THERMA-TRU®

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

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

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

EVALUATED FOR USE IN THE STATE OF TEXAS

THE THERMA-TRU FIBERGLASS DOOR DESCRIBED HEREIN COMPLIES WITH THE INTERNATIONAL RESIDENTIAL CODE (IRC), SECTIONS R301 & R613 AND THE INTERNATIONAL BUILDING CODE (IBC), SECTIONS 1714.5 1405.12, 1609, 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. *When used in wind borne debris regions (SEAWARD and INLAND I ZONES), the Door Panel complies with Sections R301.2.1.2 and 1609.1.4 as an impact resistant product and does not require the use of an approved impact resistant covering. The Sidelite Panels do not meet impact resistant requirements and must be protected with an impact resistant covering in compliance with sections R301.2.1.2 and 1609.1.4. This product does not meet the requirements for enhanced protection of essential facilities as defined in ASTM E1996.*
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.*

SUPPORTING DOCUMENTS & EVIDENCE

1. *Testing per TAS 201-94, TAS 202-94 and TAS 203-94 as performed by Testing Evaluation Laboratories Inc. and reported in test report number TEL 06-1031-3, dated November 9, 2006 and signed by Wendell W. Haney, P.E.*
2. *Anchor analysis for loading conditions prepared, signed and sealed by Wendell W. Haney, P.E. Glass load resistance report ASTM E1300-00, prepared by Wendell W. Haney, P.E..*
3. *Certificate of Participation issued by the National Accreditation and Management Institute, Inc., certifying that Therma-Tru Corporation. is manufacturing products within a Quality Assurance program.*

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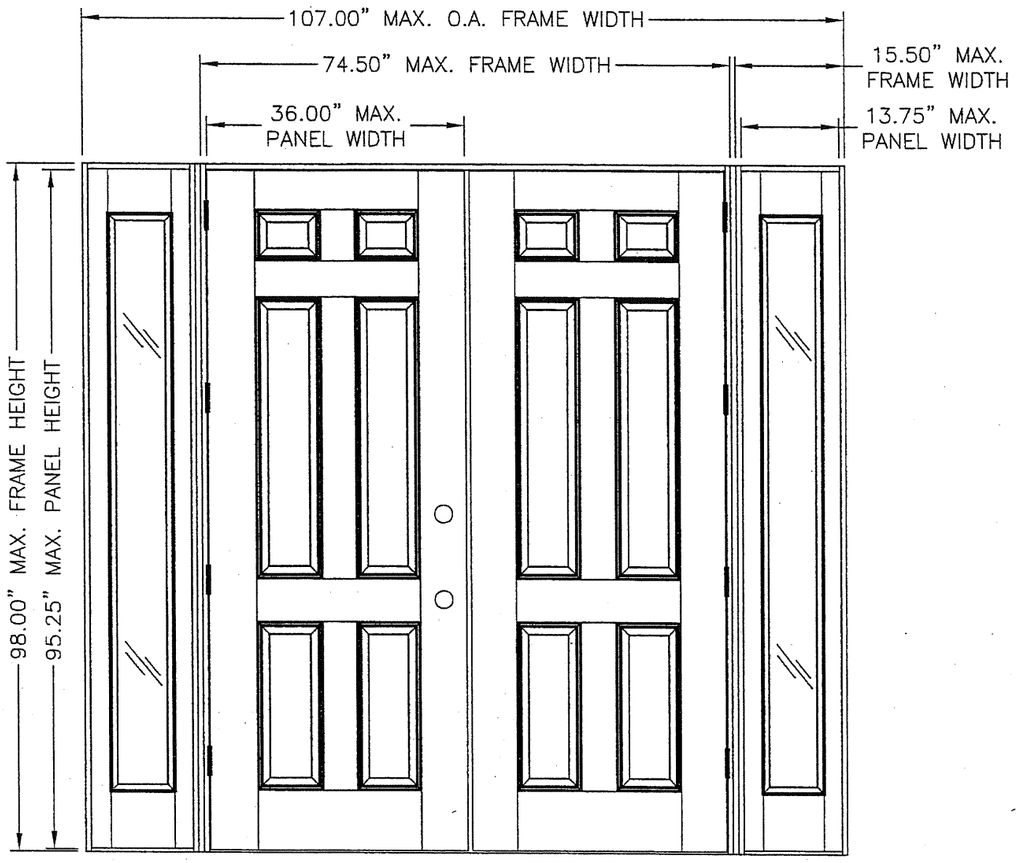

"SMOOTH STAR", "CLASSIC CRAFT", "CLASSIC CRAFT RUSTIC" & "FIBER CLASSIC"

DOOR TYPE	SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE	
			POSITIVE	NEGATIVE
CLASSIC CRAFT	OUTSWING	107.00" X 96.50"	+65.0	-65.0
	INSWING	107.00" X 98.00"	+65.0	-65.0
FIBER CLASSIC	OUTSWING	107.00" X 96.50"	+65.0	-65.0
	INSWING	107.00" X 98.00"	+65.0	-65.0
SMOOTH STAR	OUTSWING	107.00" X 96.50"	+65.0	-65.0
	INSWING	107.00" X 98.00"	+65.0	-65.0
RUSTIC	OUTSWING	107.00" X 96.50"	+65.0	-65.0
	INSWING	107.00" X 98.00"	+65.0	-65.0

Documents Prepared By:
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Haney, P.E. No. 54158

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

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

NO.	DATE	BY	REVISIONS

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 1 OF 13

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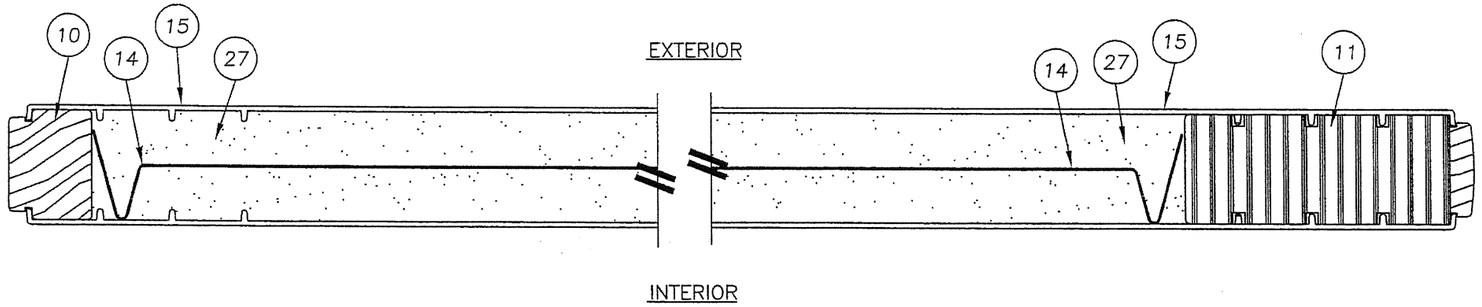
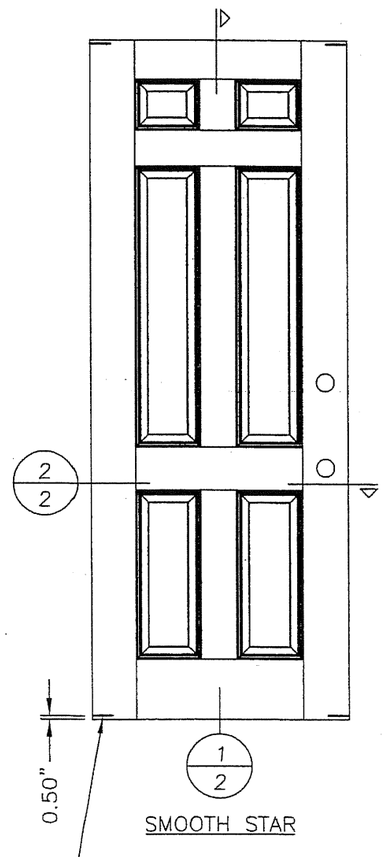
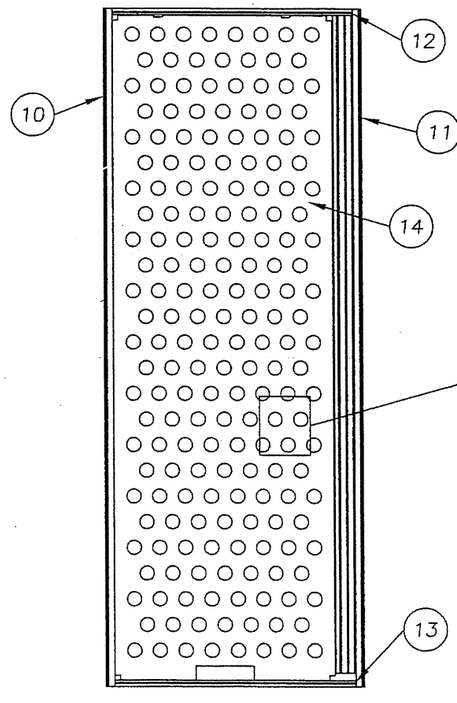


2/2 HORIZONTAL CROSS SECTION
SMOOTH STAR

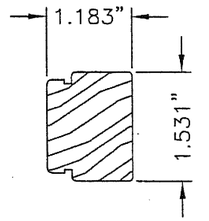


SMOOTH STAR

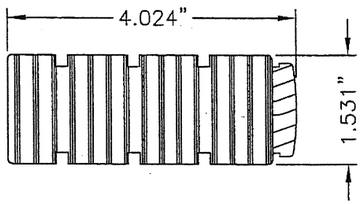
32 TYP. 4 CORNERS OF PANEL



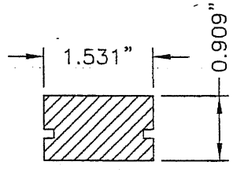
28.86% OPEN AREA MAX.



