



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

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**Therma-Tru Corporation  
108 Mutzfeld Road  
Butler, IN 46721**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "Benchmark" 6'8" S/E Outswing Opaque Insulated Steel Door w/Sidelites**

**APPROVAL DOCUMENT:** Drawing No. **S-2188**, dated 11/30/01, with revision 1 dated 04/01/02, titled "Benchmark Steel Edge" Single & Double Outswing 6-8 Opaque Door, sheets 1 through 7, prepared by R. W. Building Consultants, Inc., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant for Doors Only**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No 02-0205.03  
Expiration Date: June 6, 2007  
Approval Date: June 6, 2002  
Page 1**

# THERMA-TRU® "BENCHMARK" STEEL EDGE INSULATED DOOR 6'8" OUTSWING WITH & WITHOUT SIDELITES

### GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. DESIGNED PRESSURE RATING SEE TABLE PAGE 1.
5. THIS PRODUCT MEETS THE WATER REQUIREMENTS FOR "HIGH VELOCITY HURRICANE ZONES" WITH THE USE OF THE HIGH DAM BUMP THRESHOLD.
6. WHEN THIS PRODUCT IS USED IN AREAS REQUIRING WINDBORNE DEBRIS PROTECTION, FLORIDA BUILDING CODE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR THE SIDELITES ONLY..
7. SIDELITES ARE AN OPTION AND CAN BE USED IN A SINGLE OR DOUBLE CONFIGURATION.

### RESIDENTIAL INSULATED STEEL DOOR (Common to all frame conditions)

#### Door & Sidelite Leaf Construction:

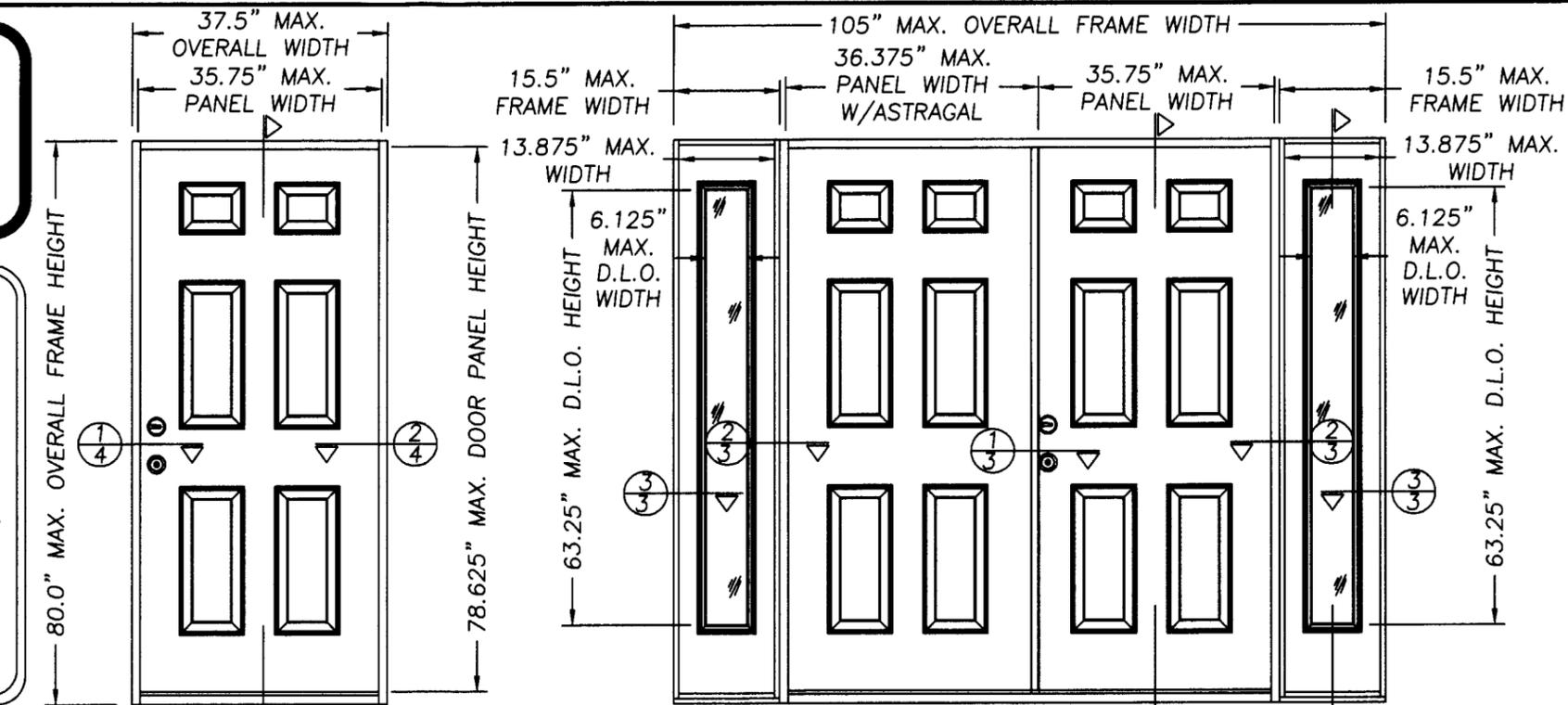
**Face sheets:** 24 ga. (0.021") minimum thickness, Galvanized steel A-525 commercial quality - AKDQ per ASTM 620 with yield strength  $F_y(\text{ave.})=33,500$  psi.

**Core design:** Polyurethane foam core, with 1.9 lbs. density by BASF.

**Construction:** Flush or embossed type. The vertical edges are extensions of the skin, rolled formed to a mechanical interlock, horizontal edges are welded together at two places each (6.5" from corner)

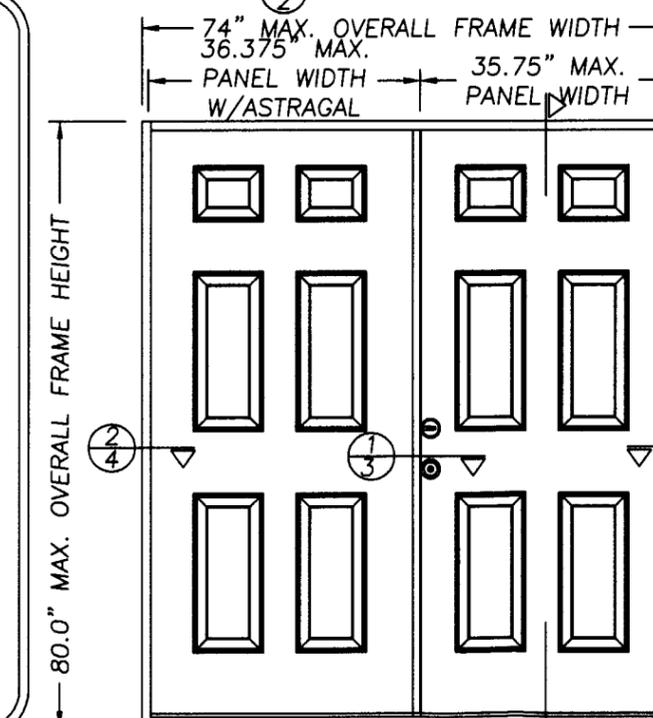
**Frame Construction:** The frame is constructed from finger jointed pine measuring 4.563" wide x 1.25" thick. The header is joined to each side (3) 16ga. 1/2" crown x 2" long staples at both side. The threshold is joined to the side jambs with (2) 16ga. x 1/2" crown x 2.5" long staples at each side. The mullions are secured together in a sidelite application using #10 2" long PFH Wood Screws (6) screws per each mullion. The units uses an Outswing Bump threshold High Water Dam type.

**Sidelite Glazing:** The sidelite panels are sandwich glazed using a two piece lip lite frame. They are dry glazed on the exterior with an 1/8" thk. cellular glazing tape, (Stik-ll Tape). with the silicone caulking and secured to the steel panel with #8 X 1.5" Philips Plascrew. The interglaz lite was glazed between the steel face sheets with glazing tape and sealed on the exterior with a silicone caulking cap bead.

