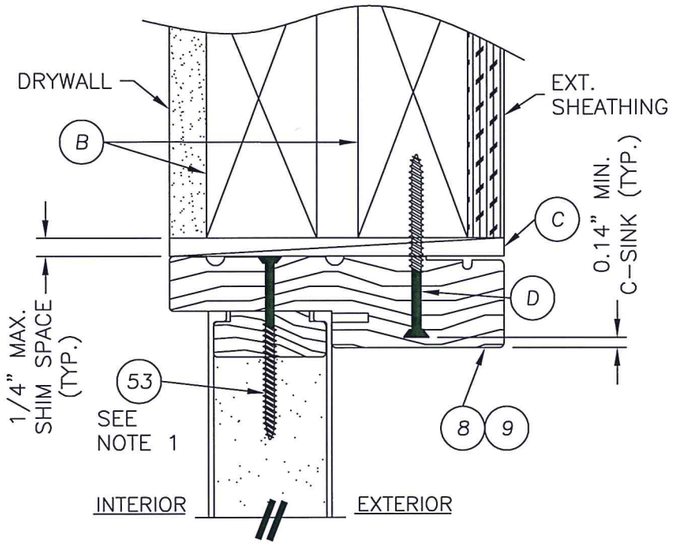
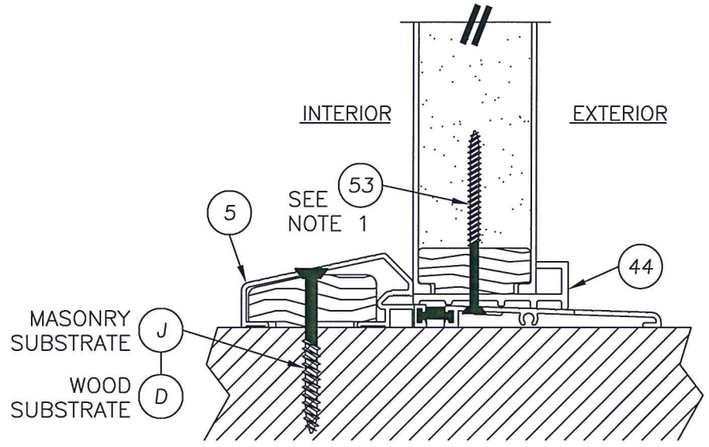
NOTE:
1. SIDELITE ASSEMBLY SCREWS LOCATED 4.25" FROM ENDS (2 TOTAL).



1/9 VERTICAL CROSS SECTION
INSWING SHOWN – OUTSWING ALSO APPROVED



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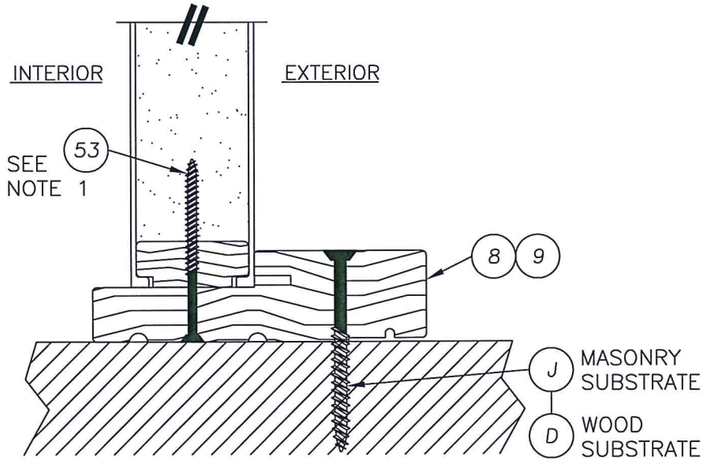

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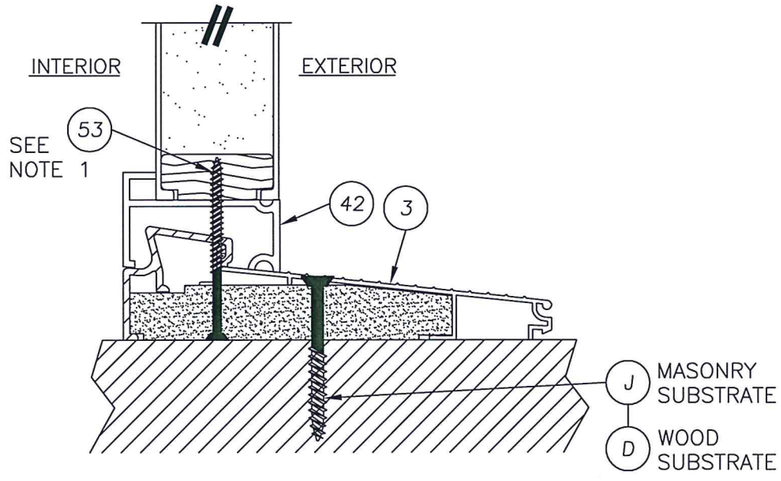

