THERMA-TRU®

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

SMOOTH STAR & FIBER CLASSIC

SINGLE "IMPACT" DOOR
INSWING / OUTSWING

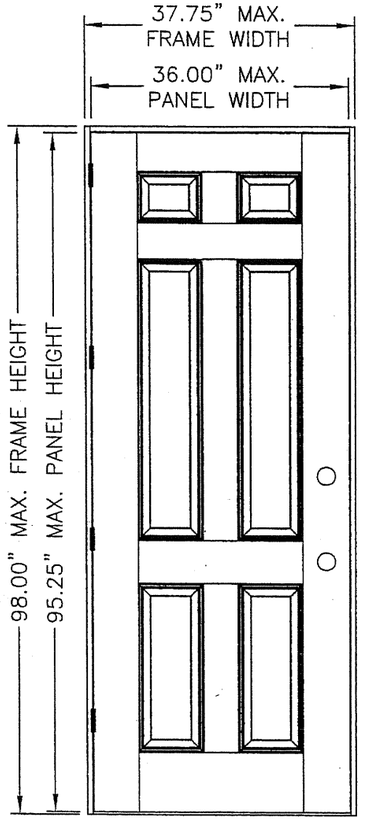
EVALUATED FOR USE IN THE STATE OF TEXAS

THE 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 Product 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. 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 06-1031-4, dated October 31, 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..*
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.*



"SMOOTH STAR" & "FIBER CLASSIC"

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

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4	HORIZONTAL CROSS SECTIONS
5	VERTICAL CROSS SECTIONS
6	FRAME ANCHORING
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Documents Prepared By:
RW 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
7-16-07
Wendell W. Haney, P.E. No. 54158

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR "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-3175
SHEET 1 OF 7

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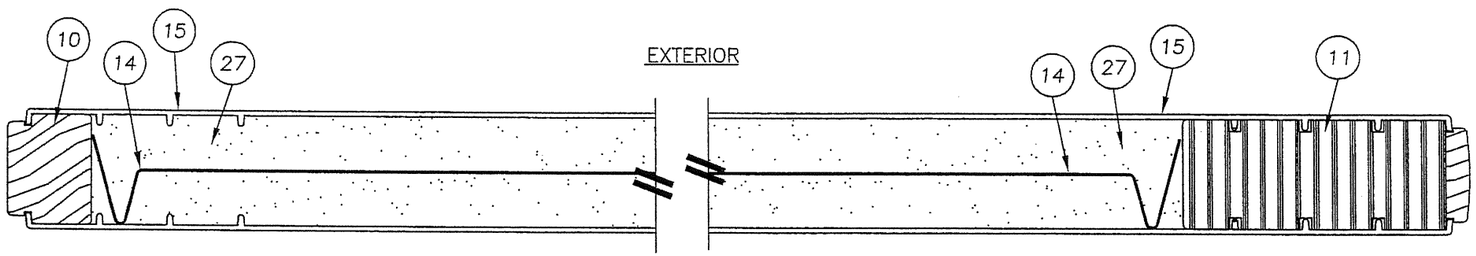
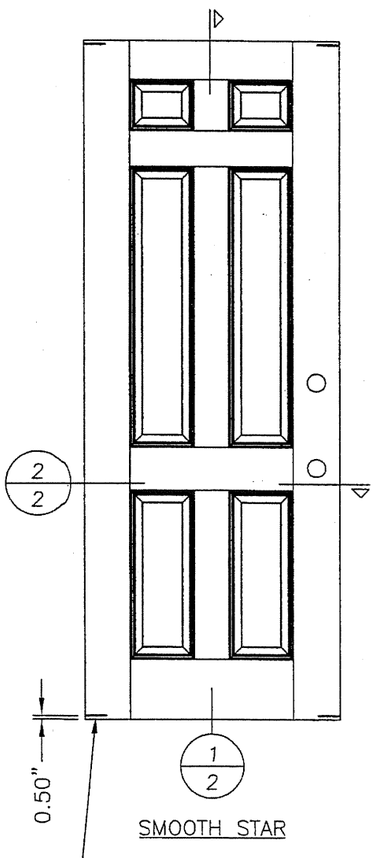
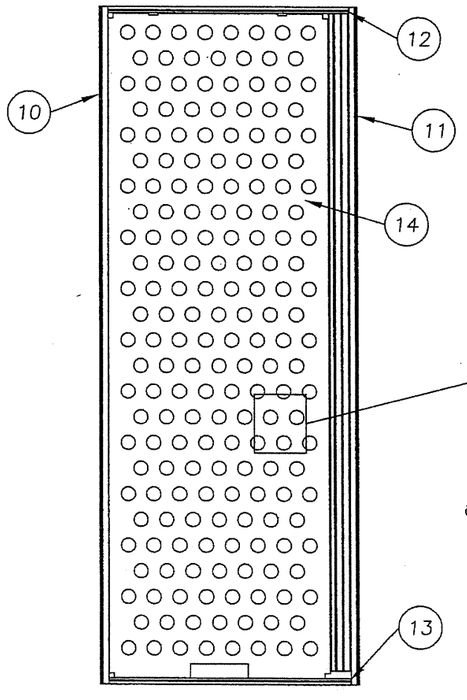