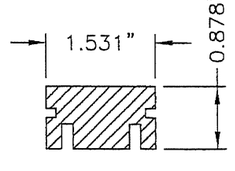
10 HINGE STILE
SMOOTH STAR



11 LOCK STILE
SMOOTH STAR



12 TOP RAIL
SMOOTH STAR



13 BOTTOM RAIL
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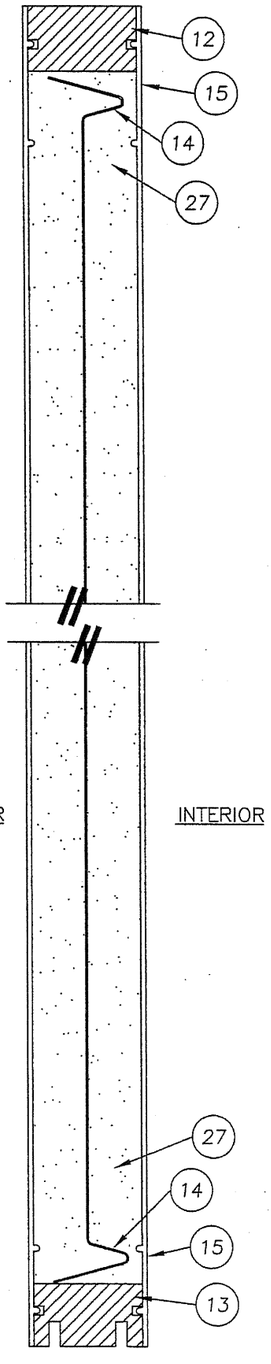

1/2 VERTICAL CROSS SECTION
SMOOTH STAR

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Certificate Of Authorization No. 9813
Wendell W. Hafner, P.E. No. 54158

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

PART OR ASSEMBLY: DOOR PANEL DETAILS (SMOOTH STAR)

NO.	DATE	BY	REVISIONS

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 2 OF 13

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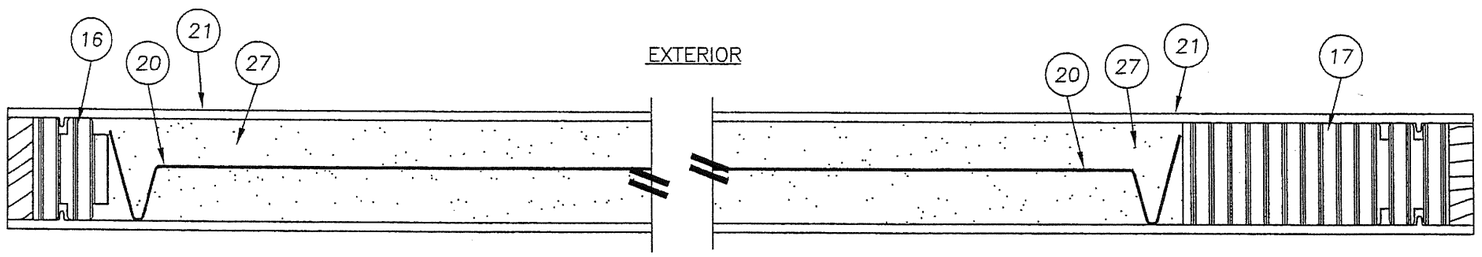
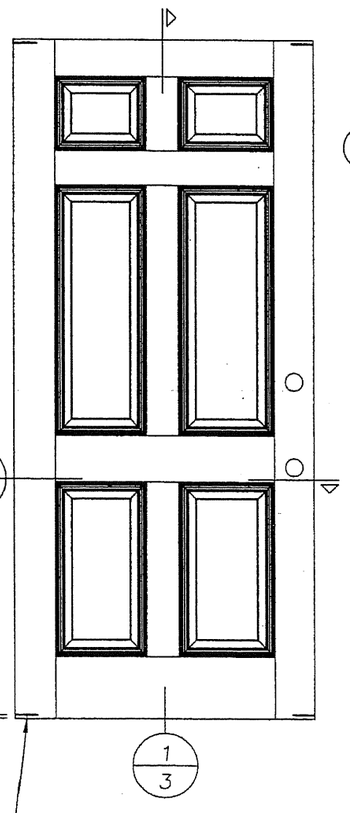
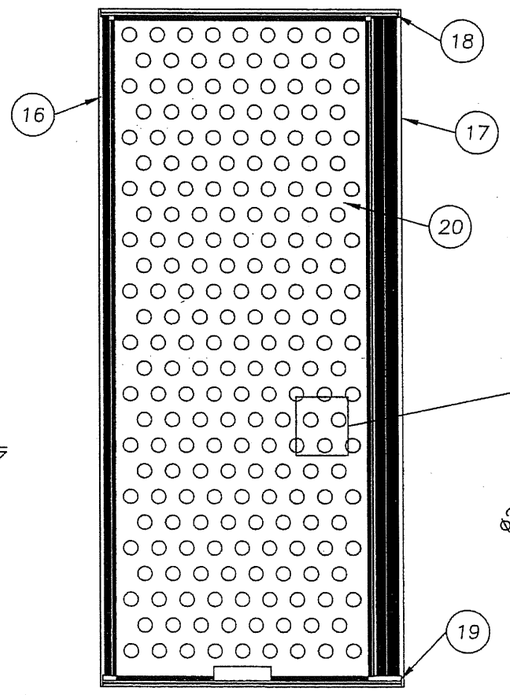


2/3 HORIZONTAL CROSS SECTION
CLASSIC CRAFT

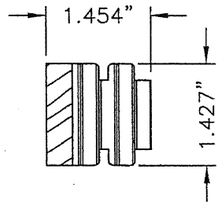


CLASSIC CRAFT

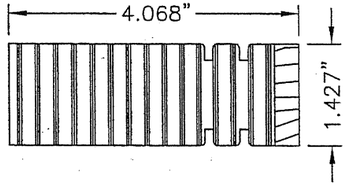
32 TYP. 4 CORNERS OF PANEL



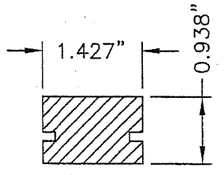
28.86% OPEN AREA MAX.



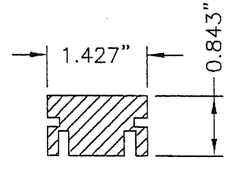
16 HINGE STILE
CLASSIC CRAFT



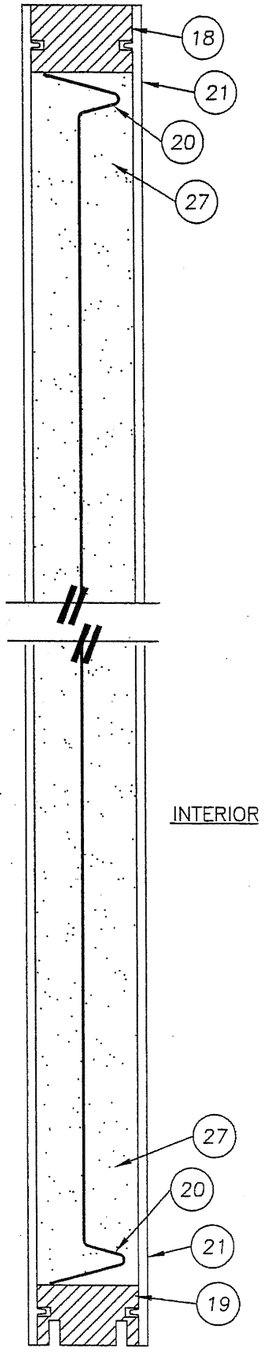
17 LOCK STILE
CLASSIC CRAFT



18 TOP RAIL
CLASSIC CRAFT



19 BOTTOM RAIL
CLASSIC CRAFT



1/3 VERTICAL CROSS SECTION
CLASSIC CRAFT

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Wendell W. Hafer, P.E. No. 54158

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

PART OR ASSEMBLY: DOOR PANEL DETAILS (CLASSIC CRAFT)

NO.	DATE	BY
REVISIONS		

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 3 OF 13

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2/4 HORIZONTAL CROSS SECTION
CLASSIC CRAFT RUSTIC

CLASSIC CRAFT RUSTIC

28.86% OPEN
AREA MAX.

