

# THERMA TRU®

## THERMA TRU DOORS

118 INDUSTRIAL DR., EDGERTON, OH 43517

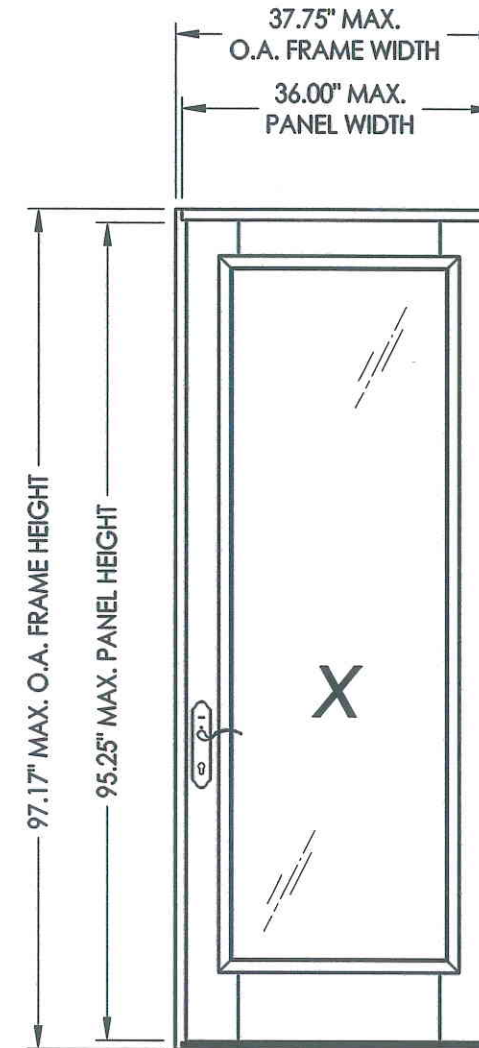
### SMOOTH STAR, FIBER CLASSIC, CLASSIC CRAFT & CLASSIC CRAFT RUSTIC FIBERGLASS GLAZED DOOR OUTSWING "IMPACT"

#### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 2007 Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with Section 1609.1.2 of the 2007 FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using coastal outswing item #31 meet water infiltration requirements for "HVHZ".
8. Outswing configurations using item #15, #18 and #37 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

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5	Door panel details (Classic Craft Rustic)	10	Bill of materials



SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
OUTSWING	37.75" x 97.17"	+55.0	-55.0

Documents Prepared By:

**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairco FL 33595  
Phone No.: 813.659.9197  
Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813  
Lyndon F. Schmidt, P.E. No. 43409

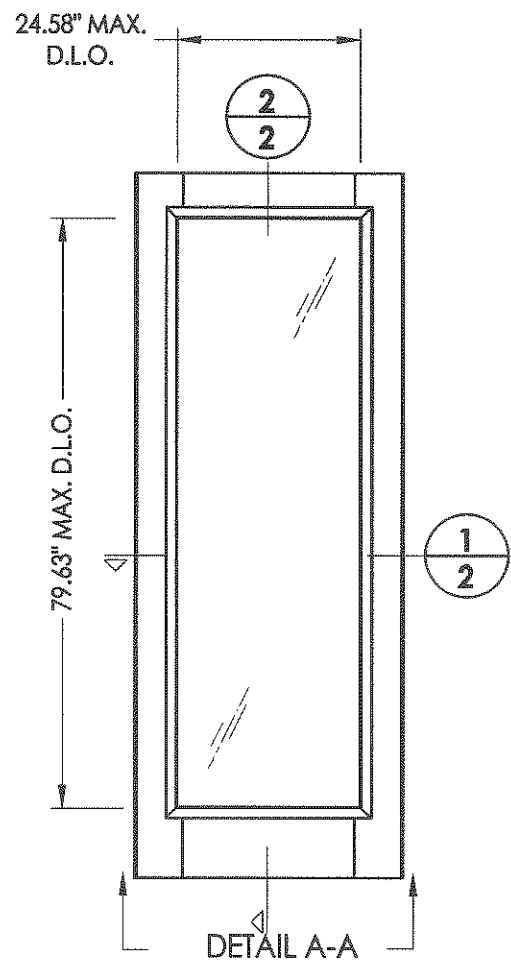
PRODUCT:  
THERMA TRU  
FIBERGLASS GLAZED DOOR

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

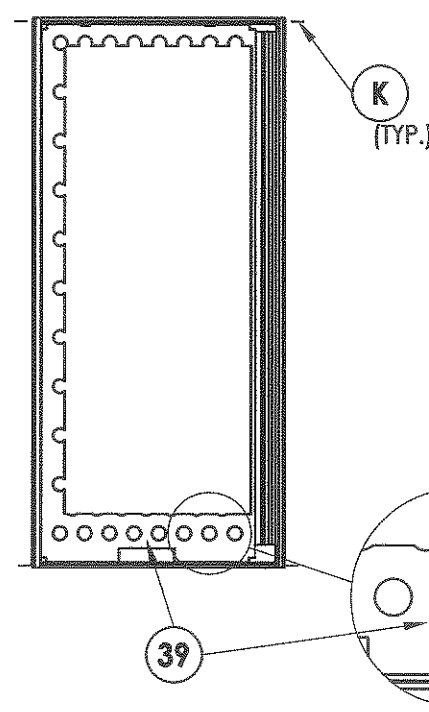
NO.	DATE	REVISIONS	BY
1	3/9/11	REVISE CLASSIC CRAFT DOOR	JK

DATE: 2/26/09  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-12334.1  
SHEET 1 OF 10

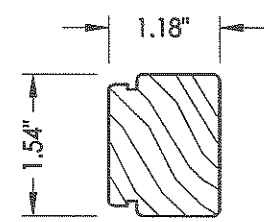
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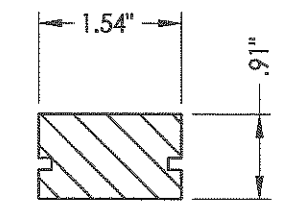
40 DOOR PANEL  
Smooth Star



