



Eastern Engineering Group

3401 NW 82ND AVE
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Miami Florida 33122

Tel. (305) 599-8133
Fax. (305) 599-8076

www.easterneg.com
contacts@easterneg.com

ALUTECH CORPORATION

8548 N.W. 64th STREET
MIAMI, FL, 33166

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LMI

WINDOWS AND DOORS CALCULATIONS

DEC 08 2009

Prepared By:
Gonzalo A. Paz, PE
Lic. No. 60734



Eastern Engineering Group

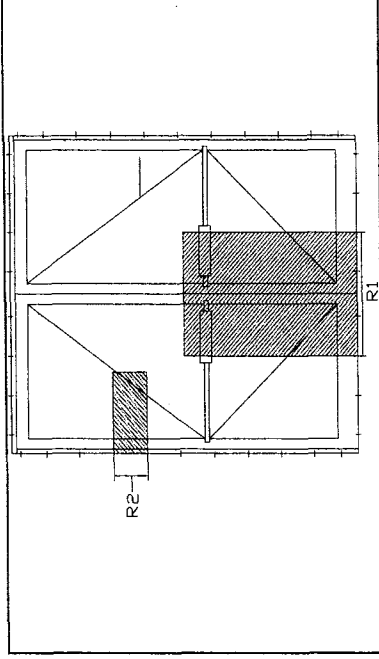
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09 306

Anchor Analysis

Series	Model 2001 Series 2401 Flush Outswing Pair Door-LMI
NOA	06-0613.08



Sheet #	Elevation	Width	Door Height	Transom Height	No. of Panels	Panel Area	Panel Width	Pd Allow (Psf(**))	
								Ext. (+)	Int. (-)
SK-9a	OPTION 5	96.00	96.00	N/A	2	32.00	48.00	56.3	56.3
SK-9a	OPTION 6	96.00	96.00	N/A	2	32.00	48.00	56.3	56.3
SK-10a	OPTION 7	96.00	96.00	N/A	2	32.00	48.00	56.3	56.3
SK-10a	OPTION 8	96.00	96.00	N/A	2	32.00	48.00	55.0	55.0
SK-11a	OPTION 9	96.00	96.00	N/A	2	32.00	48.00	55.0	55.0
SK-11a	OPTION 10	72.00	84.00	N/A	2	21.00	36.00	75.0	75.0
SK-11a	OPTION 11	96.00	96.00	N/A	2	32.00	48.00	56.3	56.3
						Max. Area	32.00		

(**) See NOA 06-0613.08 And/Or Comparative Analysis and NOA 07-0829 For Panic Exit Devices Components Anchors As Per NOA



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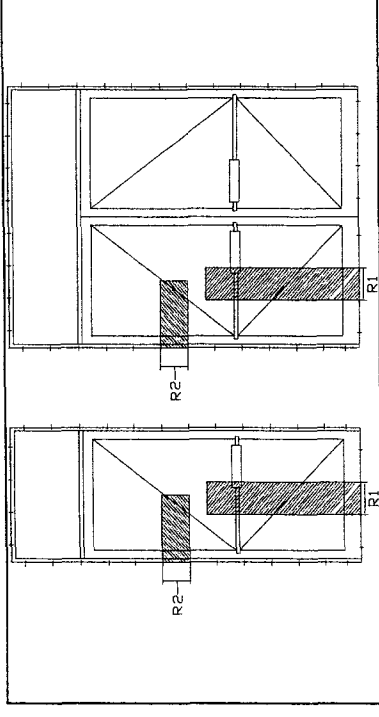
www.easternegroup.com
contacts@easternegroup.com

09 306

Door Analysis

Series Model 2001 Series 2401 Flush Outswing Single Door-LMI

NOA 06-0613.08



Sheet #	Elevation	Width	Door Height	Transom Height	No. of Panels	Panel Area	Panel Width	Pd Allow (Psf)(**)	
								Ext.(+)	Int. (-)
SK-8a	Option 1	36.00	84.00	N/A	1	21.00	36.00	95.0	95.0
SK-8a	Option 2	36.00	84.00	N/A	1	21.00	36.00	90.0	90.0
SK-8a	Option 3	36.00	84.00	N/A	1	21.00	36.00	95.0	95.0
SK-8a	Option 4	36.00	84.00	N/A	1	21.00	36.00	90.0	90.0
						Max. Area		21.00	

(**) See NOA 06-0613.08 And/Or Comparative Analysis and NOA 07-0829 For Panic Exit Devices Components Anchors As Per NOA



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Date: 12/10/09

Model 2001 Series 2401 Flush Outswing Door-LMI

Series	240
Description	
NOA	06-0613.08
Test No.	

TESTED SIZE DATA

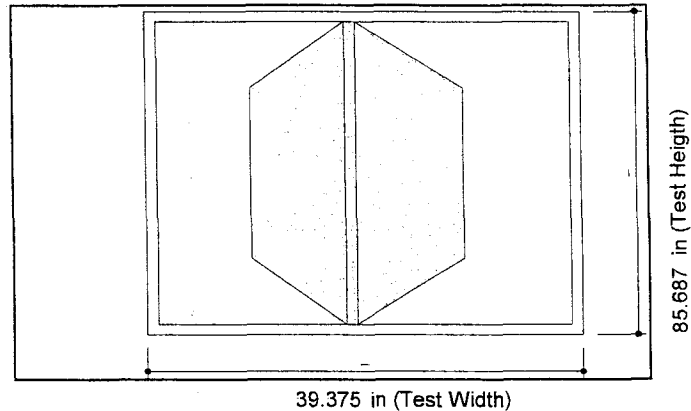
Width (in)	39.38
Height (in)	85.69
# Panel	1.00
Panel Width (in)	39.38
Panel Height (in)	85.69

Area (At) 18.05 ft

Wind Pressure:

Pt positive	95.0	psf
Pt negative	95.0	psf

CA-t	64.4	Deflection Coefficient
Cstress-t	61.6	Moment Coefficient

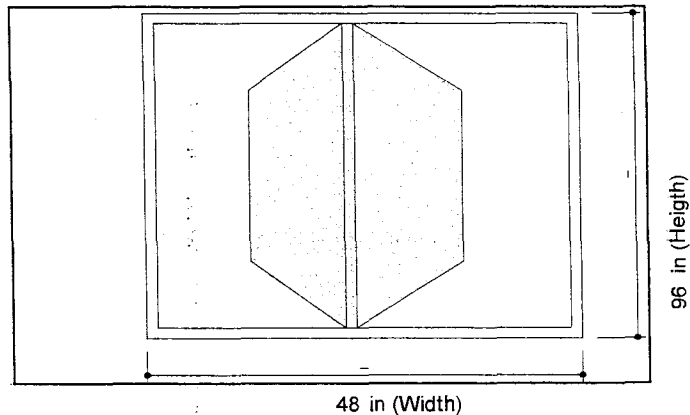


COMPARATIVE SIZE DATA

Width (in)	48.00
Height (in)	96.00
# Panel	1.00
Panel Width (in)	48.00
Panel Height (in)	96.00

Area (Ac) 24.00 ft

CA-c	63.7	Deflection Coefficient
Cstress-c	6.58	Moment Coefficient



CALCULATIONS

1) Check Concentrated Load:

$$P_c \text{ positive} = P_t \text{ positive} \times A_t / A_c$$

$$P_c \text{ negative} = P_t \text{ negative} \times A_t / A_c$$

71.4 psf

71.4 psf

2) Check Fiberstress:

$$P_c \text{ positive} = (P_t \times A_t \times L_t \times C_{\text{stress-c}}) / (A_c \times L_c \times C_{\text{stress-t}})$$

$$P_c \text{ negative} = ((P_t \times A_t \times L_t^2 \times C_{\Delta-c}) / (A_c \times L_c^2 \times C_{\Delta-t}))$$

62.9 psf

62.9 psf

3) Check Deflection:

$$P_c \text{ positive} = (P_t \times A_t \times L_t^2 \times C_{\Delta-c}) / (A_c \times L_c^2 \times C_{\Delta-t})$$

$$P_c \text{ negative} = (P_t \times A_t \times L_t^2 \times C_{\Delta-c}) / (A_c \times L_c^2 \times C_{\Delta-t})$$

56.3 psf

56.3 psf

	P conc. load	P stress	P deflect	P lowest	
P positive	71.4	62.9	56.3	56.3	psf
P negative	71.4	62.9	56.3	56.3	psf

Water pressure	95.0	psf
----------------	------	-----

Equivalent Design Pressure:

psf

psf



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building/home/asp

NOTICE OF ACCEPTANCE (NOA)

Alutech Corporation

8548 NW 64 Street

Miami, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC -Product Control Section 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 Section (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. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 2001 Flush Single Outswing Aluminum Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. **11-088**, titled "Series 2001 Flush Single Outswing Aluminum Insulated Commercial Door", sheets 1, 1A, 2 through 7 of 7, dated 09/13/11, prepared by TILTECO, signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation:

1. 1x or 2x wood bucks, by others to be properly secured to withstand imposed wind loads.
2. See Dwg. sheet **3** for frame Jamb anchor types & schedule and Jamb anchor spacing "S" in sheet **5**. Minimum three (3) anchors at sill are required.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series 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 **renews # 06-0613.08** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY
APPROVED

NOA No 11-0715.03

Expiration Date: July 19, 2012

Approval Date: October 06, 2011

Page 1

4
7/29/11

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Original in file # **06-0613.08**)
2. Drawing No. **11-088**, titled "Series 2001 Flush Single Outswing Aluminum Insulated Commercial Door", sheets 1, 1A, 2 through 7 of 7, dated 09/13/11, prepared by TILTECO., signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS (Original in file # 06-0613.08)

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of a flush single outswing aluminum door, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-00-939 & HETI-00-940**, dated 10/05/00 and 11/01/00 and **HETI-95-1046, HETI-95-427 & HETI-95-427F**, dated 11/30/95, 12/06/95 and 11/30/95 respectively, all signed and sealed by Hector M. Medina, P.E.

(Note: Original test conducted per SFBC PA 201, 20 & 203-94, now known as FBC TAS 201, 202 & 203-94)

C. CALCULATIONS (Original in file # 06-0613.08)

1. Anchor Calculations structural analysis and comparative analysis, prepared by TILTECO, Inc., dated 05/24/06, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of compliance to FBC 2007, dated 09/13/11 issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building and Neighborhood Compliance Department (BNC).

E. MATERIAL CERTIFICATIONS

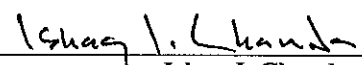
1. Notice of Acceptance No. **07-1107.08** issued to Dyplast Product, LLC (Former Apache Products Co.) for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/12.

F. STATEMENTS

1. Statement letter of compliance to FBC 2007 and "No financial interest", both dated 09/13/11 issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement of lab compliance, as part of the test report.
3. Statement letter dated July 12, 2011, issued by Hurricane Engineering & Testing Inc. of upcoming schedule re-test, signed by Dr. Nasreen K. Ali.