22 LOCK & HINGE STILE
CLASSIC CRAFT RUSTIC

24 BOTTOM RAIL
CLASSIC CRAFT RUSTIC

23 TOP RAIL
CLASSIC CRAFT RUSTIC

1/4 VERTICAL CROSS SECTION
CLASSIC CRAFT RUSTIC

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2-16-07
Wendell W. Hanes, P.E. No. 54158

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

PART OR ASSEMBLY:
DOOR PANEL DETAILS
(CLASSIC CRAFT RUSTIC)

NO.	DATE	BY	REVISIONS

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
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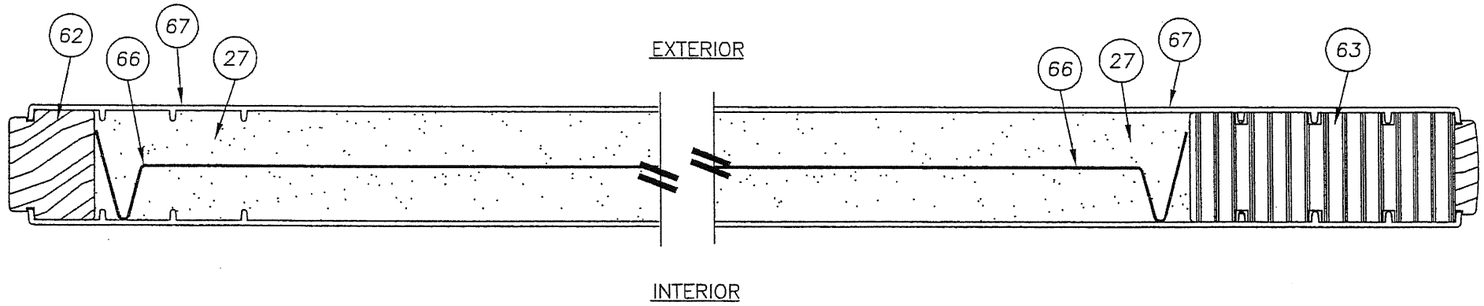
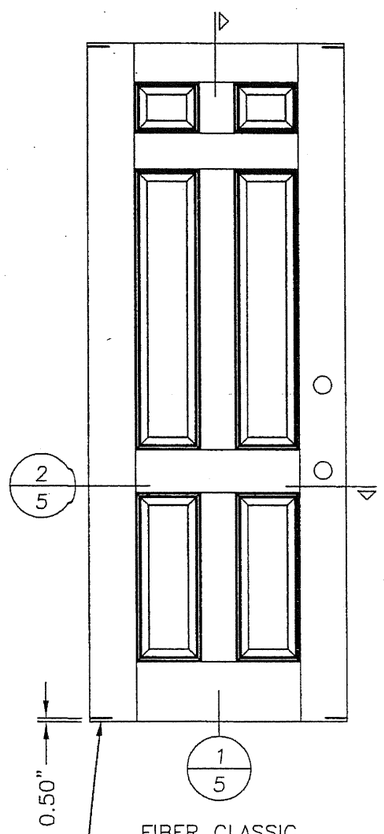
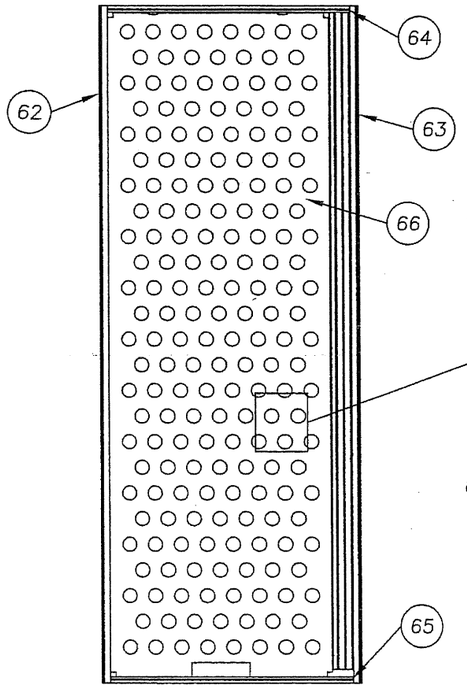


2/5 HORIZONTAL CROSS SECTION
FIBER CLASSIC

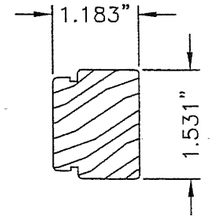


FIBER CLASSIC

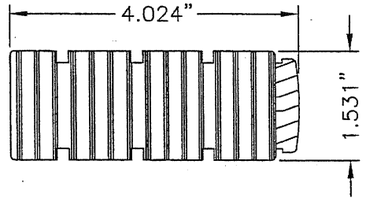
32 TYP. 4 CORNERS OF PANEL



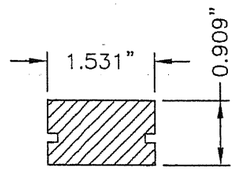
28.86% OPEN AREA MAX.



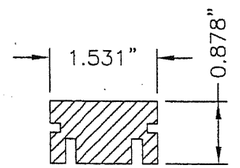
62 HINGE STILE
FIBER CLASSIC



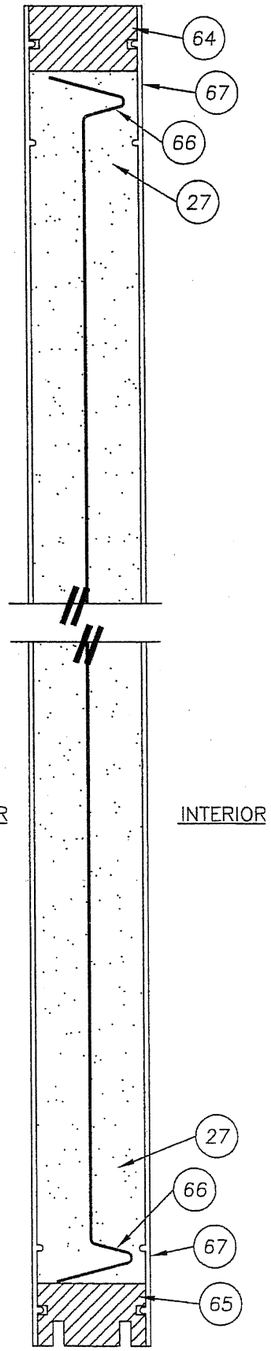
63 LOCK STILE
FIBER CLASSIC



64 TOP RAIL
FIBER CLASSIC



65 BOTTOM RAIL
FIBER CLASSIC



1/5 VERTICAL CROSS SECTION
FIBER CLASSIC

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Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
2-16-07
Wendell W. Harvey, P.E. No. 54158

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

PART OR ASSEMBLY: DOOR PANEL DETAILS (FIBER CLASSIC)

