

THERMATRU®

118 INDUSTRIAL DR., EDGERTON, OH 43517

SMOOTH-STAR & FIBER-CLASSIC

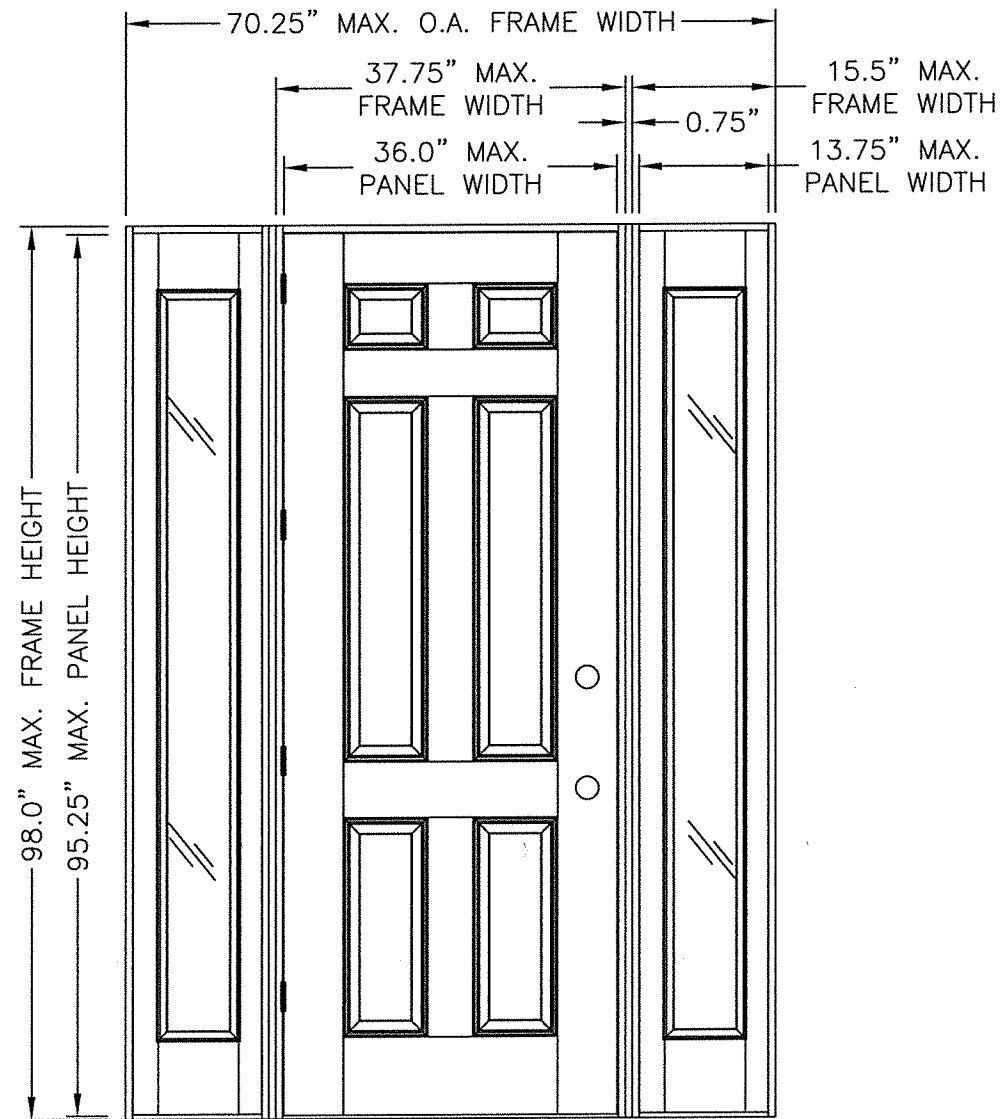
SINGLE "IMPACT" DOOR WITH "NON-IMPACT" SIDELITES IN SWING / OUT SWING

EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

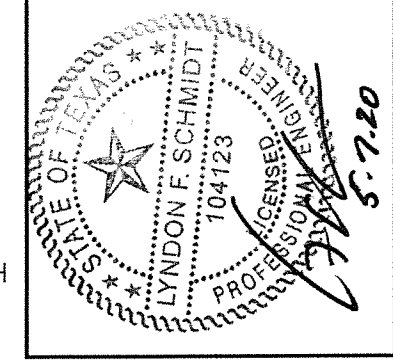
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, the opaque door does not require impact protection and meets missile level "D" as defined in ASTM E 1996. The sidelites are required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.
5. Fiber-Classic and Smooth-Star Door and Sidelite panels require the use of "J" part numbers. These door and sidelite panels must be stained or painted within six months of installation.

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5	HORIZONTAL CROSS SECTIONS & GLAZING DETAILS
6	VERTICAL CROSS SECTIONS
7	VERTICAL CROSS SECTIONS
8	FRAME ANCHORING
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 96.5"	6.75"	+65.0	-65.0
	IN SWING	70.25" X 98.0"		+65.0	-65.0
FIBER-CLASSIC	OUTSWING	70.25" X 96.5"	79.0"	+65.0	-65.0
	IN SWING	70.25" X 98.0"		+65.0	-65.0



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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairco FL 33595
Phone No.: 813.659.9197

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

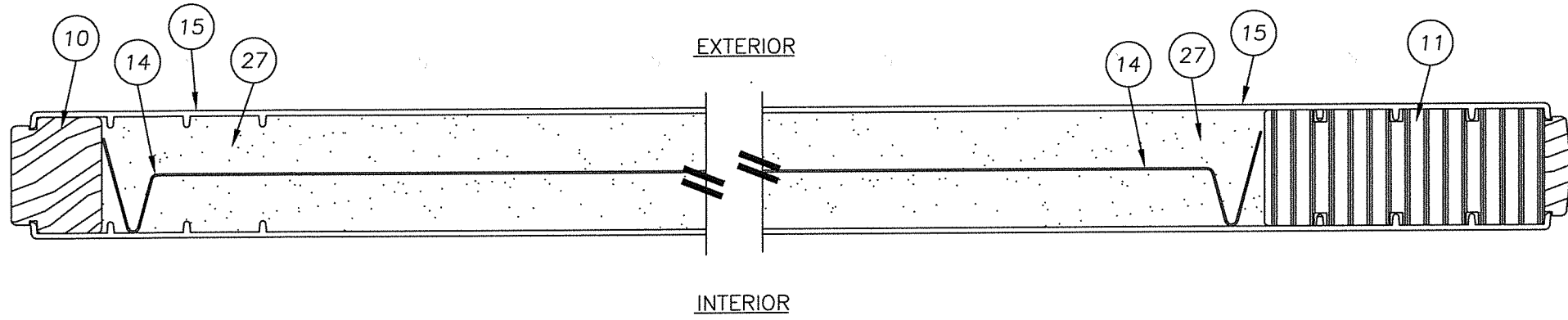
PRODUCT: SINGLE OPAQUE
FIBERGLASS DOOR W/ SIDELITES
"IMPACT" IN SWING / OUT SWING

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

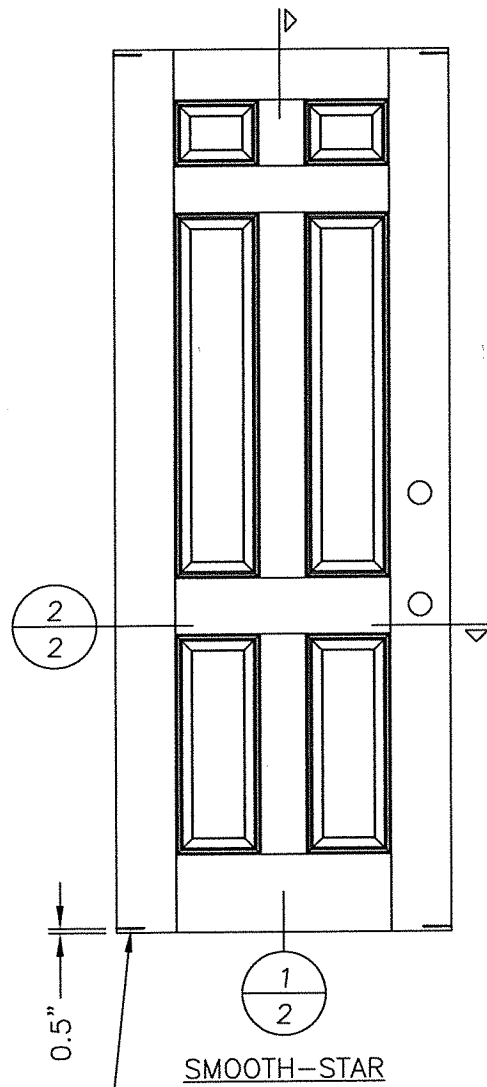
NO.	DATE	BY	REVISIONS
2	5/07/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	LFS	ADDED GENERAL NOTE 5.

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

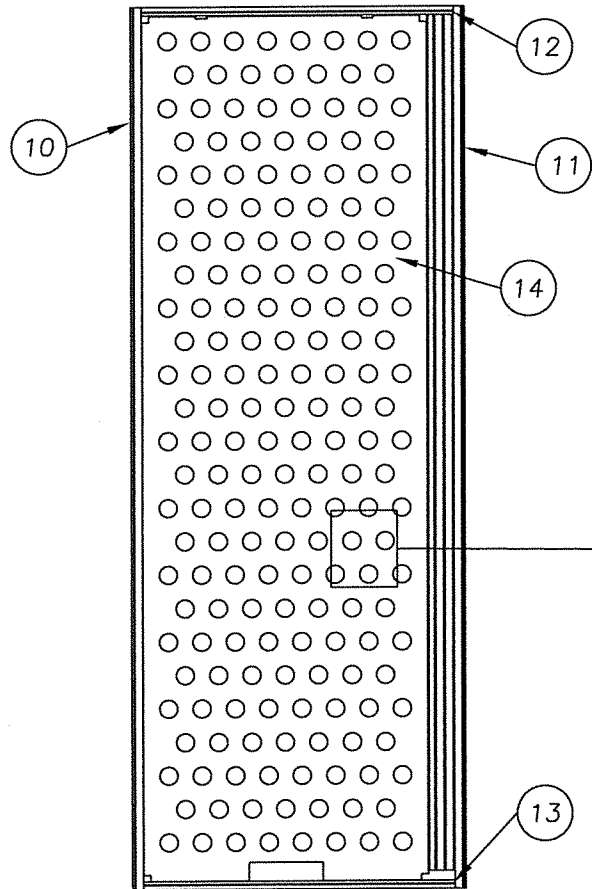
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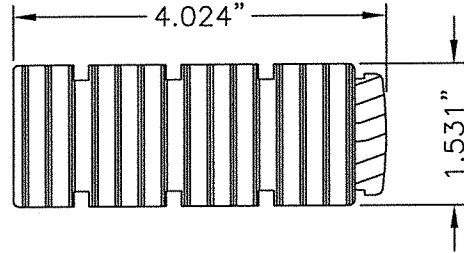
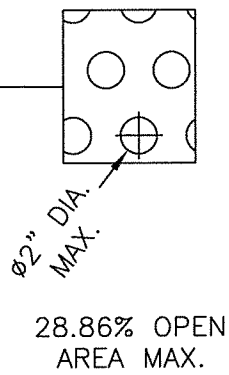
2 HORIZONTAL CROSS SECTION
2 SMOOTH-STAR