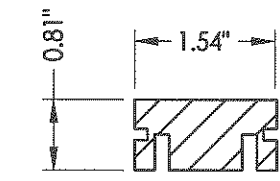
DETAIL A-A  
Panel reinforcement



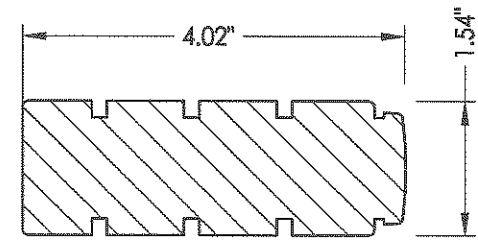
44 HINGE STILE



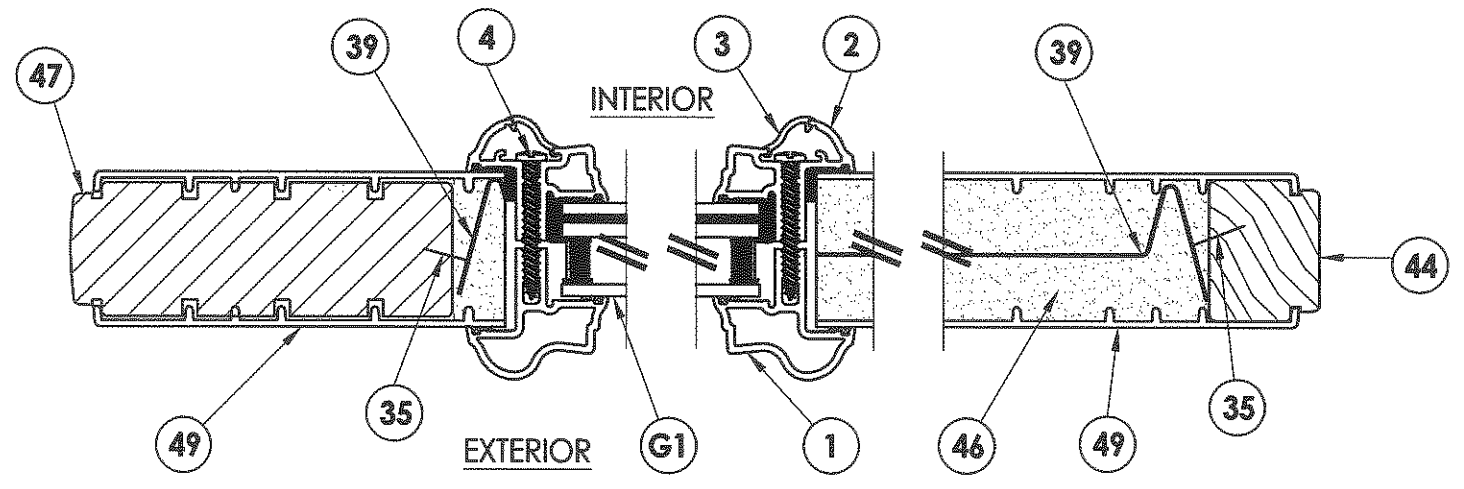
48 TOP RAIL



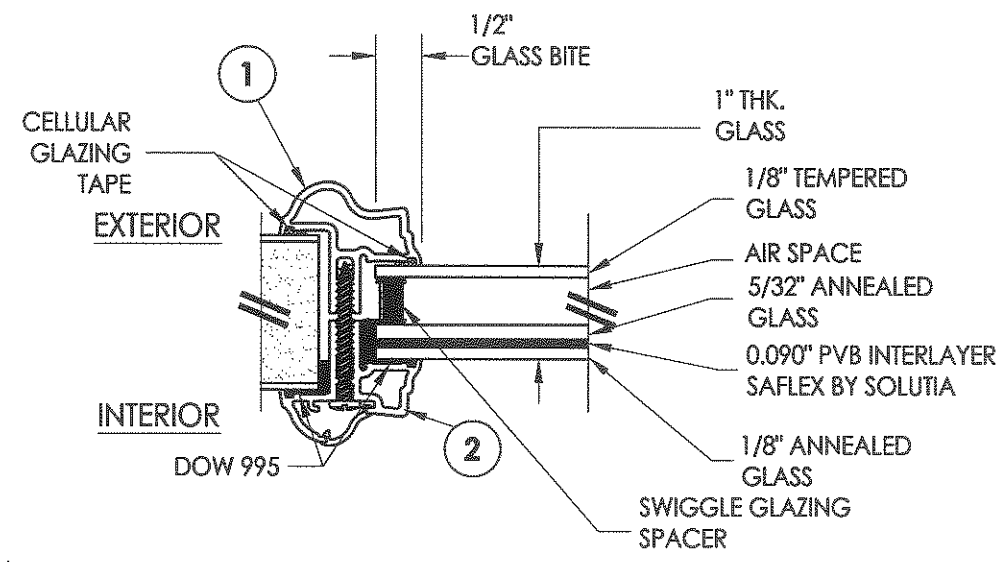
45 BOTTOM RAIL



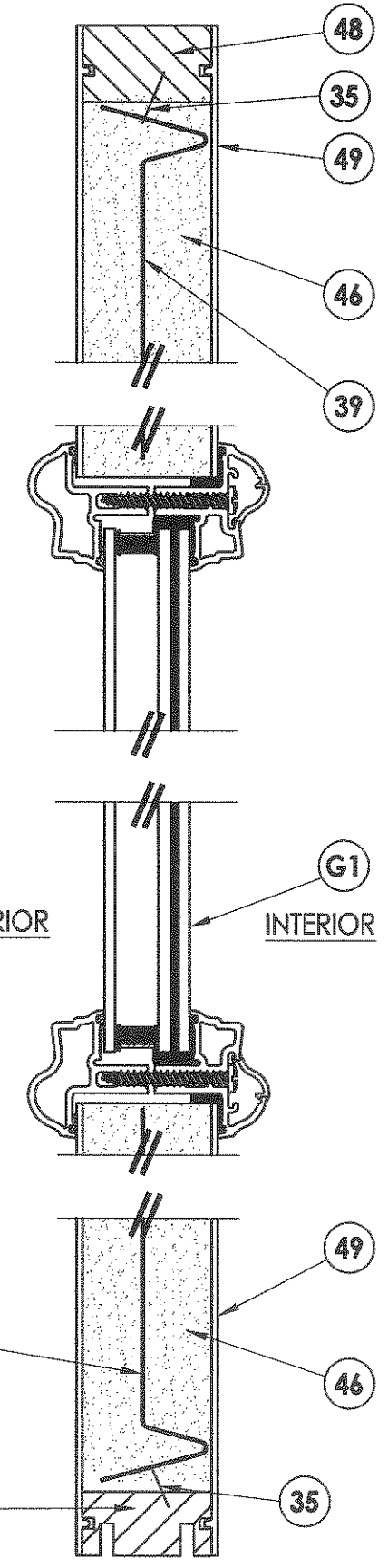
47 LOCK STILE



1 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL

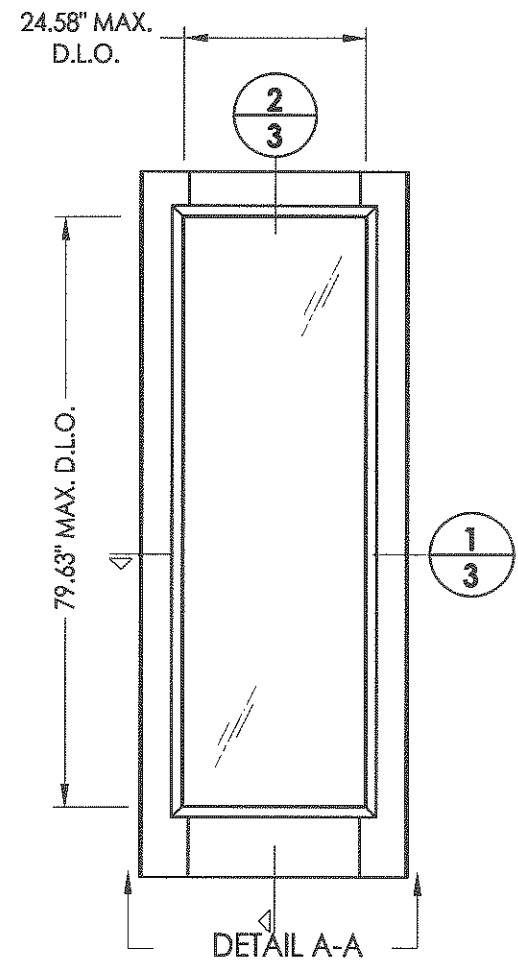


2 VERTICAL CROSS SECTION

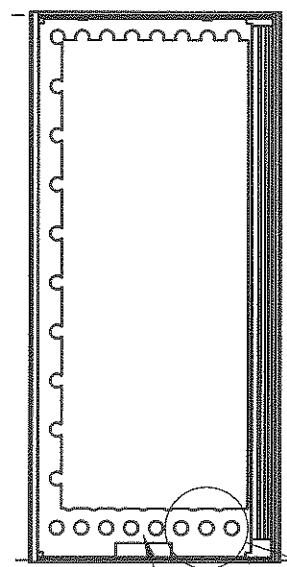
Documents Prepared By:		<b>RW</b> BUILDING CONSULTANTS, INC. P.O. Box 230 Vairico FL 33595 Phone No.: 813-659-9197 Florida Board of Professional Engineers Certificate Of Authorization No. 9813 3.17.11 Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:	THERMA TRU FIBERGLASS GLAZED DOOR		
PART OR ASSEMBLY:	DOOR PANEL DETAILS & GLAZING DETAILS (SMOOTH STAR)		
NO.	DATE	BY	REVISIONS
1	3/9/11	JK	REVISE CLASSIC CRAFT DOOR
DATE: 2/26/09 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-12334.1 SHEET 2 of 10			

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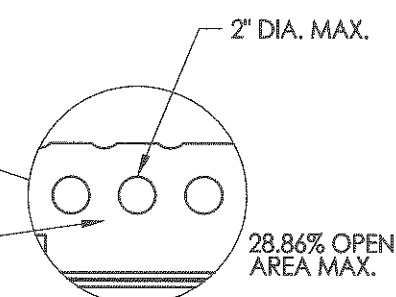


50 DOOR PANEL  
Fiber Classic

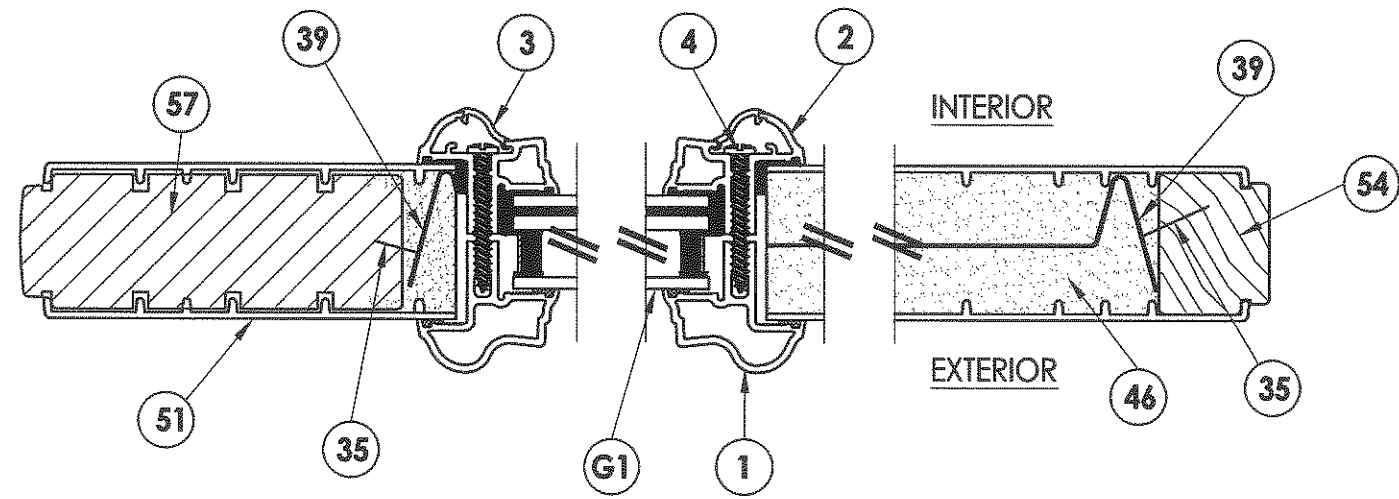


DETAIL A-A  
Panel reinforcement

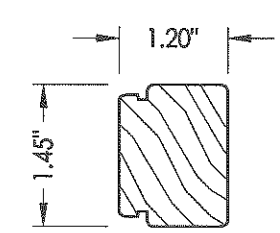
K (TYP.)



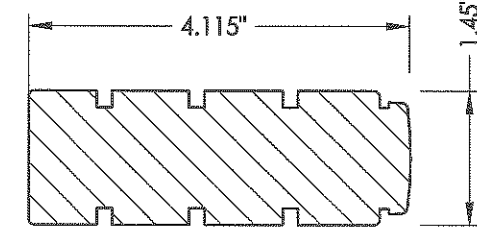
28.86% OPEN AREA MAX.



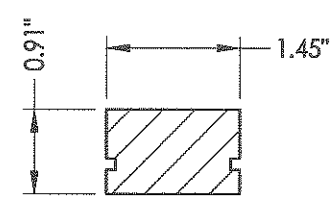
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3 HORIZONTAL CROSS SECTION