G. OTHER

1. This NOA **renews # 06-0613.08**, expired on July 19, 2011.
2. One year conditional approval, subjected to successful re-test.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 11-0715.03

Expiration Date: July 19, 2012
Approval Date: October 06, 2011

GENERAL NOTES AND SPECIFICATIONS:

1. SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM INSULATED COMMERCIAL DOOR-IMPACT WITH 0.040", 0.063", OR 0.090" ALUMINUM FACE SHEET AND FR575 OR FR450S ALUMINUM FRAME SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P. A. D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER HETI LAB REPORT #HETI-00-939 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE.

2. SEE MAXIMUM DESIGN PRESSURE RATING AND WATER INFILTRATION REQUIREMENTS ON SHEET 1A.

3. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT BILL OF MATERIALS (SHEET 1A) OF THIS DRAWING.

4. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER F.B.C. TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.

5. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES.

6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 3 OF THIS DRAWING. SEE ELEVATIONS ON SHEET 5.

7. PROVIDE 1/4" MAX. BEARING SHIM SPACE.

8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

9. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME AND THRESHOLD JOINT WITH EXISTING STRUCTURE.

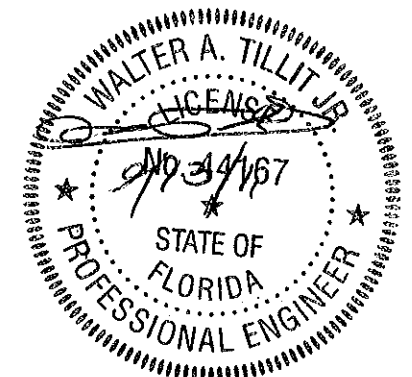
10. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

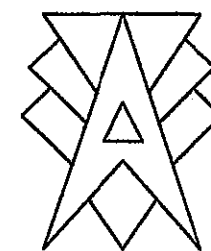
(d) ORIGINAL P.A.D. SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

11. DOOR'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
ALUTECH CORPORATION
MIAMI, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.



TILTECO Inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone: (305) 871-1830, Fax: (305) 871-1831
e-mail: tiltco@aol.com
EE-0008719
WALTER A. TILLIT JR., P. E.
FLORIDA Lic. # 44187

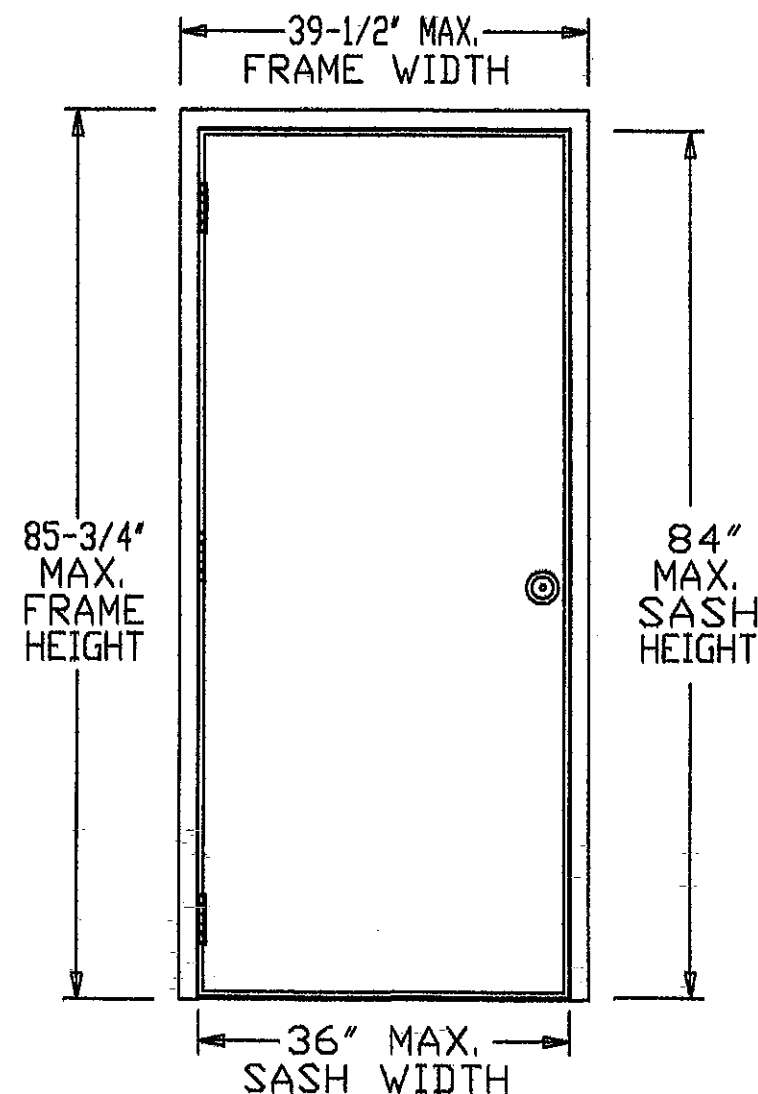
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-071503
Expiration Date OCT 06, 2012
By Ishag I. Chanda
Miami-Dade Product Control



ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

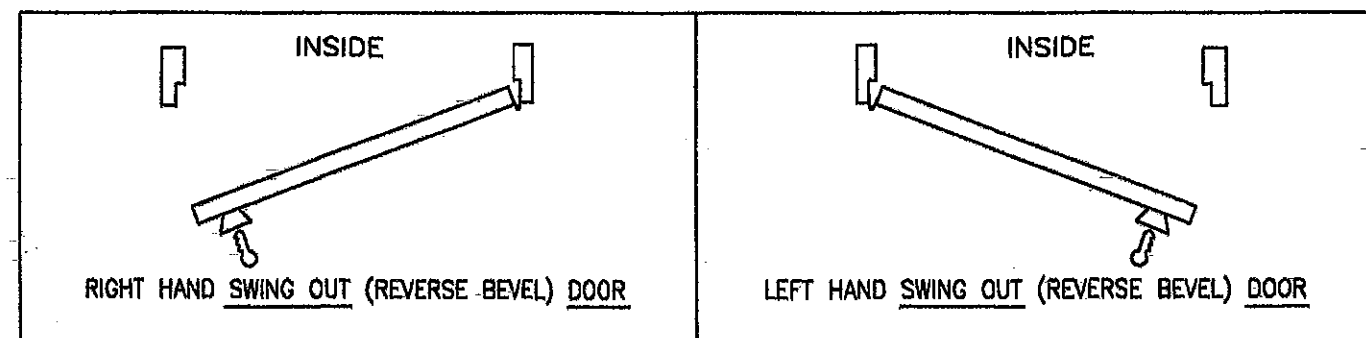
SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM
INSULATED COMMERCIAL DOOR-IMPACT WITH
0.040", 0.063", OR 0.090" ALUMINUM FACE
SHEET AND FR575 OR FR450S ALUMINUM FRAME.
REV: 09/13/11

DATE: 12/15/95	DRAWN BY: SARDA/AG
DWG No: 11-088	SHEET No: 1 OF 7

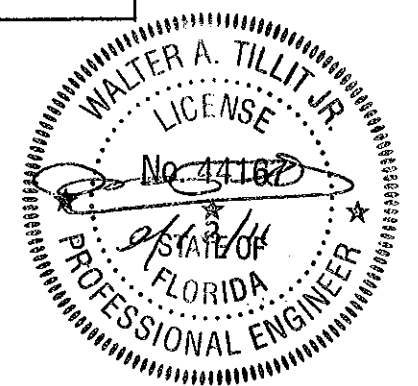


(X) EXTERIOR ELEVATION
(SEE SHEETS 4 THRU 7 FOR SPECS & DETAILS)

DESIGN PRESSURE RATING		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+93.3 PSF	+95 PSF
NEGATIVE	-95 PSF	-95 PSF



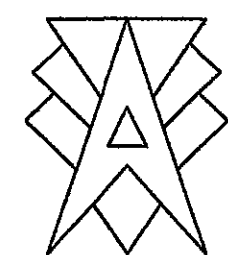
OUT-SWING DOOR



TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8355 N.W. 36th St., Ste. 300, VIRGINIA GARDENS, FLORIDA 33166
Phone: (305)871-1530 • Fax: (305)871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT JR., P. E.
FLORIDA Lic. # 44167

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0715-03
Expiration Date OCT 06, 2012
By: [Signature]
Miami Dade Product Control

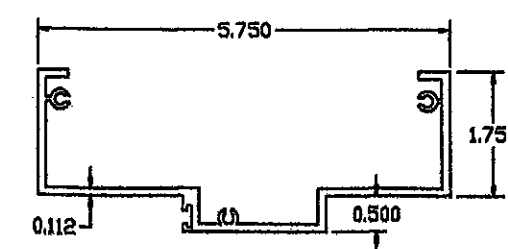
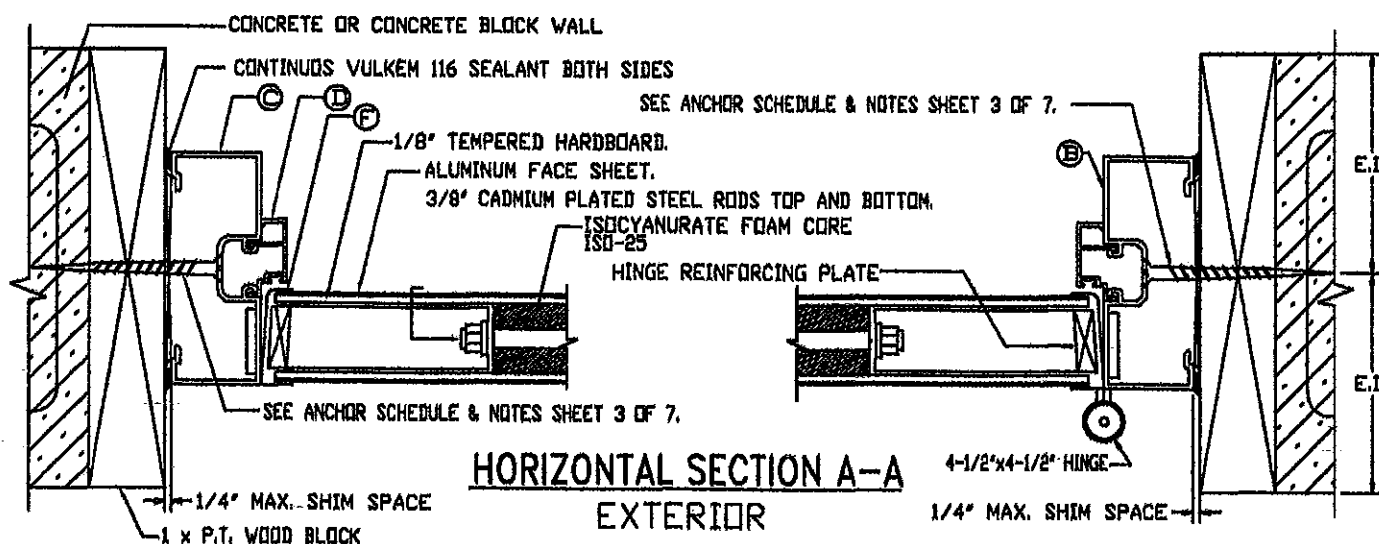
BILL OF MATERIAL FOR 3'-0" X 7'-0" DOOR	
DESCRIPTION	QTY
FLUSH ALUMINUM DOOR 35-13/16"x83-5/8"	1
ALUMINUM FRAME 39-1/2"x85-3/4"	1
WEATHERSTRIPPING SANTOPRENE	17
WALL ANCHORS	SEE SHT 3 OF 7
YALE 5407 CYLINDRICAL LOCK SERIES 1 WITH 4-7/8" STRIKE	1
HINGES 4-1/2" X 4-1/2" X .134"	3
ALUMINUM THRESHOLD 1" BUMPER TYPE 36" BY ALUTECH	1
DOOR SWEEP 36" BY ALUTECH	1