TYP. 4
32 CORNERS
OF PANEL



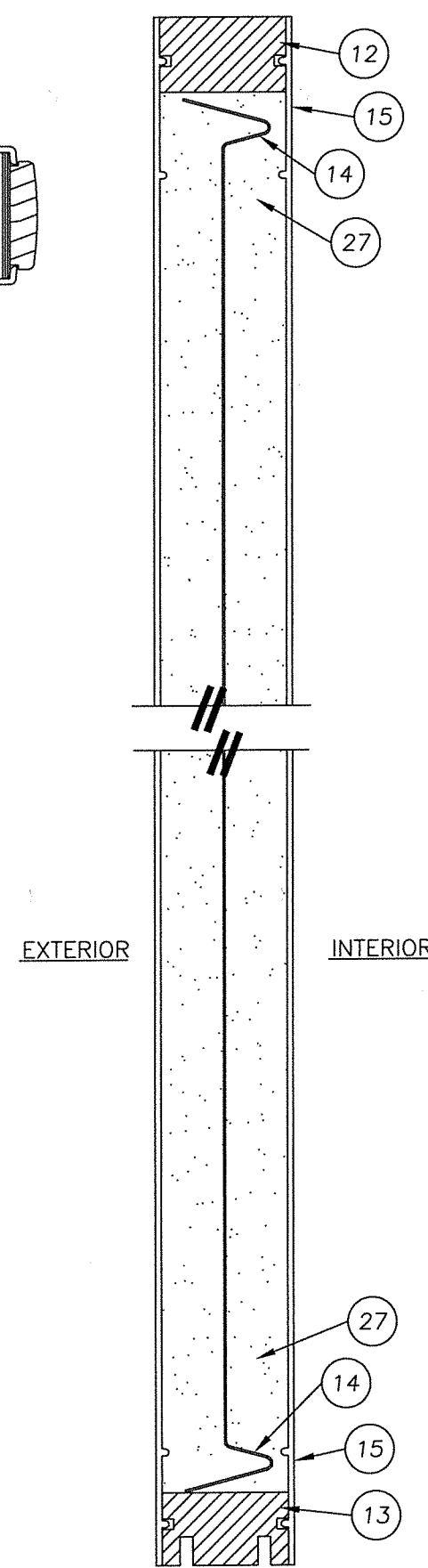
11 LOCK STILE
SMOOTH-STAR



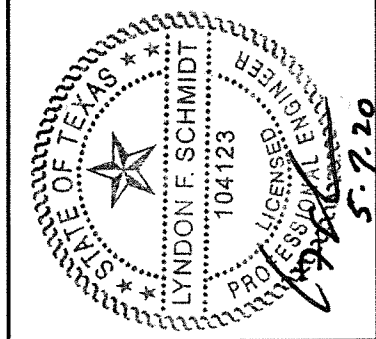
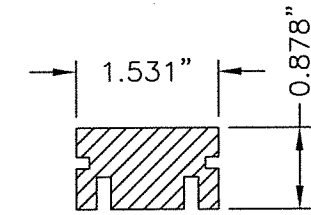
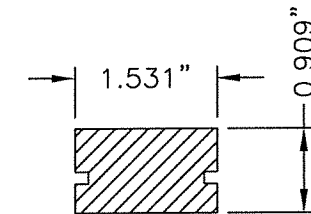
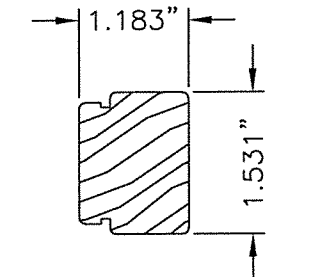
10 HINGE STILE
SMOOTH-STAR

12 TOP RAIL
SMOOTH-STAR

13 BOTTOM RAIL
SMOOTH-STAR



1 VERTICAL CROSS SECTION
2 SMOOTH-STAR



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Phone No.: 813.659.9197

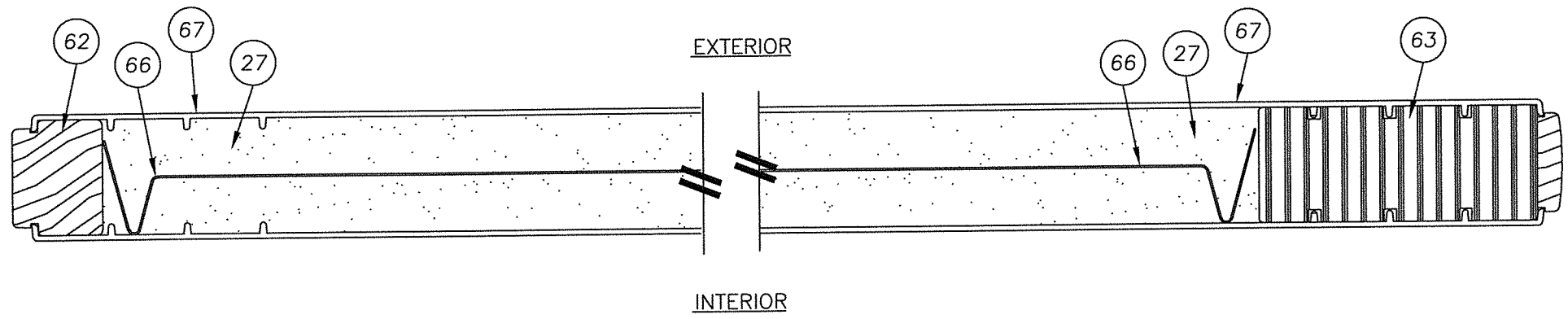
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SINGLE OPAQUE
FIBERGLASS DOOR W/SIDELITES
"IMPACT" INSWING / OUTSWING
PART OR ASSEMBLY:
DOOR PANEL DETAILS
(SMOOTH-STAR)

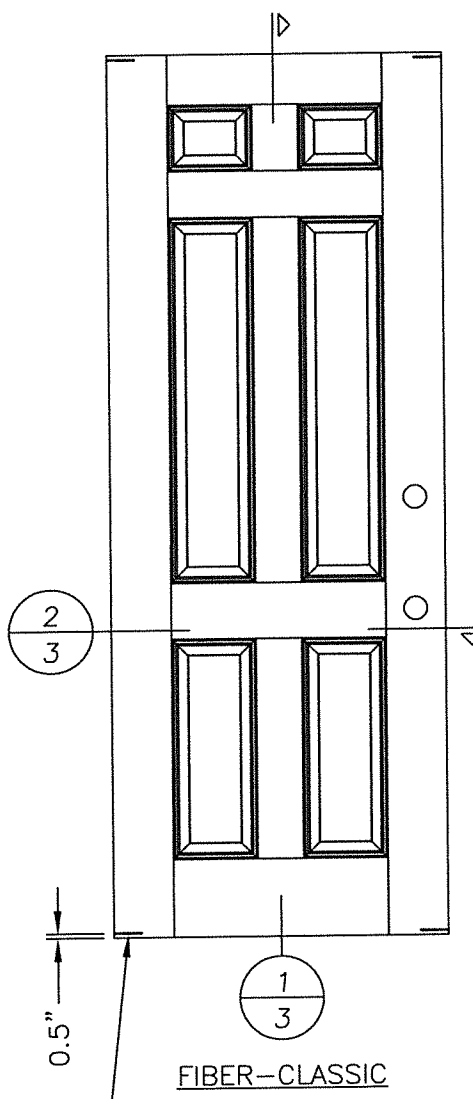
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DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 2 OF 10

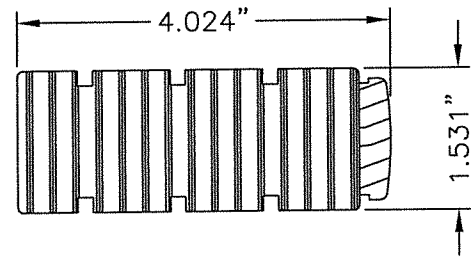
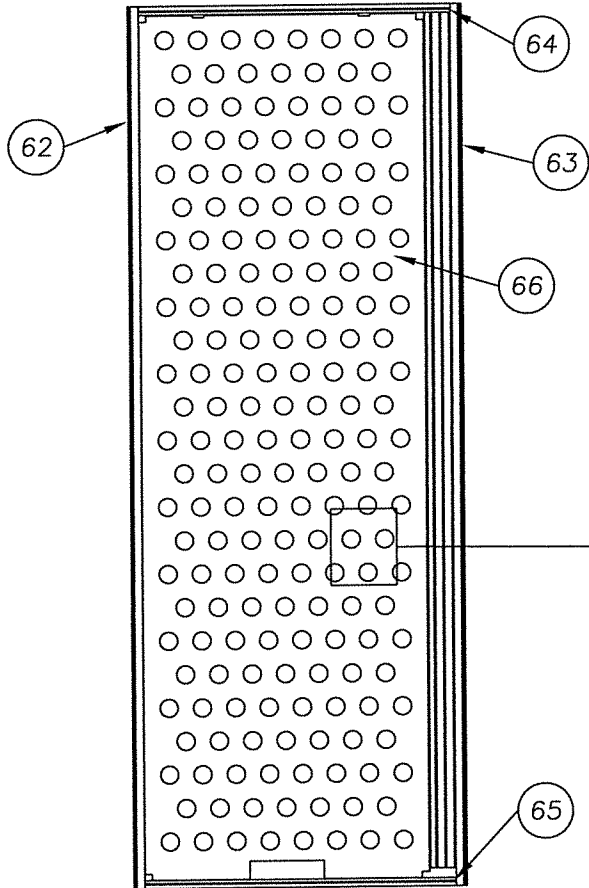
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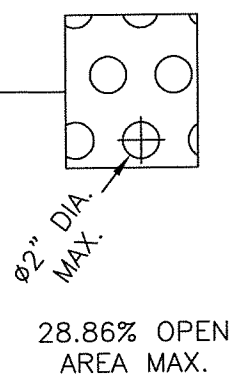
2 HORIZONTAL CROSS SECTION
3 FIBER-CLASSIC