NO.	DATE	REVISIONS	BY

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 5 OF 13

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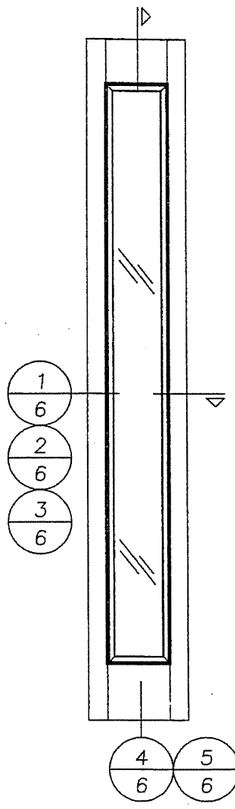
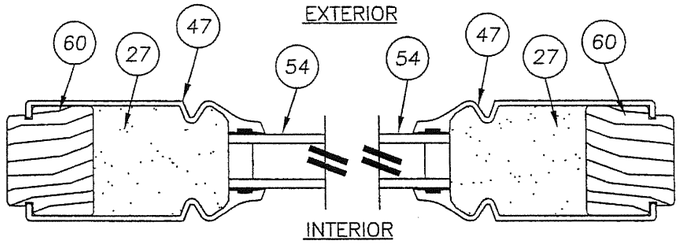
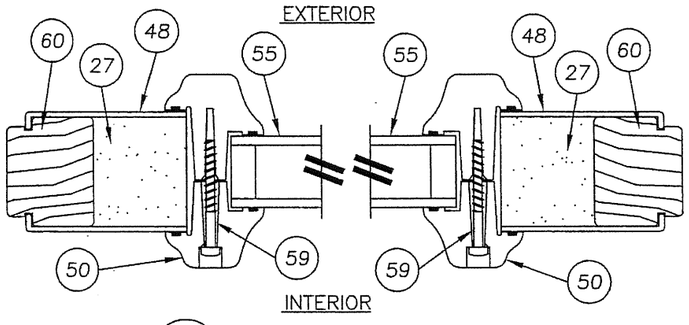




1/6 HORIZONTAL CROSS SECTION (CLASSIC CRAFT)



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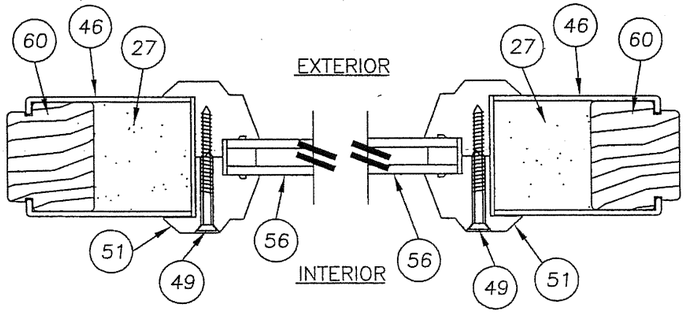

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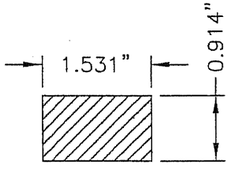
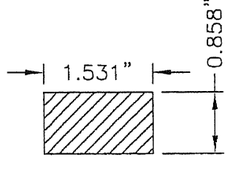
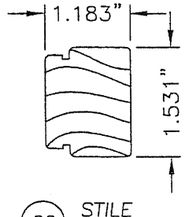


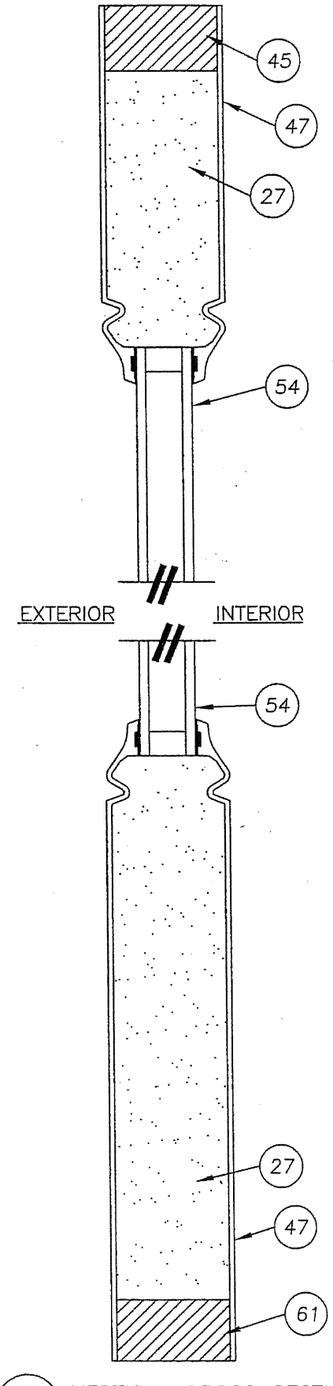
45 TOP RAIL SIDELITE



61 BOTTOM RAIL SIDELITE



60 STILE SIDELITE



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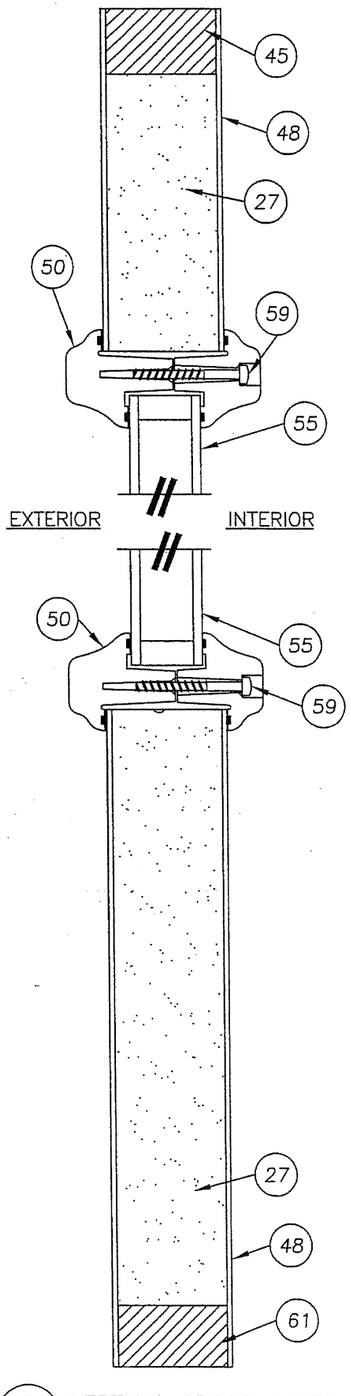
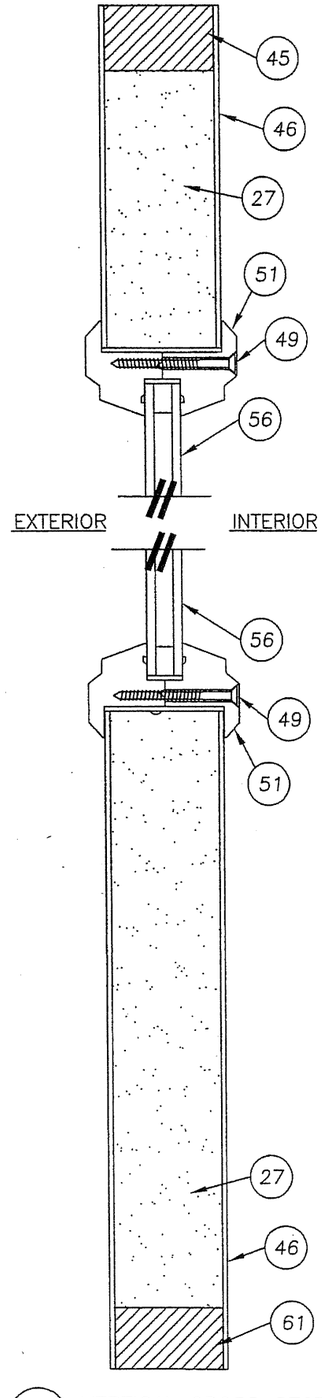


5/6 VERTICAL CROSS SECTION (FIBER CLASSIC)



6/6 VERTICAL CROSS SECTION (SMOOTH STAR)

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Documents Prepared By:
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Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Herley, P.E. No. 54158
2-16-07