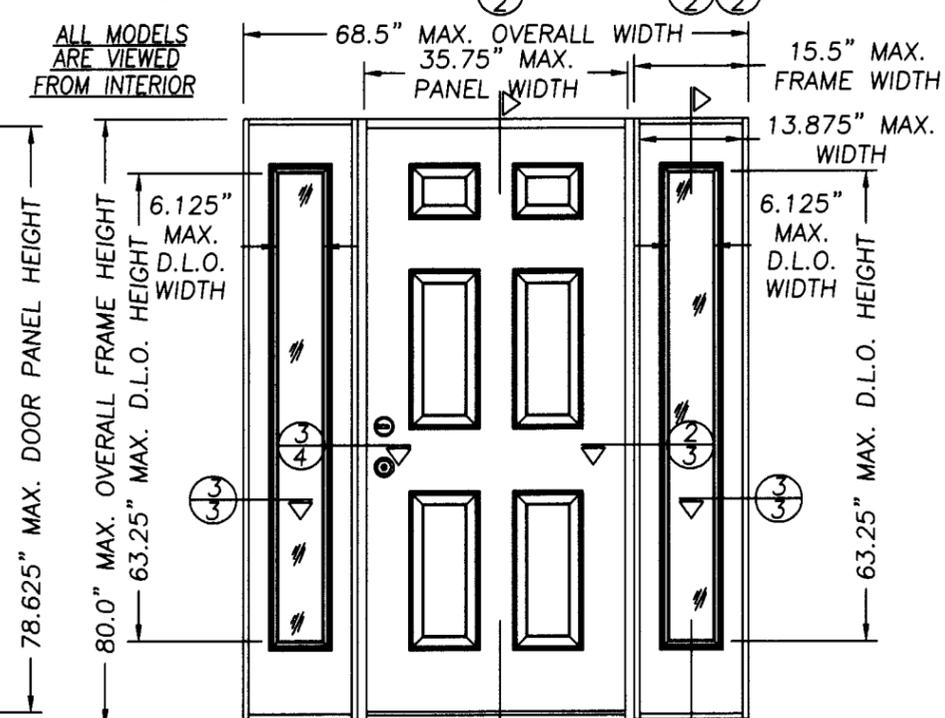


SINGLE OUTSWING UNIT ①/②

DOUBLE W/SIDELITES OUTSWING UNIT ①/② ②/③



DOUBLE OUTSWING UNIT ①/②



SINGLE W/SIDELITES OUTSWING UNIT ①/② ②/③

ALL MODELS ARE VIEWED FROM INTERIOR

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SHEET #	DESCRIPTION
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4	HORIZONTAL CROSS SECTIONS & BILL OF MATERIAL
5	ANCHORING LOCATIONS & DETAILS
6	ANCHORING LOCATIONS & GLAZING DETAIL
7	UNIT COMPONENTS

DESIGN PRESSURE RATING (WHERE WATER INFILTRATION REQUIREMENT IS NEEDED)		
SINGLE	+75.0 PFS	-75.0 PFS
DOUBLE	+65.0 PFS	-65.0 PFS
SINGLE & DOUBLE WITH SIDELITES	+65.0 PFS	-65.0 PFS

Approved as complying with the Florida Building Code  
Date June 6, 2002  
NOA# 02-0205.03  
Miami Dade Product Control Division  
By Manuel [Signature]

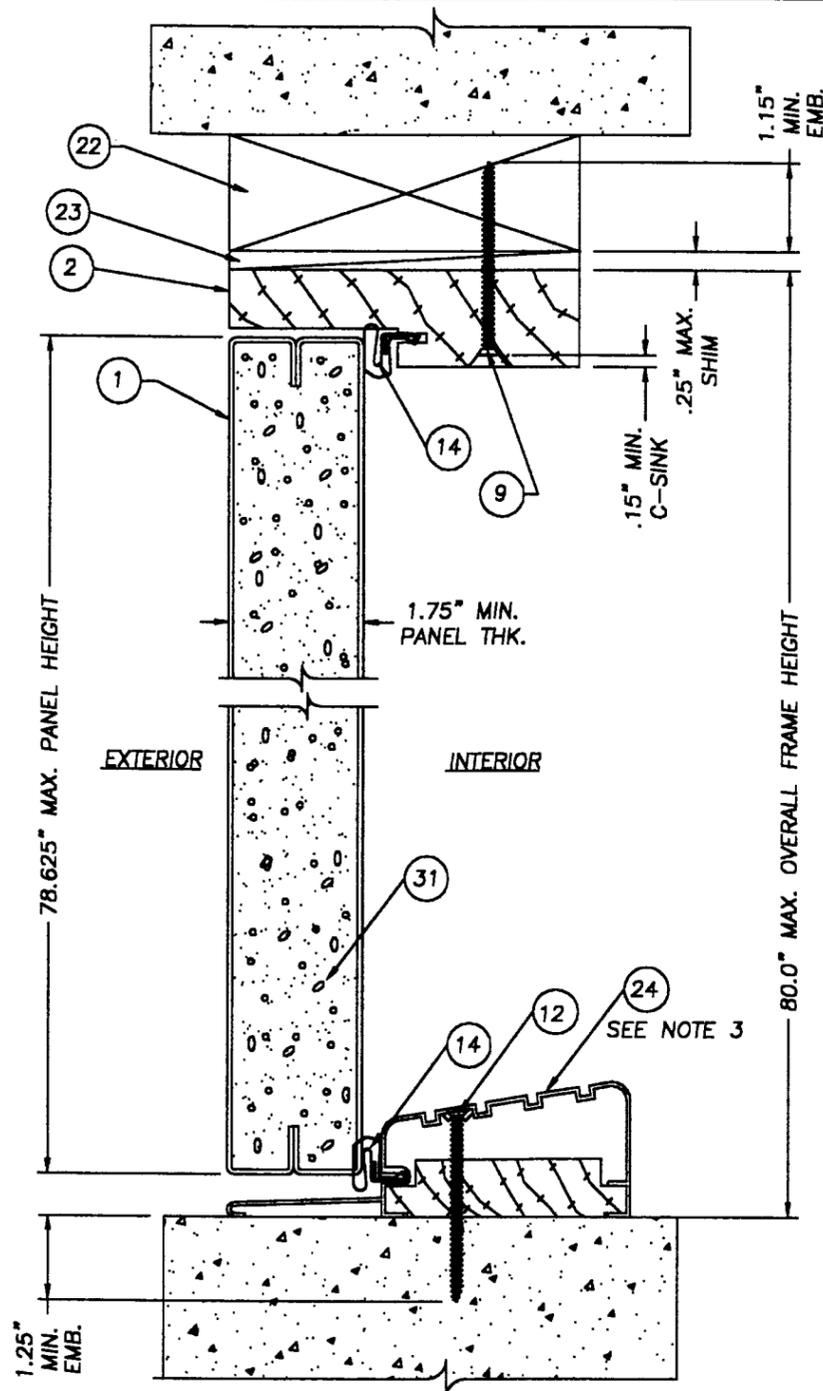
DATE:	11/30/01
SCALE:	N.T.S.
DWG. BY:	WLN
CHK. BY:	RW
DRAWING NO.:	S-2188
SHEET	1 OF 7