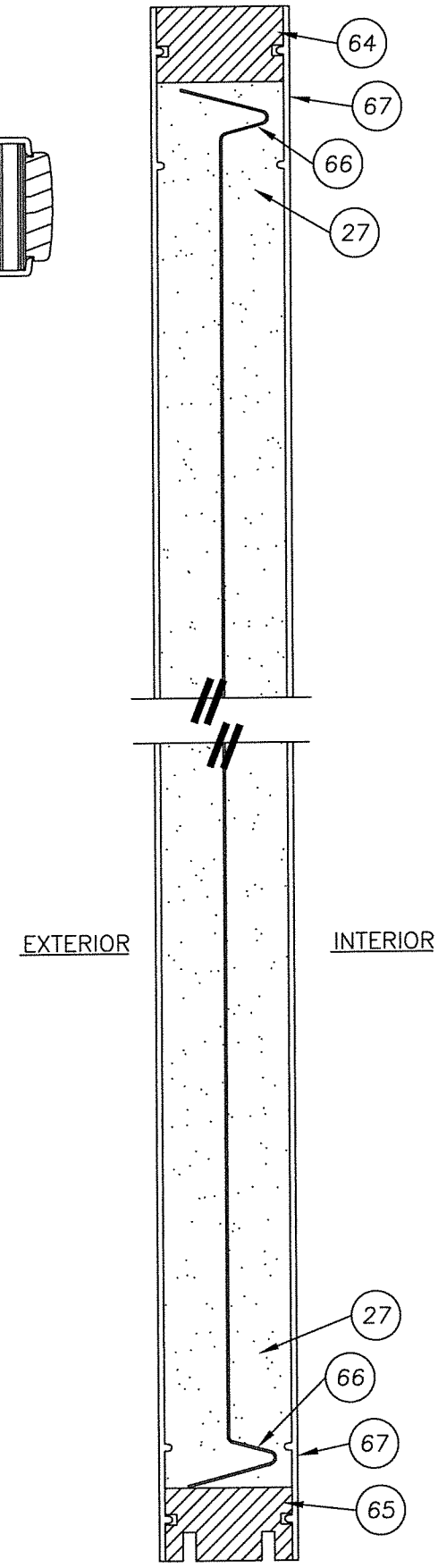
32 TYP. 4 CORNERS OF PANEL



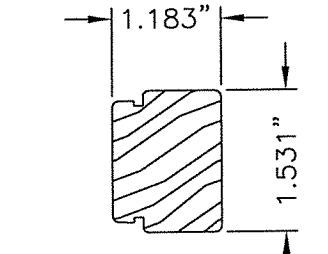
63 LOCK STILE FIBER-CLASSIC



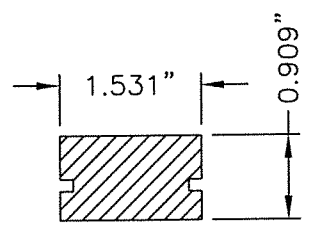
28.86% OPEN AREA MAX.



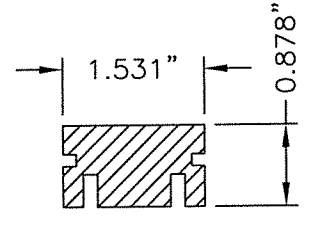
1 VERTICAL CROSS SECTION
3 FIBER-CLASSIC



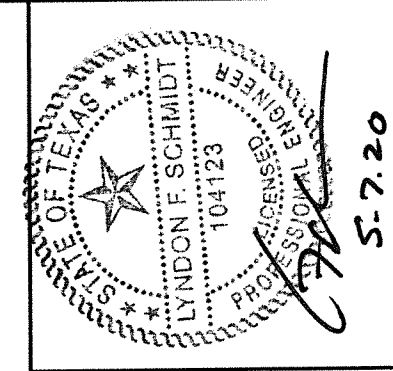
62 HINGE STILE FIBER-CLASSIC



64 TOP RAIL FIBER-CLASSIC



65 BOTTOM RAIL FIBER-CLASSIC



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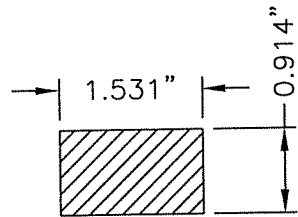
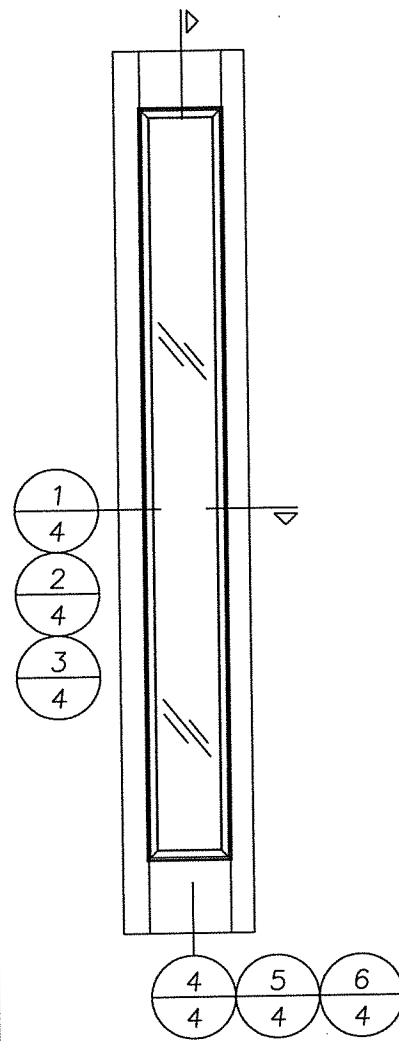
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
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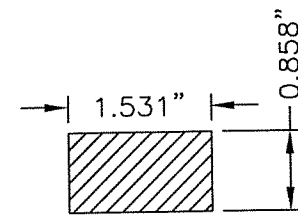
PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING
PART OR ASSEMBLY: DOOR PANEL DETAILS (FIBER-CLASSIC)

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

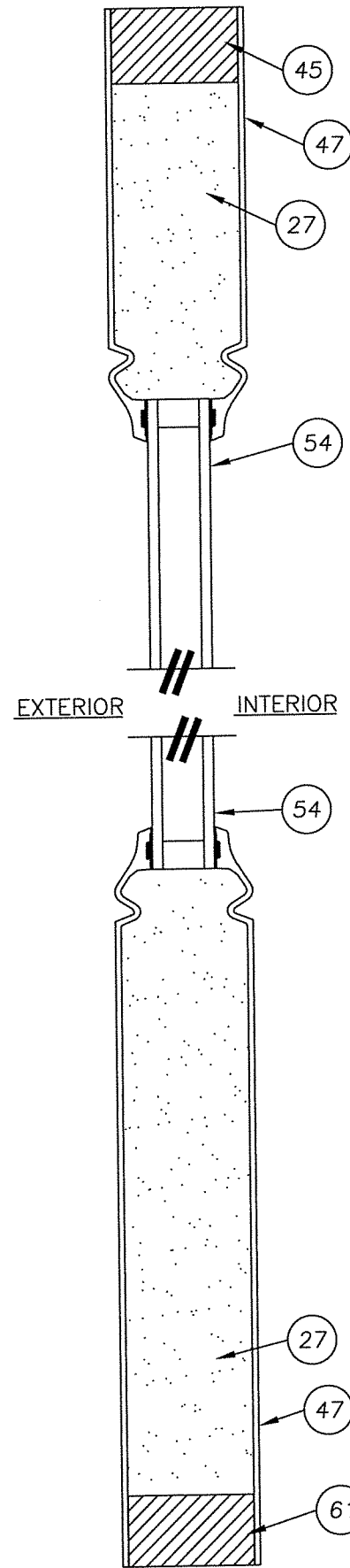
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 3 OF 10



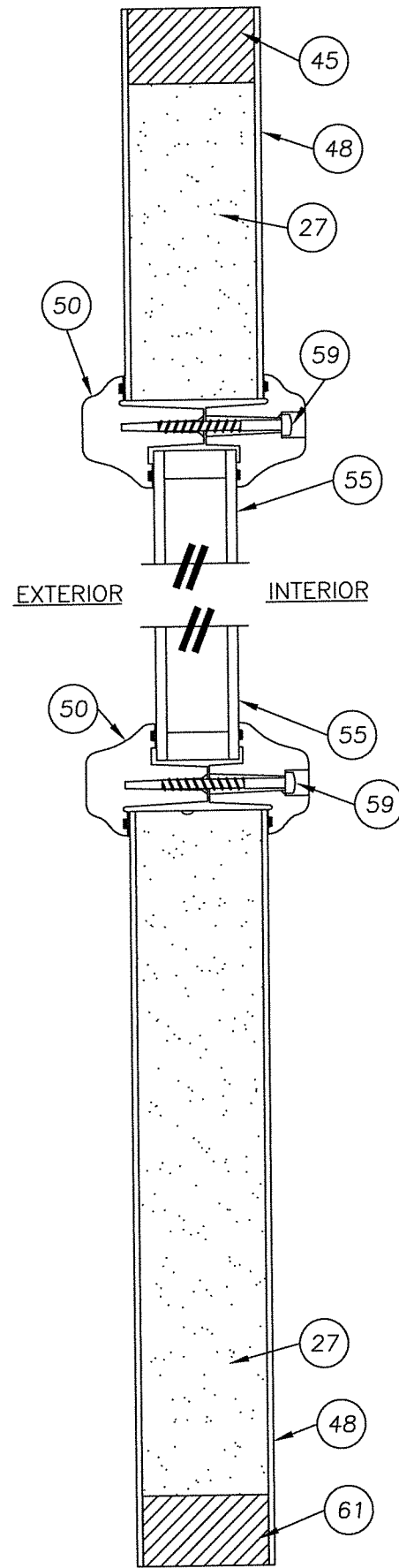
45 TOP RAIL SIDELITE



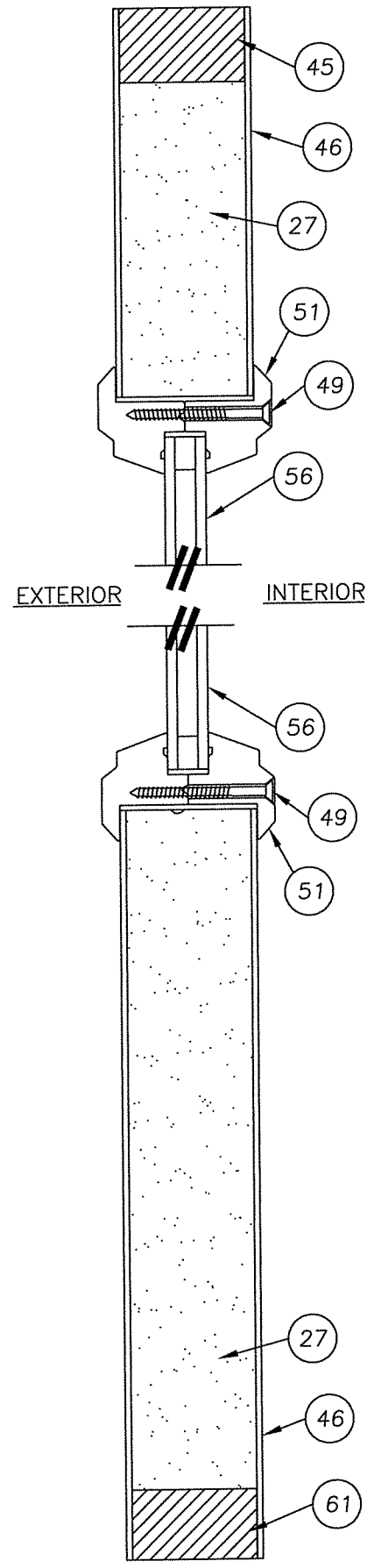
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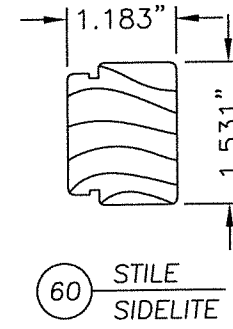
4 VERTICAL CROSS SECTION (CLASSIC-CRAFT)