2/2 HORIZONTAL CROSS SECTION
SMOOTH STAR

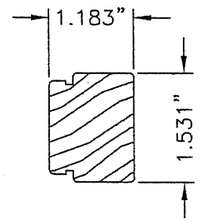


SMOOTH STAR

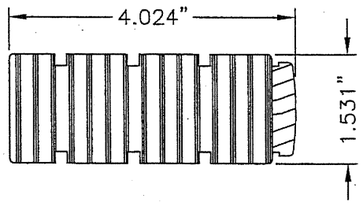
32 TYP. 4 CORNERS OF PANEL



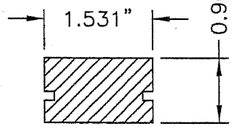
28.86% OPEN AREA MAX.



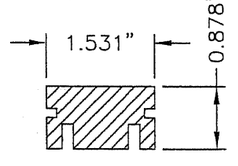
10 HINGE STILE
SMOOTH STAR



11 LOCK STILE
SMOOTH STAR



12 TOP RAIL
SMOOTH STAR



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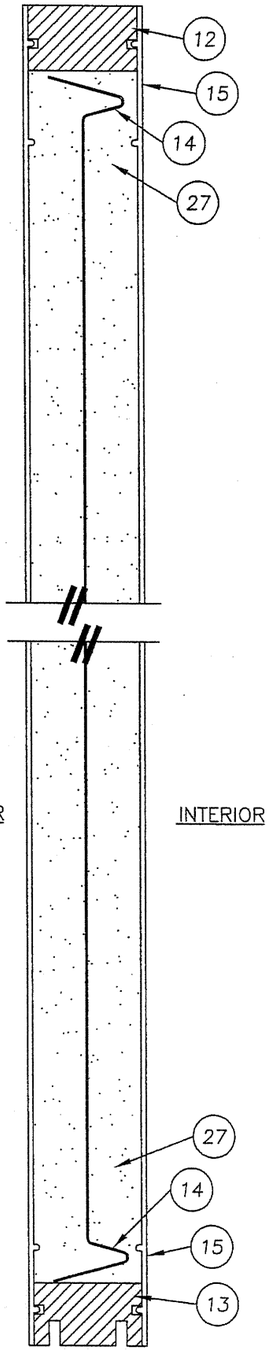
SMOOTH STAR



1/2 VERTICAL CROSS SECTION
SMOOTH STAR

Documents Prepared By:
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Phone No.: 813.659.9197
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Certificate Of Authorization No. 9813
Wendell W. Hanks, P.E. No. 54158
2-16-07

