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

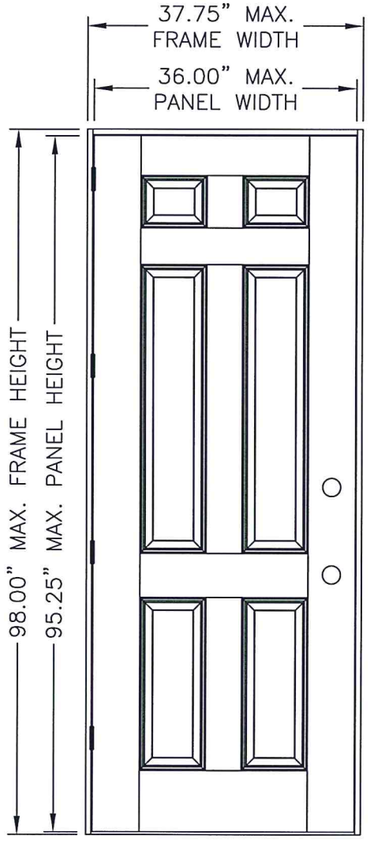
SMOOTH STAR & FIBER CLASSIC

SINGLE "IMPACT" DOOR
INSWING / OUTSWING

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.



"SMOOTH STAR" & "FIBER CLASSIC"

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5	VERTICAL CROSS SECTIONS
6	FRAME ANCHORING
7	BILL OF MATERIALS & COMPONENTS

DOOR TYPE	SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE	
			POSITIVE	NEGATIVE
SMOOTH STAR	OUTSWING	37.75" X 96.50"	+65.0	−65.0
	INSWING	37.75" X 98.00"	+65.0	−65.0
FIBER CLASSIC	OUTSWING	37.75" X 96.50"	+65.0	−65.0
	INSWING	37.75" 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
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 "IMPACT" INSWING / OUTSWING
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

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-4178
SHEET 1 OF 7

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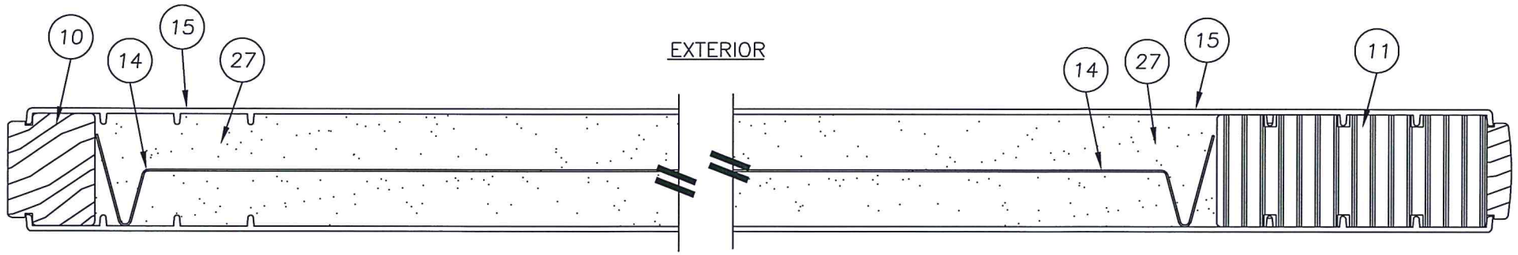
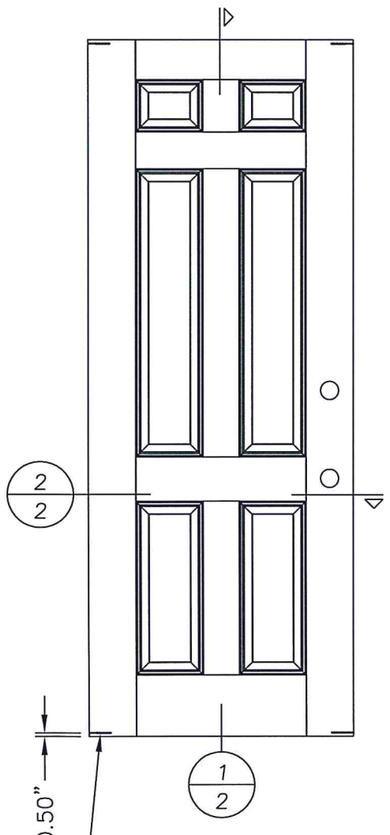
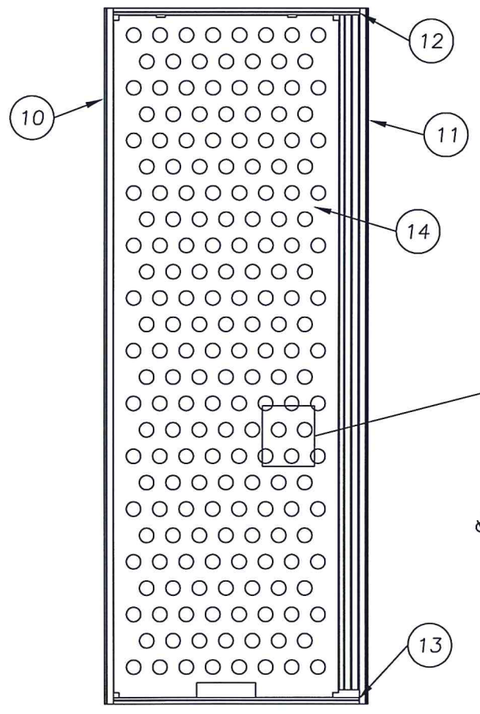
J:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 601 - 80 Opaque FG Imp IS - OS Sgls Dbls w-wo Imp SLVC - Drawings\Current\TX-4175-83.dwg, TX-4178