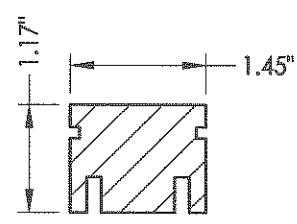
54 HINGE STILE



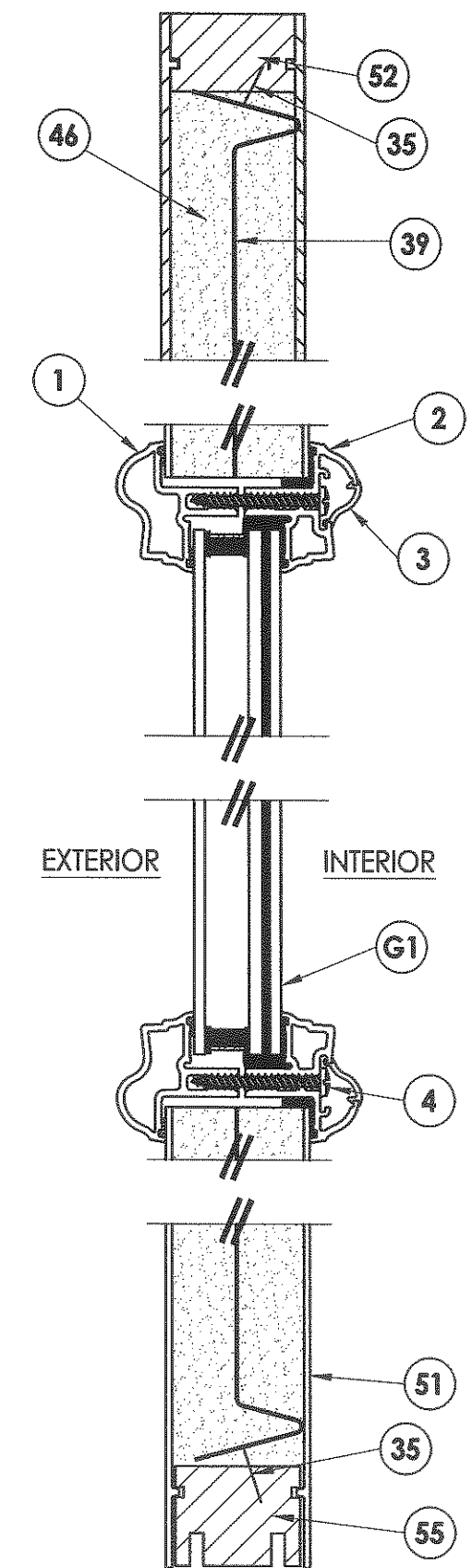
57 LOCK STILE



52 TOP RAIL



55 BOTTOM RAIL

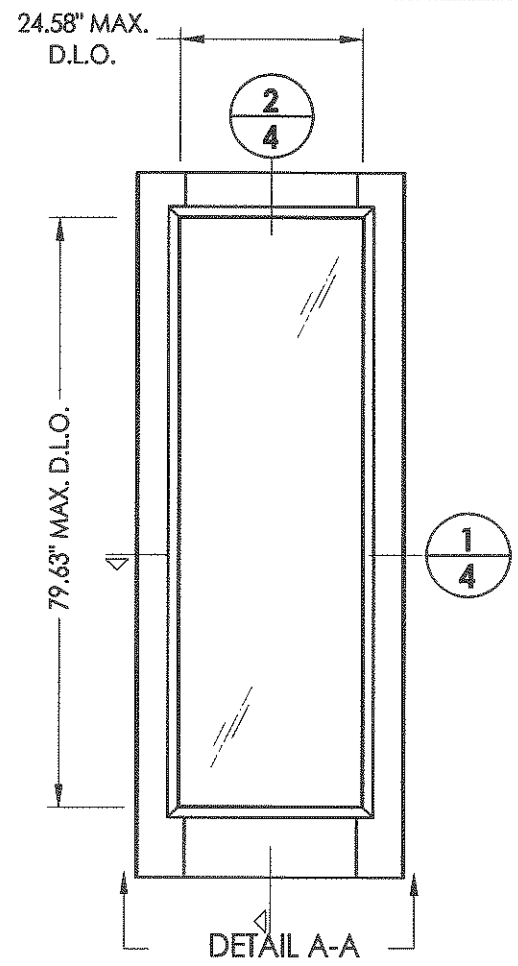


2  
3 VERTICAL CROSS SECTION

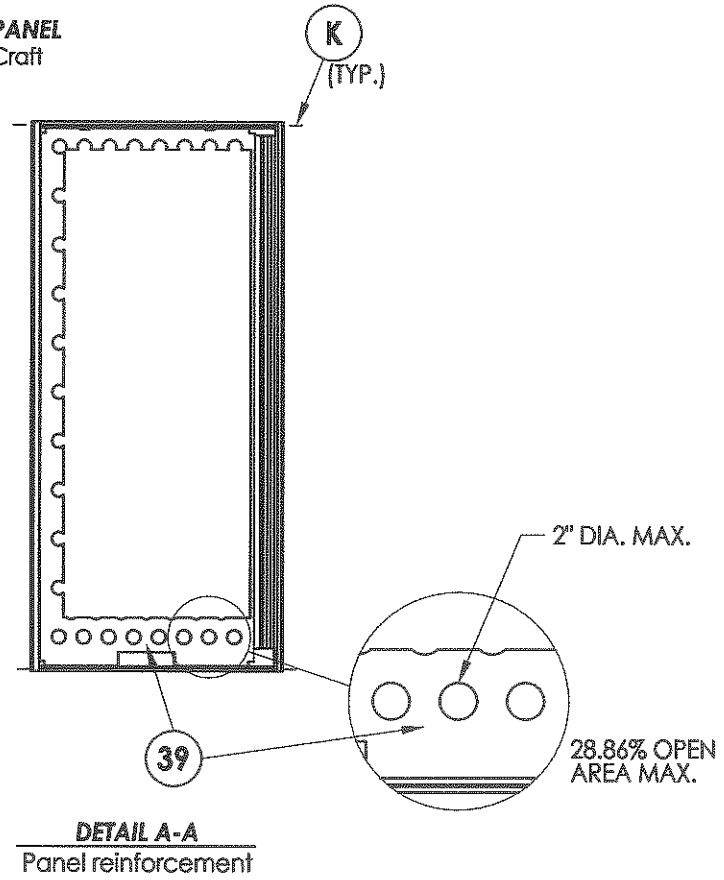
Documents Prepared By:		<b>RW</b> BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate Of Authorization No. 9813 <i>LFS</i> Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:	THERMA-TRU FIBERGLASS GLAZED DOOR	JK	BY
PART OR ASSEMBLY:	DOOR PANEL DETAILS (FIBER CLASSIC)	JK	BY
NO.	DATE	3/9/11	REVISIONS
1	3/9/11	REVISE CLASSIC CRAFT DOOR	
DATE: 2/26/09			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-12334.1			
SHEET 3 OF 10			

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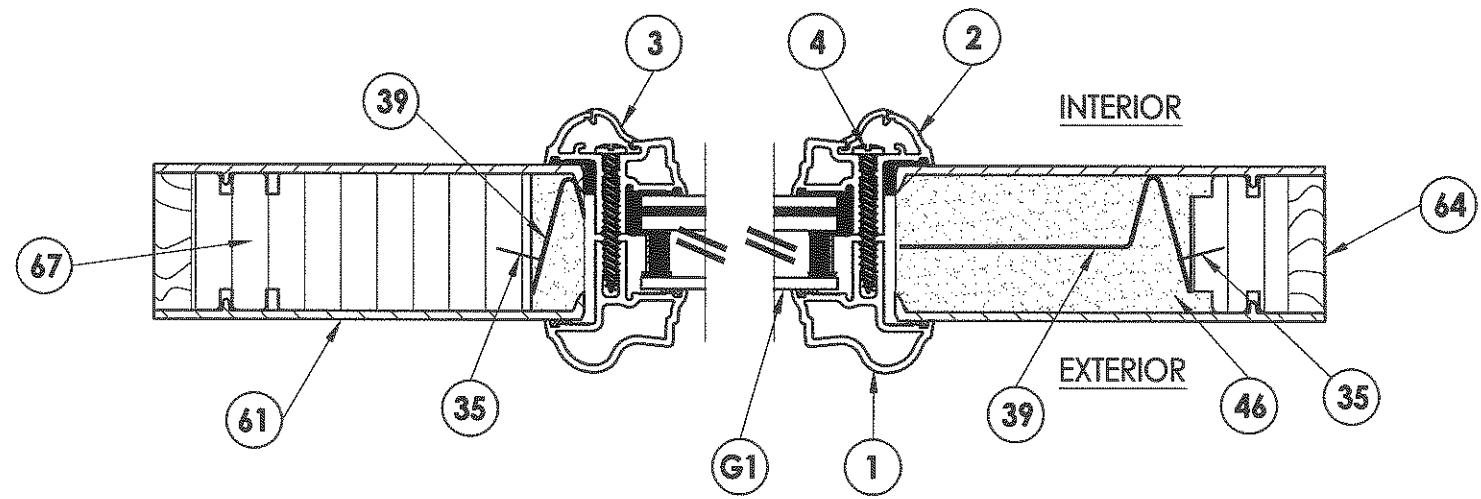
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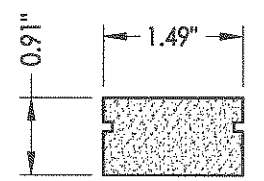
60 DOOR PANEL  
Classic Craft