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

PART OF ASSEMBLY: SIDELITE PANEL DETAILS

NO.	DATE	BY
REVISIONS		

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 6 OF 13

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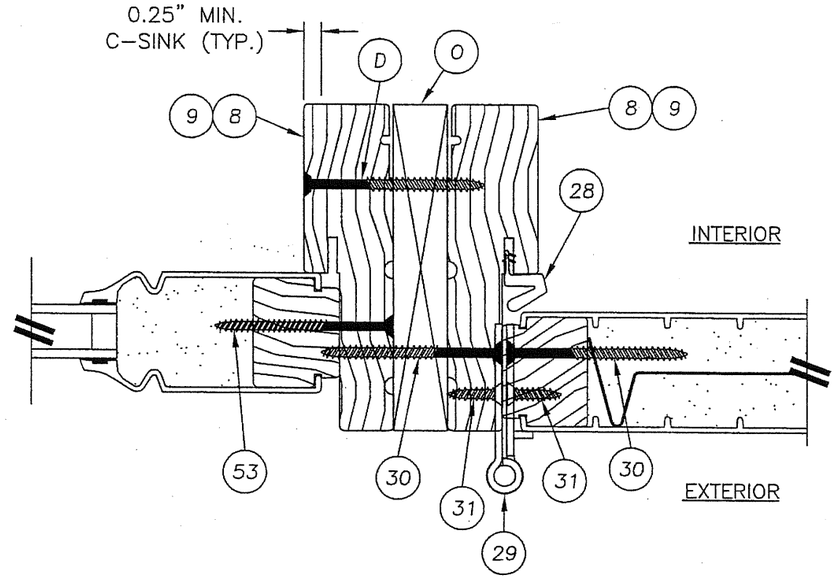
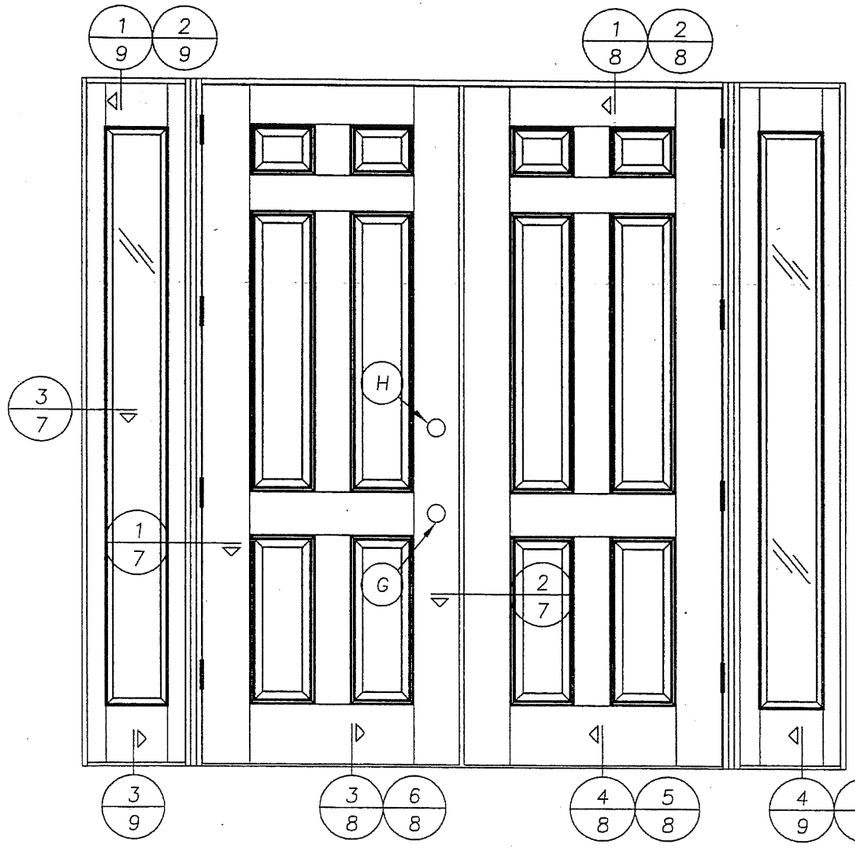
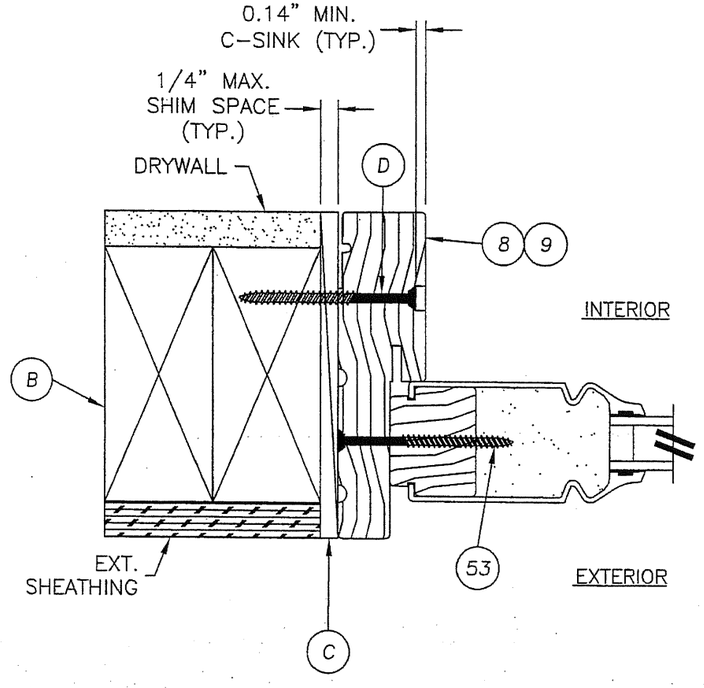


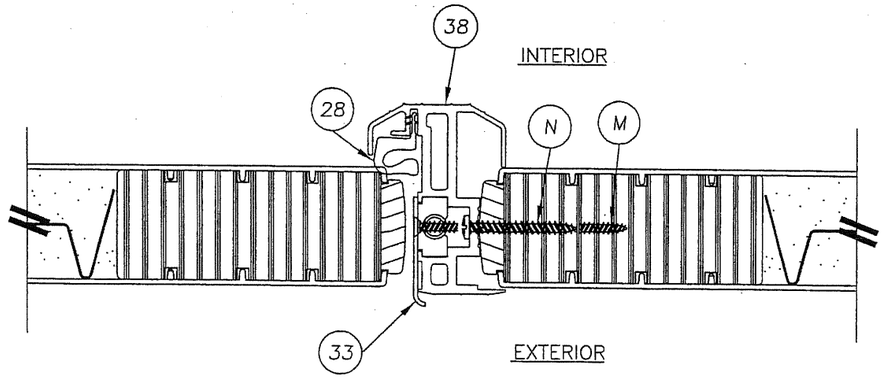
1/9 2/9 — 1/8 2/8



1/7 HORIZONTAL CROSS SECTION
@ HINGE
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES



3/7 HORIZONTAL CROSS SECTION
@ SIDELITE
CLASSIC CRAFT PANEL SHOWN
SEE SIDELITE PANEL DETAILS FOR OPTIONAL PANEL TYPES



2/7 HORIZONTAL CROSS SECTION
@ ASTRAGAL
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES

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Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
2-16-07
Wendell W. Haney, P.E. No. 54158

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

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 7 OF 13

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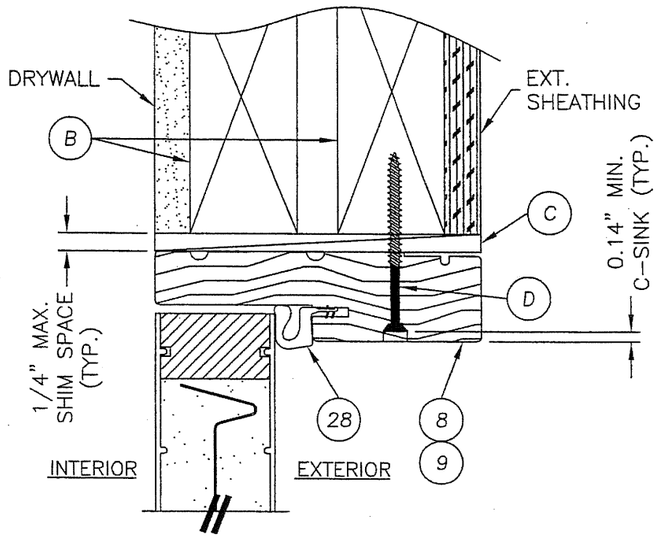
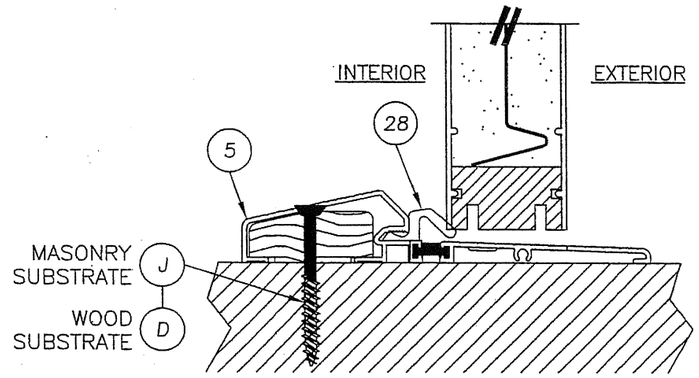
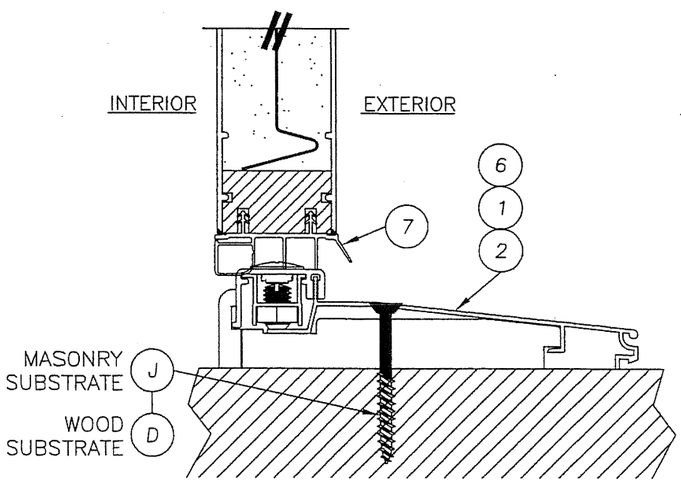