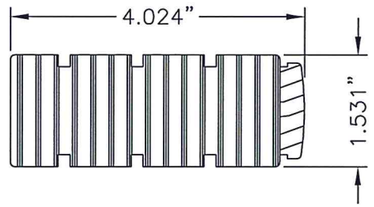
2/2 HORIZONTAL CROSS SECTION
SMOOTH STAR



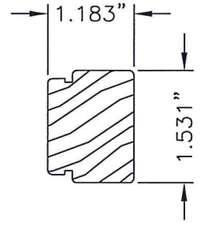
SMOOTH STAR



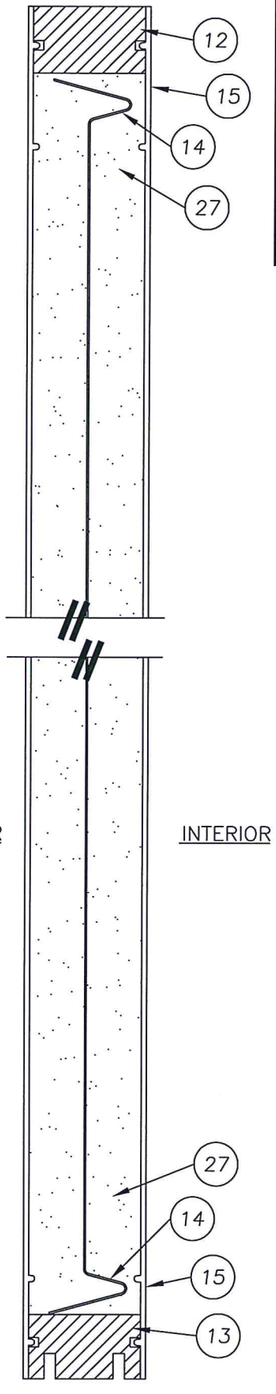
28.86% OPEN
AREA MAX.