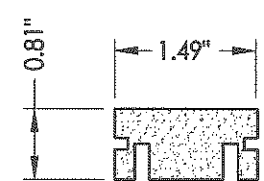
DETAIL A-A  
Panel reinforcement



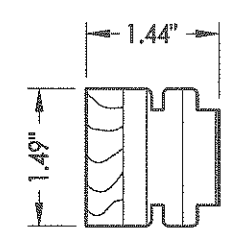
1  
4 HORIZONTAL CROSS SECTION



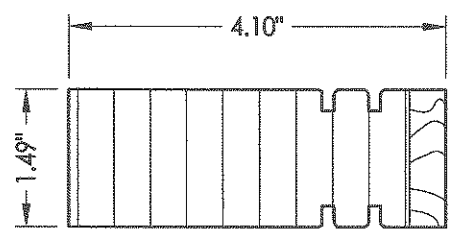
62 TOP RAIL



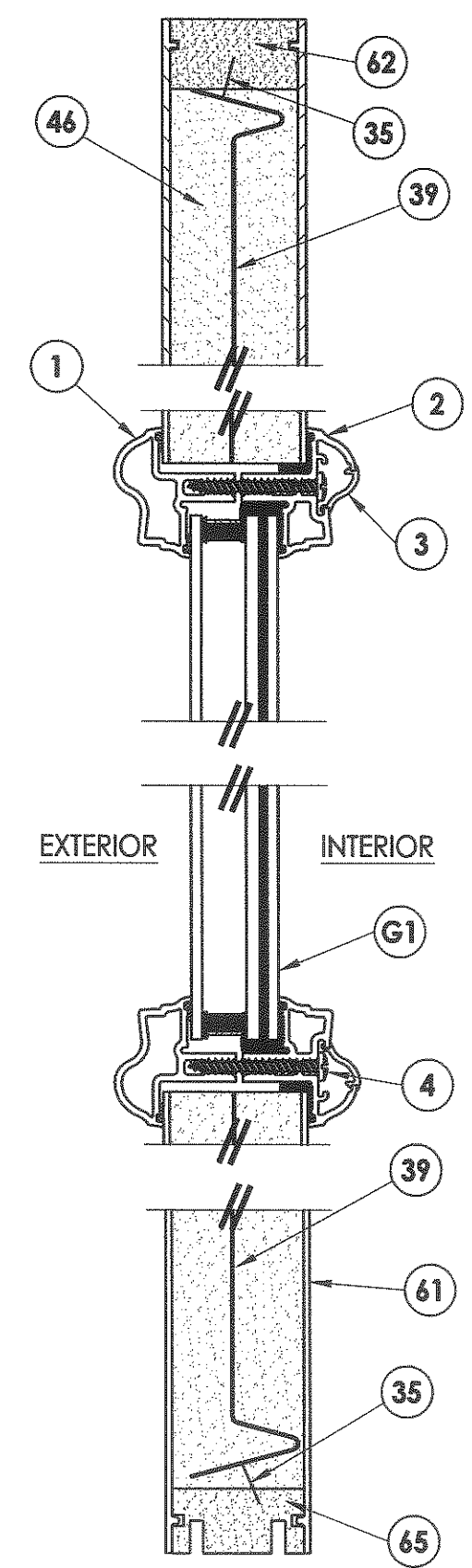
65 BOTTOM RAIL



64 HINGE STILE



67 LOCK STILE

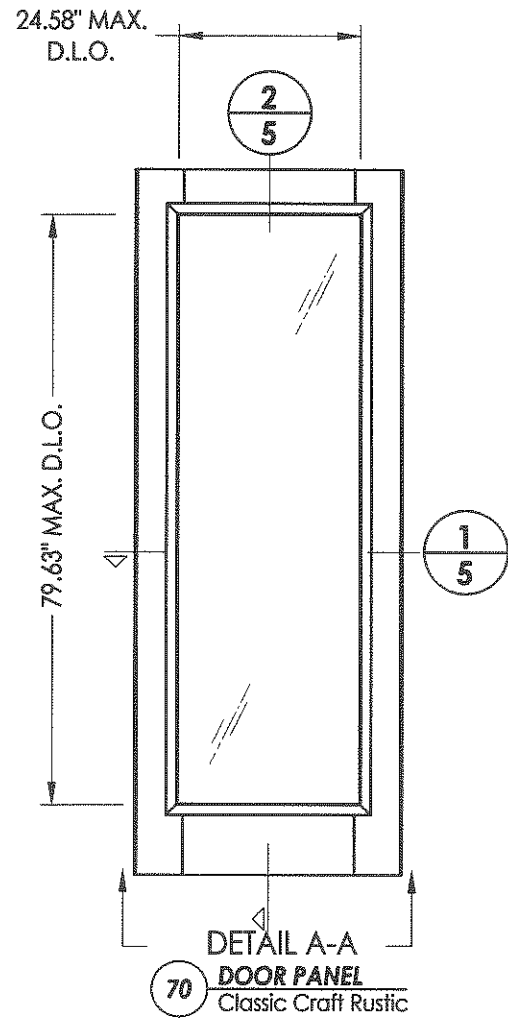


2  
4 VERTICAL CROSS SECTION

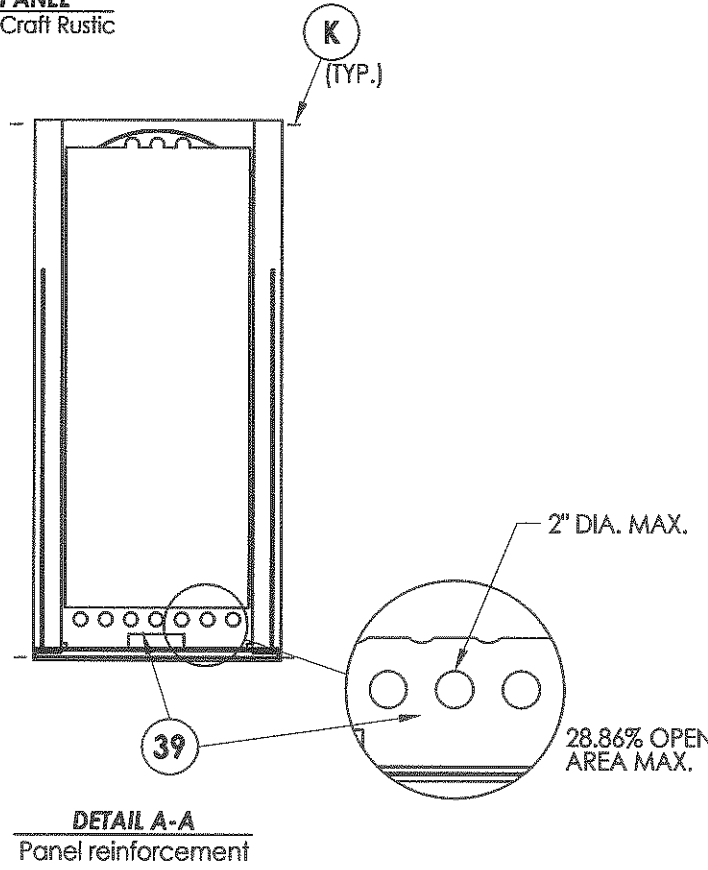
Documents Prepared By:		R.W. BUILDING CONSULTANTS, INC. P.O. Box 250 Valrico FL, 33595 Phone No.: 813.659.9197	
PRODUCT:		THERMA-TRU FIBERGLASS GLAZED DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS (CLASSIC CRAFT)	
NO.	DATE	BY	REVISIONS
1	3/9/11	JK	REVISE CLASSIC CRAFT DOOR
DATE: 2/26/09			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-12334.1			
SHEET 4 OF 10			

Florida Board of Professional Engineers  
Certificate of Authorization No. 9813  
Lyndon F. Schmatz, P.E. No. 43409  
3.17.11

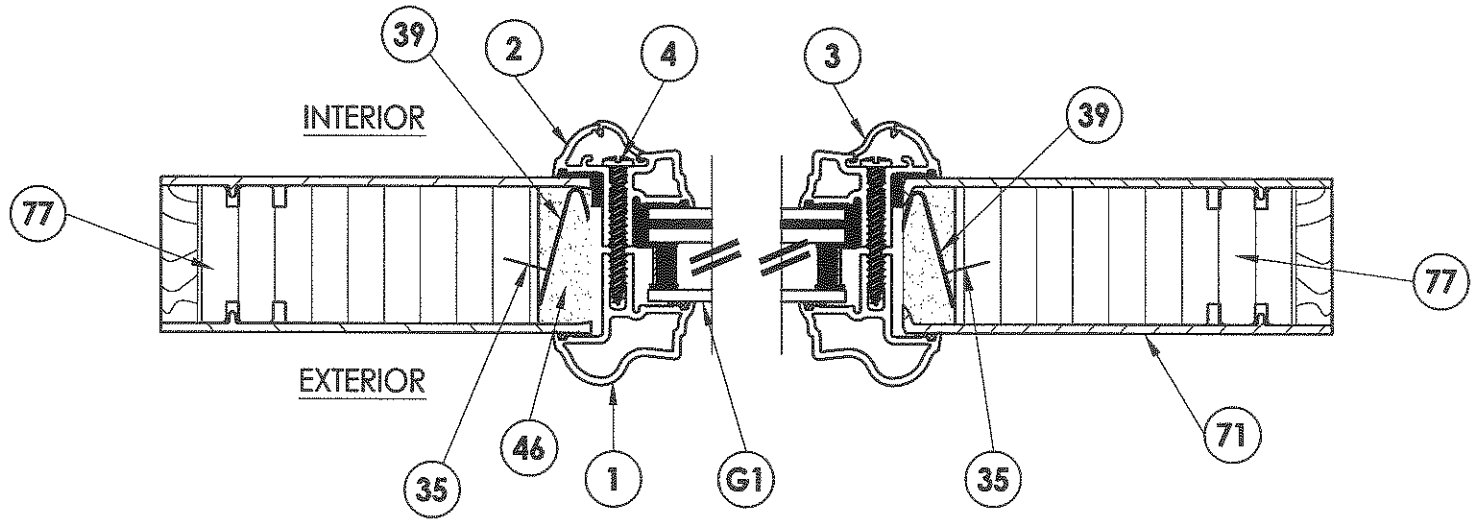
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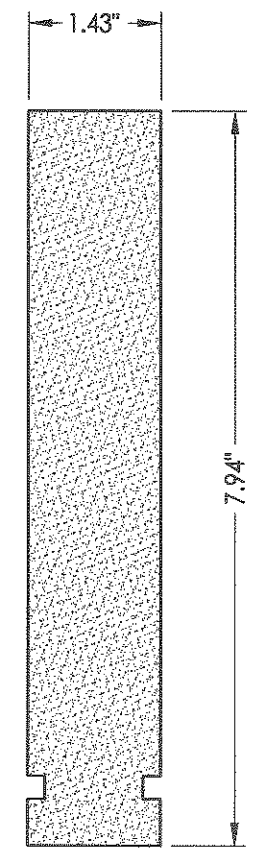
70 **DETAIL A-A**  
**DOOR PANEL**  
Classic Craft Rustic



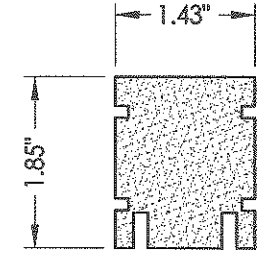
**DETAIL A-A**  
Panel reinforcement



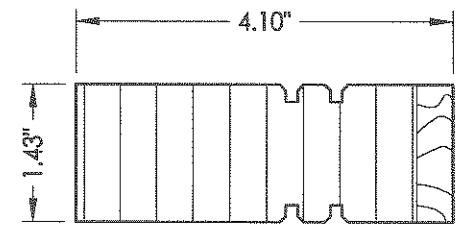
1  
5 **HORIZONTAL CROSS SECTION**



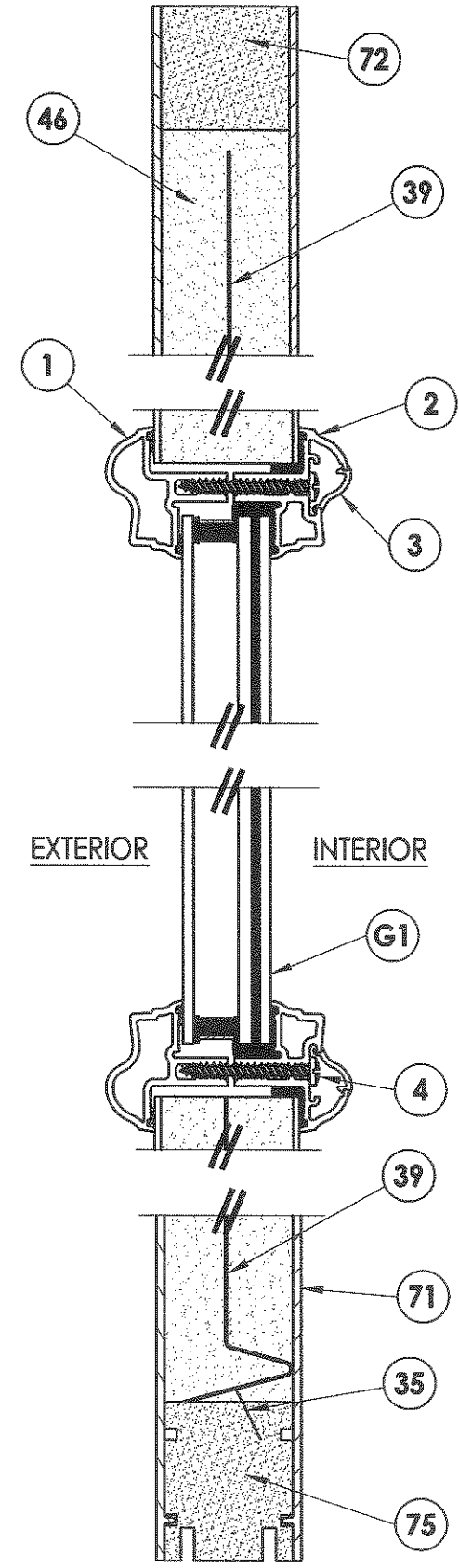
72 **TOP RAIL**



75 **BOTTOM RAIL**



77 **HINGE AND LOCK STILE**



2  
5 **VERTICAL CROSS SECTION**

Documents Prepared By:

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

Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813

Lyndon F. Schmidt, P.E. No. 43409

**PRODUCT:**  
THERMA-TRU  
FIBERGLASS GLAZED DOOR

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

NO.	DATE	REVISIONS	BY
1	3/9/11	REVISE CLASSIC CRAFT DOOR	JK

DATE: 2/26/09

SCALE: N.T.S.