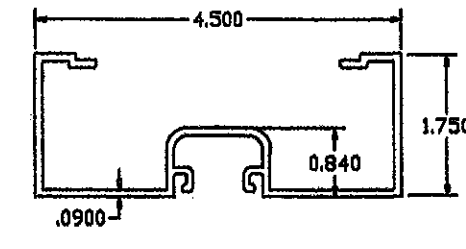
ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM
INSULATED COMMERCIAL DOOR-IMPACT WITH
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SHEET AND FR575 OR FR450S ALUMINUM FRAME.
REV: 09/13/11

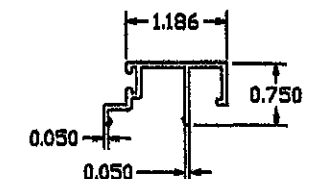
DATE: 12/15/95	DRAWN BY: PEREZ/AG
DWG No.: 11-088	SHEET No.: 1A OF 7



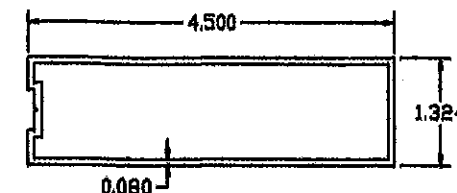
B JAMB & HEADER FR575



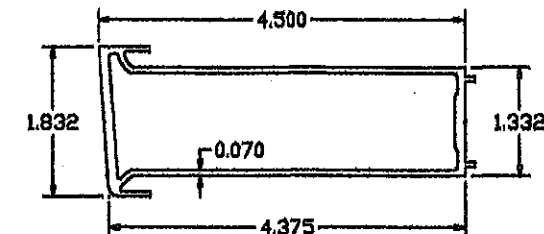
C ALTERNATE JAMB & HEADER FR450S



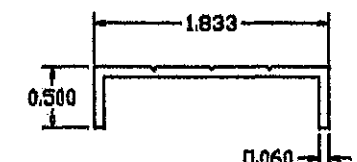
D SNAP-ON DOOR STOP



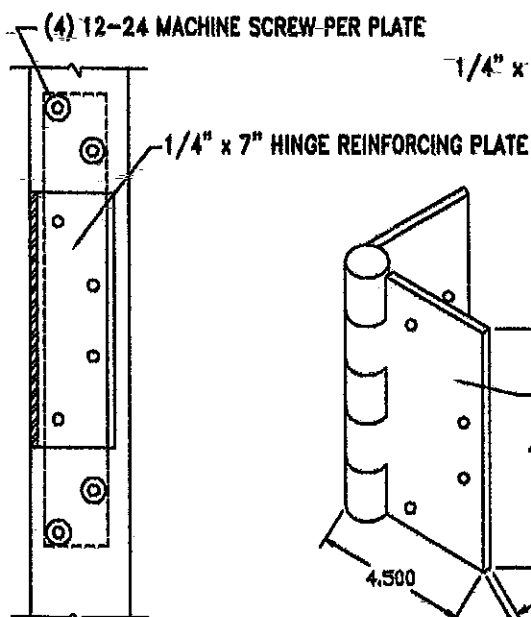
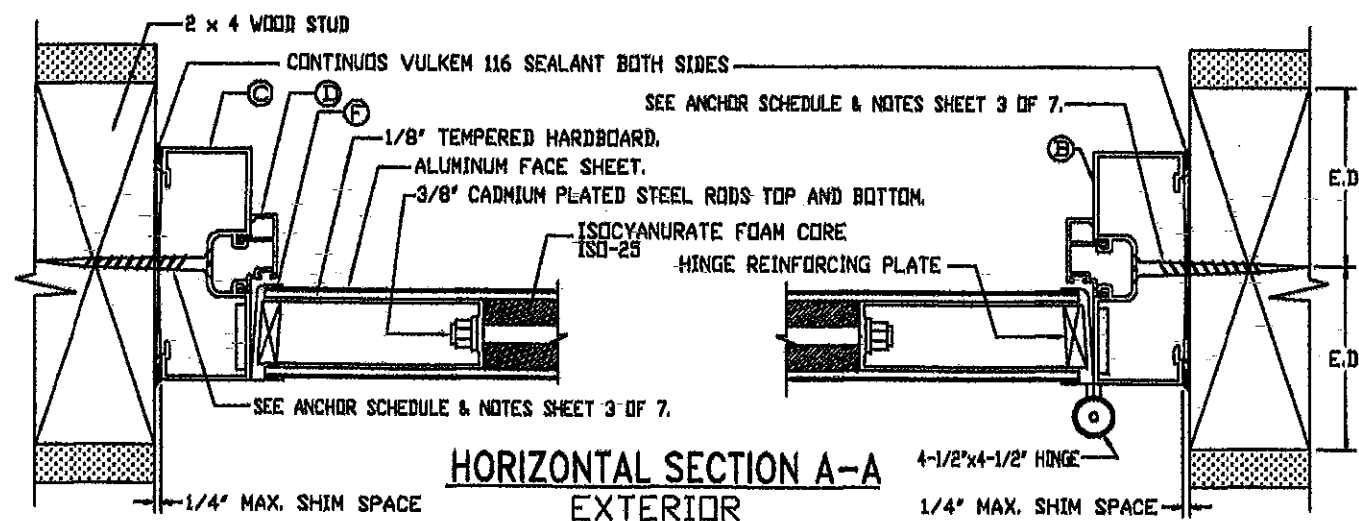
E TOP AND BOTTOM RAIL



F HINGE AND LOCK STILE

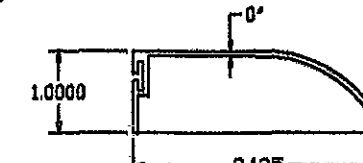


G TOP AND BOTTOM CAPS

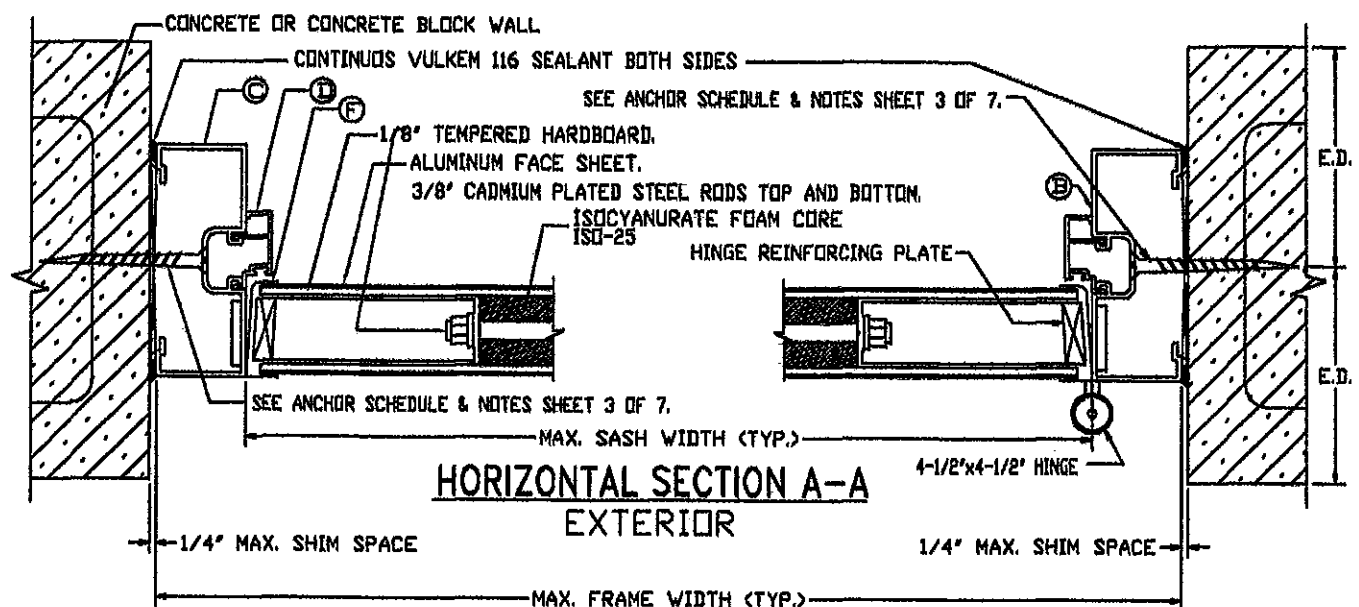


J HINGE

K LOCK REINFORCING PLATE



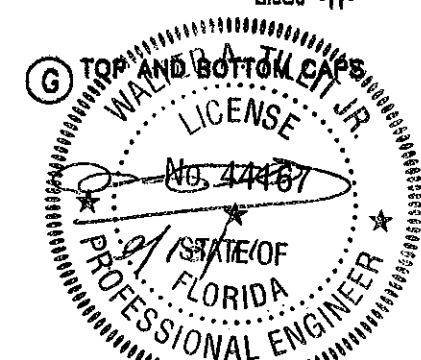
L THRESHOLD



HINGE REINFORCING PLATE

HINGE

COMPONENTS



TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY

6365 N.W. 36th St., Ste. 308, VIRGINIA GARDENS, FLORIDA 33166

Phone: (305) 871-1830 • Fax: (305) 871-1831

e-mail: tiltco@aol.com

EE-0008718

WALTER A. TILLIT JR., P. E.