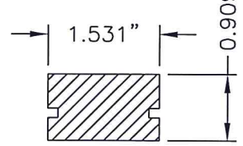
11 LOCK STILE
SMOOTH STAR



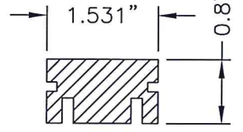
10 HINGE STILE
SMOOTH STAR



1/2 VERTICAL CROSS SECTION
SMOOTH STAR



12 TOP RAIL
SMOOTH STAR



13 BOTTOM RAIL
SMOOTH STAR

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

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Phone No.: 813.659.9197

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

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR "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-4178
SHEET 2 OF 7

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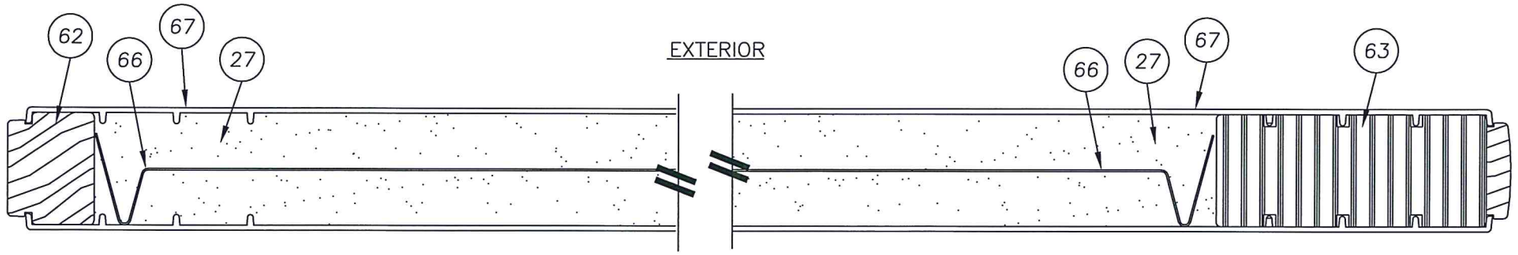
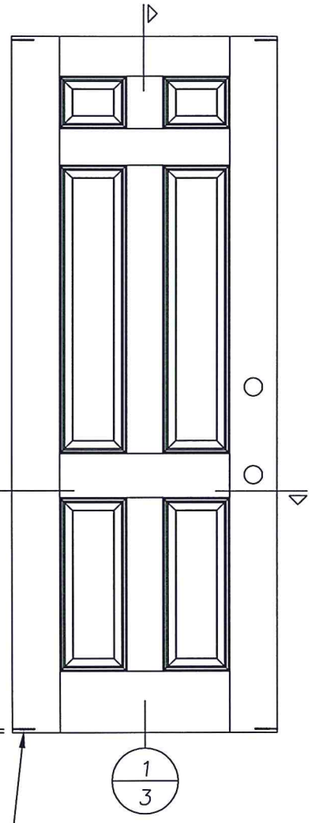
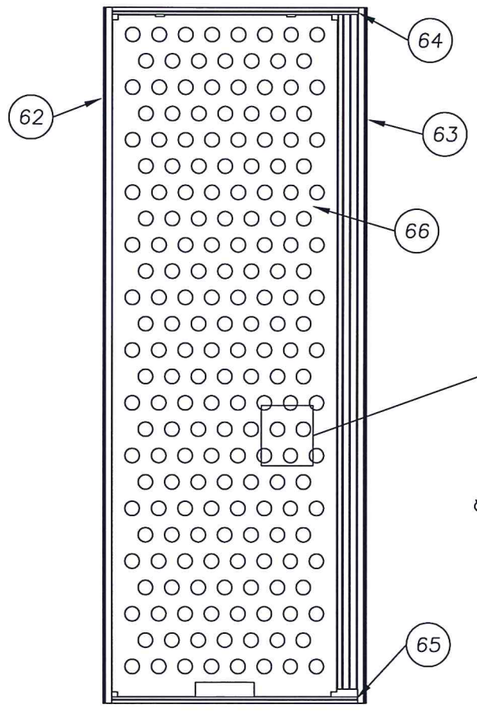