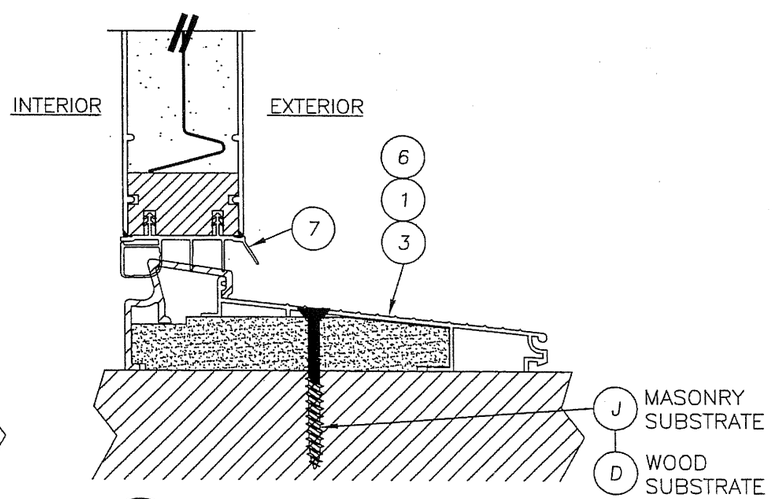
1/8 VERTICAL CROSS SECTION
@ HEAD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES



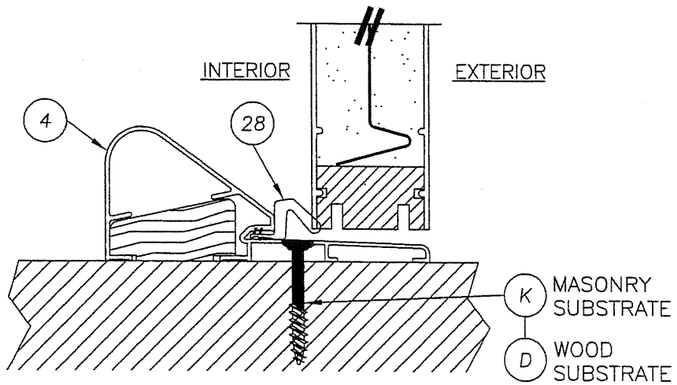
3/8 VERTICAL CROSS SECTION
@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES



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



6/8 VERTICAL CROSS SECTION
@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES

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Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Haney, P.E. No. 54158

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

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 8 OF 13

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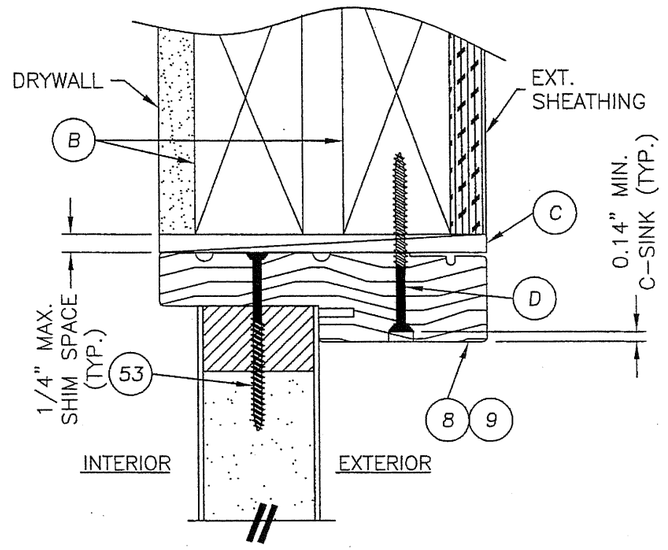

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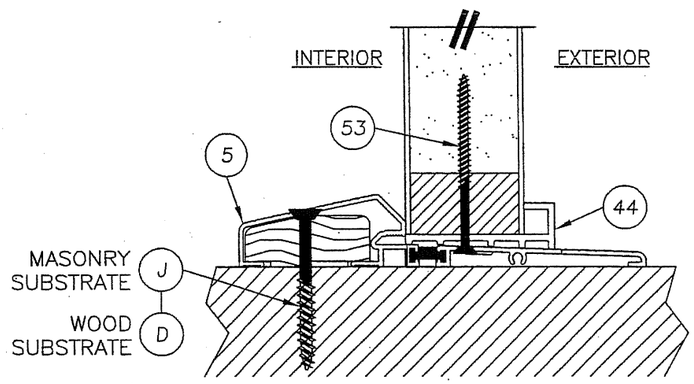

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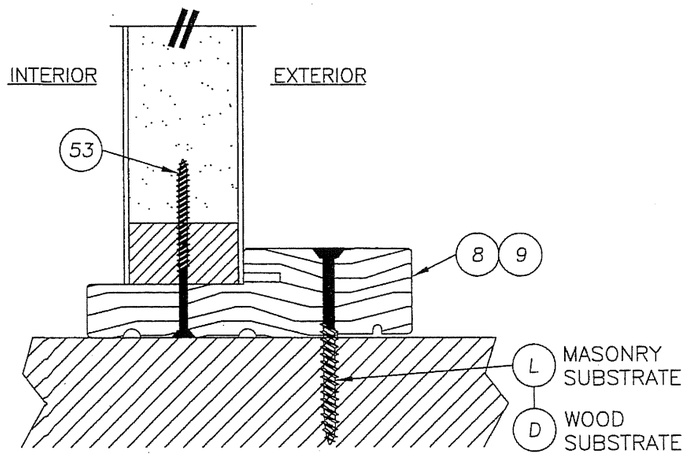

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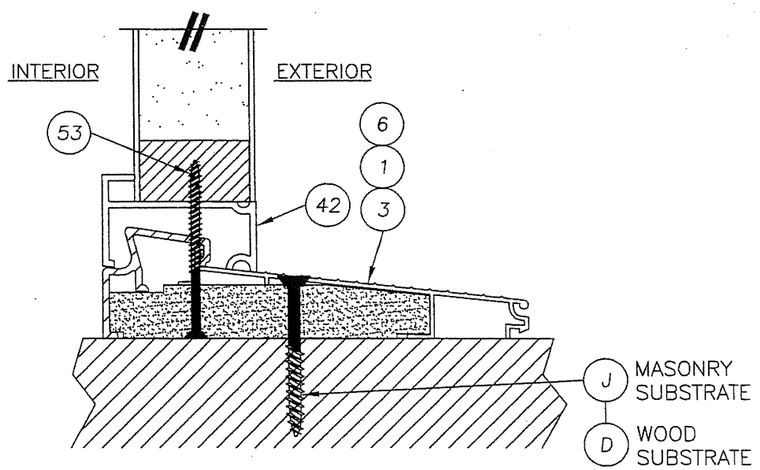
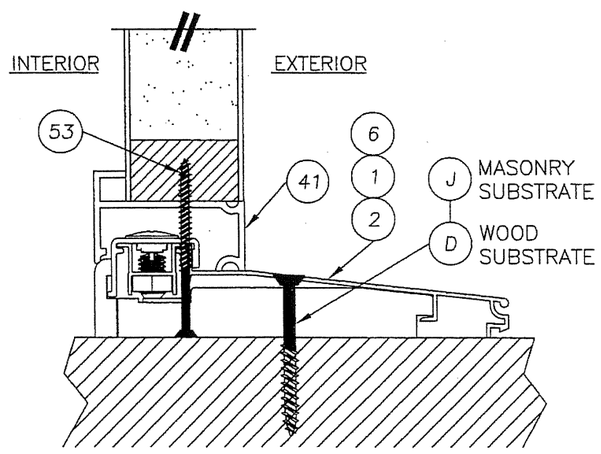


3/9 VERTICAL CROSS SECTION



6/9 VERTICAL CROSS SECTION

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Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Haney, P.E. No. 54158