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR "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-3175
SHEET 2 OF 7

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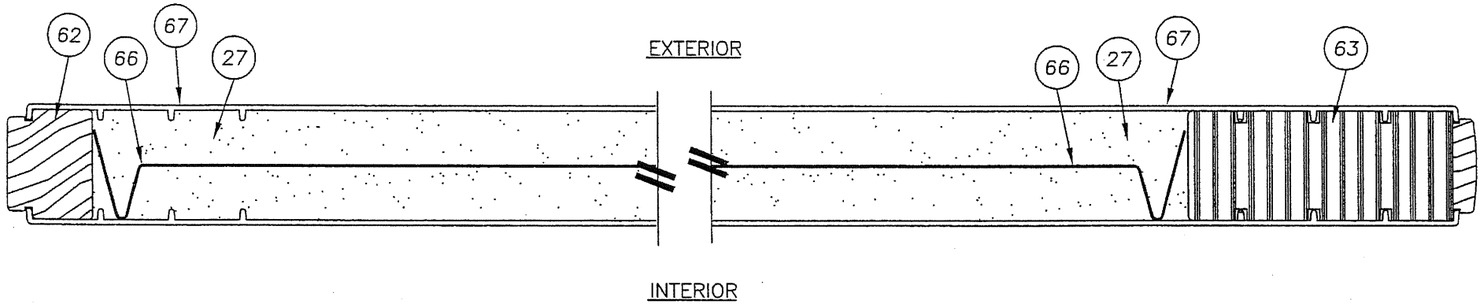
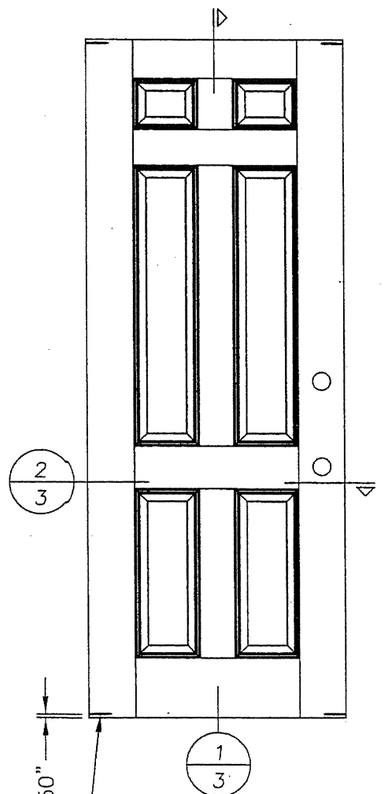
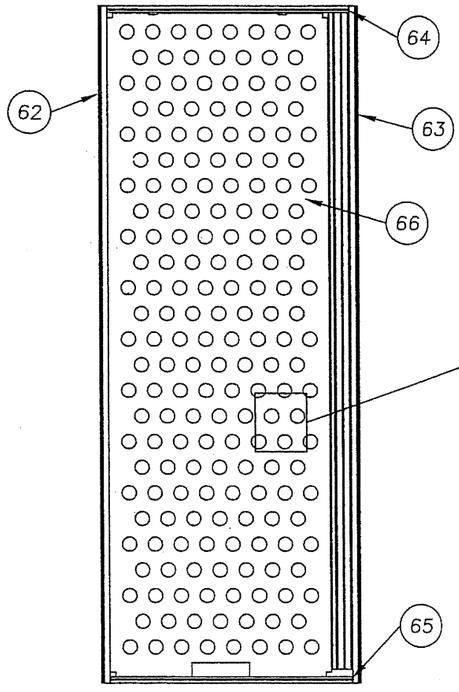


2/3 HORIZONTAL CROSS SECTION
FIBER CLASSIC

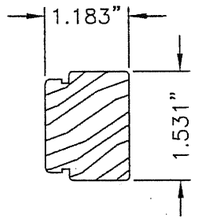


FIBER CLASSIC

32 TYP. 4 CORNERS OF PANEL



28.86% OPEN AREA MAX.