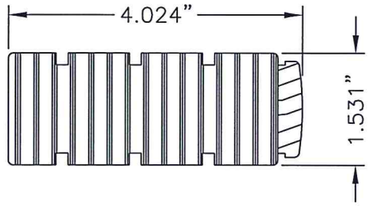
2/3 HORIZONTAL CROSS SECTION
FIBER CLASSIC



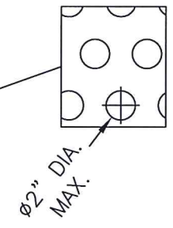
FIBER CLASSIC

32 TYP. 4 CORNERS OF PANEL

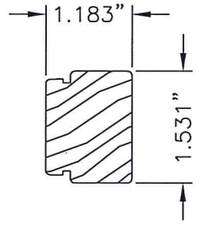




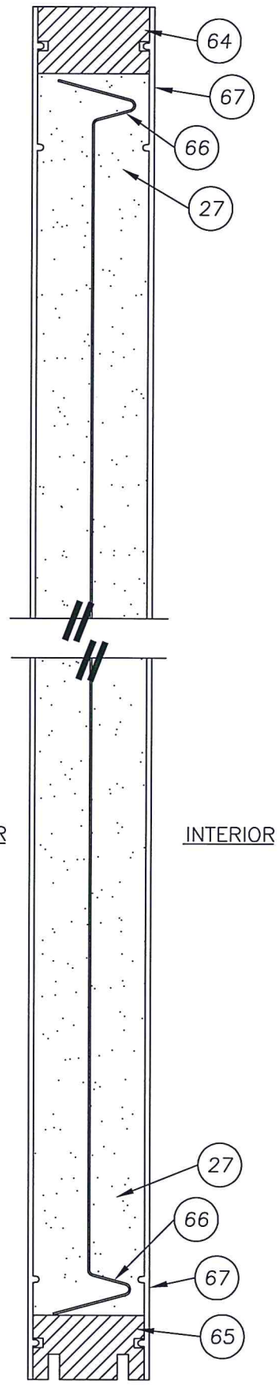
63 LOCK STILE
FIBER CLASSIC



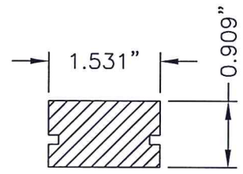
28.86% OPEN AREA MAX.