**RW** BUILDING CONSULTANTS, INC.  
813.684.3831

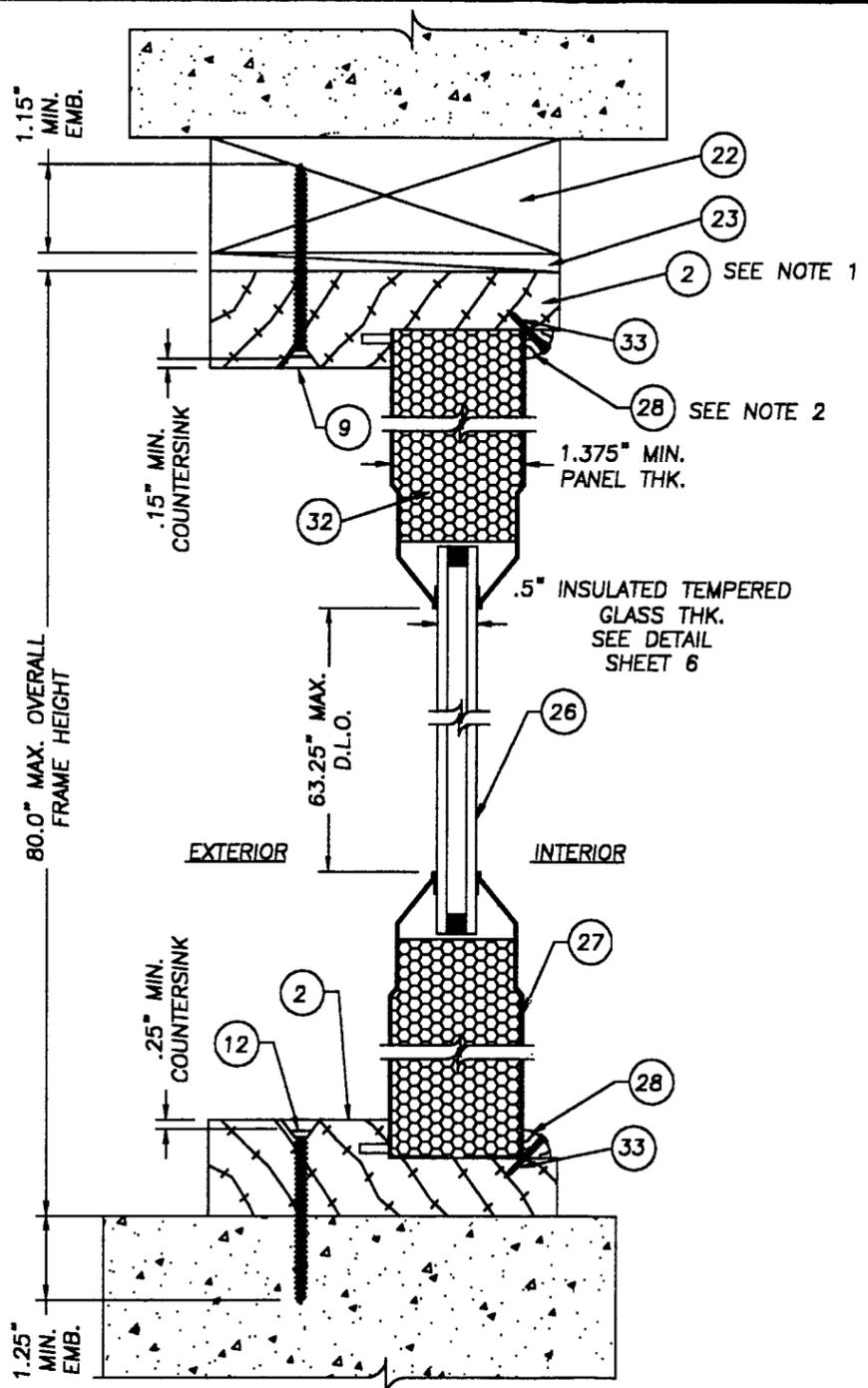
PRODUCT: "BENCHMARK STEEL EDGE" SINGLE & DOUBLE OUTSWING 6-8 OPAQUE DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATIONS & GENERAL NOTES

NO.	DATE	GENERAL REVISION	WLN	BY
1	4/1/02			

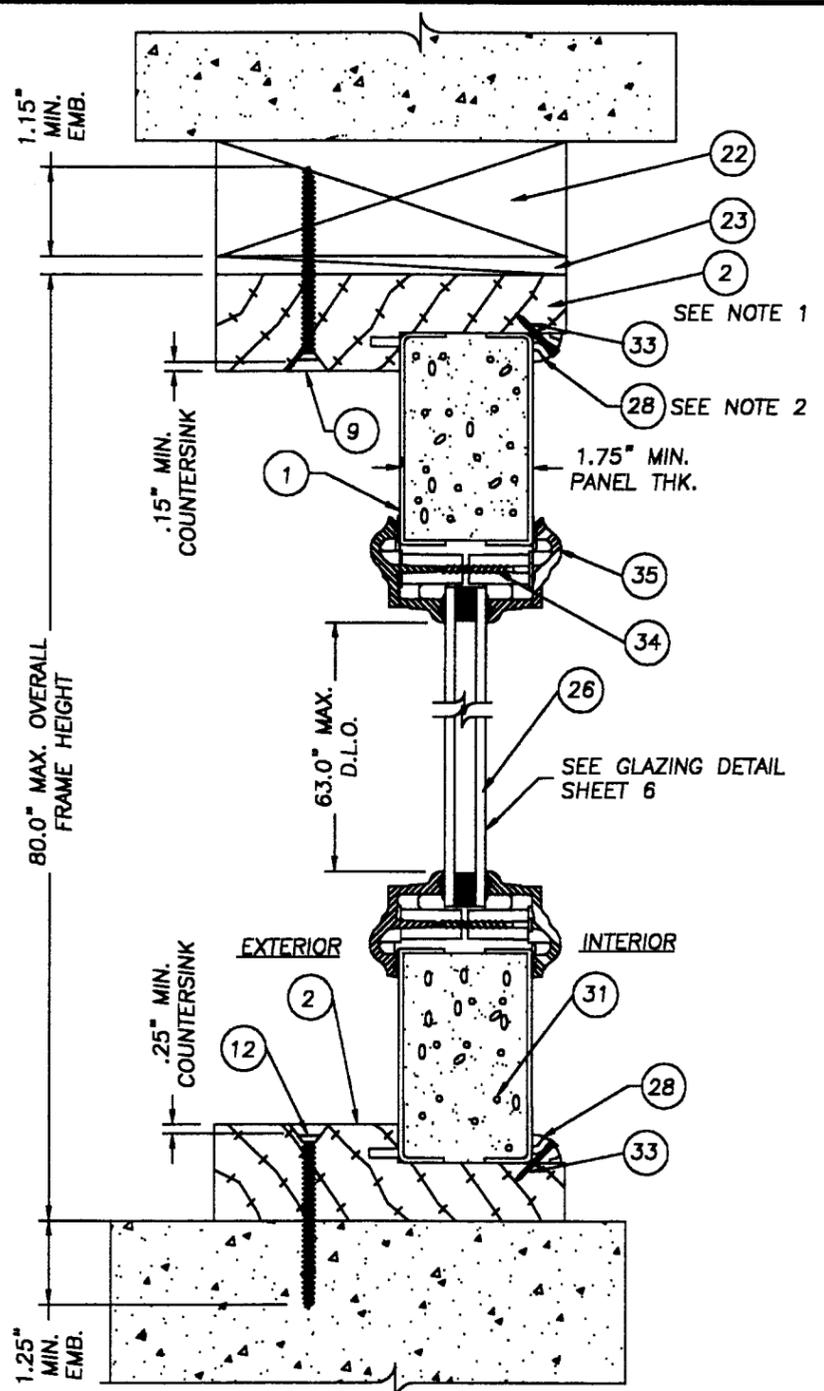
THERMA-TRU CORPORATION  
1687 WOODLANDS DRIVE  
MAUMEE, OHIO  
PH. (800) 537-8827



1 VERTICAL CROSS SECTION  
2 OUTSWING UNIT  
W/HIGH DAM THRESHOLD



2 VERTICAL CROSS-SECTION  
2 INTEGRAL SIDELITE SASH



3 VERTICAL CROSS-SECTION  
2 LIP LITE SIDELITE SASH

NOTES:

1. THE HEAD JAMB IS ATTACHED TO THE SIDE JAMBS WITH (3) 16GA. x 1/2" CROWN x 2" STAPLES AT BOTH SIDE.
2. THE SIDELITES ARE STOPPED IN WITH 0.375" QUARTER ROUND USING 16 GA. 1.0" WIRE BRADS AT 2.0" FROM EACH CORNER AND A MAXIMUM 6.0" ON CENTER.