62 HINGE STILE
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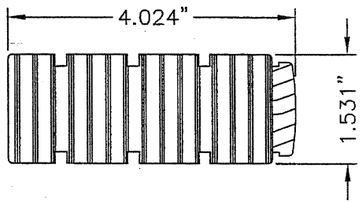
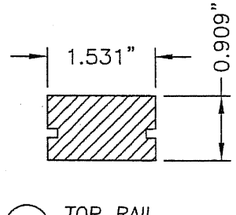
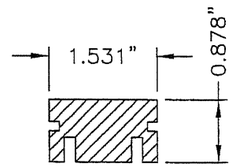


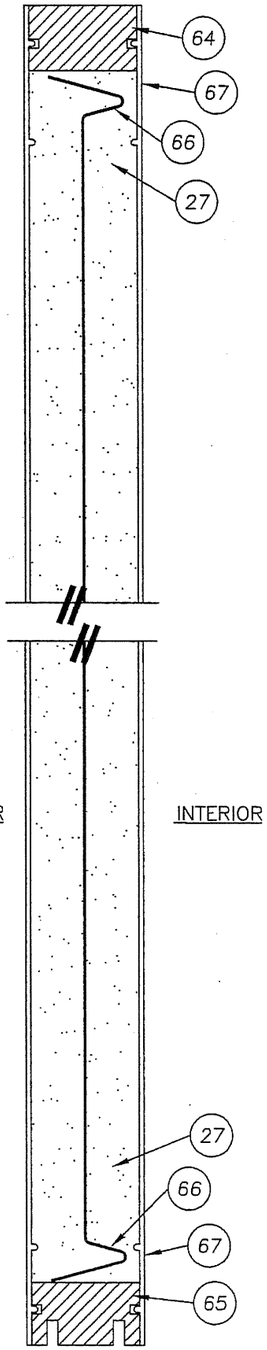
63 LOCK STILE
FIBER CLASSIC



64 TOP RAIL
FIBER CLASSIC



65 BOTTOM RAIL
FIBER CLASSIC



1/3 VERTICAL CROSS SECTION
FIBER CLASSIC

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P.O. Box 230 Valrico FL. 33595
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Certificate Of Authorization No. 9813
Wendell W. Haney, P.E. No. 54158
2-16-07

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR "IMPACT" INSWING / OUTSWING
PART OR ASSEMBLY: DOOR PANEL DETAILS (FIBER CLASSIC)