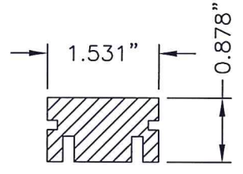
62 HINGE STILE
FIBER CLASSIC



1/3 VERTICAL CROSS SECTION
FIBER CLASSIC



64 TOP RAIL
FIBER CLASSIC



65 BOTTOM RAIL
FIBER CLASSIC

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

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

7.22.15

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

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-4178
SHEET 3 OF 7

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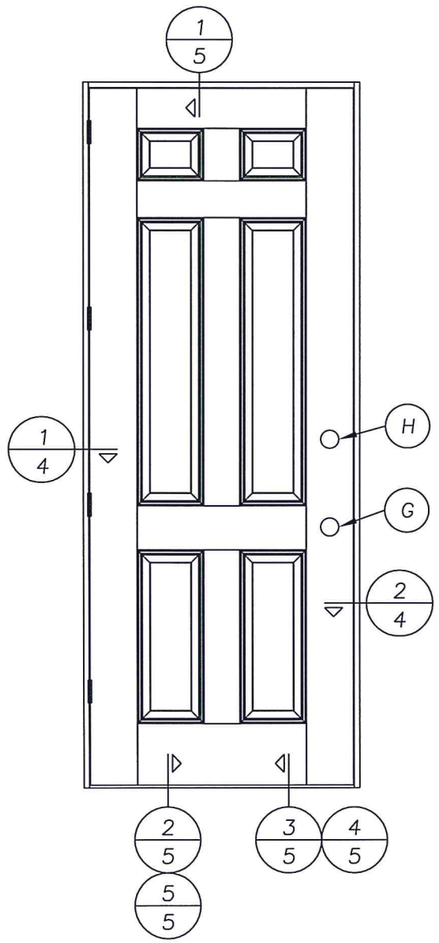
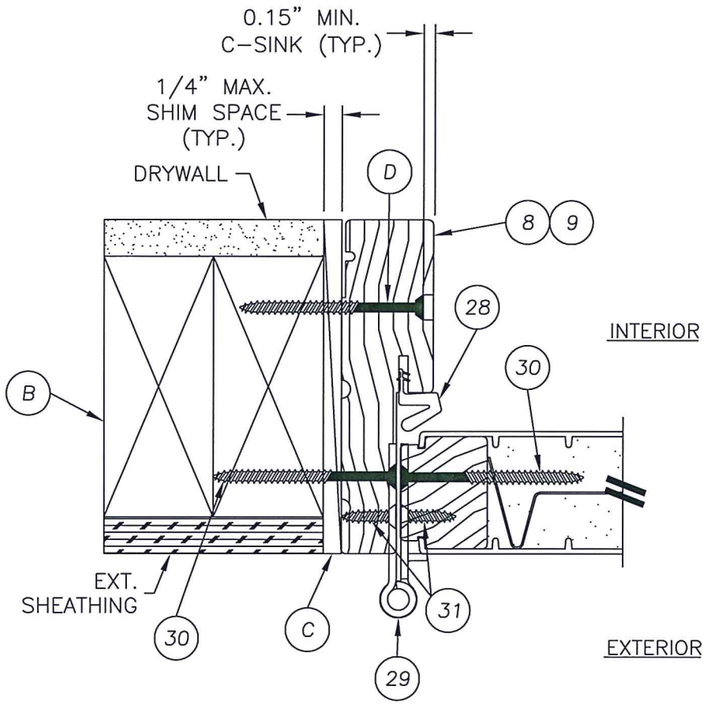
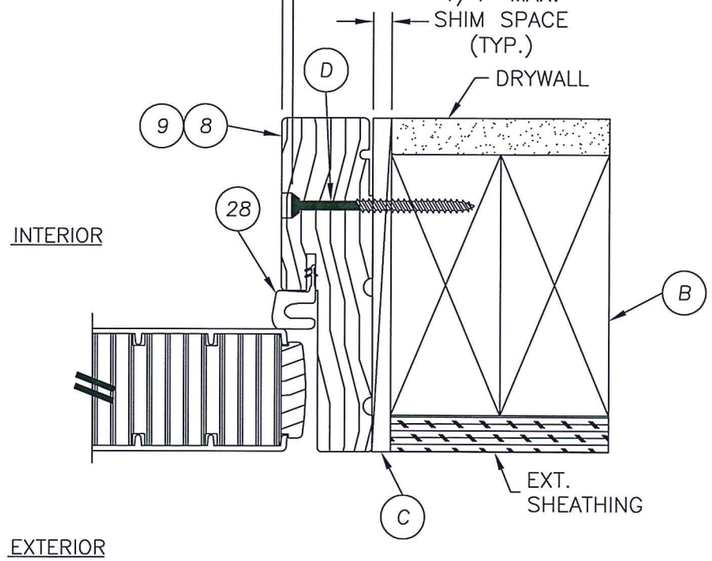




1/4 HORIZONTAL CROSS SECTION

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



2/4 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

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

PART OR ASSEMBLY: HORIZONTAL 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-4178
SHEET 4 OF 7