FLORIDA Lic. # 44187

PRODUCT RENEWED

as complying with the Florida

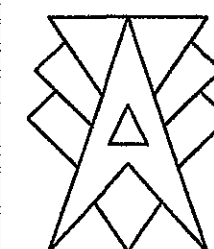
Building Code

Acceptance No. 11-07/5.03

Expiration Date OCT 21, 2012

By: *Walter A. Tillit Jr.*

Manual Made Product Control



ALUTECH CORPORATION

8548 NW 64th STREET

MIAMI, FL 33166

PH: 305/593-2080

FAX: 305/591-8481

SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM

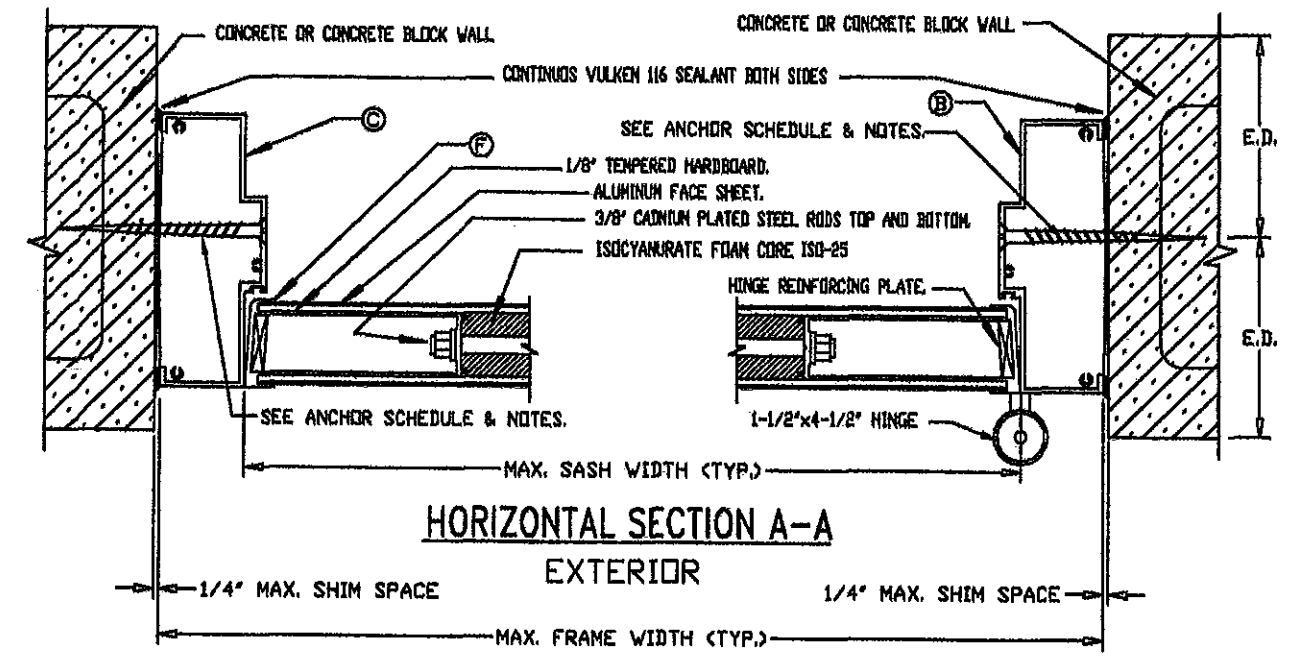
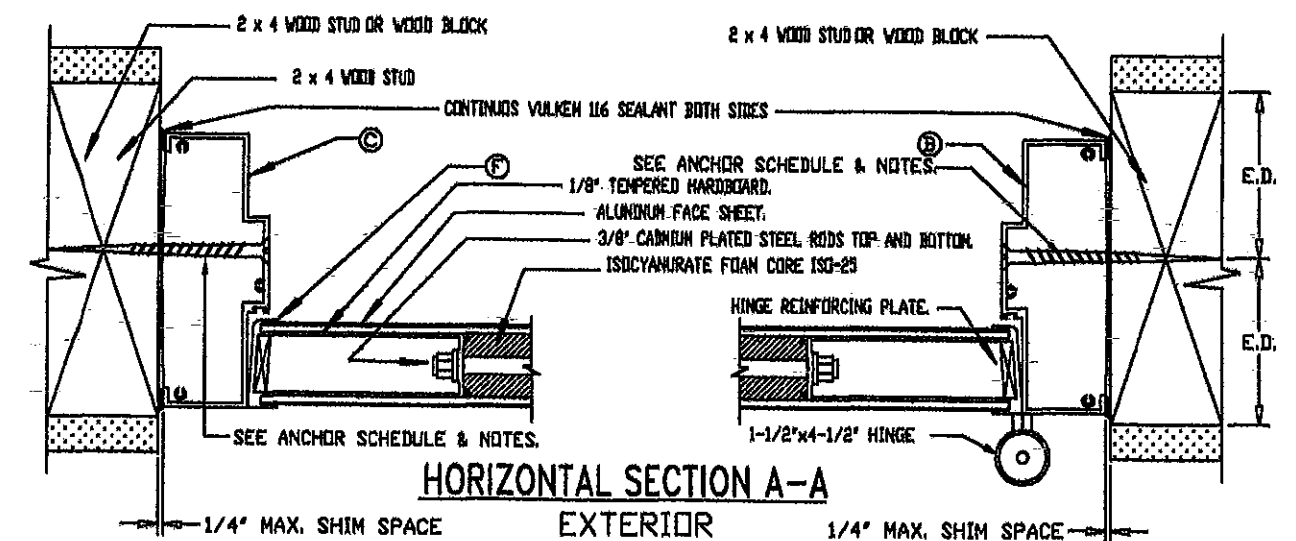
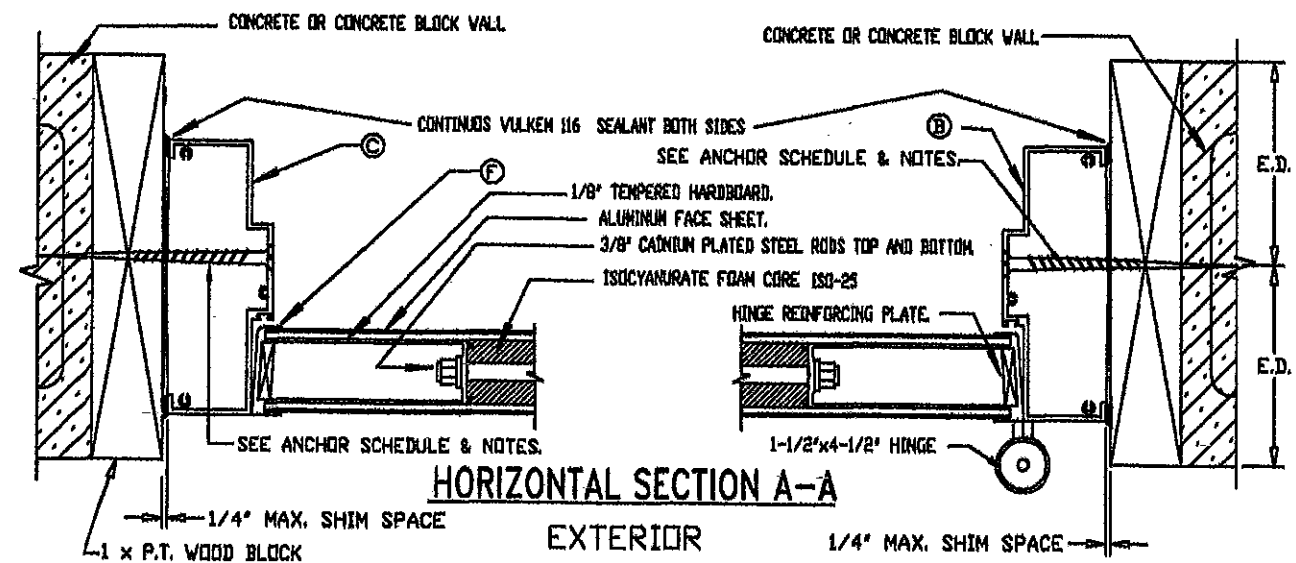
INSULATED COMMERCIAL DOOR-IMPACT WITH

0.040", 0.063", OR 0.090" ALUMINUM FACE

SHEET AND FR575 OR FR450S ALUMINUM FRAME.

REV: 09/13/11

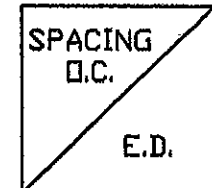
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DWG No: 11-088	SHEET No: 2 OF 7



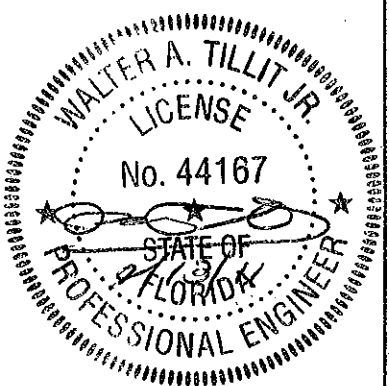
MAXIMUM ANCHOR SPACING ("S") AND MINIMUM E.D. SCHEDULE

FRAME TYPE	ANCHOR TYPE				
	ELCO CONSTRUCTION PRODUCTS INC.		HILTI INC.	WOOD SCREWS	
	1/4"Ø F.H. TAPCON	5/16"Ø F.H. TAPCON	1/4"Ø F.H. KWIK-CON II	18 GAGE 5/16"Ø F.H.	24 GAGE 3/8"Ø F.H.
FR575	2 1/2"	3 1/2"	4"	3"	4 1/2"
	2 1/2"	3 1/8"	2 1/2"	1 1/4"	1 1/2"
FR450S	4 1/2"	6"	8"	5 1/2"	8"
	2 1/2"	3 1/8"	2 1/2"	1 1/4"	1 1/2"

- (1) MINIMUM EMBEDMENT OF ELCO TEXTRON INC. TAPCON INTO MASONRY OR CONCRETE IS 1 1/4".
- (2) MINIMUM EMBEDMENT OF HILTI INC. KWIK-CON II ANCHORS INTO MASONRY OR CONCRETE IS 1 1/4".
- (3) MINIMUM EMBEDMENT OF WOOD SCREWS INTO WOOD IS 1 1/2".
- (4) SEE FRAME ELEVATION WITH ANCHOR SPACING AND LOCATION ON SHEET 5 OF 7.
- (5) WOOD SCREWS SHALL COMPLY WITH 2005 EDITION OF THE NATIONAL DESIGN SPECIFICATIONS.