3. THE ALUMINUM OUTSWING BUMP THRESHOLD IS ATTACHED TO THE SIDE JAMBS WITH (2) 16GA. x 1/2" CROWN x 2" STAPLES AT EACH END.

Approved as complying with the  
Florida Building Code  
Date: June 6, 2003  
NOAH# D2-0205.03  
Miami Dade Product Control  
Division  
By: Mmanuel

**THERMA-TRU CORPORATION**  
1687 WOODLANDS DRIVE  
MAUMEE, OHIO  
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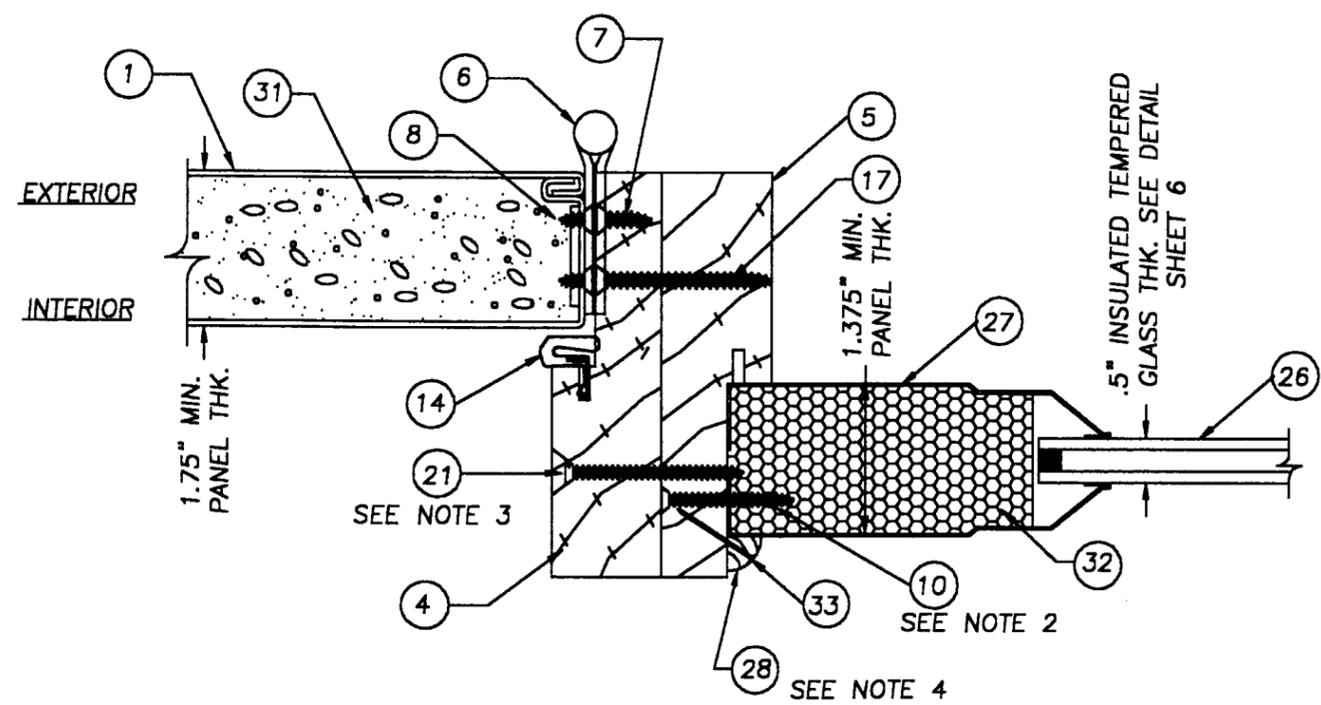
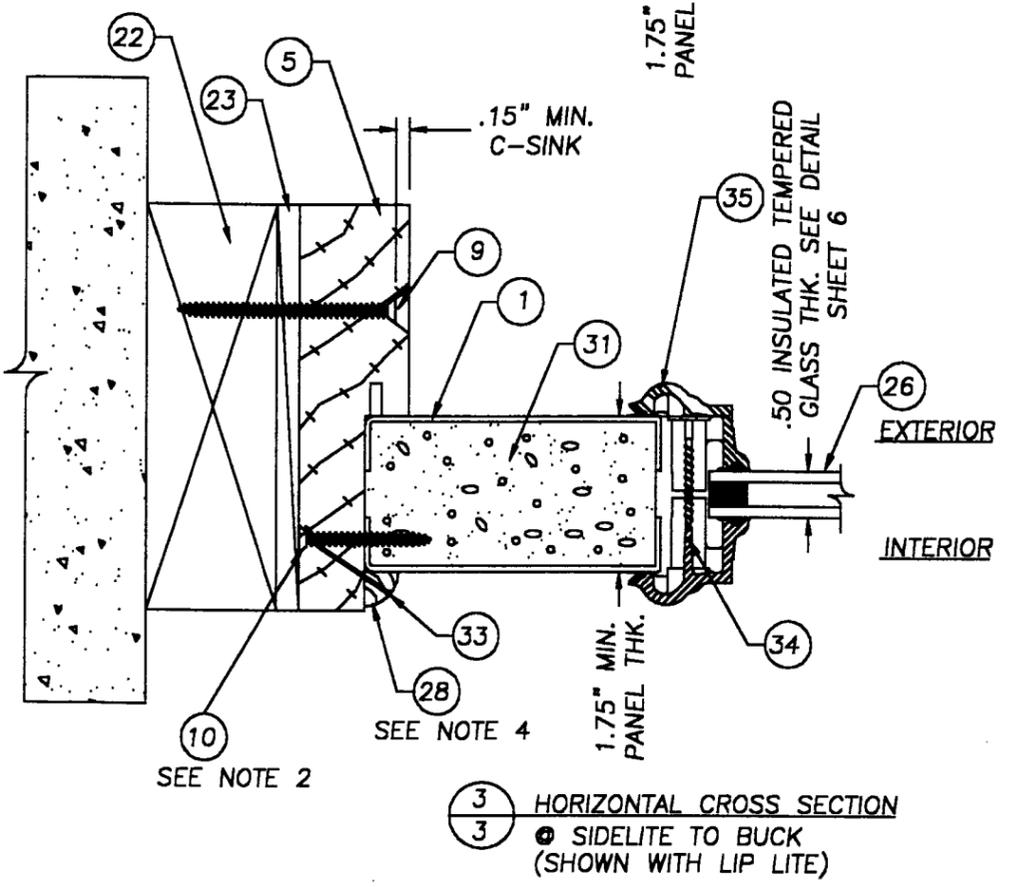
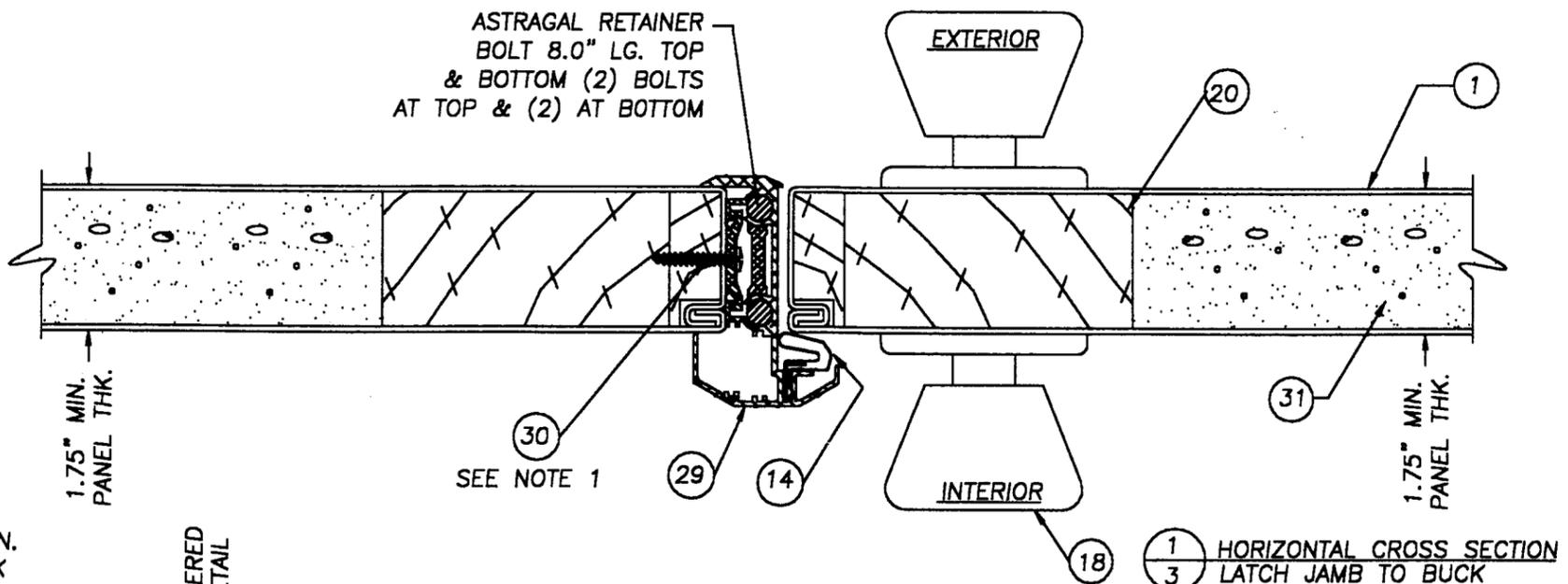
PRODUCT:  
"BENCHMARK STEEL EDGE"  
SINGLE & DOUBLE OUTSWING  
6 & 8 OPAQUE DOOR  
PART OR ASSEMBLY:  
VERTICAL CROSS  
SECTIONS