NO.	DATE	BY
REVISIONS		

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3175
SHEET 3 OF 7

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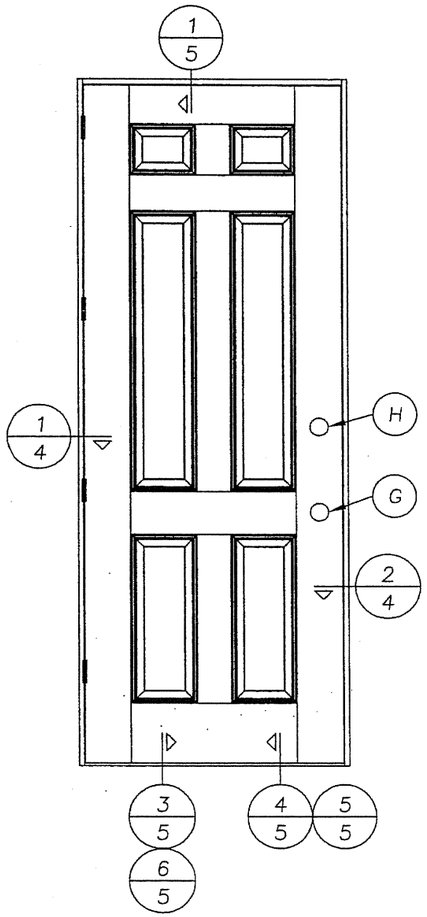
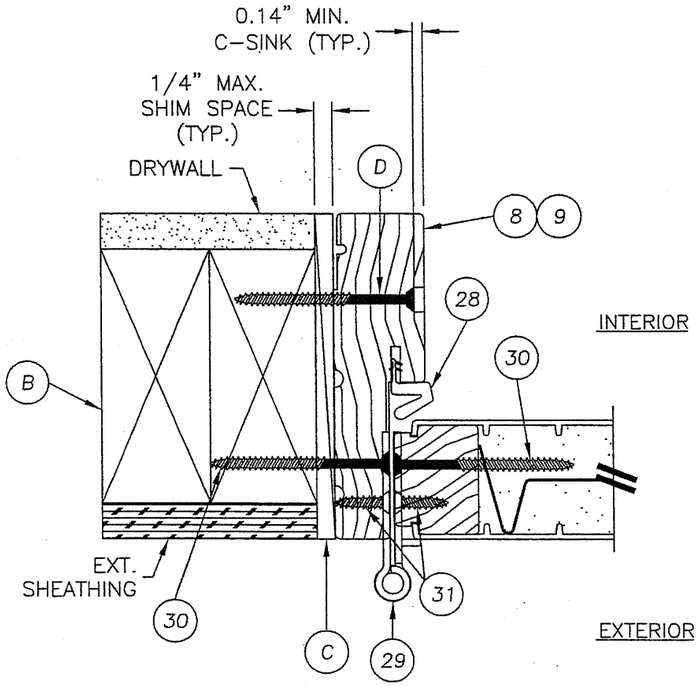
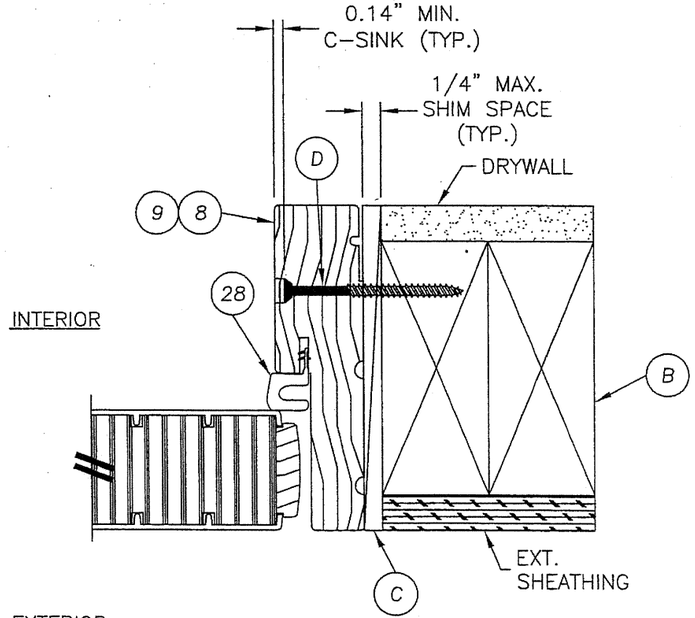




1/4 HORIZONTAL CROSS SECTION
@ HINGE
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES