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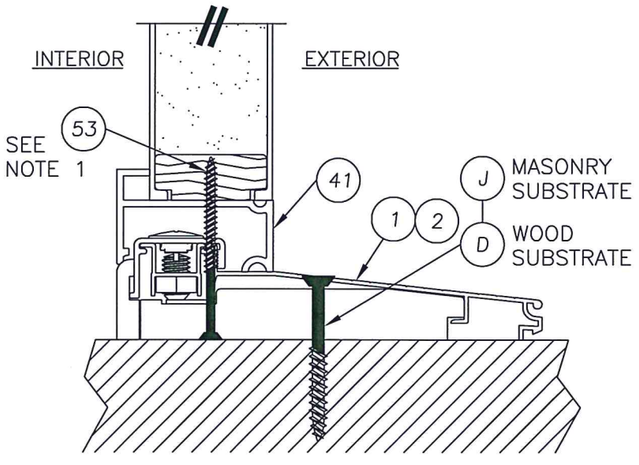

5/9 VERTICAL CROSS SECTION

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
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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: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
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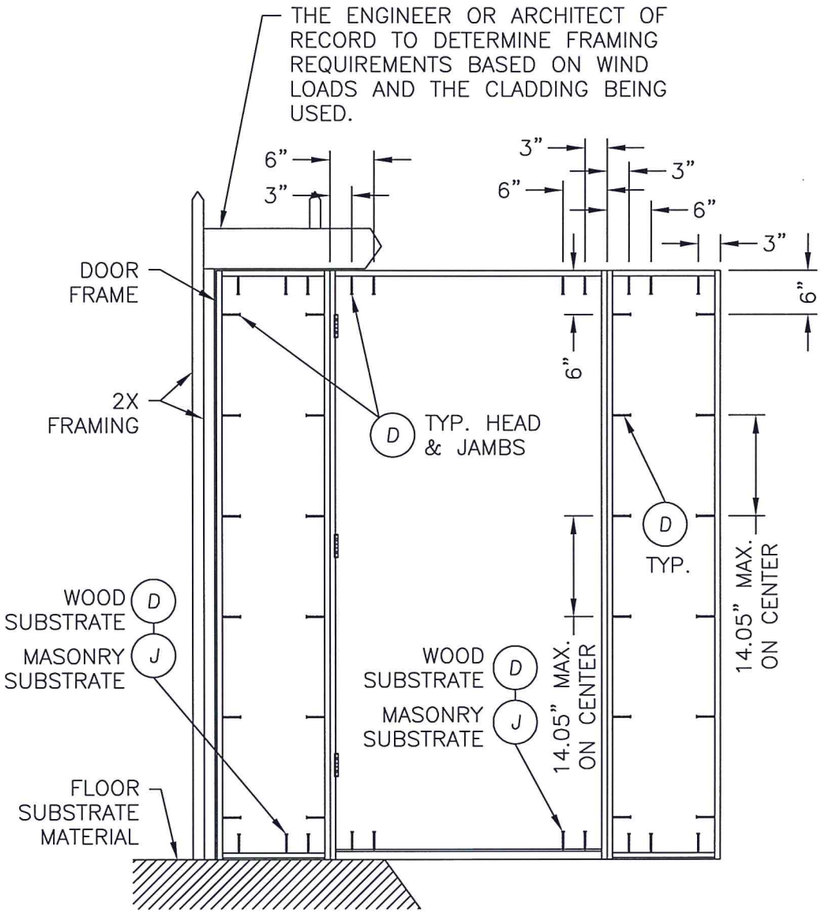
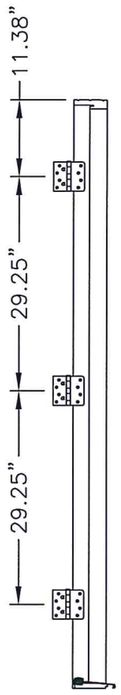


FRAME ANCHORING
OUTSWING ONLY

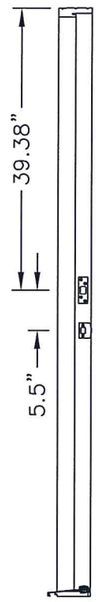
CONCRETE ANCHOR NOTES:

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:*

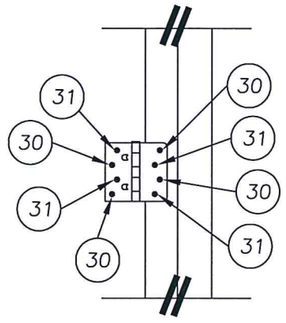
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