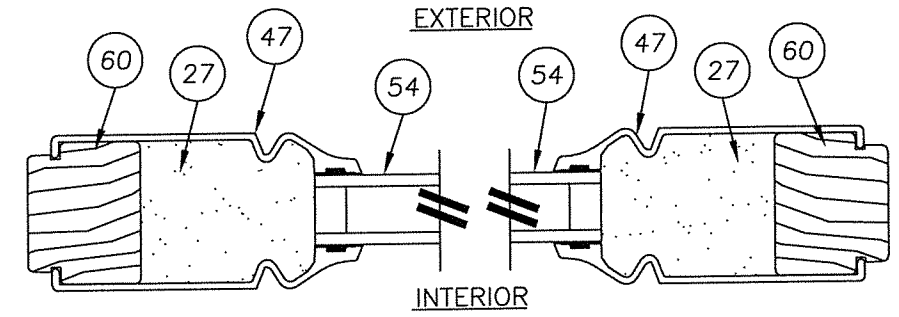
5 VERTICAL CROSS SECTION (FIBER-CLASSIC)



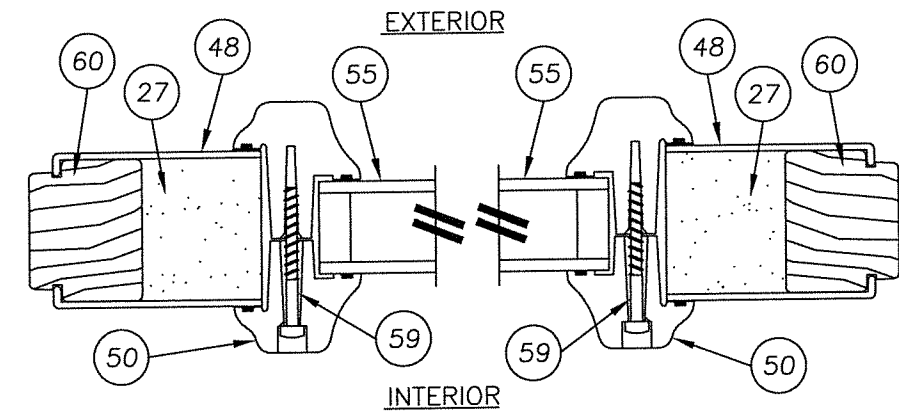
6 VERTICAL CROSS SECTION (SMOOTH-STAR)



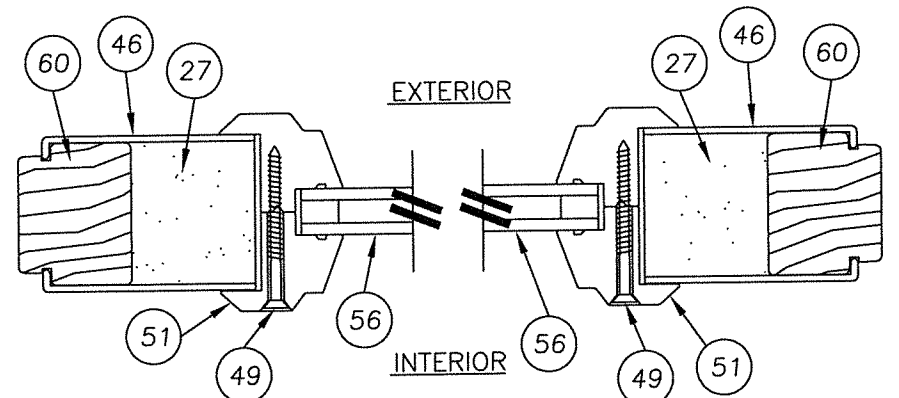
60 STILE SIDELITE



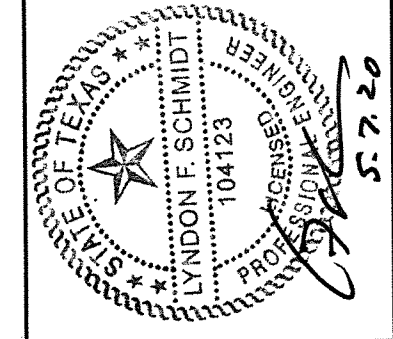
1 HORIZONTAL CROSS SECTION (CLASSIC-CRAFT)



2 HORIZONTAL CROSS SECTION (FIBER-CLASSIC)



3 HORIZONTAL CROSS SECTION (SMOOTH-STAR)



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

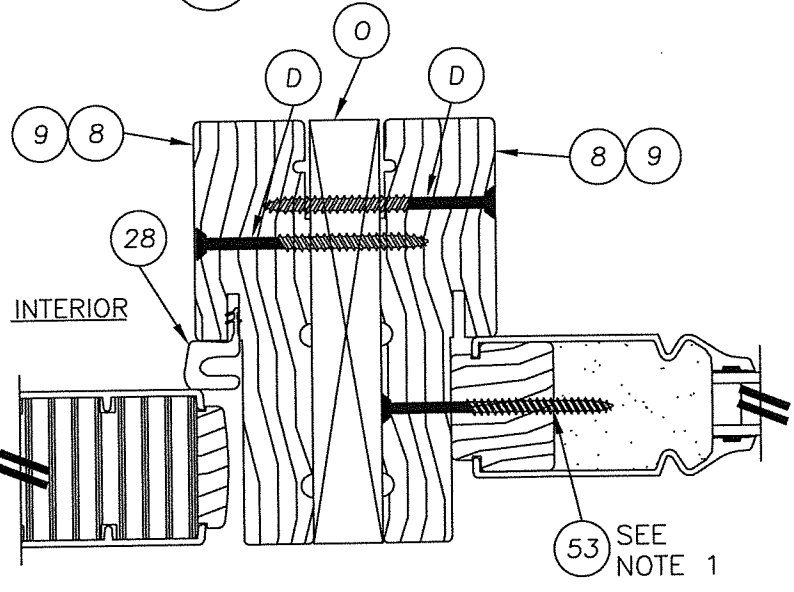
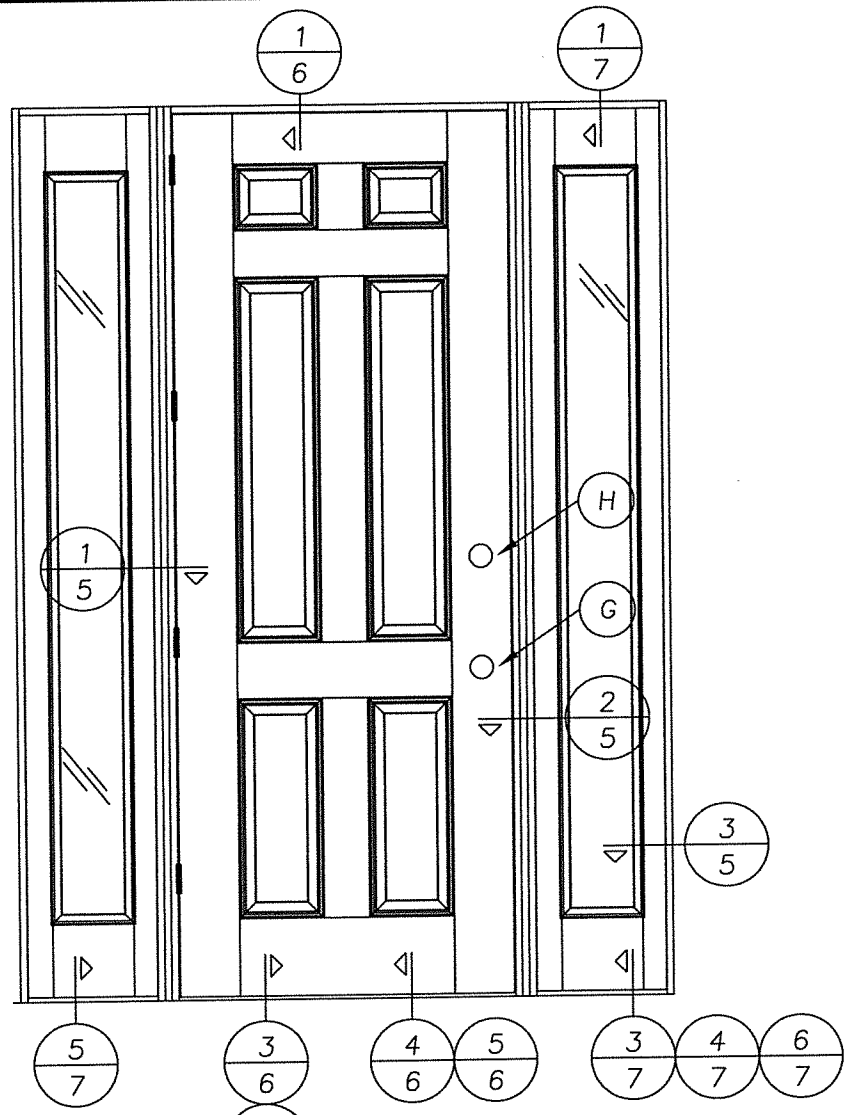
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR W/ SIDELITES "IMPACT" INSURING / OUTSWING PART OR ASSEMBLY: SIDELITE PANEL DETAILS

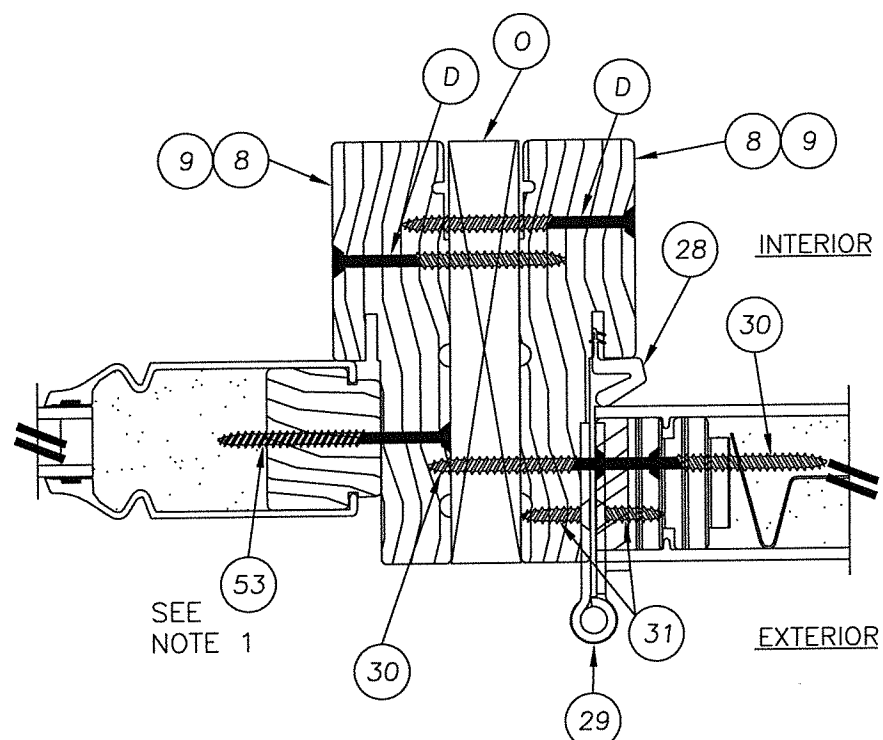
NO.	DATE	REVISIONS
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DATE: 7/16/12
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 4 OF 10