2/4 HORIZONTAL CROSS SECTION
@ LATCH
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR
OPTIONAL PANEL TYPES

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

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

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX–3175
SHEET 4 OF 7

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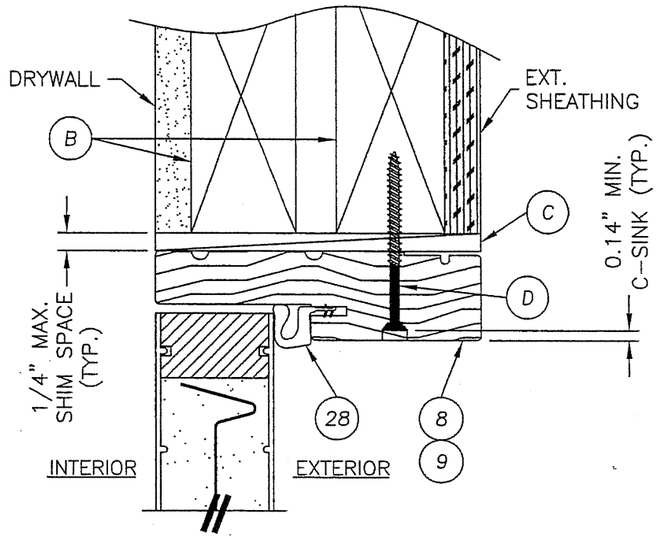
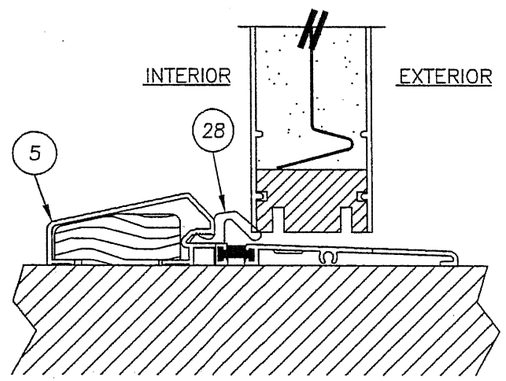
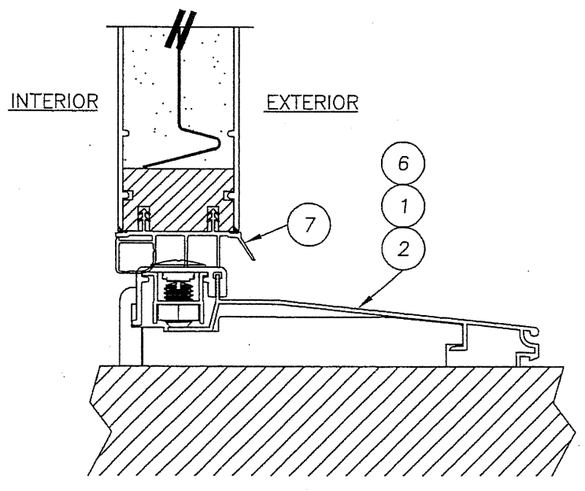


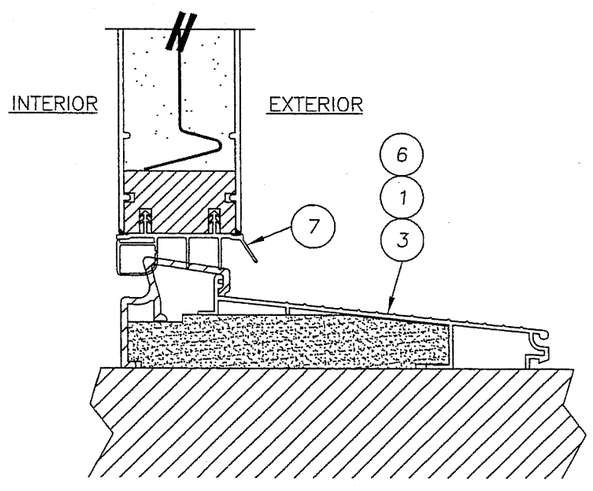
1/5 VERTICAL CROSS SECTION
@ HEAD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES



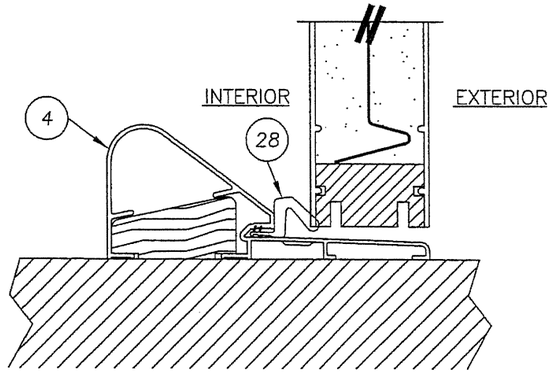
3/5 VERTICAL CROSS SECTION
@ THRESHOLD
SMOOTH STAR PANEL SHOWN
SEE DOOR PANEL DETAILS FOR OPTIONAL PANEL TYPES