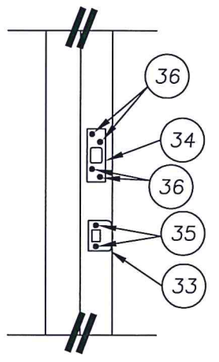
HINGE
LOCATIONS



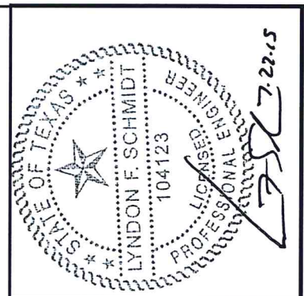
STRIKE PLATE
LOCATIONS



HINGE DETAIL



STRIKE PLATE DETAIL



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	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4187
SHEET 10 OF 12

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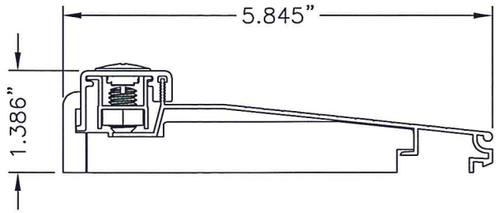
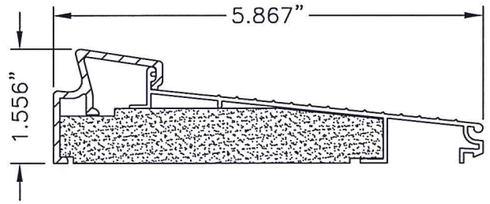
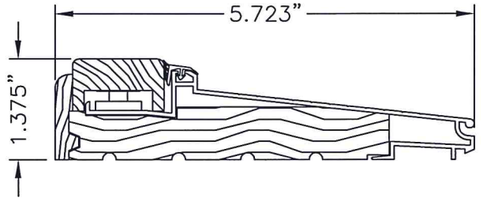


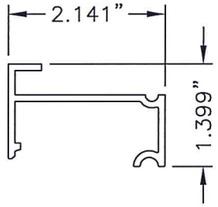
2 THRESHOLD
INSWING ADJUSTABLE



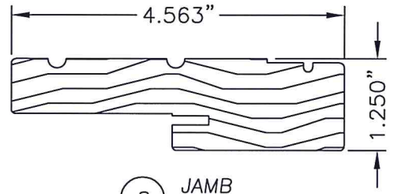
3 THRESHOLD
INSWING SELF–ADJUST



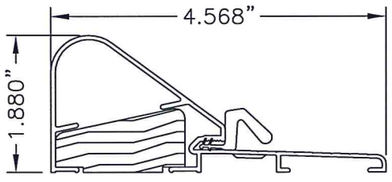
1 THRESHOLD
INSWING ADJUSTABLE



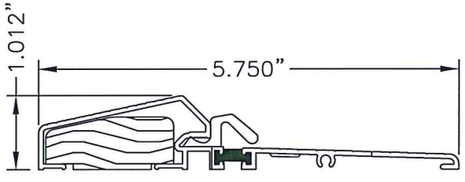
41 INSWING SIDELITE
SPACER



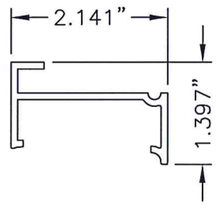
9 8 JAMB



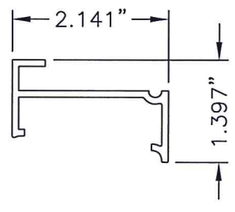
4 THRESHOLD
OUTSWING COASTAL



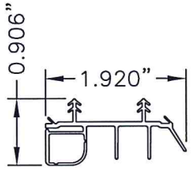
5 THRESHOLD
OUTSWING STANDARD



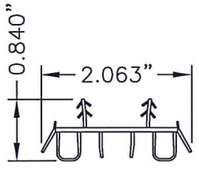
40 INSWING SIDELITE
SPACER



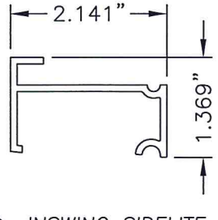
43 INSWING SIDELITE
SPACER



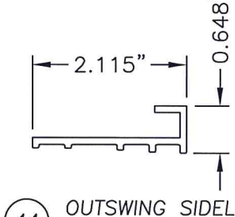
7 SWEEP



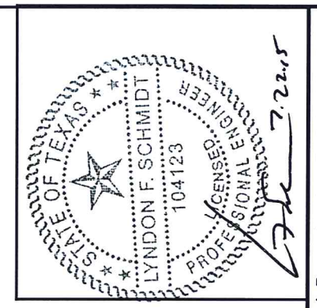
52 SWEEP



42 INSWING SIDELITE
SPACER



44 OUTSWING SIDELITE
SPACER



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: *COMPONENTS*

NO.	DATE	REVISIONS	BY
1	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX–4187
SHEET 11 OF 12