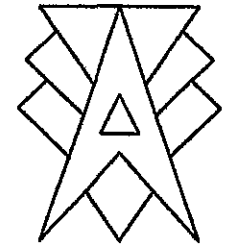


ANCHOR LEGEND



TITECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6365 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone: (305) 871-1530 • Fax: (305) 871-1531
e-mail: tillitco@aol.com
EA-0006719
WALTER A. TILLIT JR., P. E.
FLORIDA Lic. # 44167

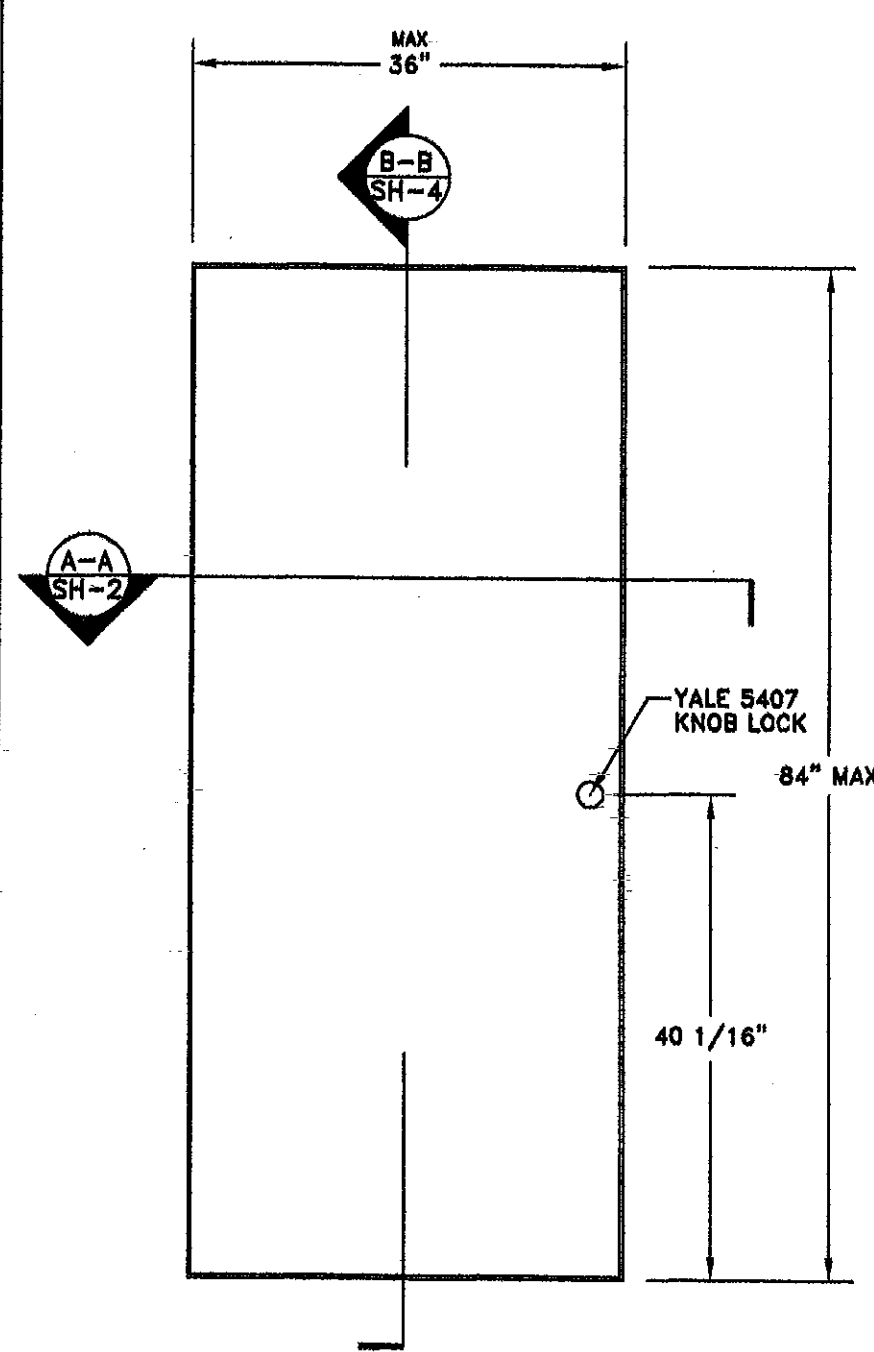
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 11-0715-03
Expiration Date OCTOBER 2012
By: Ismael I. Chant
Miami Code Product Control



ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

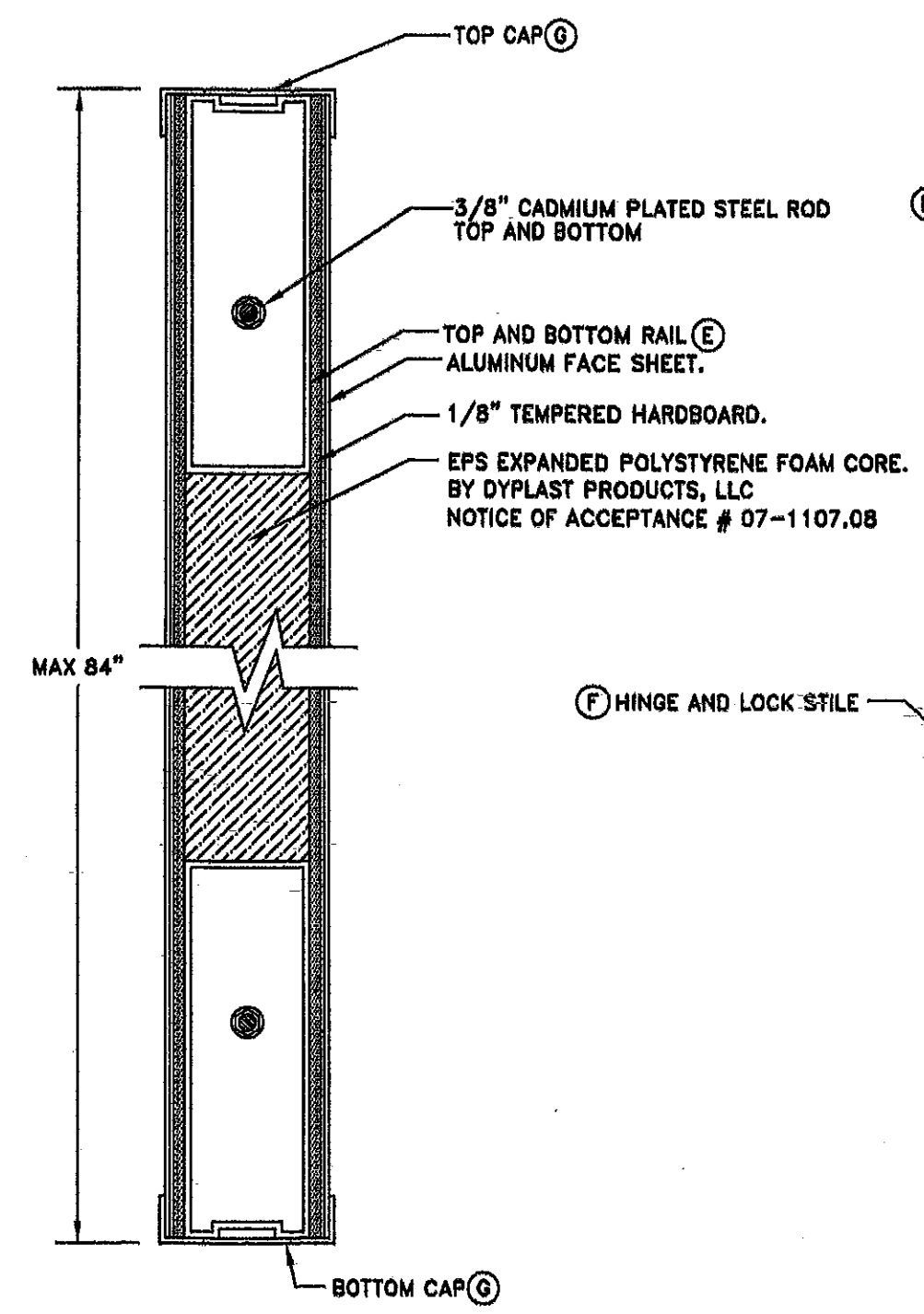
SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM
INSULATED COMMERCIAL DOOR-IMPACT WITH
0.040", 0.063", OR 0.090" ALUMINUM FACE
SHEET AND FR575 OR FR450S ALUMINUM FRAME.
REV: 09/13/11