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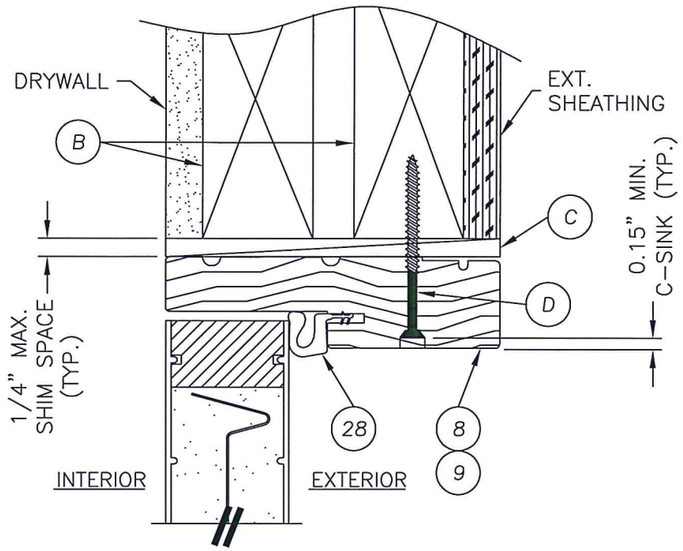
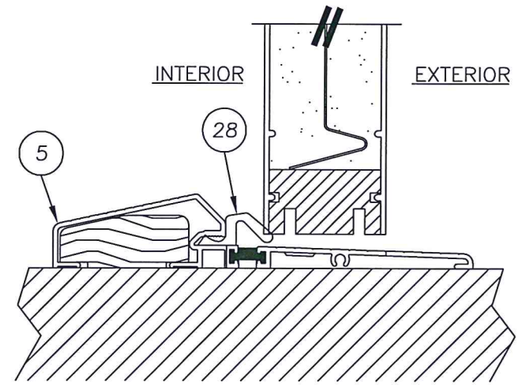


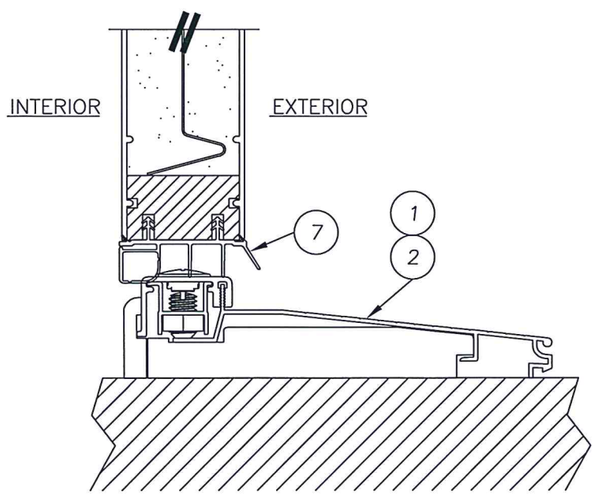
1/5 VERTICAL CROSS SECTION

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



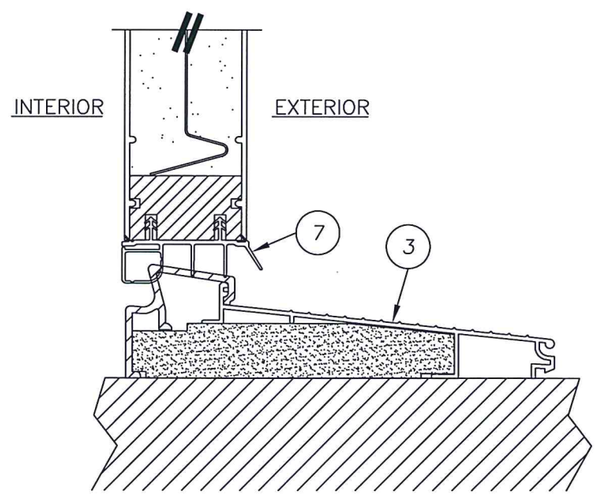
2/5 VERTICAL CROSS SECTION

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



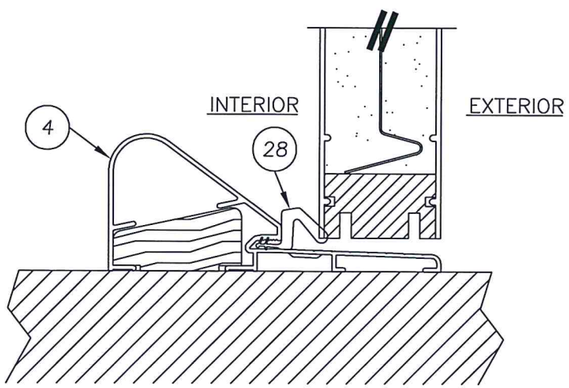
3/5 VERTICAL CROSS SECTION

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



4/5 VERTICAL CROSS SECTION

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



5/5 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
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
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PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR "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-4178
SHEET 5 OF 7