NO.	DATE	GENERAL REVISION	WLN	BY
1	4/1/02			

**RW** BUILDING  
CONSULTANTS, INC.  
813.684.3831

DATE: 11/30/01  
SCALE: NTS  
DWG. BY: WLN  
CHK. BY: RW  
DRAWING NO.: S-2188  
SHEET 2 OF 7

**THERMA-TRU CORPORATION**  
 1687 WOODLANDS DRIVE  
 MAUMEE, OHIO  
 PH. (800) 537-8827



- NOTES:
- SPACING FOR THE (9) #8 x 1" PANHEAD SMS ATTACHING THE ASTRAGAL TO THE INACTIVE DOOR IS AS FOLLOWS: TOP DOWN AT 1.0", 3.0", 5.0", 17.75", 43.0", 58.875", 73.875", 75.875" AND 77.875".
  - THE SIDELITE PANELS ARE DIRECT SET INTO THE JAMBS WITH (4) #8 X 1.5" PFH WS LOCATED AT 6.0", 28.5", 51.0" AND 73.5" FROM THE TOP ON EACH VERTICAL JAMB.
  - THE SIDELITE JAMBS ARE ATTACHED TO THE DOOR JAMB WITH (6) #8 X 2.0" PFH WS LOCATED AT EACH SIDE AT 6.0", 19.625", 33.25", 46.875", 60.5" AND 74.0" FROM THE TOP OF THE HEAD JAMB THROUGH THE DOORSTOP INTO THE SIDELITE JAMB.

- THE SIDELITES ARE STOPPED IN WITH 0.375" QUARTER ROUND USING 16 GA. 1.0" WIRE BRADS AT 2.0" FROM EACH CORNER AND A MAXIMUM 6.0" ON CENTER.
- SPACING FOR THE (16) #8 x 1.5 PHILIPS PLASCREW: AT TOP & BOTTOM AT 2.375" FROM EACH CORNER VERTICAL: 3.25" FROM EACH END AND 4 EQUALLY SPACED.

2 HORIZONTAL CROSS SECTION  
 3 HINGE JAMB TO BUCK, TYP.  
 (SHOWN WITH INTEGRAL LITE)

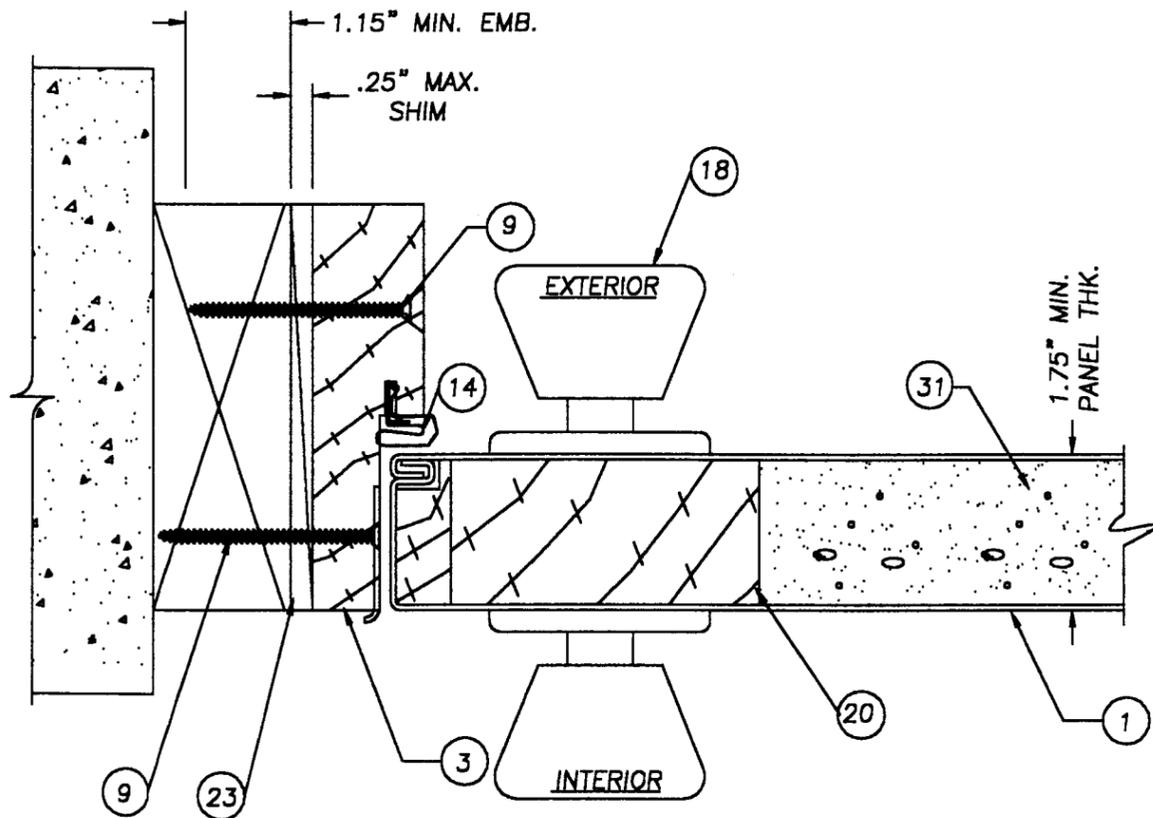
PRODUCT: "BENCHMARK STEEL EDGE" SINGLE & DOUBLE OUTSWING 6.8 OPAQUE DOOR  
 PART OR ASSEMBLY: HORIZONTAL CROSS SECTION & NOTES