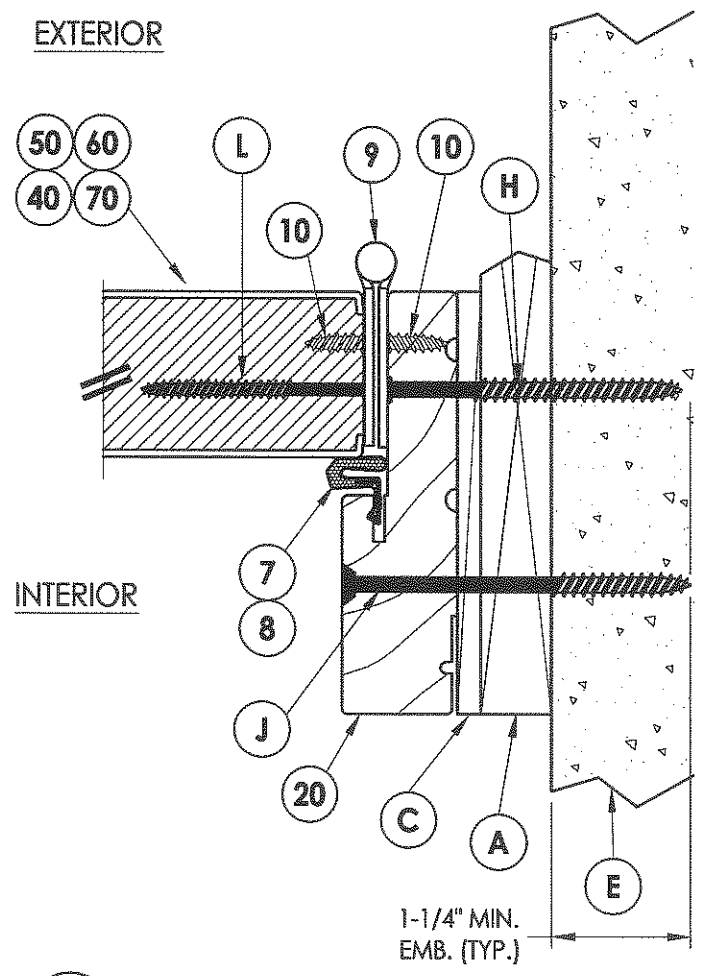
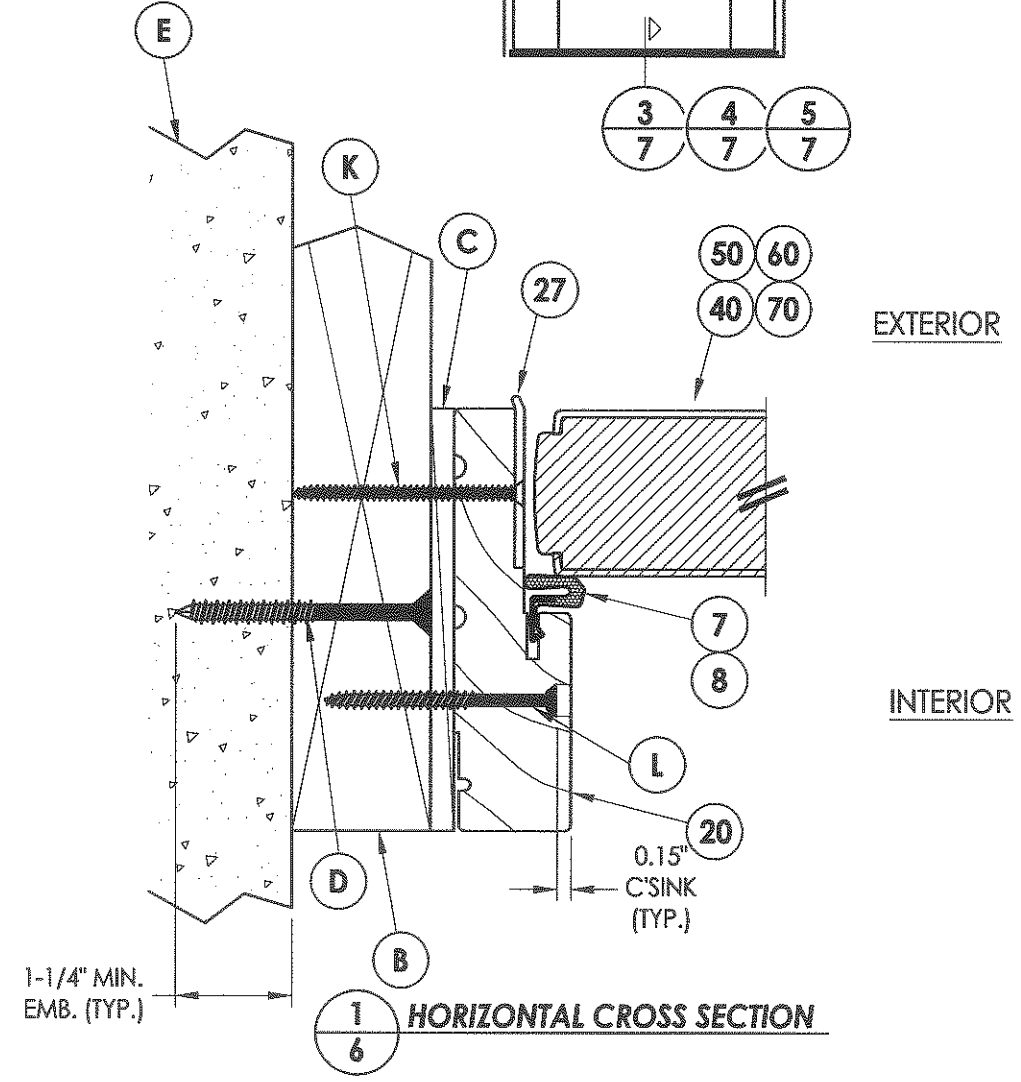
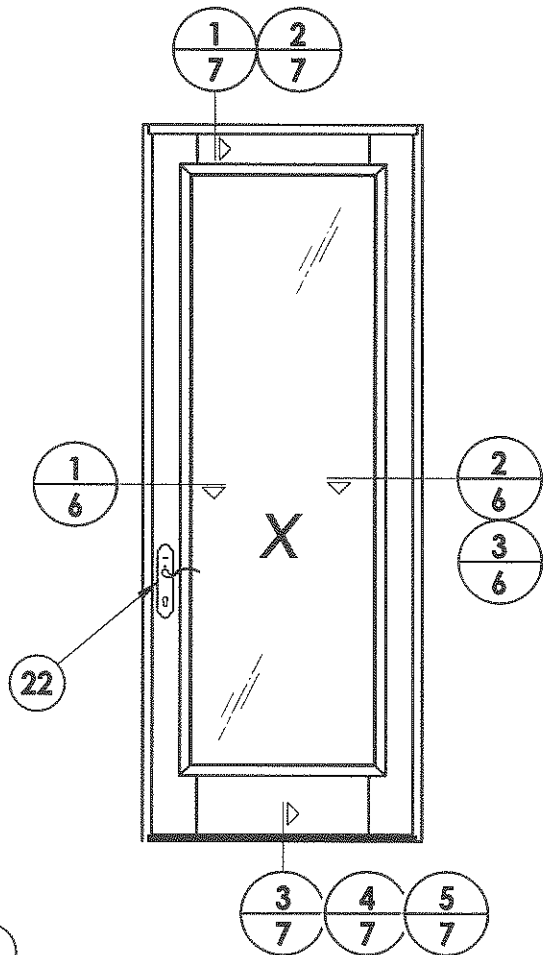
DWG. BY: JK

CHK. BY: LFS

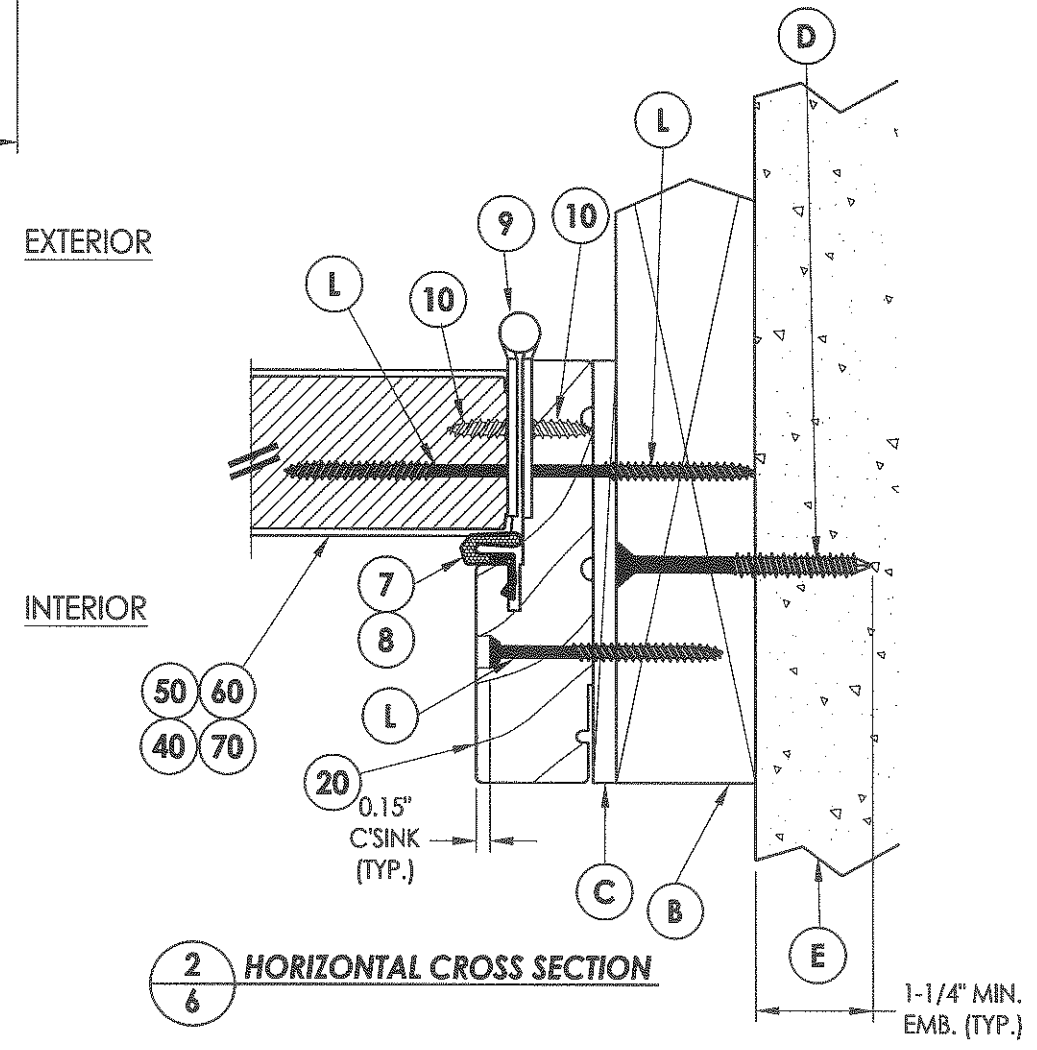
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FL-12334.1

SHEET 5 OF 10

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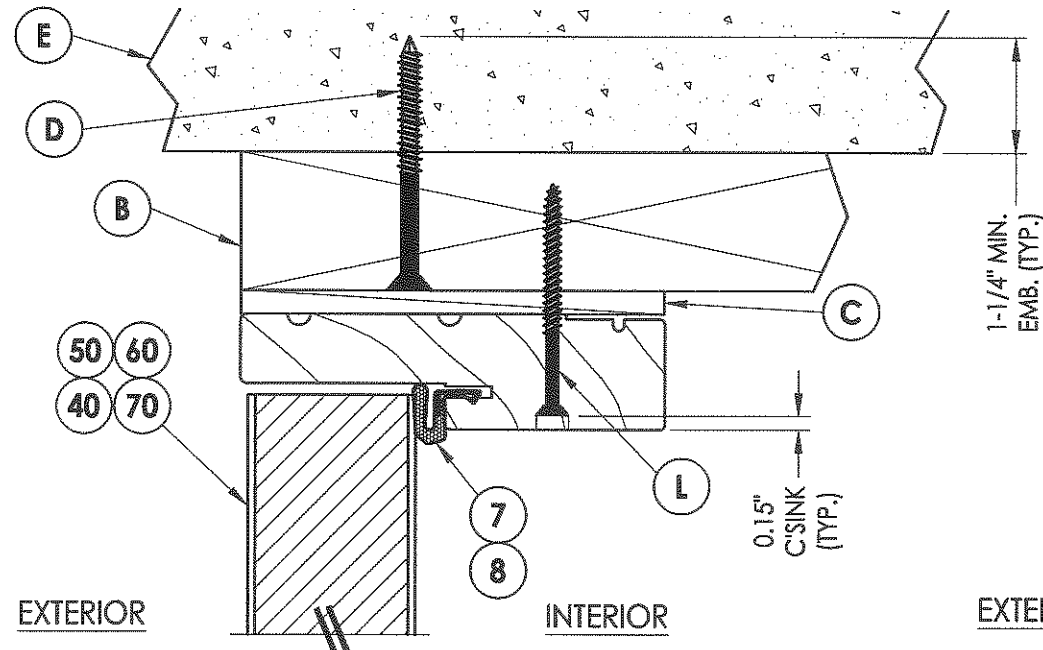