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



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

Documents Prepared By:
RW 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
2-16-07

PRODUCT:
SINGLE OPAQUE FIBERGLASS DOOR
"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-3175
SHEET 5 OF 7

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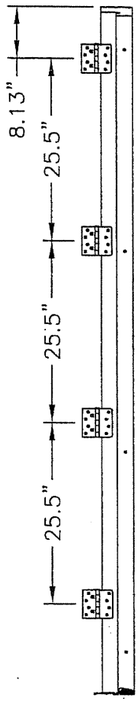
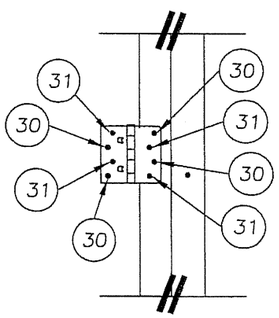
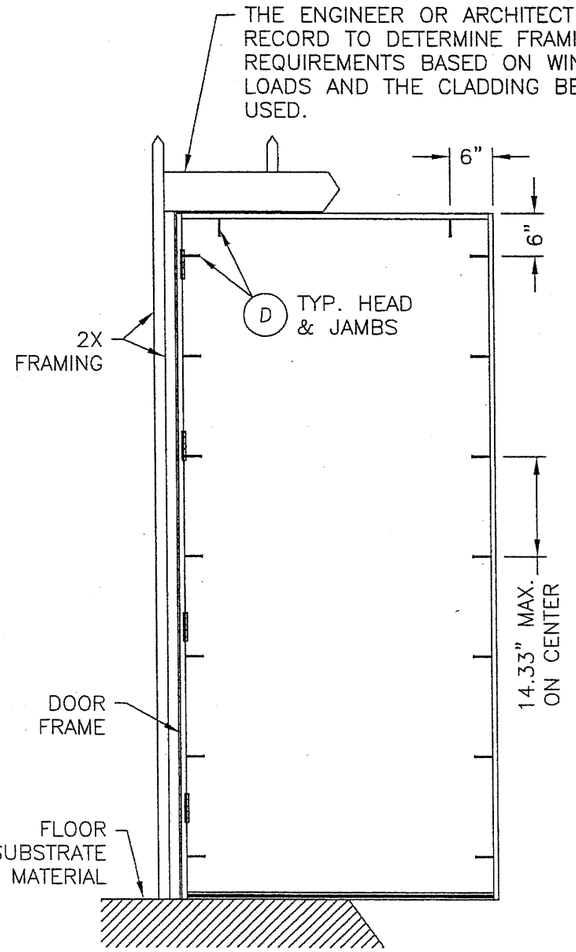


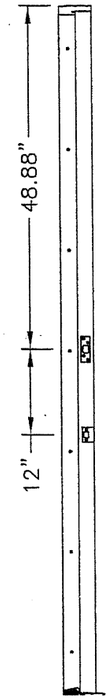
HINGE DETAIL



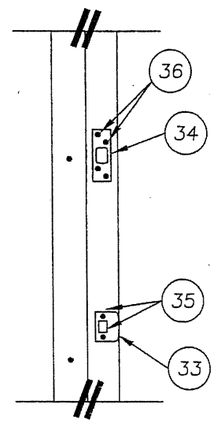
HINGE DETAIL



BUCK ANCHORING



STRIKE PLATE DETAIL



STRIKE PLATE DETAIL

Documents Prepared By:
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P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197
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Certificate Of Authorization No. 9813
Wendell W. Harvey, P.E. No. 54158
2-16-07