2-16-07

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

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 9 OF 13

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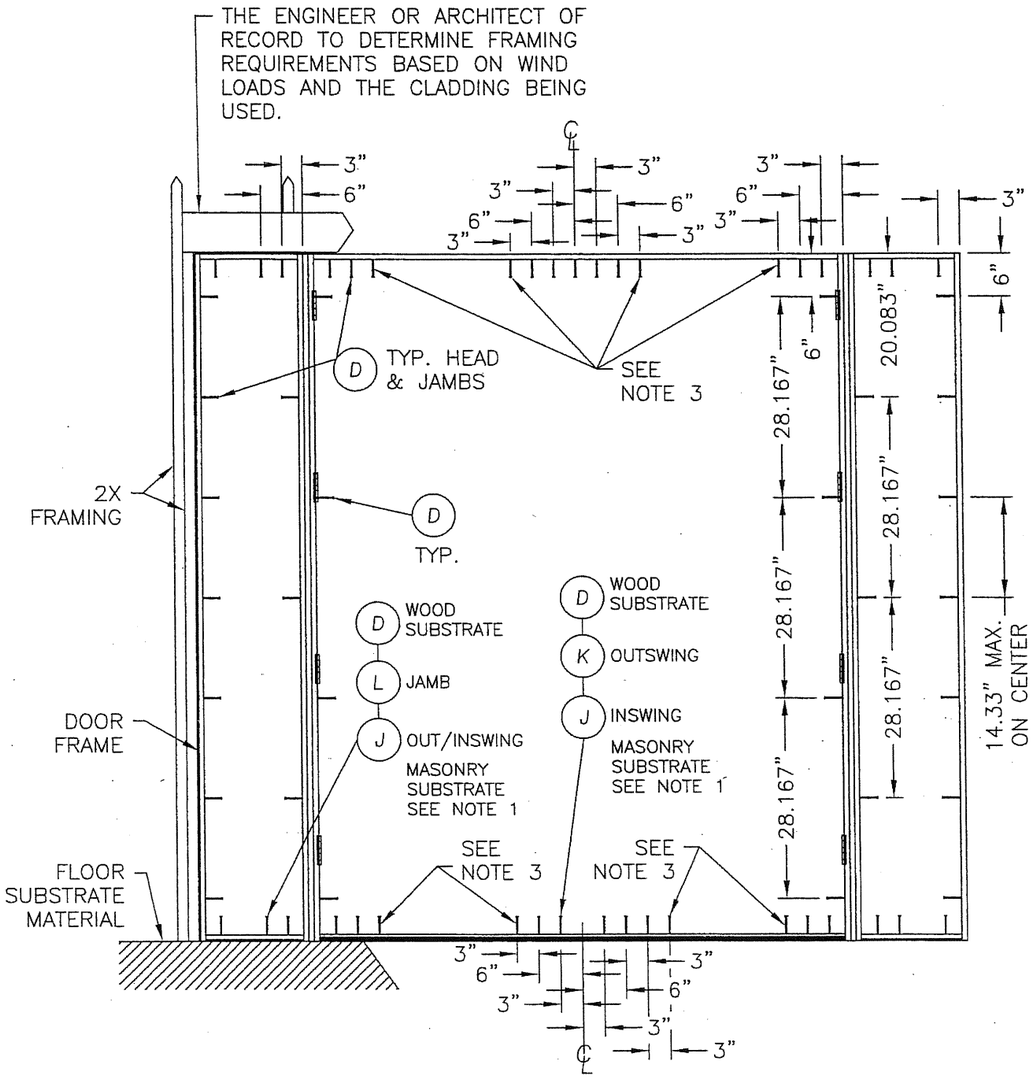
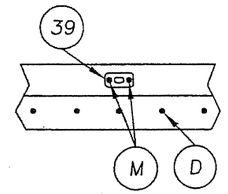
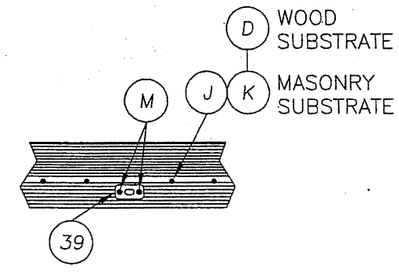




ASTRAGAL STRIKE PLATE
@ HEAD



ASTRAGAL STRIKE PLATE
@ THRESHOLD

NOTES:

1. 1/4" ITW CONCRETE SCREWS ANCHORING FRAME AND/OR SILL REQUIRE A MINIMUM 2-1/2" CLEARANCE TO MASONRY EDGES AND A MINIMUM 3" CLEARANCE TO ADJACENT CONCRETE SCREWS UNLESS OTHERWISE NOTED BY CONCRETE SCREW MANUFACTURER.
2. THE ASTRAGAL BOLT HAS A 3" THROW AT THE TOP AND THE BOTTOM.
3. THESE SCREWS ARE REQUIRED ONLY WHEN THE DP EXCEEDS 55 PSF.

Documents Prepared By:
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Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Harper, P.E. No. 54158
2-16-07

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

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS	BY

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 10 OF 13

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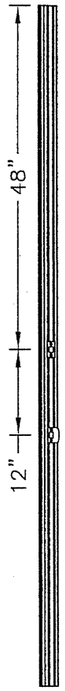
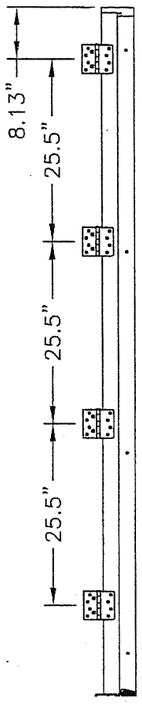
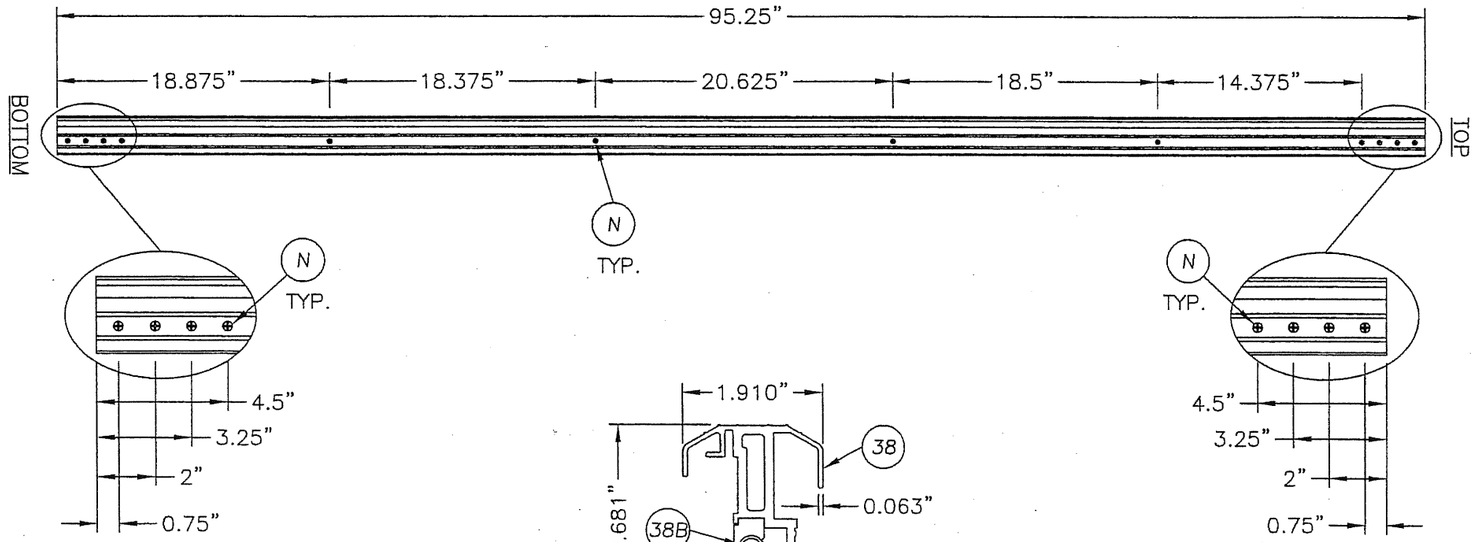
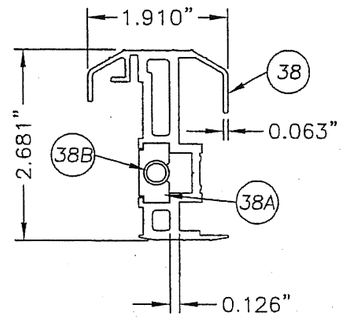