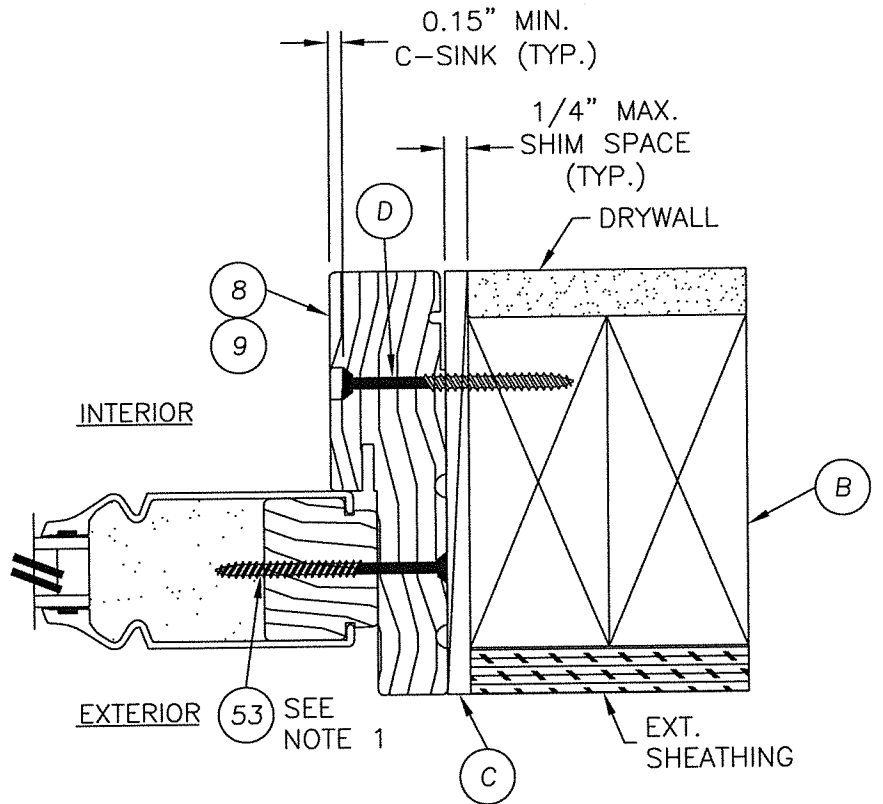
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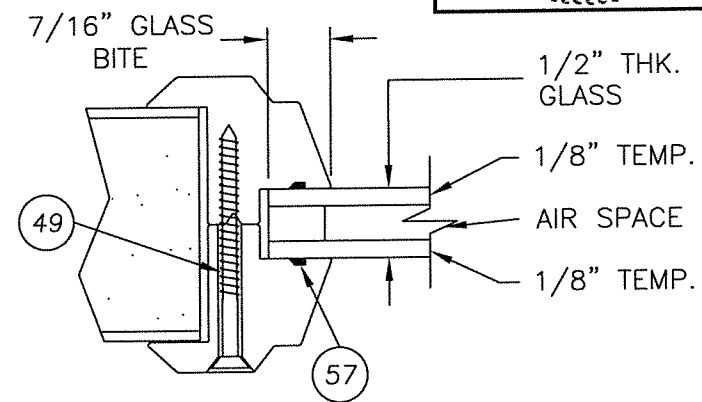
2 HORIZONTAL CROSS SECTION
 5 OUTSWING SHOWN (INSWING ALSO APPROVED)
 SMOOTH-STAR PANEL SHOWN
 SEE PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



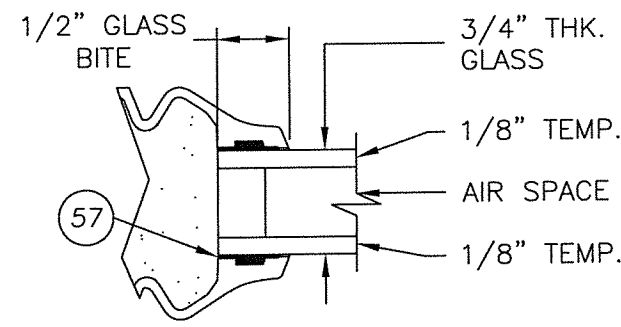
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 SEE DOOR PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



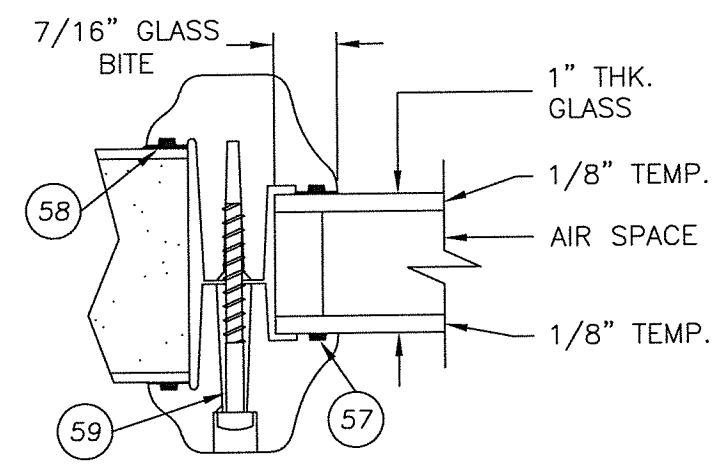
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 CLASSIC-CRAFT PANEL SHOWN
 SEE SIDELITE PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



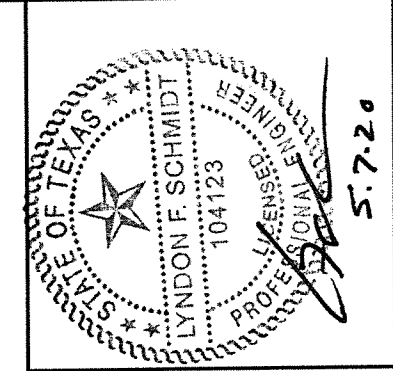
56 GLAZING DETAIL
 1/2" INSULATED GLASS



54 GLAZING DETAIL
 3/4" INSULATED GLASS



55 GLAZING DETAIL
 1" INSULATED GLASS



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 TEXAS P.E. #104123

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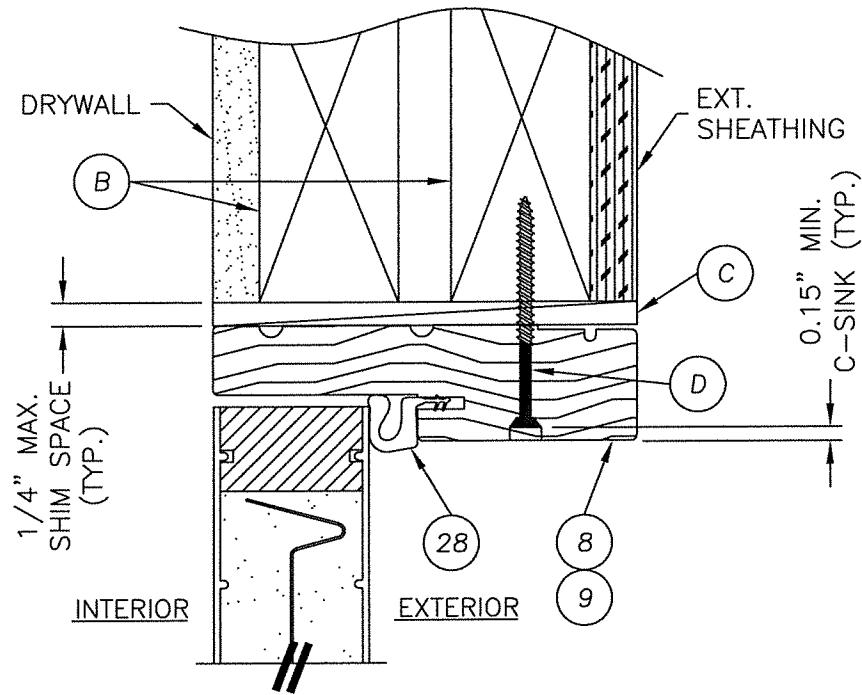
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 FIBERGLASS DOOR W/SIDELITES
 "IMPACT" INSWING / OUTSWING
 PART OR ASSEMBLY:
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 & GLAZING DETAILS

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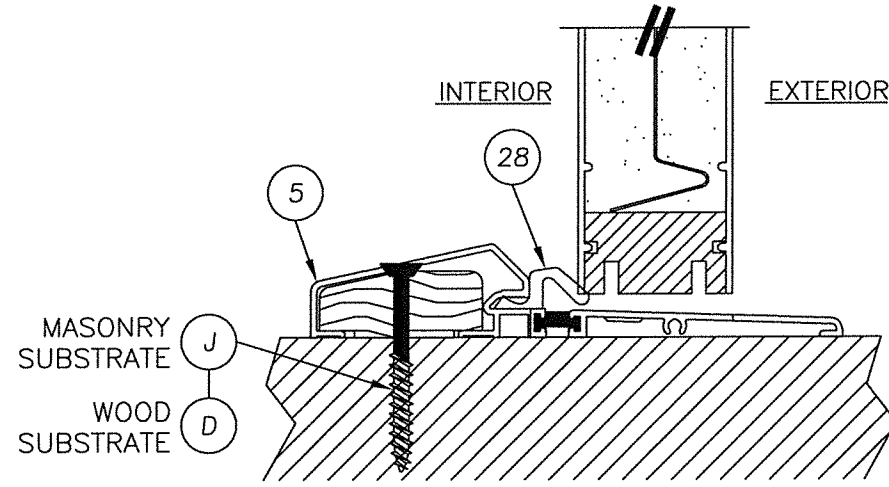
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 CHK. BY: LFS
 DRAWING NO.: TX-4182
 SHEET 5 OF 10