NO.	DATE	BY	REVISIONS
1	4/1/02	WLN	GENERAL REVISION

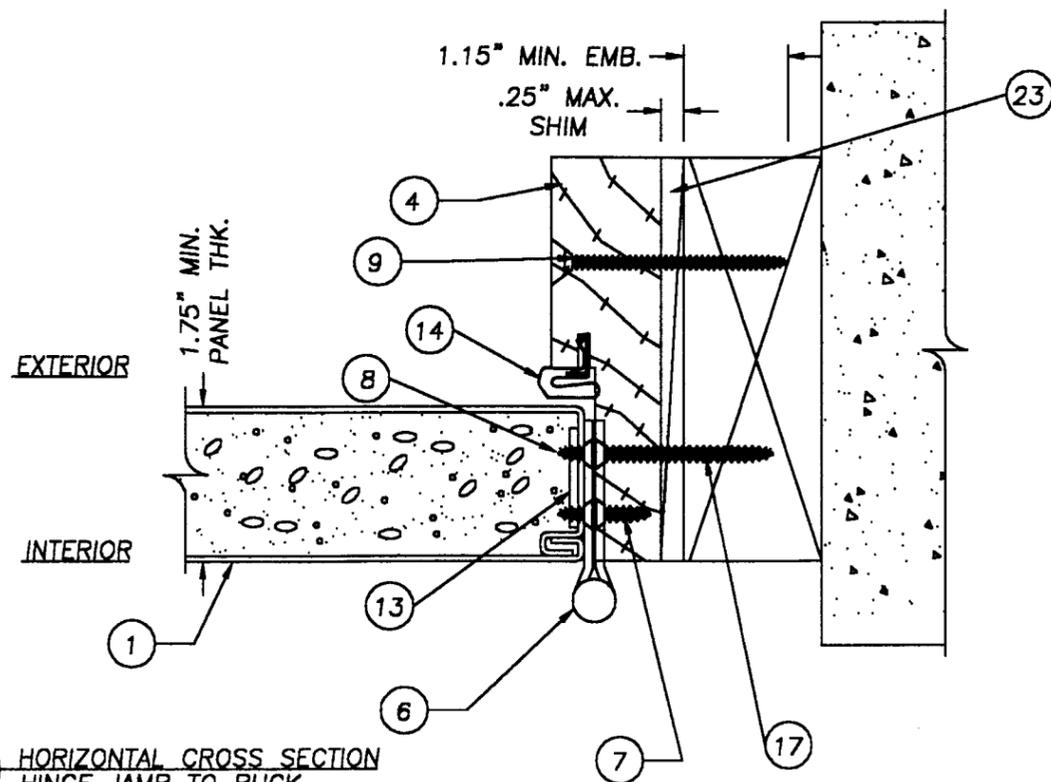
**RW BUILDING CONSULTANTS, INC.**  
 813.684.3831

Approved as complying with the Florida Building Code  
 Date June 6, 2002  
 NOA# 02-0205.03  
 Miami Dade Product Control Division  
 By Manuel Perez

DATE: 11/30/01
SCALE: NTS
DWG. BY: WLN
CHK. BY: RW
DRAWING NO.: S-2188
SHEET 3 OF 7



1 HORIZONTAL CROSS SECTION  
4 LATCH JAMB TO BUCK



2 HORIZONTAL CROSS SECTION  
4 HINGE JAMB TO BUCK

Item	DESCRIPTION	Material
1	DOOR PANEL STEEL FACE SHEETS (.021" MIN. THK.) Fy (ave) = 33,500 psi	STEEL
2	4 9/16" HEADER	WOOD
3	4 9/16" LATCH JAMB	WOOD
4	4 9/16" HINGE JAMB	WOOD
5	4 9/16" BLANK JAMB	
6	4" x 4" RADIUS HINGE PROPRIETARY .097" THK.	STEEL
7	#10 x 3/4" LG. (Hinge to Frame)	STEEL
8	#10 x 1/4" LG. (Hinge to Door)	STEEL
9	#8 x 2 1/2" LG. WOOD SCREW	STEEL
10	#8 x 1 1/2" PFH WS	STEEL
11	#8 x 2 1/2" PFH WS	STEEL
12	3/16" TAPCON ANCHOR (ELCO)	STEEL
13	HINGE REINFORCEMENT PLATE 1.125" WIDE x 5.25" LONG x 0.050" THICK	STEEL
14	COMPRESSION WEATHERSTRIP (Therma-Tru)	
15	NOT USED	-
16	#8 x 1/2" LG. TYPE "AB" PANHEAD	STEEL
17	#10 WOOD SCREW X 2" LG.	STEEL
18	KWIKSET 700 DL PASSAGE	
19	KWIKSET 700 DEADBOLT	
20	LATCH & DEADBOLT WOODBLOCK W/CROSS BORE WOOD BLOCK	WOOD
21	#8 x 2" PFH WS	STEEL
22	2x WOOD SUB BUCK	WOOD
23	MAX. 1/4" SHIM MATERIAL	WOOD
24	OUTSWING HIGH DAM THRESHOLD	ALUMINUM
25	NOT USED	-
26	GLAZING, 1/2" INSULATED TEMPERED GLASS	GLASS
27	SIDELITE PANEL STEEL FACE SHEETS (.021" MIN. THK.) Fy (ave) = 33,500 psi	STEEL
28	3/8" x 3/8" QUARTER ROUND FINGER JOINTED PINE	WOOD
29	ASTRAGAL WINDJAMBER II (.052" WALL)	ALUMINUM
30	#8 x 1" LG. PANHEAD STEEL METAL SCREW	STEEL
31	BASF URETHANE CORE	FOAM
32	POLYSTYRENE CORE	
33	1" LONG X .040" DIA. BRAD TRIM NAIL	STEEL
34	#8 1 1/2" PHILIPS PLASCREW (LITE FRAME)	STEEL
35	LIP LITE FRAME .5 GLASS BY O.D.L.	

**THERMA-TRU CORPORATION**  
1687 WOODLANDS DRIVE  
MAUMEE, OHIO  
PH. (800) 537-8827

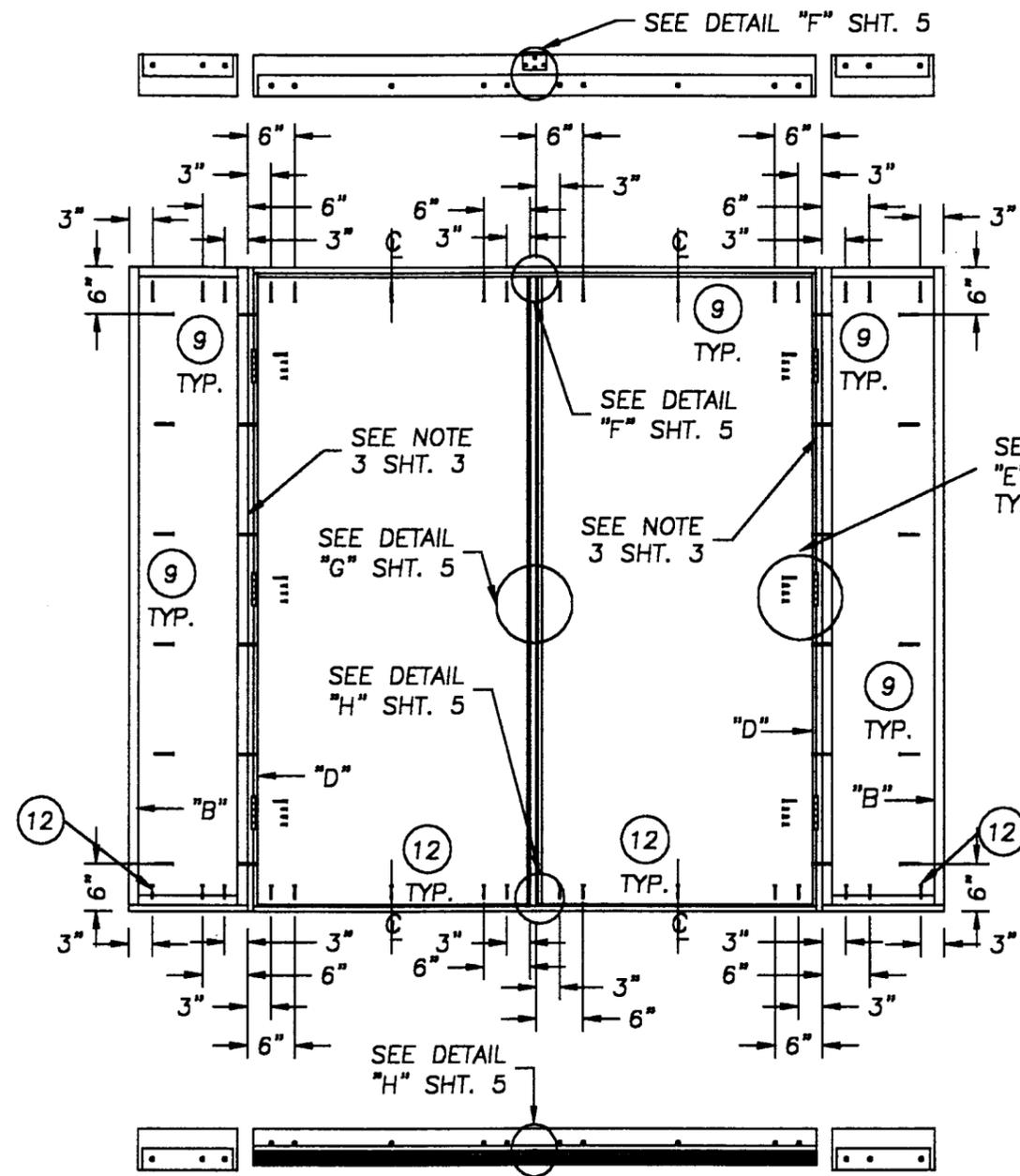
PRODUCT: "BENCHMARK STEEL EDGE"  
SINGLE & DOUBLE OUTSWING  
6.8 OPAQUE DOOR  
PART OR ASSEMBLY:  
HORIZONTAL CROSS SECTION  
& BILL OF MATERIAL