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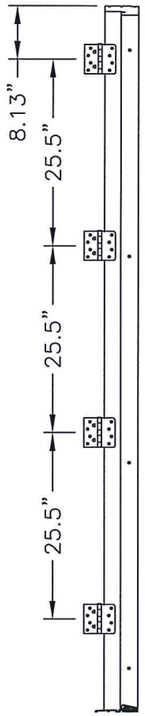
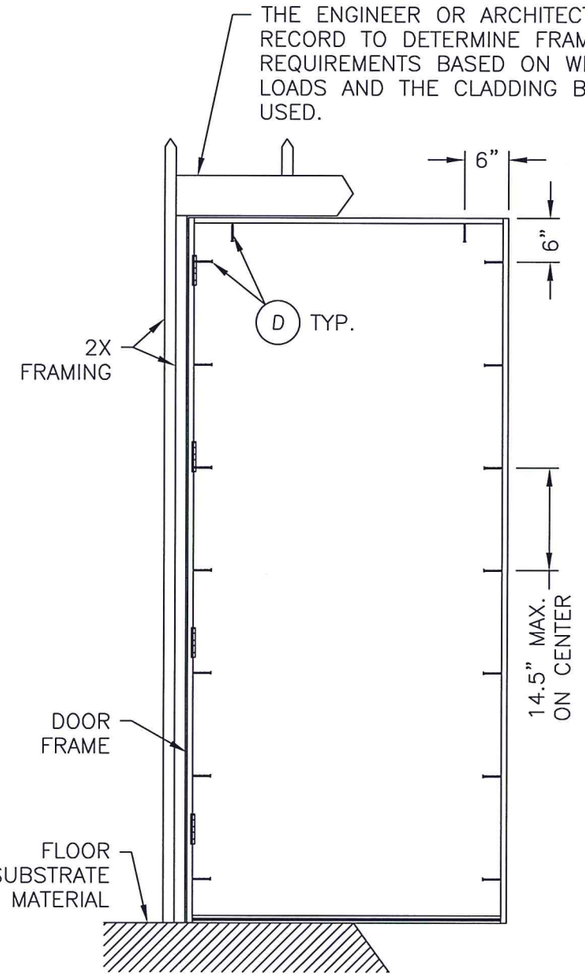
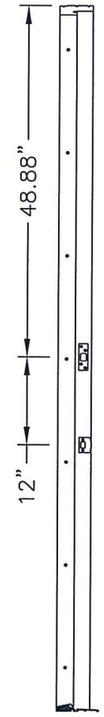


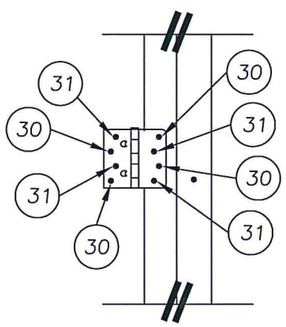
HINGE DETAIL



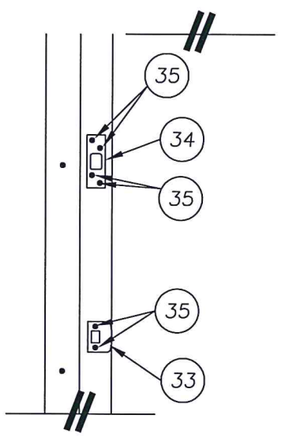
BUCK ANCHORING



STRIKE PLATE DETAIL



HINGE DETAIL



STRIKE PLATE DETAIL

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

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CERTIFICATE OF REGISTRATION # F-11852