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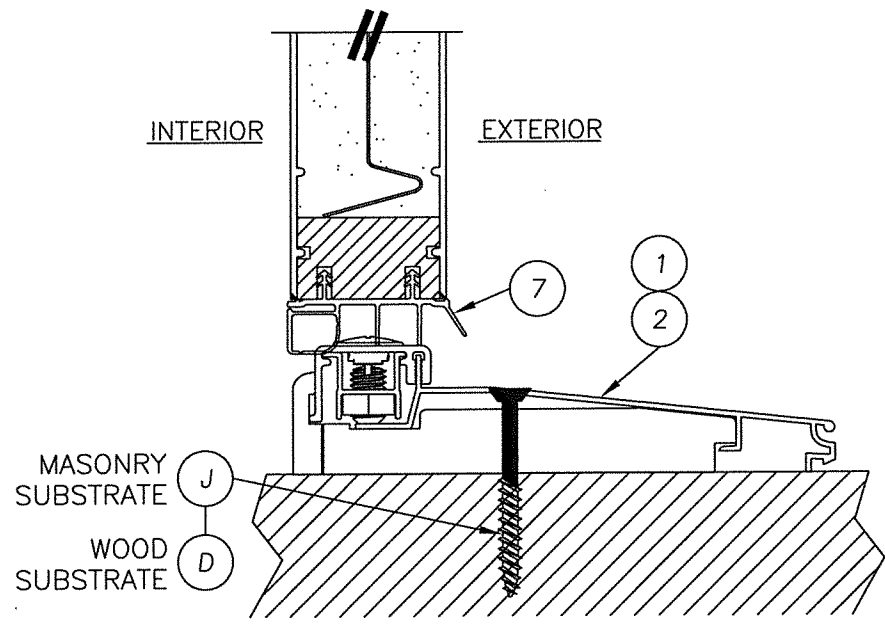
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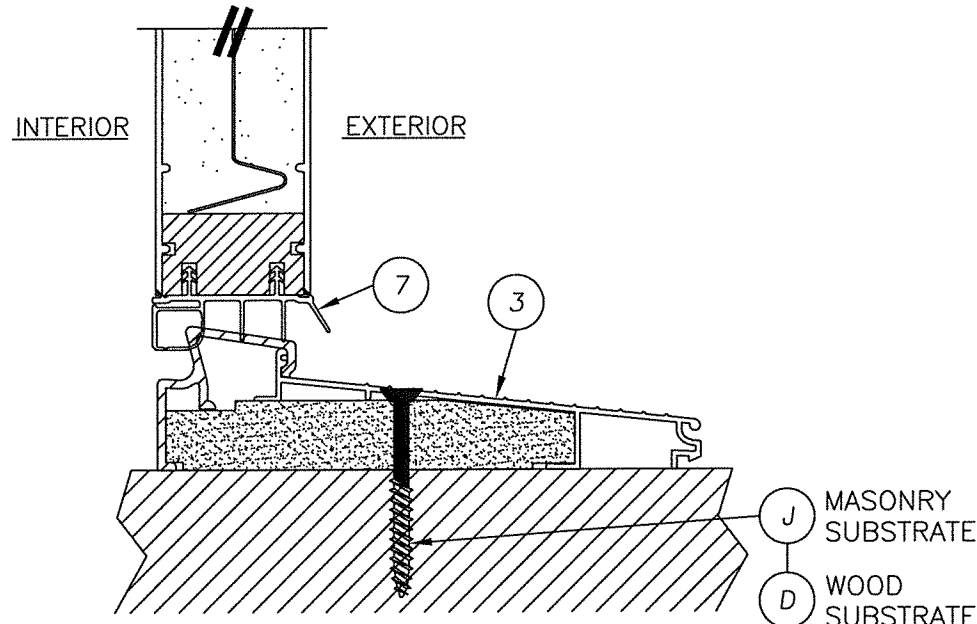
1 VERTICAL CROSS SECTION
 6 INSWING SHOWN (OUTSWING ALSO APPROVED)
 SMOOTH-STAR PANEL SHOWN
 SEE DOOR PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



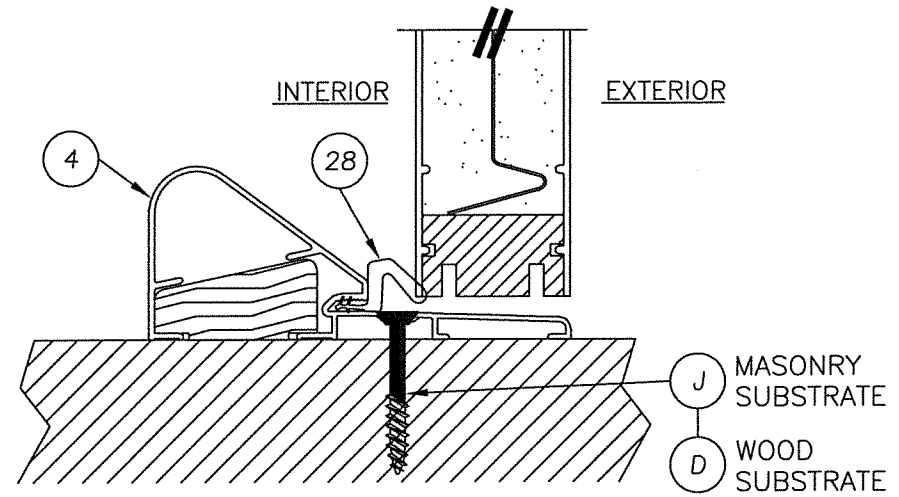
3 VERTICAL CROSS SECTION
 6 @ THRESHOLD
 SMOOTH-STAR PANEL SHOWN
 SEE DOOR PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



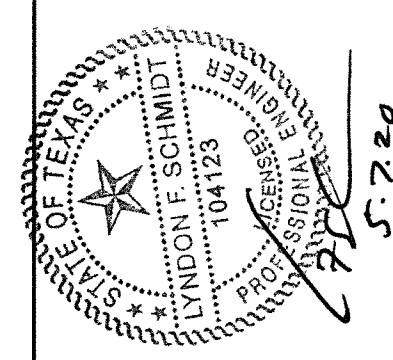
4 VERTICAL CROSS SECTION
 6 @ THRESHOLD
 SMOOTH-STAR PANEL SHOWN
 SEE DOOR PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



5 VERTICAL CROSS SECTION
 6 @ THRESHOLD
 SMOOTH-STAR PANEL SHOWN
 SEE DOOR PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



6 VERTICAL CROSS SECTION
 6 @ THRESHOLD
 SMOOTH-STAR PANEL SHOWN
 SEE DOOR PANEL DETAILS FOR
 OPTIONAL PANEL TYPES



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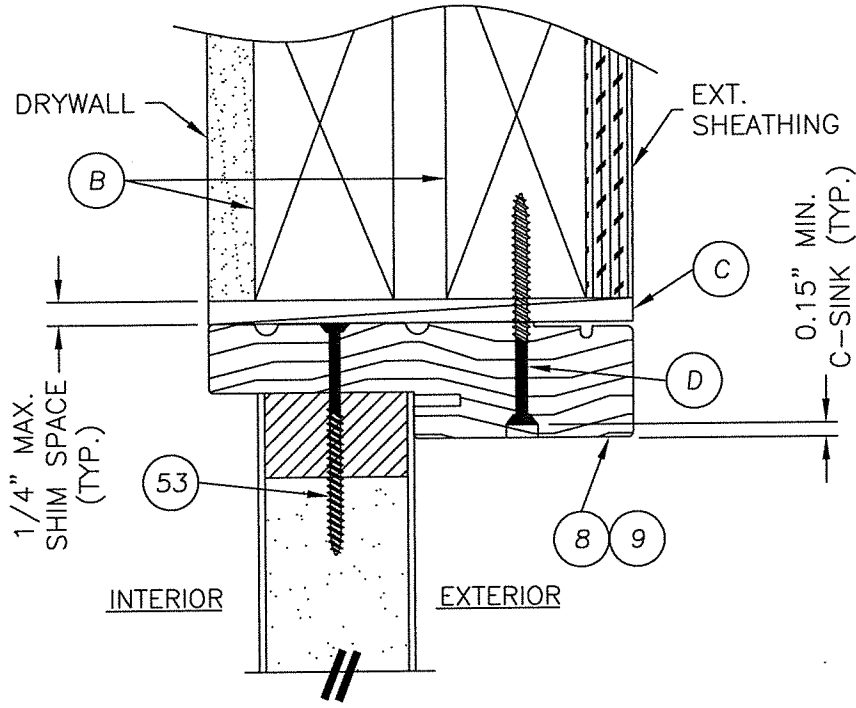
TEXAS BOARD OF PROFESSIONAL ENGINEERS
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PRODUCT: SINGLE OPAQUE
 FIBERGLASS DOOR W/SIDELITES
 "IMPACT" INSWING / OUTSWING
 PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

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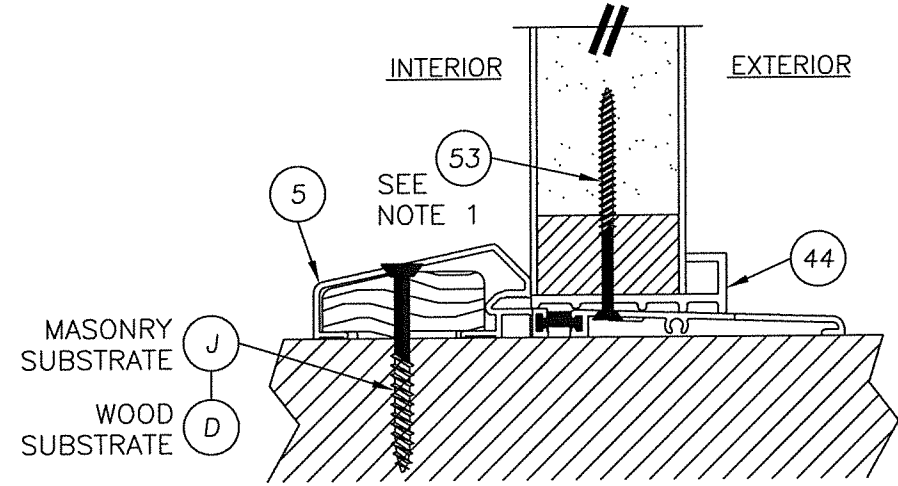
DATE: 7/16/12
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 CHK. BY: LFS
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 SHEET 6 OF 10

R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 601 - 80 Opaque FG Imp IS - OS Sgls Dbls w-wo Imp SLC - Drawings\Current\TX-4175-83.dwg, OX07

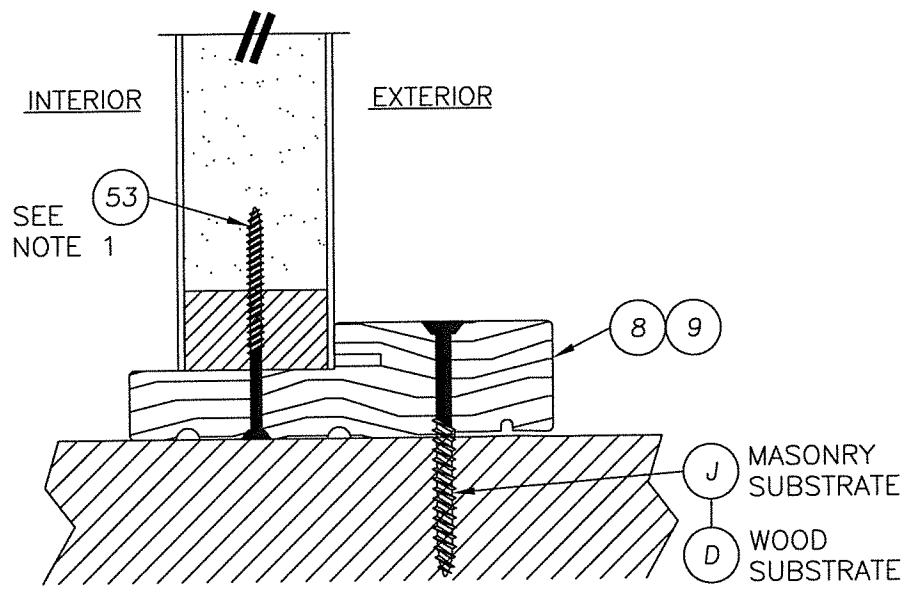


1 VERTICAL CROSS SECTION
7

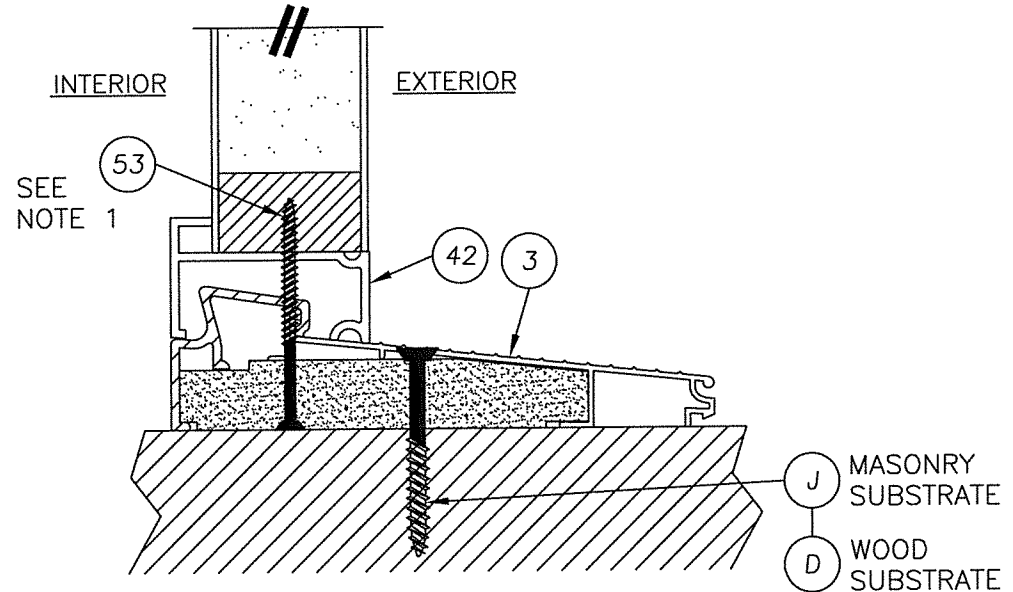
NOTE:
1. SIDELITE ASSEMBLY SCREWS LOCATED 4.25\"/>