DATE: 12/15/95 DRAWN BY: SARDA/AG
DWG No.: 11-088 SHEET No.: 3 OF 7

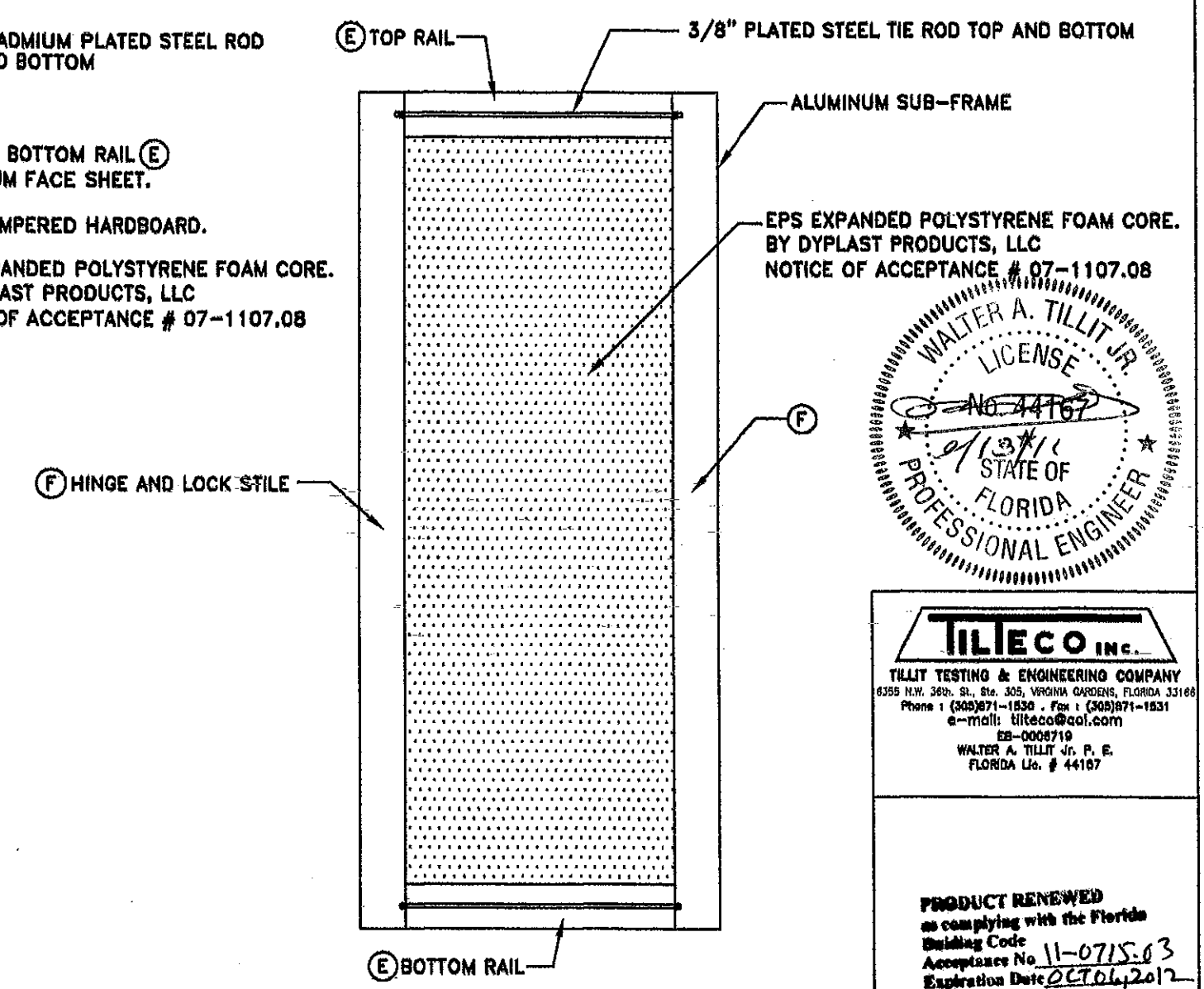


FLUSH ALUMINUM DOOR ELEVATION

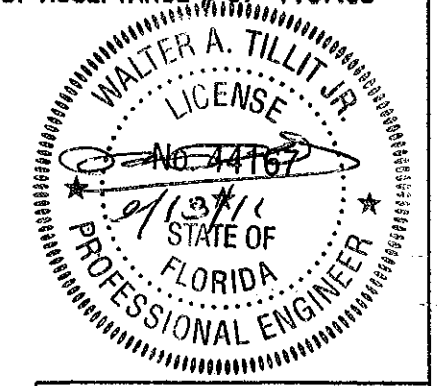
DOOR PANEL DETAILS



VERTICAL SECTION B-B

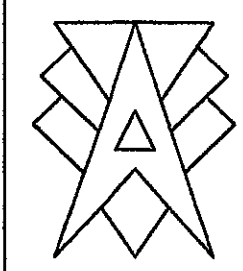


INTERNAL TUBE REINFORCING ELEVATION



TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
 Phone: (305) 871-1530 • Fax: (305) 871-1531
 e-mail: tiltco@aol.com
 EE-0008719
 WALTER A. TILLIT JR., P. E.
 FLORIDA Lic. # 44167

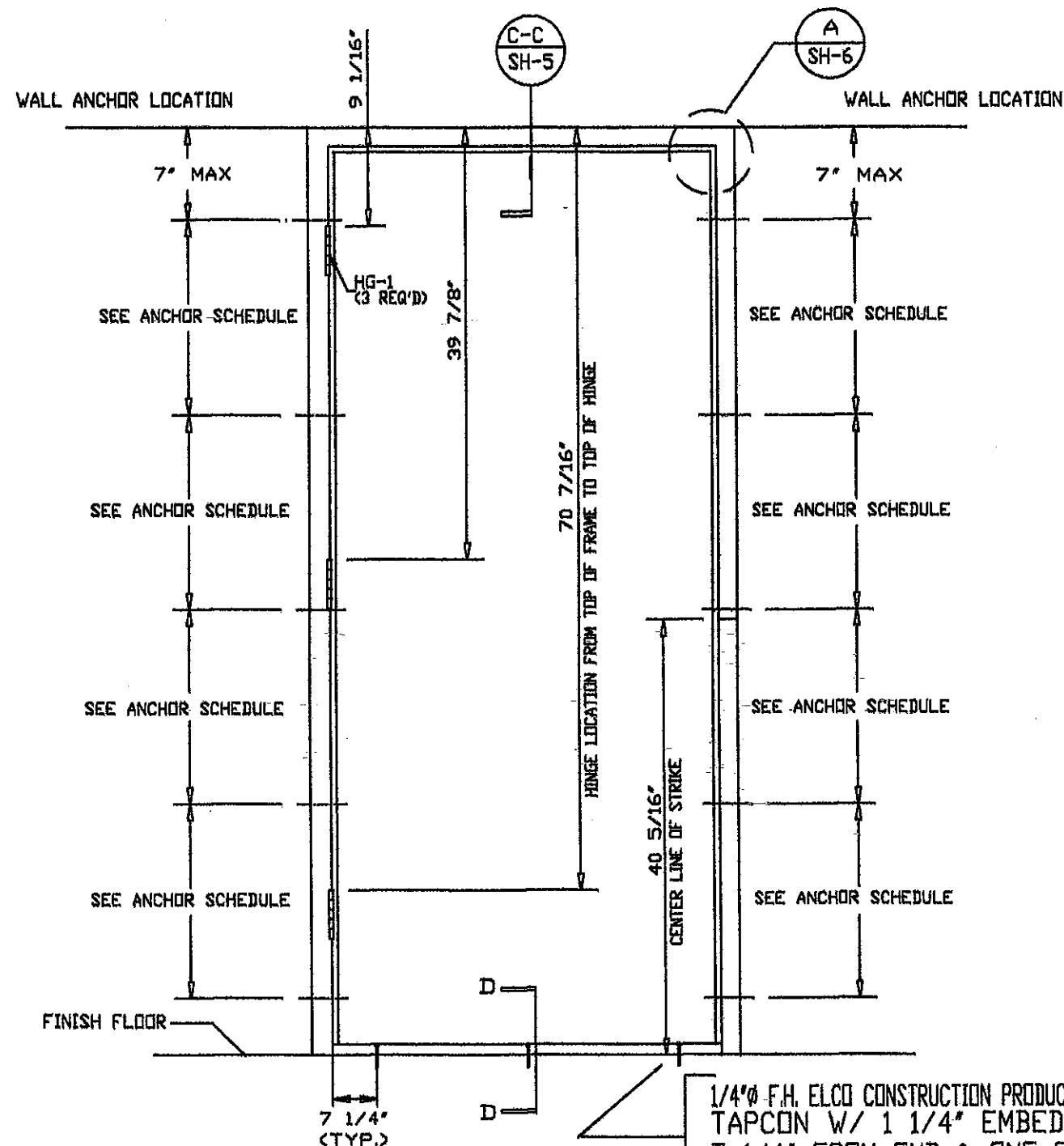
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 11-0715.03
 Expiration Date OCT 06, 2012
 By: *Walter A. Tillit Jr.*
 Miami Dade Product Control



ALUTECH CORPORATION
 8548 NW 64th STREET
 MIAMI, FL 33166
 PH: 305/593-2080
 FAX: 305/591-8481

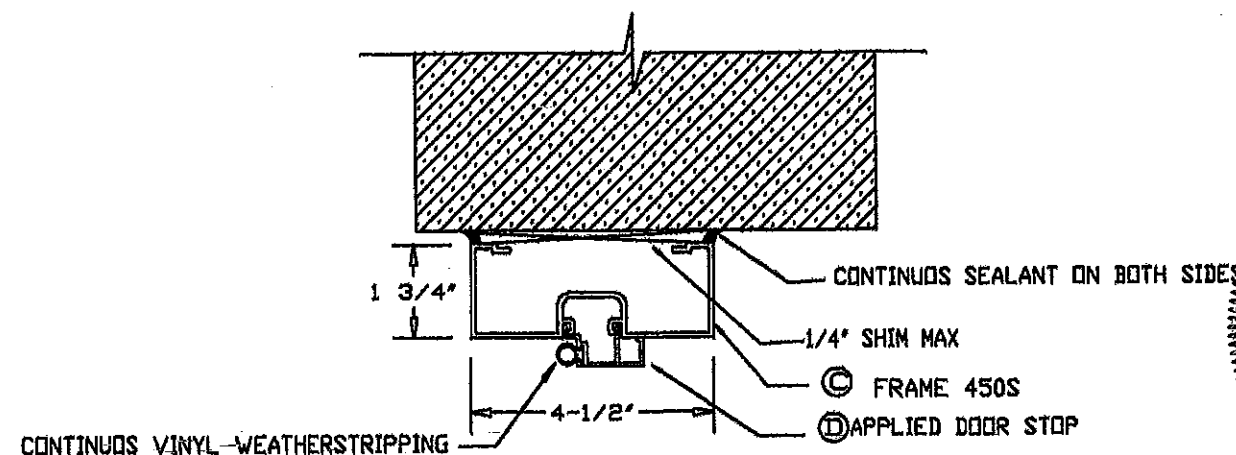
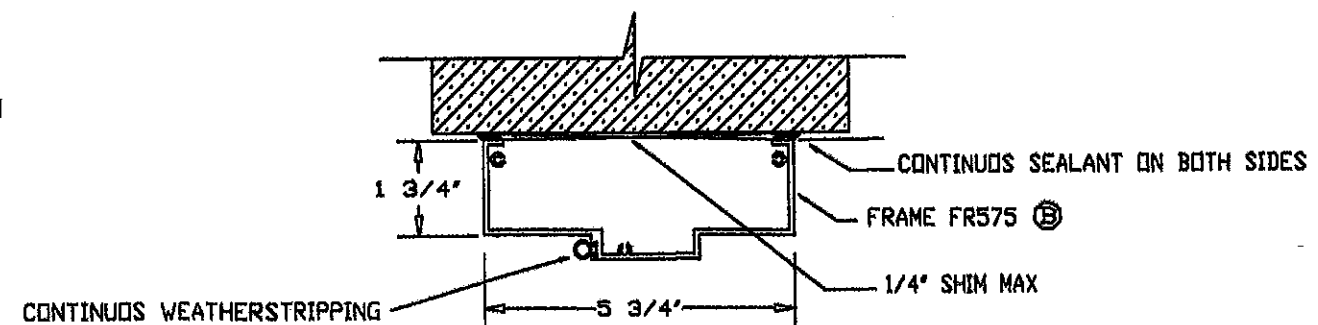
SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM
 INSULATED COMMERCIAL DOOR-IMPACT WITH
 0.040", 0.063", OR 0.090" ALUMINUM FACE
 SHEET AND FR575 OR FR450S ALUMINUM FRAME.
 REV: 09/13/11