NO.	DATE	BY	REVISIONS
1	4/1/02	WLN	GENERAL REVISION

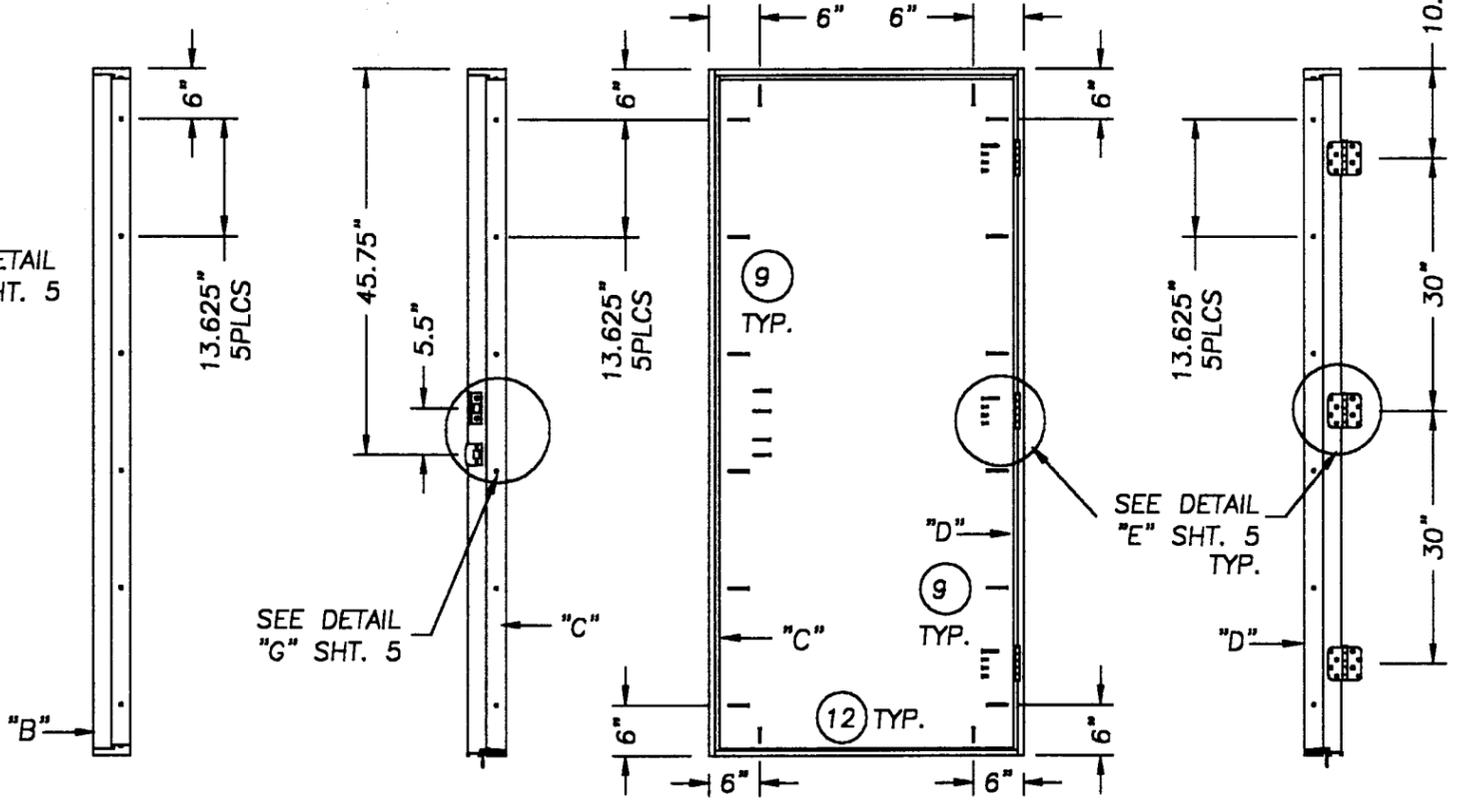
**RW** BUILDING  
CONSULTANTS, INC.  
813.684.3831

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DWG. BY: WLN  
CHK. BY: RW  
DRAWING NO.: S-2188  
SHEET 4 OF 7

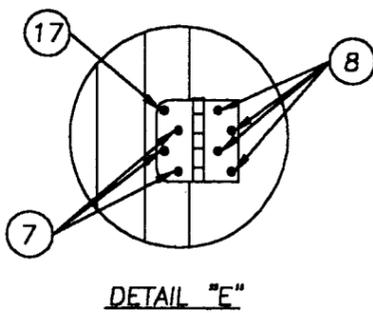
Florida Building Code  
Date: June 6, 2002  
NOA# 02-0205.03  
Miami Dade Product Control  
Division  
By: *Manuel Ariz*



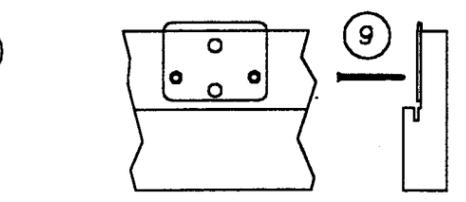
DOUBLE DOOR W/SIDELITES



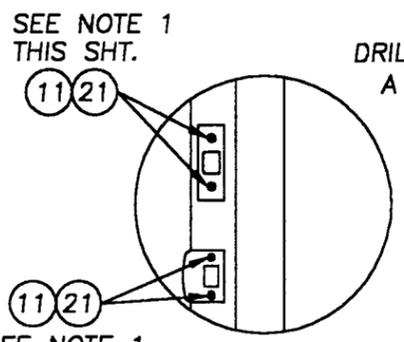
SINGLE DOOR



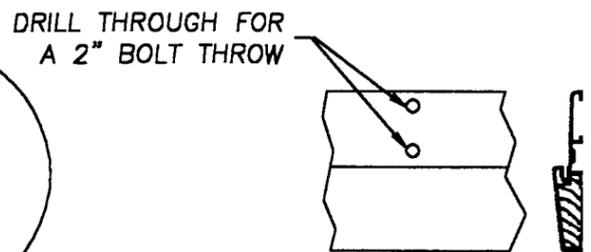
DETAIL "E"



DETAIL "F"  
ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN AT HEADER



DETAIL "G"  
ASTRAGAL THROW BOLTS AT THE THRESHOLD



DETAIL "H"  
ASTRAGAL THROW BOLTS AT THE THRESHOLD

NOTE 1:  
USE #8 x 2 1/2" PFH WOOD SCREW TO ATTACH THE STRIKE AND DEADBOLT PLATES TO THE JAMB OR ASTRAGAL EXCEPT IN THE MULLED APPLICATION WITH THE SIDELITE USE #8 x 2" PFH WOOD SCREW.