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

7-22-15

PRODUCT: *SINGLE OPAQUE FIBERGLASS DOOR "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
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4178
SHEET 6 OF 7

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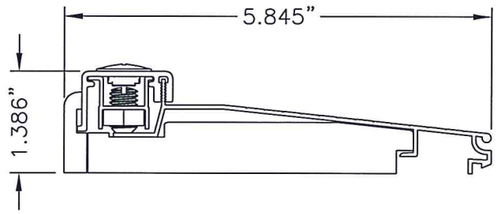
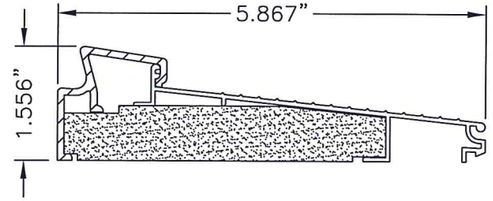
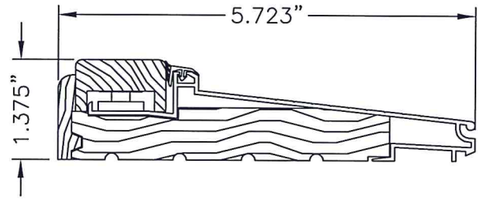
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	WOOD
D	#10 X 2-1/2" PFH WOOD SCREW	STEEL
G	KWIKSET 200 SERIES PASSAGE LOCK	STEEL
H	KWIKSET 600 SERIES DEADBOLT	STEEL
1	INSWING ADJUSTABLE THRESHOLD (IS300AJ)	ALUM./WOOD
2	INSWING THRESHOLD (IS300HP5)	ALUM./COMP.
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
16	HINGE STILE (CLASSIC CRAFT)	WOOD/LVL
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
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



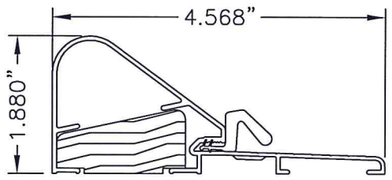
2 THRESHOLD
INSWING ADJUSTABLE



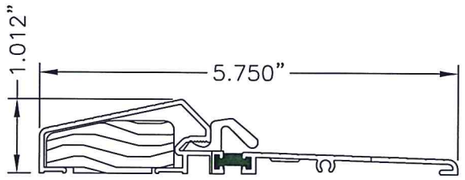
3 THRESHOLD
INSWING SELF-ADJUST



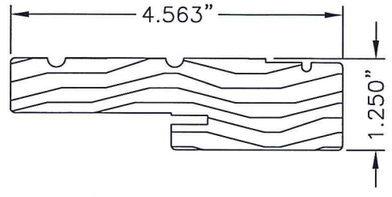
1 THRESHOLD
INSWING ADJUSTABLE



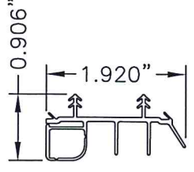
4 THRESHOLD
OUTSWING COASTAL



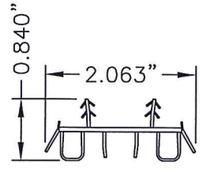
5 THRESHOLD
OUTSWING STANDARD



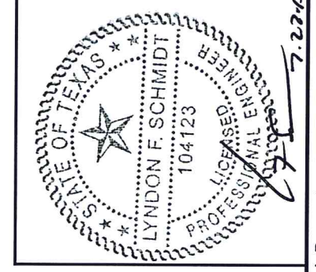
9 8 JAMB



7 SWEEP



52 SWEEP



7.22.15

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 "IMPACT" INSWING / OUTSWING

PART OR ASSEMBLY: BILL OF MATERIALS & 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-4178
SHEET 7 OF 7

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J:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 601 - 80 Opaque FG Imp IS - OS Sgls Dbls w-wo Imp SLIC - Drawings\Current\TX-4175-83.dwg, X7