STRIKE PLATE LOCATION

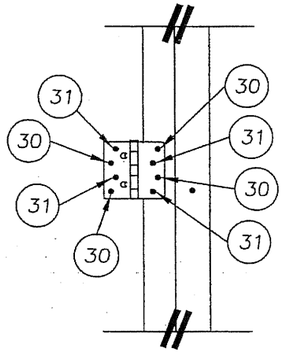


HINGE LOCATION





38 ASTRAGAL DETAIL



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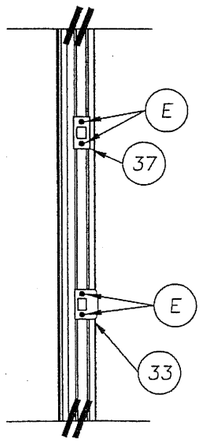
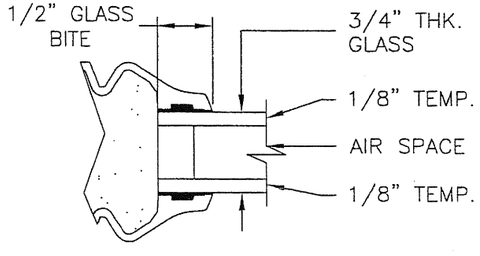
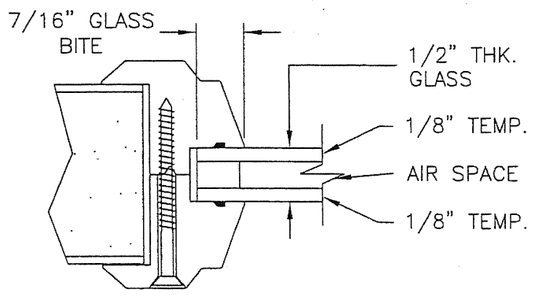


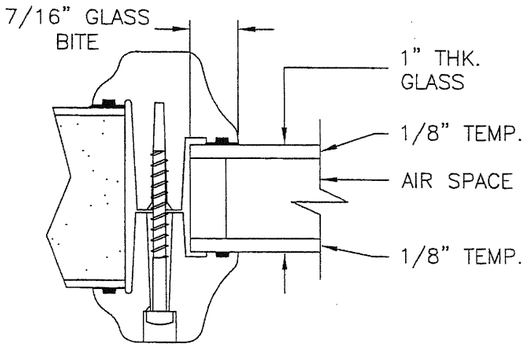
STRIKE PLATE DETAIL



54 GLAZING DETAIL 3/4" INSLATED GLASS



56 GLAZING DETAIL 1/2" INSLATED GLASS



55 GLAZING DETAIL 1" INSLATED GLASS

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Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Hand, P.E. No. 54158
2-16-07

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

PART OR ASSEMBLY: ASTRAGAL DETAILS

NO.	DATE	REVISIONS	BY

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 11 OF 13

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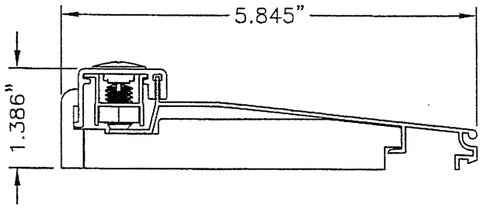
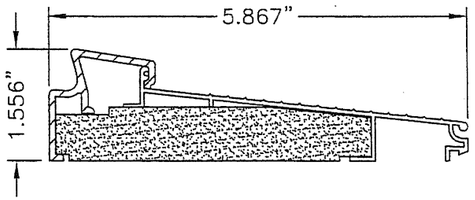
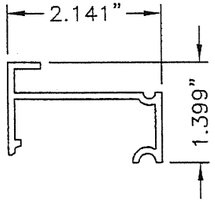


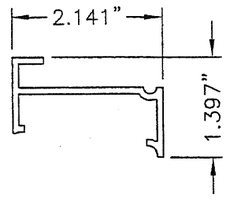
2 THRESHOLD
INSWING ADJUSTABLE



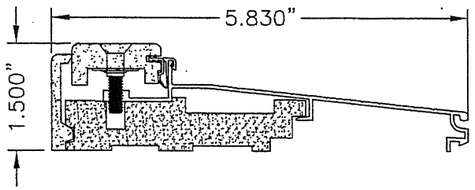
3 THRESHOLD
INSWING SELF-ADJUST



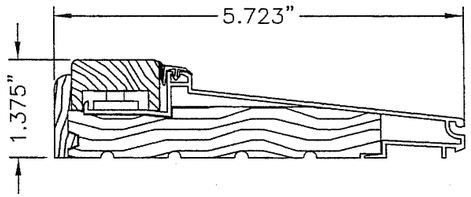
41 INSWING SIDELITE
SPACER



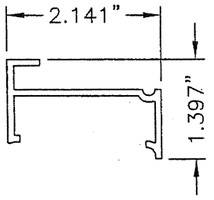
43 INSWING SIDELITE
SPACER



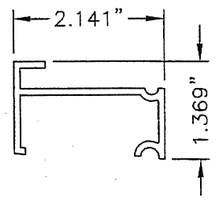
6 THRESHOLD
INSWING
MAX. DP RATING = +/- 50.0 PSF



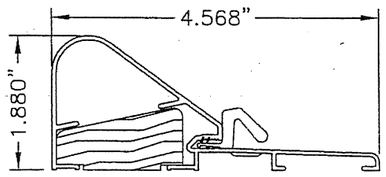
1 THRESHOLD
INSWING ADJUSTABLE



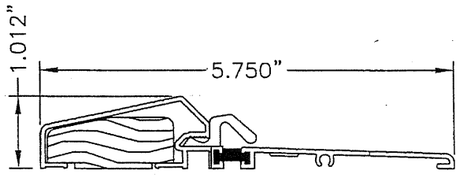
40 INSWING SIDELITE
SPACER



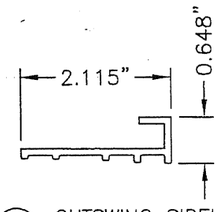
42 INSWING SIDELITE
SPACER



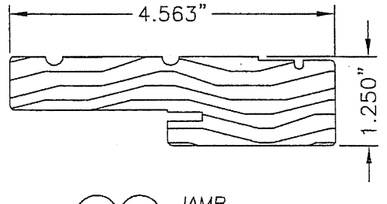
4 THRESHOLD
OUTSWING COASTAL



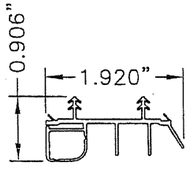
5 THRESHOLD
OUTSWING STANDARD



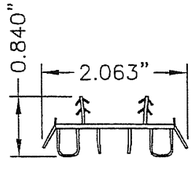
44 OUTSWING SIDELITE
SPACER



9 8 JAMB



7 SWEEP



52 SWEEP

Documents Prepared By:
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Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
2-16-07
Wendell W. Hanes, P.E. No. 54158

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

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	BY
REVISIONS		

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 12 OF 13

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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X FRAMING	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
I	1/4" X 3-3/4" ITW TAPCON	STEEL
J	1/4" X 2-1/4" ITW TAPCON	STEEL
K	1/4" X 1-3/4" ITW TAPCON	STEEL
L	1/4" X 2-3/4" ITW TAPCON	STEEL
M	#8 X 3" PFH SCREW (STRIKE PLATES @ HEAD & SILL)	STEEL
N	#10 X 1-1/2" PPH SCREW ASTRAGAL TO PANEL	STEEL
O	1X MULLION	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
5	OUTSWING STANDARD THRESHOLD	ALUM./WOOD
6	INSWING THRESHOLD	–
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 0.072" 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 0.125" 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 0.125" 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
35	#8 X 3" PFH SCREW	STEEL
37	DEADBOLT STRIKE PLATE	STEEL

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
38	ASTRAGAL	ALUMINUM
38A	ASTRAGAL FLUSH BOLT	STEEL
38B	ASTRAGAL FLUSH BOLT RETAINER	ALUMINUM
39	ASTRAGAL STRIKE PLATE @ HEAD	STEEL
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 0.072" THK. (FIBER CLASSIC) Fy = 6,000 PSI MIN.	FIBERGLASS

Documents Prepared By:
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Florida Board of Professional Engineers
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12-15-06

PRODUCT: DOUBLE OPAQUE FIBERGLASS DOOR W/SIDELITES "IMPACT" INSWING / OUTSWING
PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	BY
REVISIONS		

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3179
SHEET 13 OF 13

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