DATE: 12/15/95	DRAWN BY: SARDA/AG
DWG No: 11-088	SHEET No: 4 OF 7

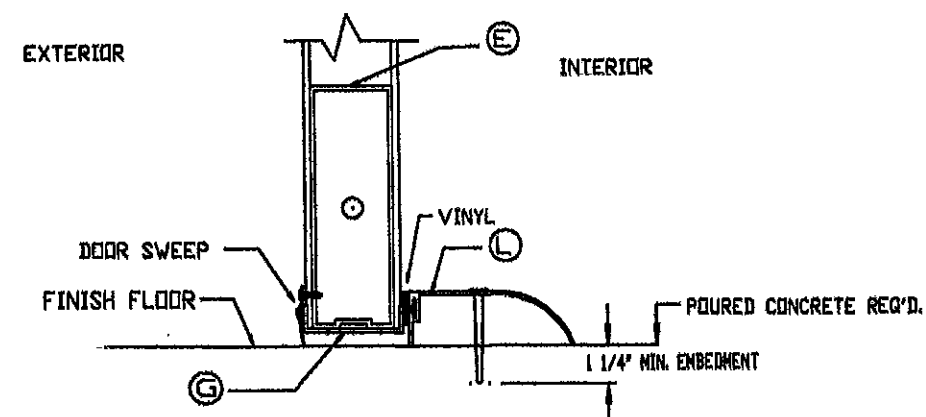


WALL ANCHOR, HINGE & STRIKE LOCATION

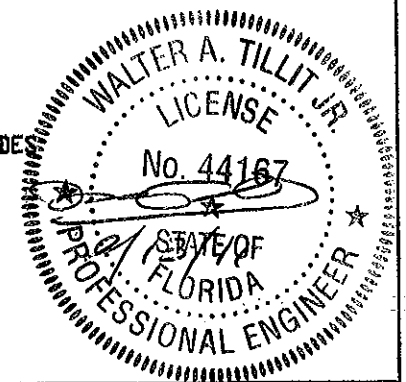
1/4" F.H. ELCO CONSTRUCTION PRODUCTS, INC.
TAPCON W/ 1 1/4" EMBEDMENT,
7-1/4" FROM END & ONE ON CENTER
THRESHOLD IS NOT ATTACHED TO FRAME



SECTIONS C-C

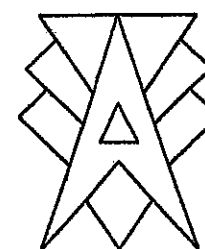


SECTION D-D: BUMPER THRESHOLD



TILECO Inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 NW 39th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone: (305) 871-1830 Fax: (305) 871-1831
e-mail: tileco@aol.com
EG-0008719
WALTER A. TILLIT JR., P. E.
FLORIDA Lic. # 44167

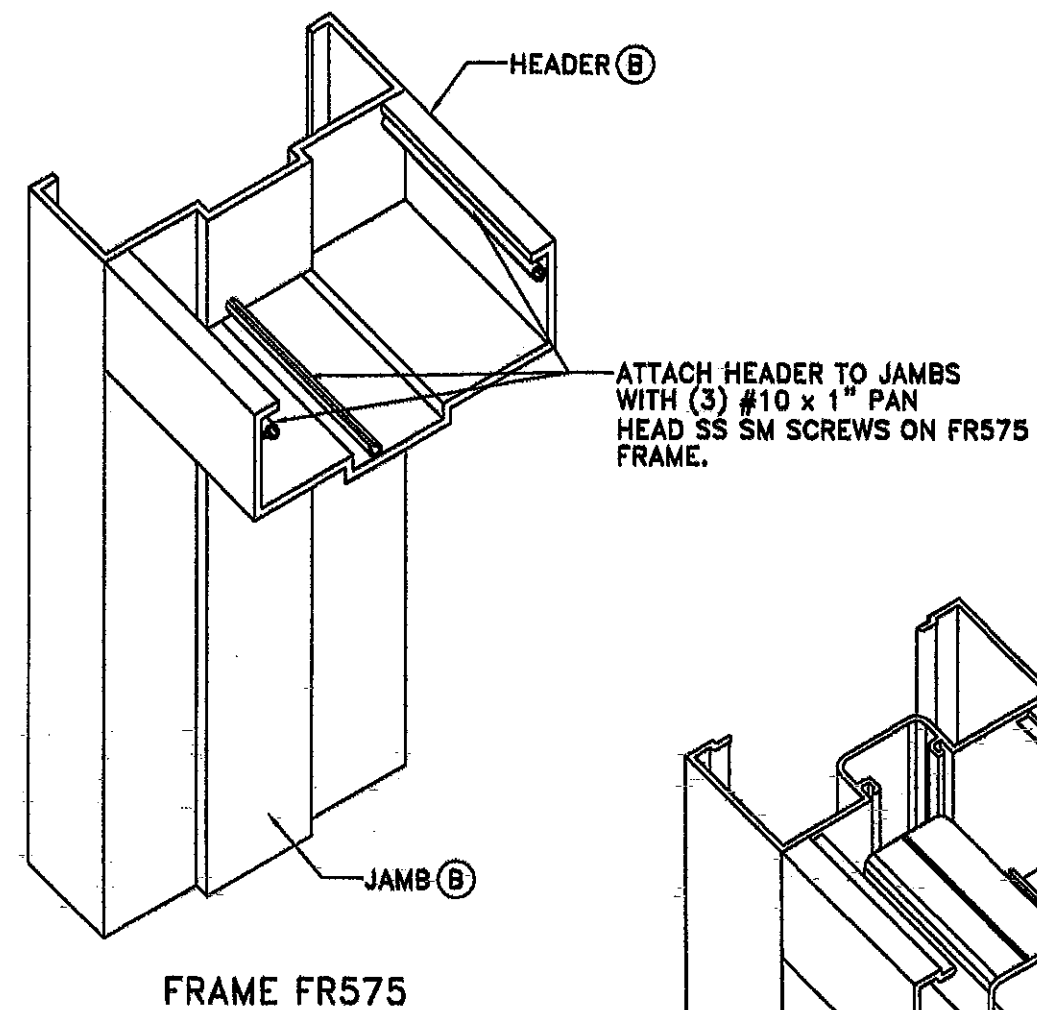
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0715.03
Expiration Date 06/04/2012
Ismael L. Chana
National Product Control



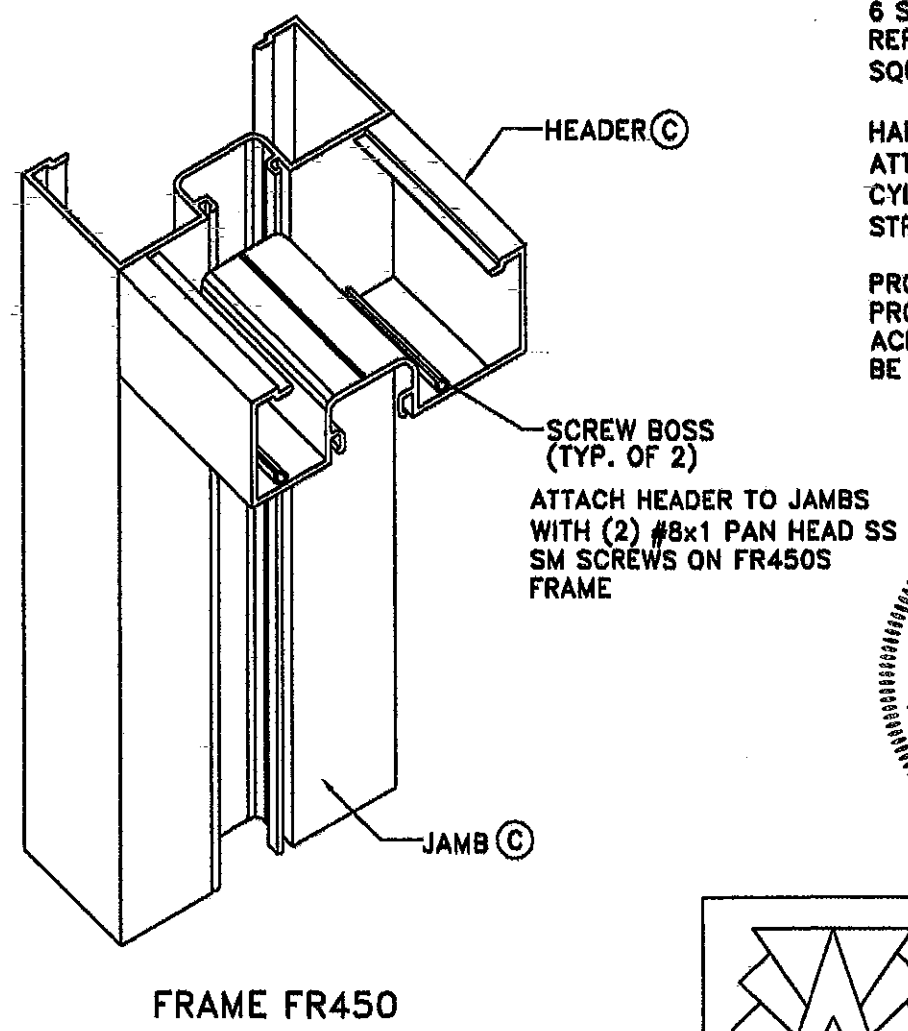
ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM
INSULATED COMMERCIAL DOOR-IMPACT WITH
0.040", 0.063", OR 0.090" ALUMINUM FACE
SHEET AND FR575 OR FR450S ALUMINUM FRAME.
REV: 09/13/11

DATE: 12/15/95	DRAWN BY: SARDA/AG
DWG No.: 11-088	SHEET No.: 5 OF 7



DETAIL 'A':
CORNER CONSTRUCTION



ALUMINUM FRAME: ALUMINUM DOOR FRAMES SHALL BE SERIES FR575 1-3/4" X 5-3/4" OPEN BACK WITH AN INTEGRAL DOOR STOP OR FR450S 1-3/4" X 4-1/2" OPEN BACK WITH A SNAP ON DOOR STOP.

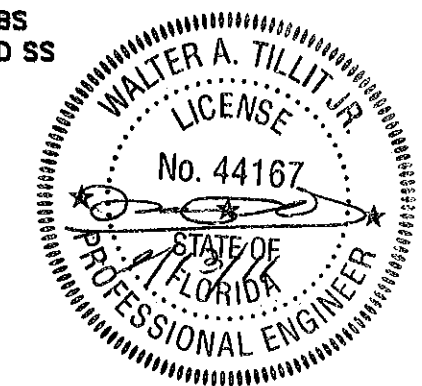
MATERIAL: FRAME MEMBERS SHALL BE MADE OF 6063-T6 EXTRUDED ALUMINUM ALLOY WITH A MINIMUM WALL THICKNESS OF 0.112" FOR THE FR575 AND 0.090" FOR THE FR450S FRAME AND A MIN. YIELD STRENGTH OF 28,750 PSI. ALL SCREWS AND MISCELLANEOUS FASTENERS SHALL BE STAINLESS STEEL, OR OTHER CORROSION RESISTANT MATERIAL. WEATHERSTRIPPING SHALL BE COMPOUND SANTOPRENE BULB.

CONSTRUCTION: FRAME SHALL BE SQUARED CUT TO PROVIDE NEAT HAIRLINE JOINTS. JAMBS AND HEADER SHALL BE FASTENED WITH STAINLESS STEEL SCREWS. ALL FRAMES SHALL BE MORTISE FOR HINGES AND LOCK STRIKE PLATES. SURFACE MOUNTED HARDWARE SHALL BE DRILLED AND TAPPED IN THE FIELD. HINGE, LOCK AND STRIKE REINFORCING PLATE SHALL BE MADE OF 1/4" ALUMINUM PLATE 6063-T6 ALLOY.