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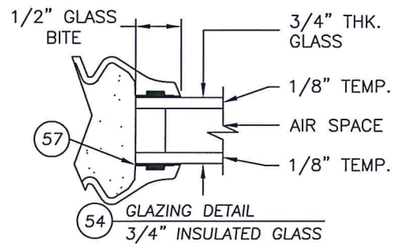
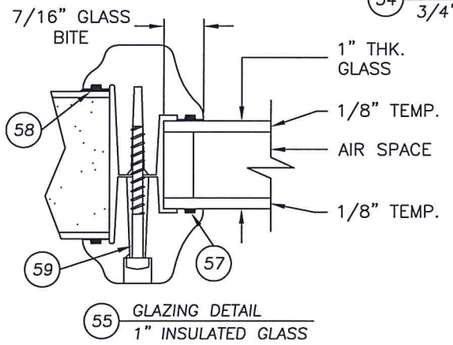
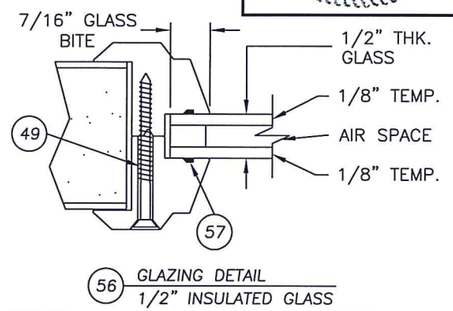
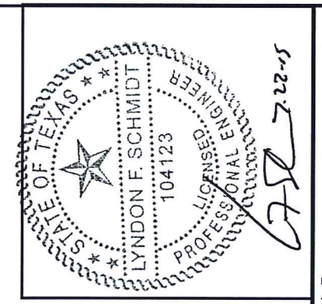
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	WOOD
D	#10 X 2–1/2" PFH WOOD SCREW	STEEL
G	KWIKSET 200 SERIES PASSAGE LOCK	STEEL
H	KWIKSET 600 SERIES DEADBOLT	STEEL
J	1/4" ELCO OR ITW CONCRETE SCREW (1–3/4" MIN. EMB.)	STEEL
O	1X MULLION (G >= 0.42)	WOOD
1	INSWING ADJUSTABLE THRESHOLD (IS300AJ)	ALUM./WOOD
2	INSWING THRESHOLD (IS300HP5)	–
3	INSWING SELF ADJUST THERMAL BREAK THRESHOLD (ISP30M)	ALUM./COMP.
4	OUTSWING COASTAL THRESHOLD	ALUM./WOOD
7	DOOR BOTTOM SWEEP	VINYL
8	JAMB (PINE)	WOOD
9	JAMB (OAK)	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
16	HINGE STILE (CLASSIC CRAFT)	WOOD/LVL
17	LOCK STILE (CLASSIC CRAFT)	WOOD/LVL
18	TOP RAIL (CLASSIC CRAFT)	PVC
19	BOTTOM RAIL (CLASSIC CRAFT)	PVC
20	PANEL REINFORCEMENT 0.023" THK. (CLASSIC CRAFT)	STEEL
21	DOOR SKIN 0.090" THK. (CLASSIC CRAFT) Fy = 6,000 PSI MIN.	FIBERGLASS
22	LOCK & HINGE STILE (CLASSIC CRAFT RUSTIC)	WOOD/LVL
23	TOP RAIL (CLASSIC CRAFT RUSTIC)	WOOD
24	BOTTOM RAIL (CLASSIC CRAFT RUSTIC)	PVC
25	PANEL REINFORCEMENT 0.023" THK. (CLASSIC CRAFT RUSTIC)	STEEL
26	DOOR SKIN 0.090" THK. (CC RUSTIC) 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
36	#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 STILES & RAILS	WOOD
46	SIDELITE SKIN 0.070" THK. (SMOOTH STAR)	FIBERGLASS
47	SIDELITE SKIN 0.090" THK. (CLASSIC CRAFT)	FIBERGLASS
48	SIDELITE SKIN 0.070" THK. (FIBER CLASSIC)	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	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	HINGE STILE (FIBER CLASSIC)	WOOD
61	LOCK STILE (FIBER CLASSIC)	LVL/WOOD
62	TOP RAIL (FIBER CLASSIC)	PVC
63	BOTTOM RAIL (FIBER CLASSIC)	PVC
64	PANEL REINFORCEMENT 0.023" THK. (FIBER CLASSIC)	STEEL
65	DOOR SKIN 0.072" THK. (FIBER CLASSIC) Fy = 6,000 PSI MIN.	FIBERGLASS



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:
BILL OF MATERIALS & GLAZING DETAILS

NO.	DATE	REVISIONS	BY
1.	7/16/15	ADDED GENERAL NOTE 5.	LFS

DATE: 07/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX–4187
SHEET 12 OF 12

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