**3/6 HORIZONTAL CROSS SECTION**  
 Shown w/1X sub-buck substituting concrete screws for wood screws per Section 1714.5.4.2 of the FBC

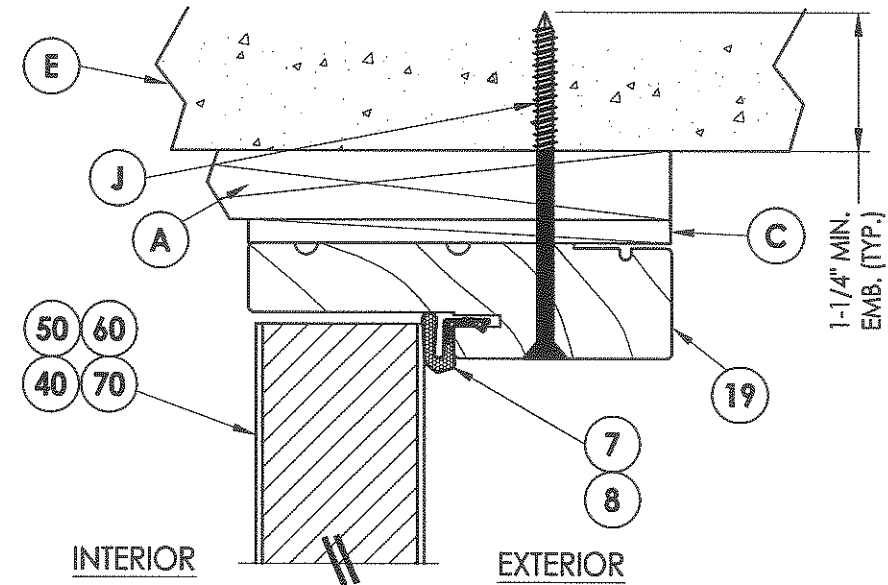


Documents Prepared By:		RWBC BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate Of Authorization No. 9813 LFS 3.17.11 Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:	THERMA TRU FIBERGLASS GLAZED DOOR	PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
NO.	DATE	JK	BY
1	3/9/11	REVISE CLASSIC CRAFT DOOR	
DATE: 2/26/09		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-12334.1		SHEET 6 OF 10	

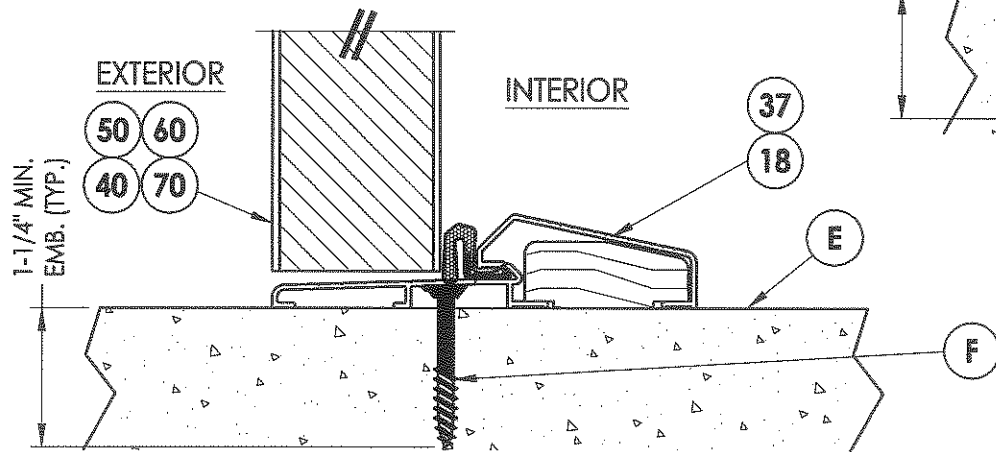
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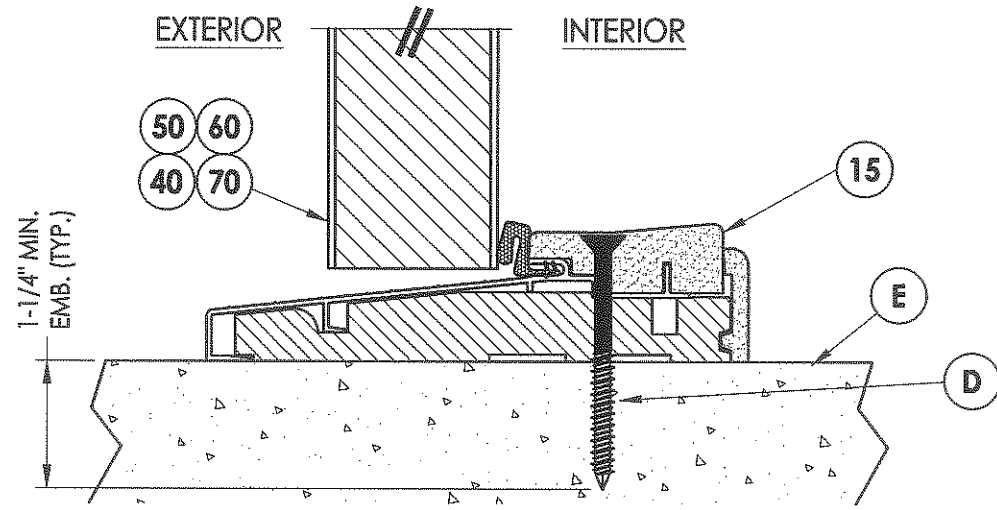
**1**  
**7** VERTICAL CROSS SECTION



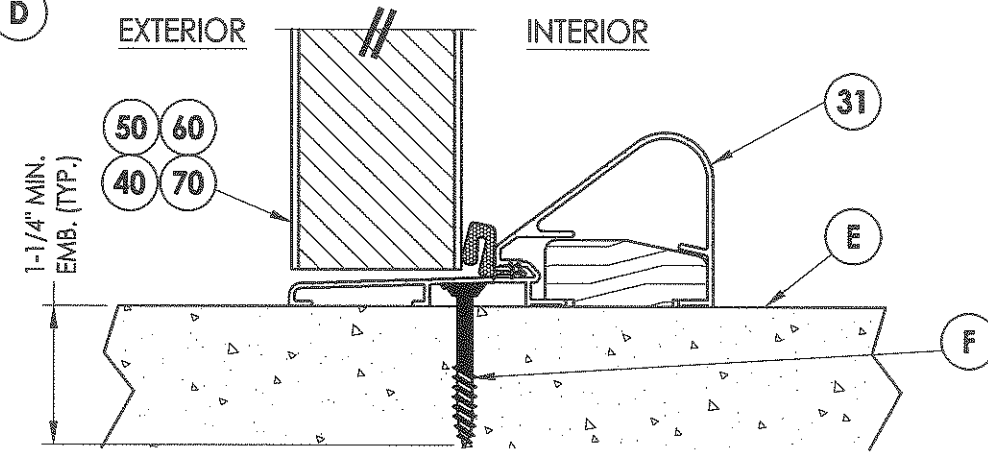
**2**  
**7** VERTICAL CROSS SECTION  
Shown w/1X sub-buck substituting concrete screws for wood screws per Section 1714.5.4.2 of the FBC



**3**  
**7** VERTICAL CROSS SECTION  
Outswing configuration see general notes, sheet 1 for "HVHZ" water infiltration requirements



**5**  
**7** VERTICAL CROSS SECTION  
Outswing configuration see general notes, sheet 1 for "HVHZ" water infiltration requirements



**4**  
**7** VERTICAL CROSS SECTION  
Outswing configuration see general notes, sheet 1 for "HVHZ" water infiltration requirements

Documents Prepared By:

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Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813  
*LFS* 3-17-11  
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: THERMA TRU  
FIBERGLASS GLAZED DOOR

PART OR ASSEMBLY:  
VERTICAL  
CROSS SECTIONS

NO	DATE	REVISIONS	JK	BY
1	3/9/11	REVISE CLASSIC CRAFT DOOR		

DATE: 2/26/09

SCALE: N.T.S.

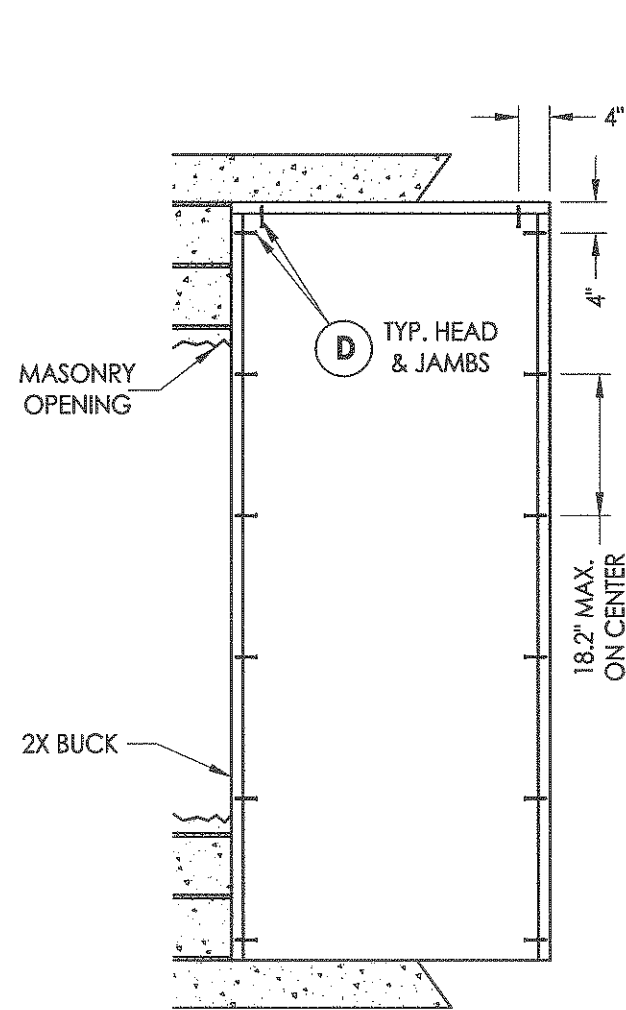
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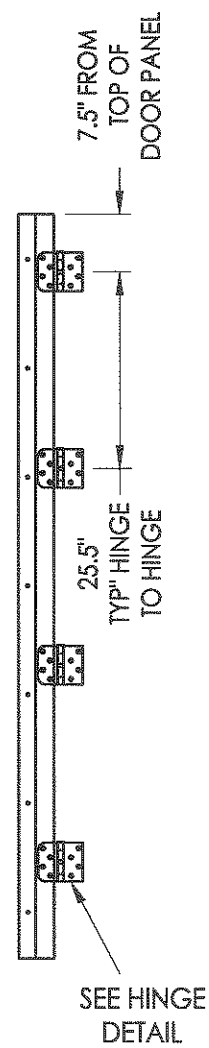
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FL-12334.1