**THERMA-TRU CORPORATION**  
1687 WOODLANDS DRIVE  
MAUMEE, OHIO  
PH. (800) 537-8827

PRODUCT:  
"BENCHMARK STEEL EDGE"  
SINGLE & DOUBLE OUTSWING  
6.8 OPAQUE DOOR  
PART OR ASSEMBLY:  
ANCHORING LOCATIONS  
& DETAILS

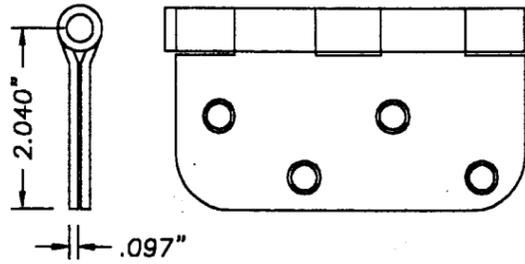
NO.	DATE	GENERAL REVISION	WLN	BY
1	4/1/02			

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813.684.3831

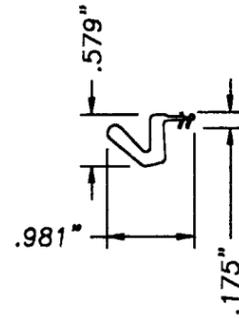
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Miami Dade Product Control  
Division  
By: *[Signature]*

DATE: 11/30/01  
SCALE: N.T.S.  
DWG. BY: WLN  
CHK. BY: RW  
DRAWING NO.: S-2188  
SHEET 5 OF 7

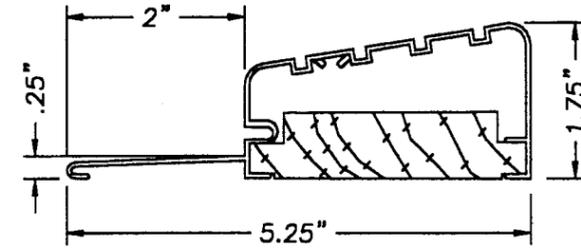




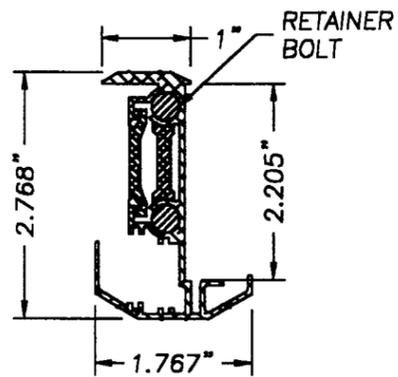
⑥ 4 x 4 RADIUS HINGE



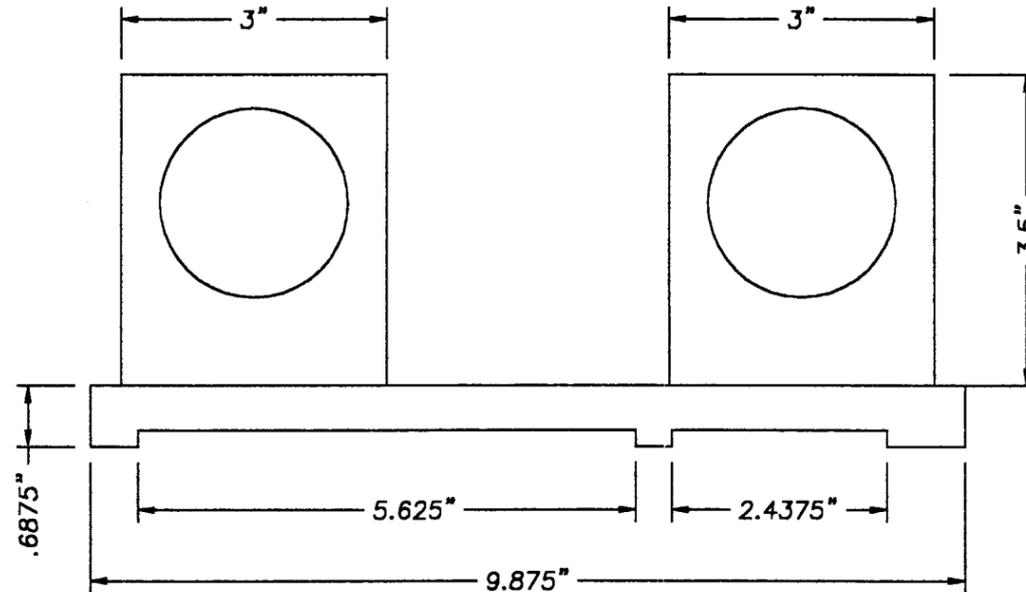
⑭ COMPRESSION WEATHERSTRIP  
BY THERMA-TRU  
FOAM CELL CORE  
W/VINYL JACKET



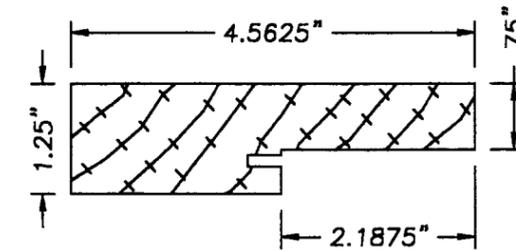
⑳ OUTSWING HIGH DAM  
ALUMINUM THRESHOLD



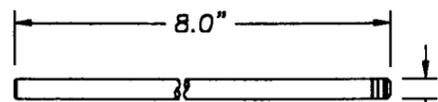
⑳ WINDJAMBER II WR80T  
ASTRAGAL (ALUMINUM .052" WALL TYP.)  
(6060 T6)



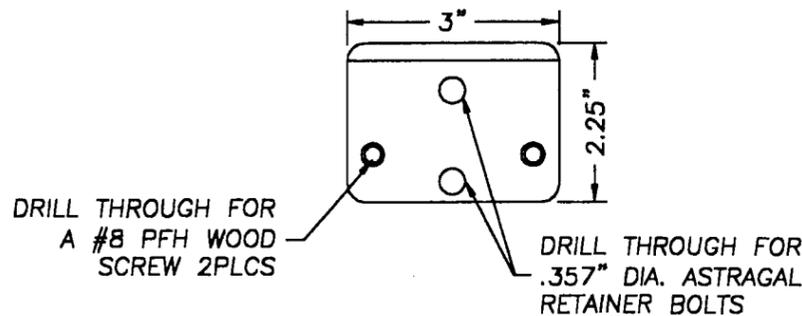
⑳ LATCH & DEADBOLT  
WOOD BLOCK W/  
CROSS BORE WOOD BLOCK



②③④⑤ 4 9/16" WOOD FRAME



ASTRAGAL RETAINER BOLT  
MATERIAL: C/R ROD ZINC  
& YELLOW CHROMATE



WINDJAMBER II WR68T STRIKE PLATE

**THERMA-TRU CORPORATION**  
1687 WOODLANDS DRIVE  
MAUMEE, OHIO  
PH. (800) 537-8827

PRODUCT: "BENCHMARK STEEL EDGE"  
SINGLE & DOUBLE OUTSWING  
6.8 OPAQUE DOOR  
PART OR ASSEMBLY:  
UNIT COMPONENTS

NO.	DATE	GENERAL REVISION	WLN	BY
1	4/1/02			

**RW** BUILDING  
CONSULTANTS, INC.  
813.684.3831

DATE: 11/30/01  
SCALE: NTS  
DWG. BY: WLN  
CHK. BY: RW  
DRAWING NO.: S-2188  
SHEET 7 OF 7

Approved as complying with the  
Florida Building Code  
Date: June 6, 2002  
NOA# 02-0705.03  
Miami Dade Product Control  
Division  
By: *[Signature]*