PRODUCT:
SINGLE OPAQUE FIBERGLASS DOOR "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-3175
SHEET 6 OF 7

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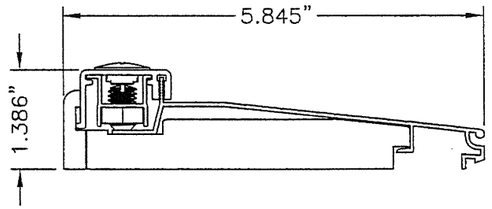
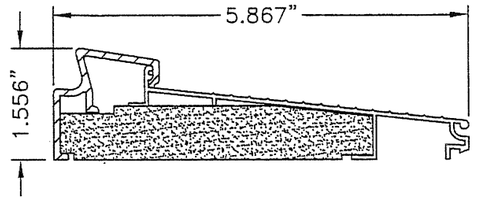
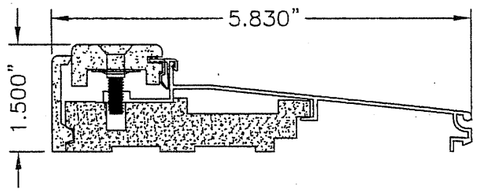
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X FRAMING	WOOD
C	1/4" MAX. SHIM SPACE	WOOD
D	#10 X 2-1/2" PFH WOOD SCREW	STEEL
G	KWIKSET 200 SERIES PASSAGE LOCK	STEEL
H	KWIKSET 600 SERIES DEADBOLT	STEEL
I	1/4" X 3-3/4" ITW TAPCON	STEEL
1	INSWING ADJUSTABLE THRESHOLD (IS300AJ)	ALUM./WOOD
2	INSWING THRESHOLD (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
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
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



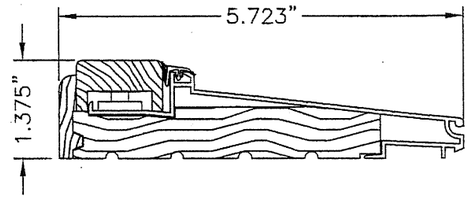
2 THRESHOLD
INSWING ADJUSTABLE



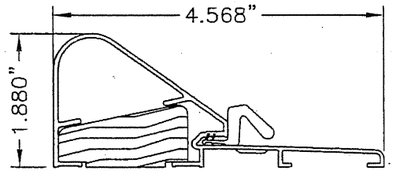
3 THRESHOLD
INSWING SELF-ADJUST



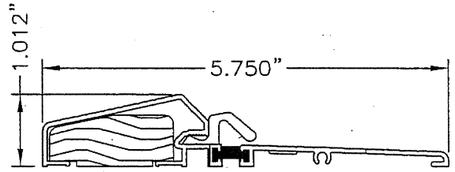
6 THRESHOLD
INSWING
MAX. DP RATING = +/- 50.0 PSF



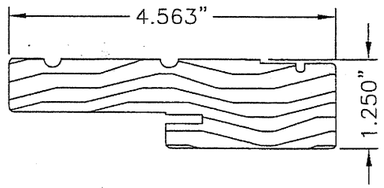
1 THRESHOLD
INSWING ADJUSTABLE



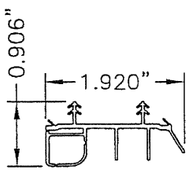
4 THRESHOLD
OUTSWING COASTAL



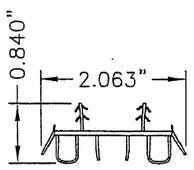
5 THRESHOLD
OUTSWING STANDARD



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

PRODUCT: SINGLE OPAQUE FIBERGLASS DOOR
"IMPACT" INSWING / OUTSWING
PART OR ASSEMBLY:
BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 12/15/06
SCALE: N.T.S.
DWG. BY: AEM
CHK. BY: WWH
DRAWING NO.: TX-3175
SHEET 7 OF 7

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