SHEET 7 OF 10

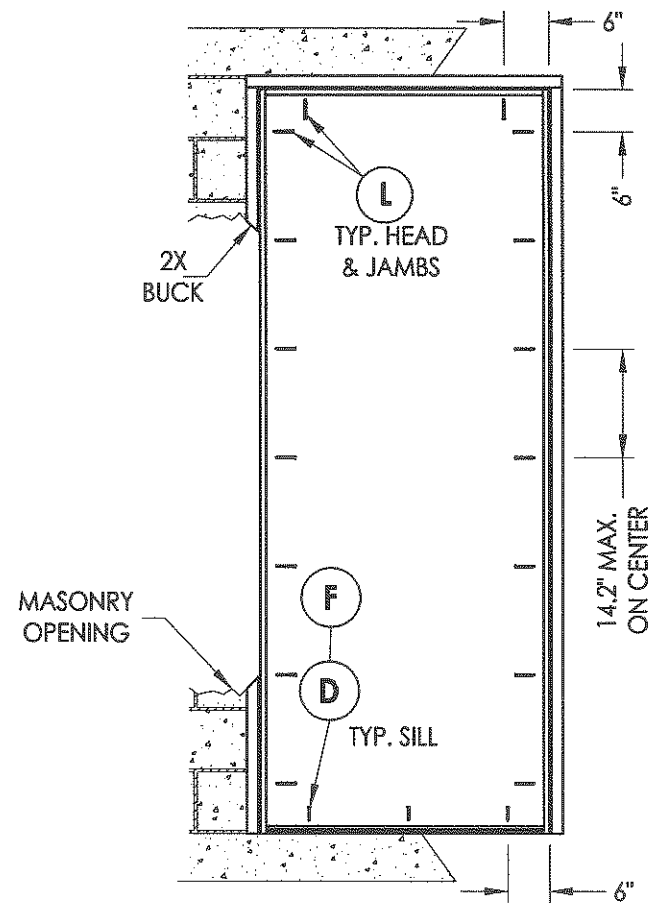
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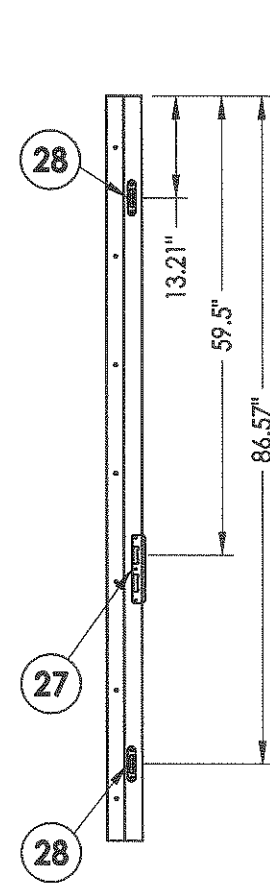
**BUCK ANCHORING**



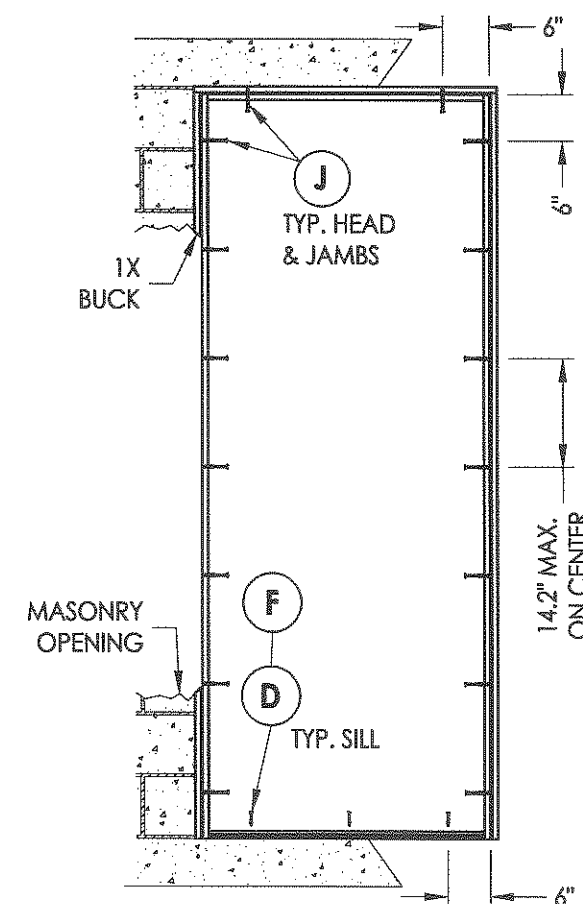
**HINGE JAMB**



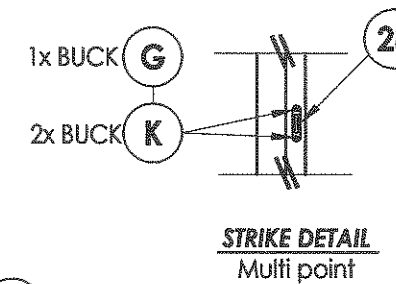
**FRAME ANCHORING  
2X**



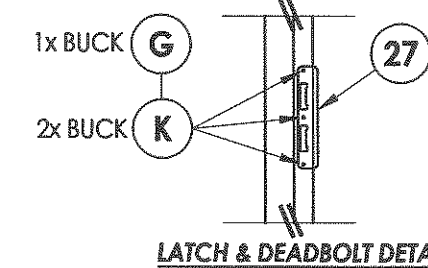
**STRIKE JAMB**



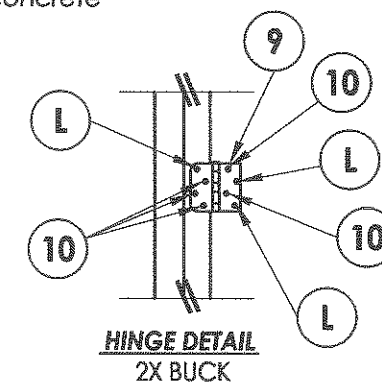
**FRAME ANCHORING  
1X MASONRY**



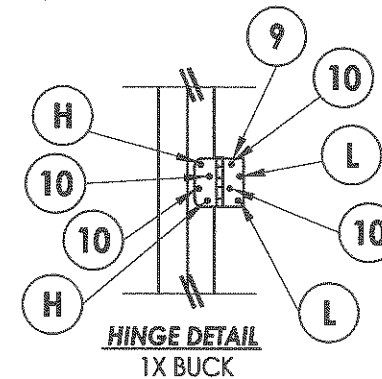
**STRIKE DETAIL  
Multi point**



**LATCH & DEADBOLT DETAIL**



**HINGE DETAIL  
2X BUCK**



**HINGE DETAIL  
1X BUCK**

**CONCRETE ANCHOR NOTES:**

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. 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.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"
ITW	3/16"	1-1/4"	2-5/8"	2-1/4"

Documents Prepared By:

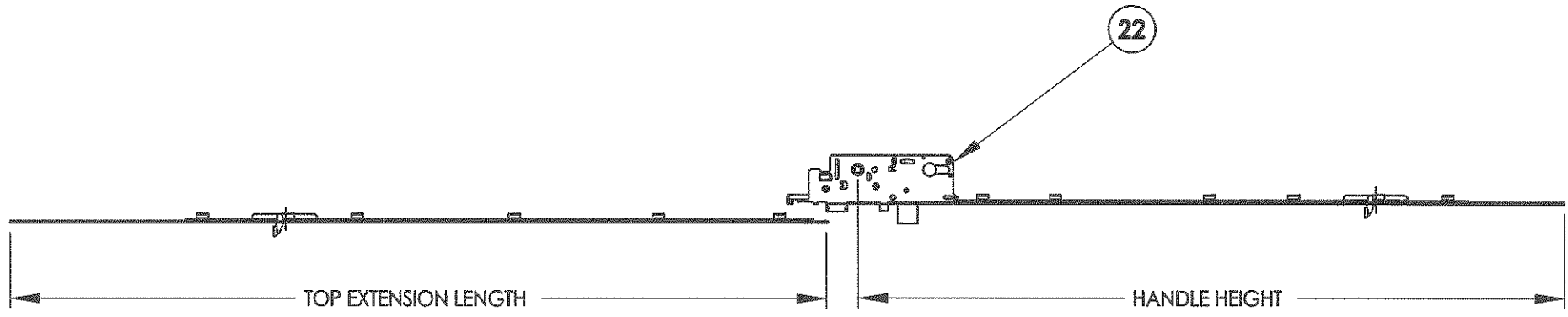
**R.W.** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairico FL 33595  
Phone No.: 813.659.9197  
Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813  
*LFS* 3-17-11  
Lyndon F. Schmidt, P.E. No. 43469

PRODUCT: THERMA TRU FIBERGLASS GLAZED DOOR  
PART OR ASSEMBLY: BUCK AND FRAME ANCHORING

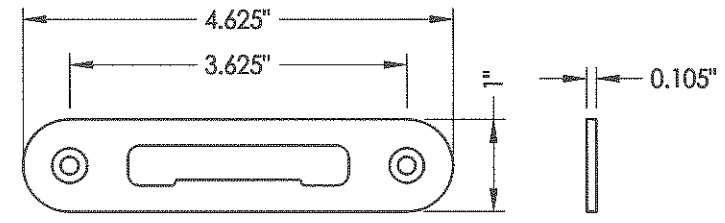
NO.	DATE	REVISIONS	BY
1	3/9/11	REVISE CLASSIC CRAFT DOOR	JK

DATE: 2/26/09  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-12334.1  
SHEET 8 OF 10