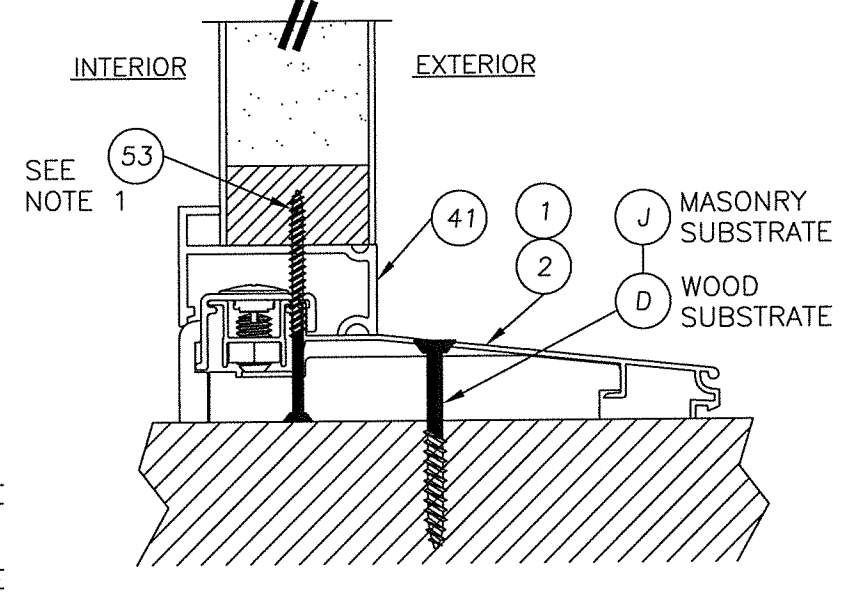
5 VERTICAL CROSS SECTION
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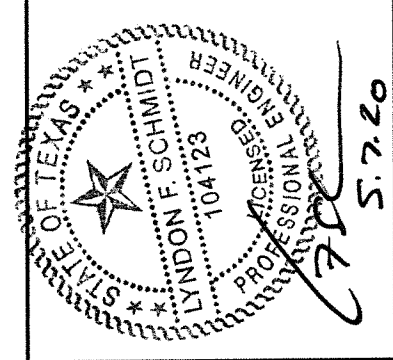
4 VERTICAL CROSS SECTION
7



3 VERTICAL CROSS SECTION
7



6 VERTICAL CROSS SECTION
7

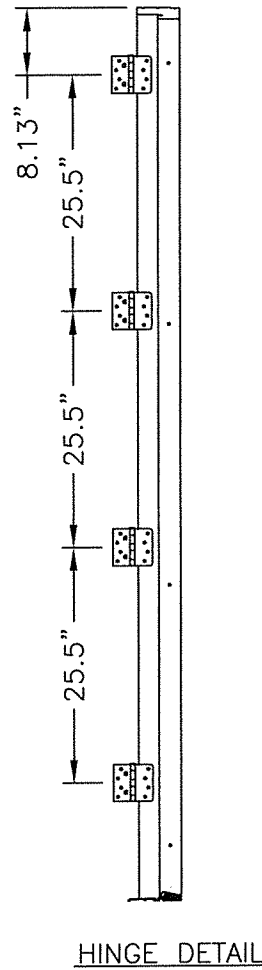


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104128
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

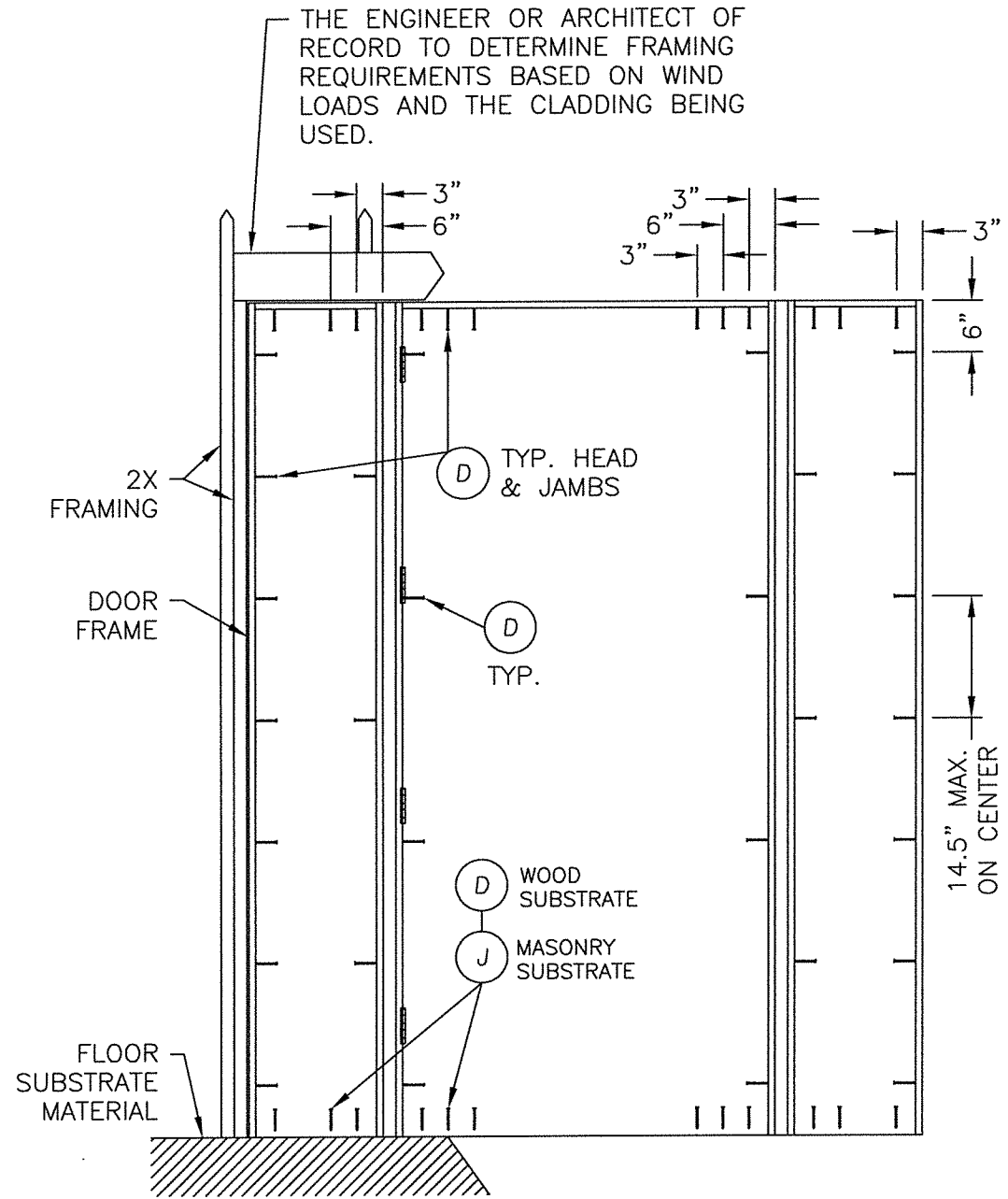
PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR W/ SIDELITES "IMPACT" INSWING / OUTSWING PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
2	5/07/20	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	ADDED GENERAL NOTE 5.

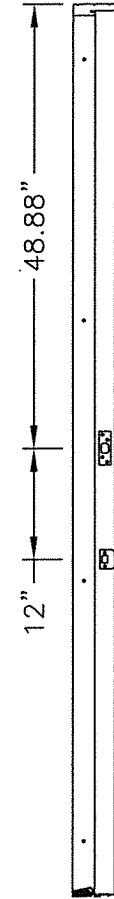
DATE: 7/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4182
SHEET 7 OF 10



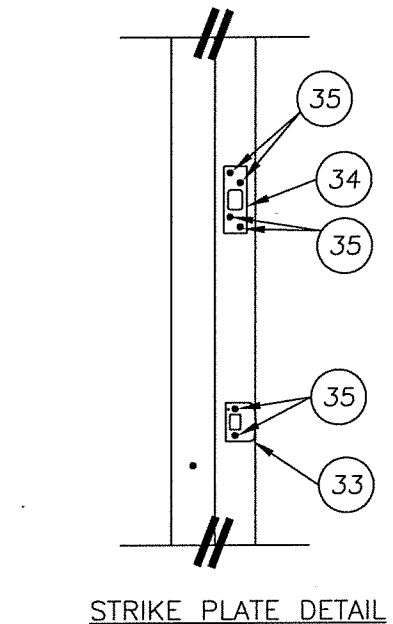
HINGE DETAIL



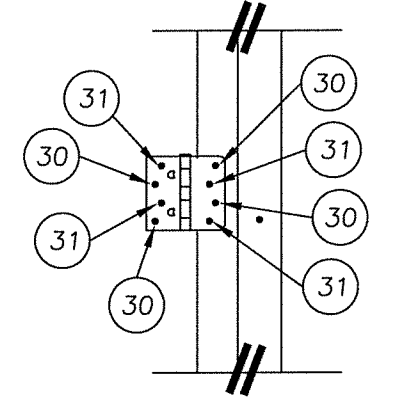
FRAME ANCHORING



STRIKE PLATE DETAIL

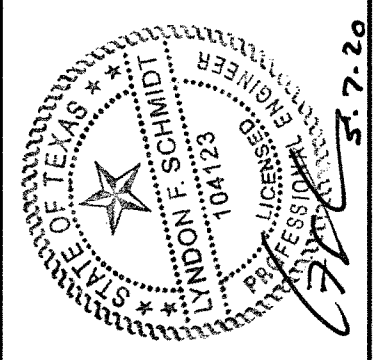


STRIKE PLATE DETAIL



HINGE DETAIL

THE ENGINEER OR ARCHITECT OF RECORD TO DETERMINE FRAMING REQUIREMENTS BASED ON WIND LOADS AND THE CLADDING BEING USED.