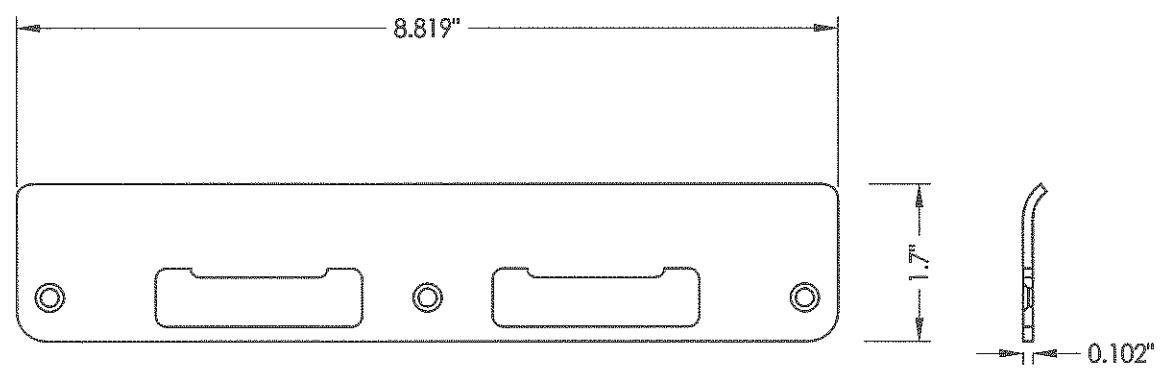
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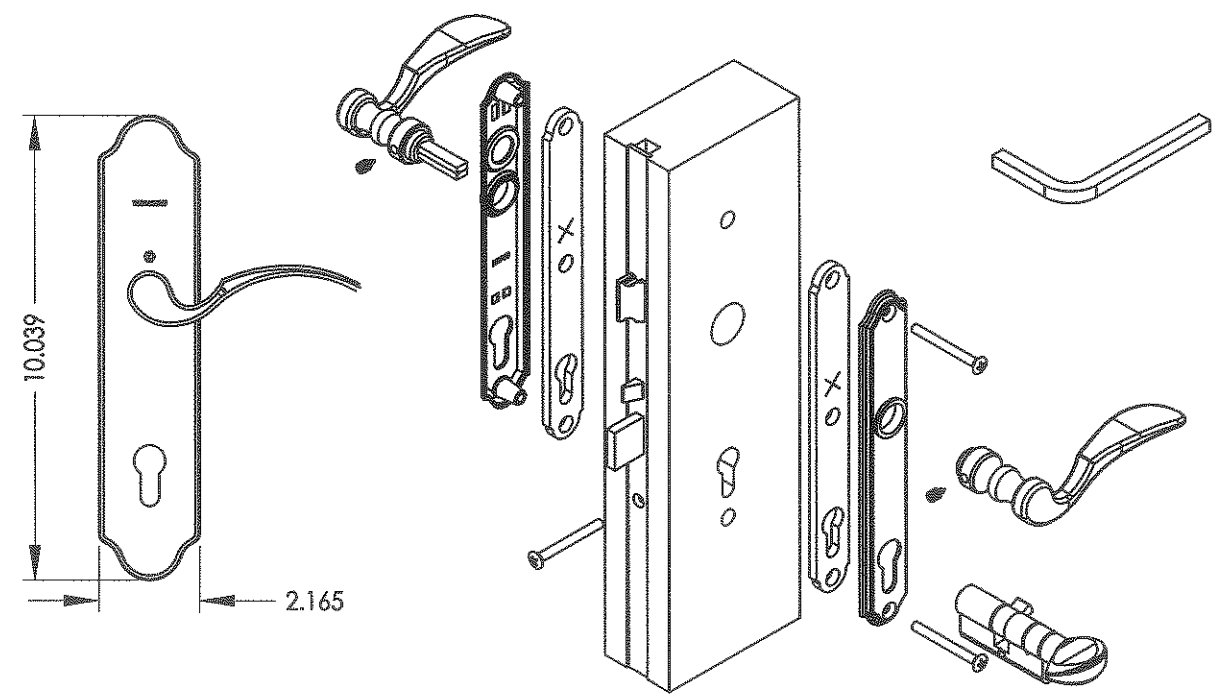
MANUAL RAISED TONGUE GEAR SYSTEM



28 MULTI-POINT STRIKE PLATE



27 LATCH AND DEADBOLT STRIKE PLATE  
Tongue system



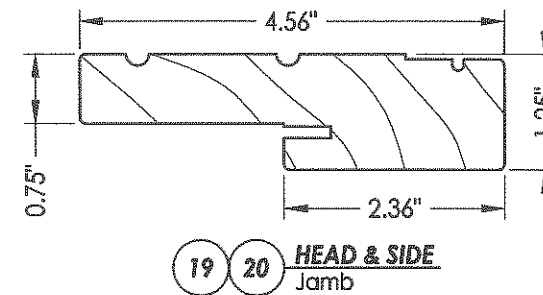
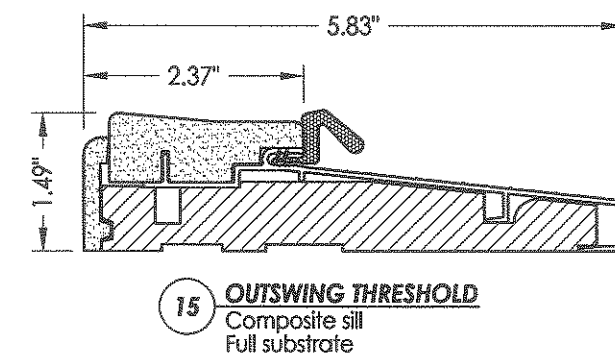
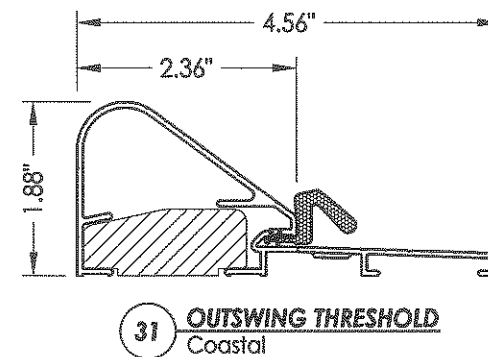
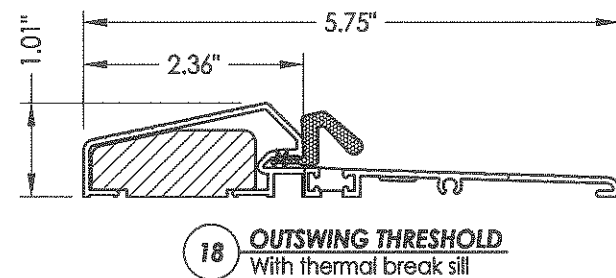
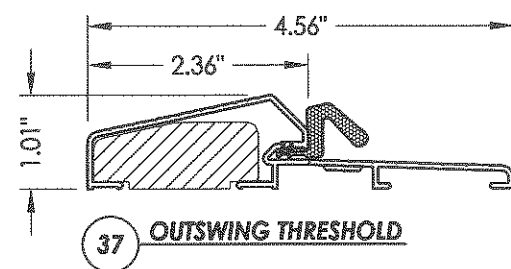
22 MULTI-POINT LOCKSET  
3 Point "Tongue"

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 Lyndon F. Schmidt, P.E. No. 123469	
PRODUCT:	THERMA TRU FIBERGLASS GLAZED DOOR		
PART OR ASSEMBLY:	COMPONENTS		
		JK	BY
		3/9/11	REVISE CLASSIC CRAFT DOOR
		NO.	DATE
		REVISIONS	
DATE: 2/26/09			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.:			
FL-12334.1			
SHEET 9 OF 10			

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BILL OF MATERIALS			BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD	50	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT (FIBER CLASSIC)	FIBERGLASS
B	2X BUCK SG >= 0.55	WOOD	51	FIBER CLASSIC DOOR SKIN .110" MINIMUM THK. FIBERGLASS	FIBERGLASS
C	MAX. 1/4" SHIM SPACE	-	52	TOP RAIL	COMP.
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	54	HINGE STILE	LVL/WOOD
E	MASONRY - 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	55	BOTTOM RAIL	COMP.
F	1/4" X 1-3/4" PFH ITW CONCRETE SCREW	STEEL	57	LOCK STILE	LVL/WOOD
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL	60	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT (CLASSIC CRAFT)	FIBERGLASS
H	1/4" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL	61	CLASSIC CRAFT DOOR SKIN .125" MINIMUM THK. FIBERGLASS	FIBERGLASS
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	62	TOP RAIL	COMP.
K	#8 X 2-1/2" PFH WOOD SCREW	STEEL	64	HINGE STILE	WOOD
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL	65	BOTTOM RAIL	COMP.
1	EXTERIOR LITE FRAME	ALUM.	67	LOCK STILE	LVL/WOOD
2	INTERIOR LITE FRAME	ALUM.	70	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT (CLASSIC CRAFT RUSTIC)	FIBERGLASS
3	LITE FRAME TRIM	PVC	71	CLASSIC CRAFT RUSTIC DOOR SKIN .125" MINIMUM THK. FIBERGLASS	FIBERGLASS
4	#10 X 1-1/2" PFH SM SCREW	STEEL	72	TOP RAIL	COMP.
7	MEDIUM REACH COMPRESSION WEATHER-STRIP	FOAM	75	BOTTOM RAIL	COMP.
8	LONG REACH COMPRESSION WEATHER-STRIP	FOAM	77	HINGE AND LOCK STILE	WOOD
9	4" X 4" HINGE .097" THK.	STEEL			
10	#10 X 3/4" PFH WOOD SCREW (HINGE TO FRAME)	STEEL			
15	THRESHOLD OUTSWING - 5-3/4" COMPOSITE SILL, FULL SUBSTRATE	ALUM./COMP.			
18	THRESHOLD OUTSWING 5-3/4" THERMAL BREAK SILL	ALUM./COMP.			
19	HEADER JAMB SG >= 0.42	WOOD			
20	SIDE JAMB SG >= 0.42	WOOD			
22	3 POINT "TONGUE" MULTI-POINT LOCKSET (Mfg. BY HOPPE)	STEEL			
27	LATCH STRIKE PLATE	STEEL			
28	MULTI-POINT STRIKE PLATE	STEEL			
31	COASTAL OUTSWING THRESHOLD	ALUM./COMP.			
32	DOOR BOTTOM SWEEP	PVC			
35	7/16" X 1/2" STAPLE	STEEL			
37	THRESHOLD OUTSWING	ALUM./COMP.			
39	PANEL REINFORCEMENT 0.023" THK.	STEEL			
40	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT(SMOOTH STAR)	FIBERGLASS			
44	HINGE STILE	COMP.			
45	BOTTOM RAIL	COMP.			
46	INSULATING FOAM CORE	POLYURETHANE			
47	LOCK STILE	LVL/WOOD			
48	TOP RAIL	COMP.			
49	SMOOTHSTAR DOOR SKIN .065" MINIMUM THK. FIBERGLASS	FIBERGLASS			

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
50	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT (FIBER CLASSIC)	FIBERGLASS			
51	FIBER CLASSIC DOOR SKIN .110" MINIMUM THK. FIBERGLASS	FIBERGLASS			
52	TOP RAIL	COMP.			
54	HINGE STILE	LVL/WOOD			
55	BOTTOM RAIL	COMP.			
57	LOCK STILE	LVL/WOOD			
60	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT (CLASSIC CRAFT)	FIBERGLASS			
61	CLASSIC CRAFT DOOR SKIN .125" MINIMUM THK. FIBERGLASS	FIBERGLASS			
62	TOP RAIL	COMP.			
64	HINGE STILE	WOOD			
65	BOTTOM RAIL	COMP.			
67	LOCK STILE	LVL/WOOD			
70	FIBERGLASS DOOR PANEL W/STEEL REINFORCEMENT (CLASSIC CRAFT RUSTIC)	FIBERGLASS			
71	CLASSIC CRAFT RUSTIC DOOR SKIN .125" MINIMUM THK. FIBERGLASS	FIBERGLASS			
72	TOP RAIL	COMP.			
75	BOTTOM RAIL	COMP.			
77	HINGE AND LOCK STILE	WOOD			



Documents Prepared By: **RW** BUILDING CONSULTANTS, INC.  
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Florida Board of Professional Engineers  
Certificate Of Authorization No. 9813  
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: THERMA TRU FIBERGLASS GLAZED DOOR  
PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	BY	REVISIONS
1	3/9/11	JK	REVISE CLASSIC CRAFT DOOR

DATE: 2/26/09  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-12334.1  
SHEET 10 OF 10