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

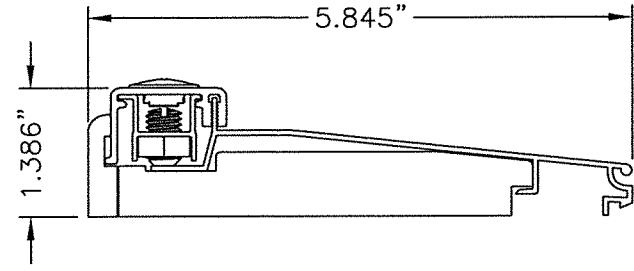
NO.	DATE	REVISIONS
2	5/07/20	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	ADDED GENERAL NOTE 5.

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

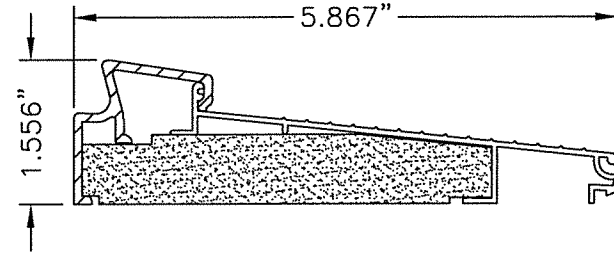
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 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.
- Concrete anchor table:

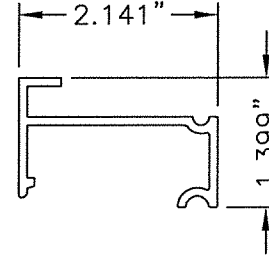
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



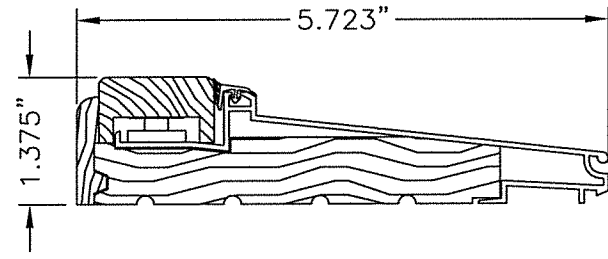
2 THRESHOLD
INSWING ADJUSTABLE



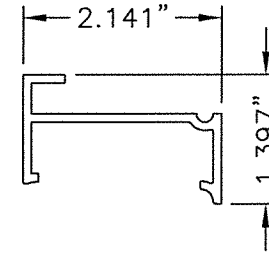
3 THRESHOLD
INSWING SELF-ADJUST



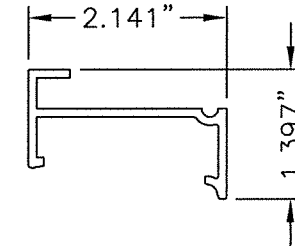
41 INSWING SIDELITE
SPACER



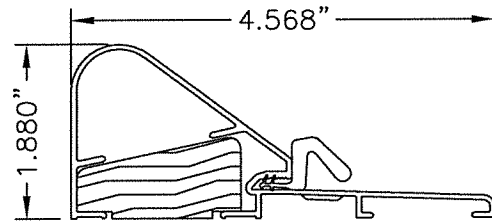
1 THRESHOLD
INSWING ADJUSTABLE



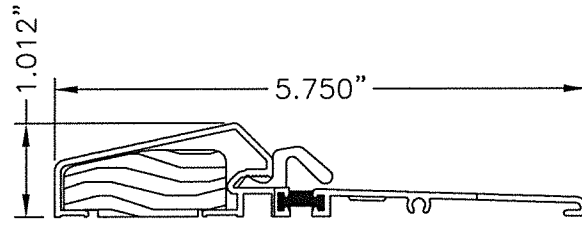
40 INSWING SIDELITE
SPACER



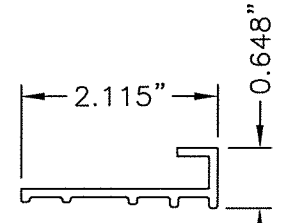
43 INSWING SIDELITE
SPACER



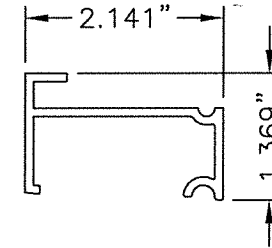
4 THRESHOLD
OUTSWING COASTAL



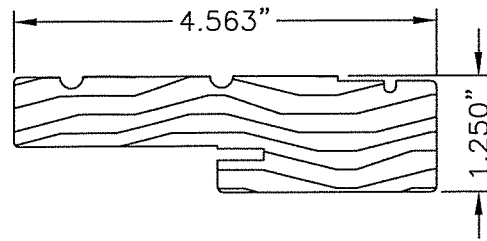
5 THRESHOLD
OUTSWING STANDARD



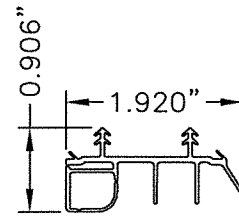
44 OUTSWING SIDELITE
SPACER



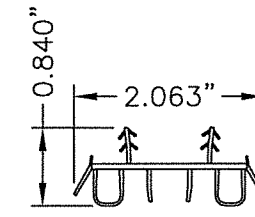
42 INSWING SIDELITE
SPACER



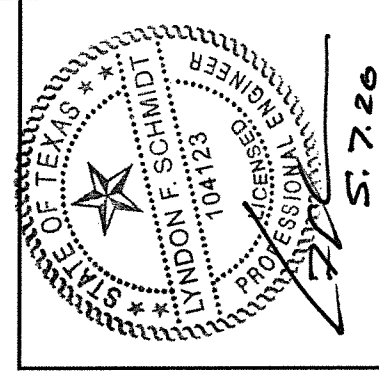
9 8 JAMB



7 SWEEP



52 SWEEP



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

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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PART OR ASSEMBLY:
COMPONENTS

NO. DATE

REVISIONS

NO.	DATE	BY
2	5/07/20	LFS
1	7/22/15	LFS

DATE: 7/16/12

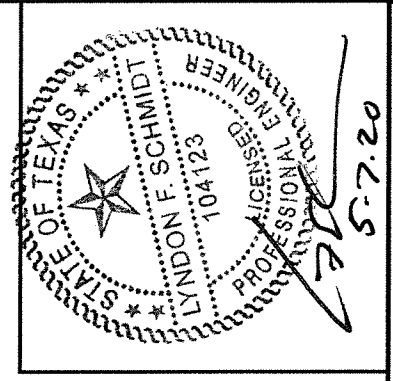
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
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SHEET 9 of 10



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

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD	40	INSWING SIDELITE SPACER FOR ADJUSTABLE THRESHOLD (DB14AJA)	PVC
C	1/4" MAX. SHIM SPACE	WOOD	41	INSWING SIDELITE SPACER FOR HP THRESHOLD (DB14HPA)	PVC
D	#10 X 2-1/2" PFH WOOD SCREW	STEEL	42	INSWING SIDELITE SPACER FOR SELF ADJUST THRESHOLD (DB14)	PVC
G	KWIKSET 200 SERIES PASSAGE LOCK	STEEL	43	INSWING SIDELITE SPACER	PVC
H	KWIKSET 600 SERIES DEADBOLT	STEEL	44	OUTSWING SIDELITE SPACER	PVC
J	1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL	45	SIDELITE TOP RAIL	PVC
O	1X MULLION (G >= 0.42)	WOOD	46	SIDELITE SKIN 0.070" THK. (SMOOTH-STAR) Fy = 6,000 PSI MIN.	FIBERGLASS
1	INSWING ADJUSTABLE THRESHOLD (IS300AJ)	ALUM./WOOD	47	SIDELITE SKIN 0.090" THK. (CLASSIC-CRAFT) Fy = 6,000 PSI MIN.	FIBERGLASS
2	INSWING THRESHOLD (IS300HP5)	ALUM./COMP.	48	SIDELITE SKIN 0.070" THK. (FIBER-CLASSIC) Fy = 6,000 PSI MIN.	FIBERGLASS
3	INSWING SELF ADJUST THERMAL BREAK THRESHOLD (ISP30M)	ALUM./COMP.	49	#6 X 1-3/4" PFH SCREW (LITE FRAME)	STEEL
4	OUTSWING COASTAL THRESHOLD	ALUM./WOOD	50	LITE FRAME FIBER-CLASSIC	PVC
5	OUTSWING STANDARD THRESHOLD	ALUM./WOOD	51	LITE FRAME SMOOTH-STAR	PVC
7	DOOR BOTTOM SWEEP	VINYL	52	DOOR BOTTOM SWEEP	VINYL
8	JAMB (OAK)	WOOD	53	#9 X 2-1/2" PFH WOOD SCREW (JAMB TO SIDELITE)	STEEL
9	JAMB (PINE)	WOOD	54	3/4" INSULATED GLASS	GLASS
10	HINGE STILE (SMOOTH-STAR)	WOOD		1/8" TEMPERED - AIR - 1/8" TEMPERED	
11	LOCK STILE (SMOOTH-STAR)	LVL/WOOD	55	1" INSULATED GLASS	GLASS
12	TOP RAIL (SMOOTH-STAR)	PVC		1/8" TEMPERED - AIR - 1/8" TEMPERED	
13	BOTTOM RAIL (SMOOTH-STAR)	PVC	56	1/2" INSULATED GLASS	GLASS
14	PANEL REINFORCEMENT 0.023" THK. (SMOOTH-STAR)	STEEL		1/8" TEMPERED - AIR - 1/8" TEMPERED	
15	DOOR SKIN 0.070" THK. (SMOOTH-STAR) Fy = 6,000 PSI MIN.	FIBERGLASS	57	GLAZING COMPOUND	SILICONE
27	FOAM CORE	POLYURETHANE	58	SEALANT	SILICONE
28	WEATHERSTRIP	FOAM	59	#9 X 1" PPH SCREW (LITE FRAME)	STEEL
29	HINGE	STEEL	60	SIDELITE STILE	WOOD
30	#10 X 2-1/2" PFH SCREW	STEEL	61	SIDELITE BOTTOM RAIL	PVC
31	#10 X 3/4" PFH SCREW	STEEL	62	HINGE STILE (FIBER-CLASSIC)	WOOD
32	#9 X 3" PFH WOOD SCREW	STEEL	63	LOCK STILE (FIBER-CLASSIC)	LVL/WOOD
33	LATCH STRIKE PLATE	STEEL	64	TOP RAIL (FIBER-CLASSIC)	PVC
34	SECURITY STRIKE PLATE (SINGLE DOOR ONLY)	STEEL	65	BOTTOM RAIL (FIBER-CLASSIC)	PVC
35	#8 X 3" PFH SCREW	STEEL	66	PANEL REINFORCEMENT 0.023" THK. (FIBER-CLASSIC)	STEEL
			67	DOOR SKIN 0.070" THK. (FIBER-CLASSIC) Fy = 6,000 PSI MIN.	FIBERGLASS

PRODUCT: SINGLE OPAQUE
FIBERGLASS DOOR W/SIDELITES
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