INSTALLATION: INSPECT WALL CONDITION, IF NECESSARY MAKE ANY WALL REPAIRS OR ADJUSTMENTS BEFORE INSTALLATION OF DOOR FRAME. ASSEMBLE DOOR FRAME BY ATTACHING JAMBS TO HEADER USING (3) #10x1" PAN HEAD SCREWS ON THE FR575 AND (2) #8x1 ON THE FR450S" FRAME (DO NOT FILLED JAMBS OR HEADER WITH MORTAR). ERECT FR575 HINGE JAMB TO WALL AND FR450S FRAME TO WALL WITH AS PER ANCHOR SCHEDULE ON SHEET 4 OF 6 STARTING AT 7" FROM TOP. AFTER HINGE SIDE IS INSTALLED START WITH LOCK SIDED AND REPEAT THE SAME PROCEDURE. USE SHIMS AT HINGE AND LOCK SIDE TO PROPERLY LEVELED, SQUARED AND PLUMBED FRAME IF NECESSARY (MAXIMUM SHIM SPACE TO BE 1/4").

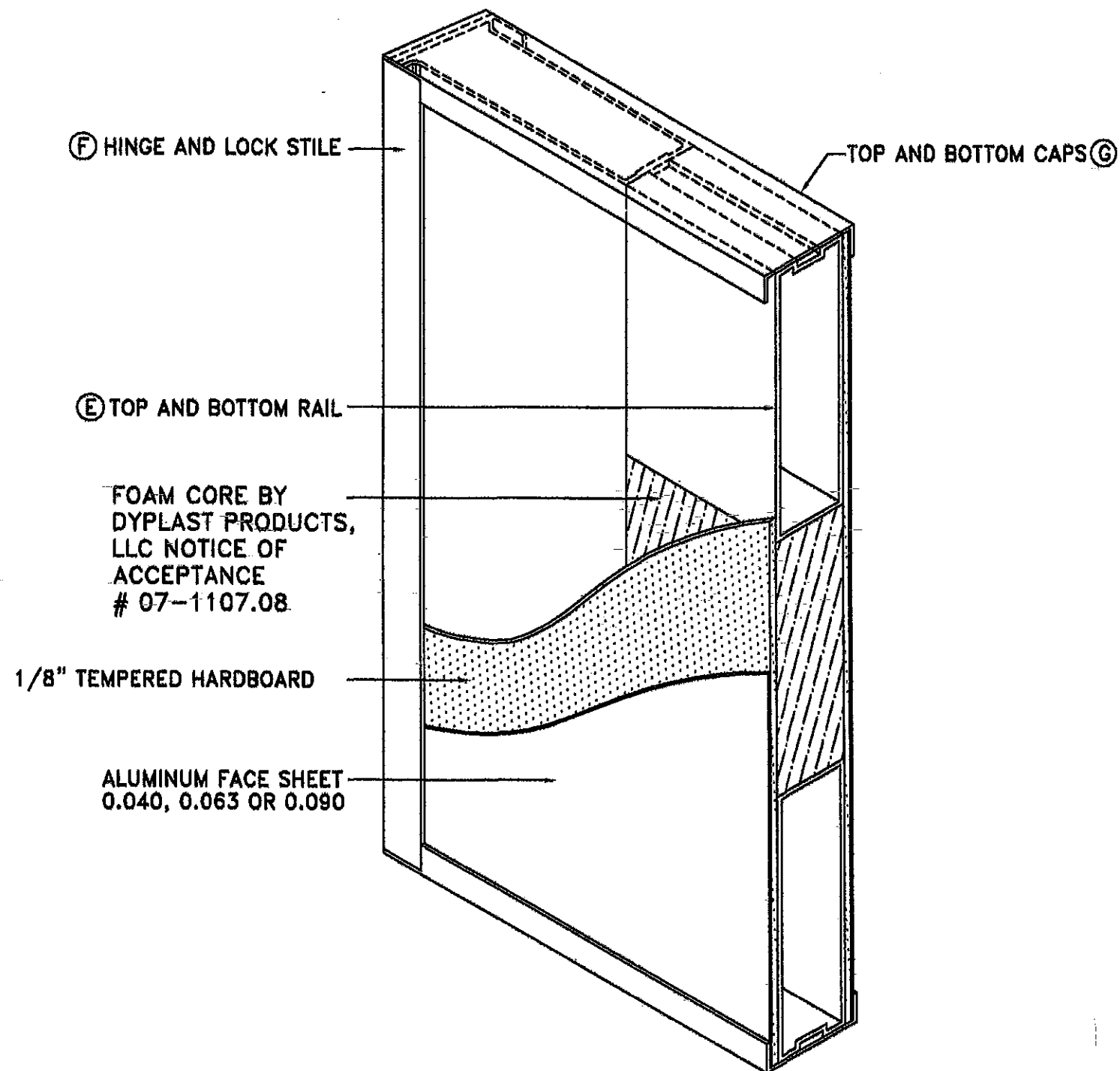
HARDWARE: EACH DOOR SHALL BE EQUIPPED WITH (3) 4 1/2" x 4 1/2" x .134" HINGE, ATTACHED TO DOOR AND FRAME WITH (4) 12-24 FLAT HEAD MACHINE SCREW, (1) YALE 5407 CYLINDRICAL LOCK 2-3/4" BACKSET AND 2-1/8" BORE WITH A 4-7/8" STAINLESS STEEL STRIKE PLATE, (1) BUMPER THRESHOLD 1" HIGH. AND (1) DOOR SWEEP #DS-10 OR EQUAL.

PROTECTION & CLEANING: AFTER ERECTION, THE GENERAL CONTRACTOR SHALL ADEQUATELY PROTECT EXPOSED PORTIONS OF ALUMINUM SURFACES FROM DAMAGE BY PLASTER, LIME, ACID, CEMENT, OR OTHER HARMFUL COMPOUNDS. AFTER INSTALLATION, ALL ALUMINUM SHALL BE CLEANED WITH SOAPY WATER OR OTHER MILD CLEANING SOLUTION.



 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tilteco@aol.com EB-0008718 WALTER A. TILLIT JR., P. E. FLORIDA Lic. # 44167	PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 11-0715.03 Expiration Date 06/06/2012 <i>Sheng L. Chung</i> Miami State Product Council
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 ALUTECH CORPORATION 8548 NW 64th STREET MIAMI, FL 33166 PH: 305/593-2080 FAX: 305/591-8481	SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM INSULATED COMMERCIAL DOOR-IMPACT WITH 0.040", 0.063", OR 0.090" ALUMINUM FACE SHEET AND FR575 OR FR450S ALUMINUM FRAME. REV: 09/13/11	
	DATE: 12/15/95 DWG No: 11-088	DRAWN BY: SARDA/AG SHEET No: 6 OF 7



FLUSH DOOR: ISOMETRIC

ALUMINUM DOOR: ALUMINUM DOOR TO BE NOMINAL 1-3/4" THICK FLUSH DESIGN, (6063-T6 ALLOY) SERIES 2001. DOOR STILES AND RAILS SHALL HAVE A STRONG, RIGID ALUMINUM SUB-FRAME WITH INTEGRAL EDGE CAPS. THE SUB-FRAME SHALL BE CONNECTED BY A 3/8" STEEL TIE ROD TOP AND BOTTOM. NO SNAP-ON OR APPLIED DOOR EDGES AT HINGE OR LOCK STILES.

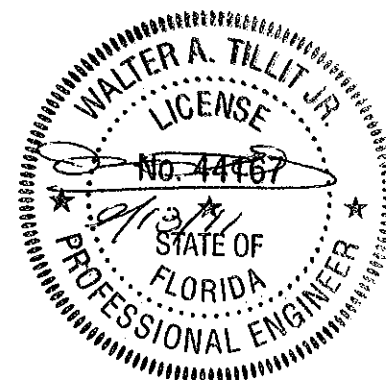
FACE SHEET: FACE SHEET SHALL BE ALU. 3003-H14/5005-H34 ALLOY WITH A MINIMUM THICKNESS OF 0.040", 0.063", OR 0.090" WITH A MINIMUM YIELD STRENGTH OF 26,450 PSI. FACE SHEETS SHALL BE CONCEALED UNDER A 1/2" EDGE CAP FULL PERIMETER.

INSULATED CORE: ALL VOIDS BETWEEN SUB-FRAMES SHALL BE FILLED WITH EPS EXPANDED POLYSTYRENE RIGID FOAM BOARD AS MANUFACTURED BY DYPLAST PRODUCTS, LLC. NOTICE OF ACCEPTANCE # 07-1107.08, WITH AN "R" VALUE OF 9. CORE SHALL BE LAMINATED BETWEEN TWO SHEETS OF 1/8" TEMPERED HARDBOARD FOR IMPACT REINFORCING.

LAMINATION: SUB-FRAME, FACE SHEETS AND INSULATED CORE SHALL BE BONDED TOGETHER WITH A MOISTURE CURE, ONE-PART ADHESIVE AS MANUFACTURED BY MORTON INTERNATIONAL OR EQUAL UNDER PRESSURE TO FORM A WATER, HEAT, AND CHEMICAL RESISTANT BOND.

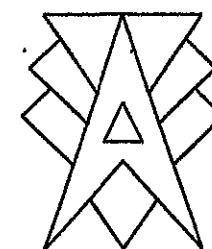
ALUMINUM SUB-FRAME FULL PERIMETER: 1-3/8" X 4-1/2" SUB-FRAME WITH AN INTEGRAL EDGE CAP AT HINGE AND LOCK EDGE, TOP AND BOTTOM OF DOOR SHALL BE CAPPED TO INSURE PROPER PROTECTION FROM THE ELEMENTS. MINIMUM WALL THICKNESS AT HINGE AND LOCK EDGE SHALL BE 0.125" AND BEVEL 1/8" IN 2". STILE AND RAILS SHALL BE CONNECTED WITH A 3/8" PLATED STEEL TIE ROD TOP AND BOTTOM. OVERALL DOOR TOLERANCE SHALL BE PLUS OR MINUS 1/16". EXTRUSION TOLERANCES SHALL BE AS SET BY THE AMERICAN ALUMINUM MANUFACTURE'S ASSOCIATION.

HARDWARE REINFORCING: HINGE REINFORCING PLATES SHALL BE OF 1/4" X 1" X 7" LONG ALUMINUM PLATE 6063-T6 MOUNTED TO DOOR STILE WITH (4) 12-24 MACHINE SCREWS, LOCK REINFORCING PLATES SHALL BE 1/4" X 1" X 1 1/2" LONG ALUMINUM PLATE 6063-T6 MOUNTED TO DOOR STILE WITH (1) 10-24 MACHINE SCREW.



TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6365 N.W. 38th St., Rm. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone: (305)871-1930, Fax: (305)871-1931
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT JR., P. E.
FLORIDA Lic. # 44187

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0715.03
Expiration Date 06/06/2012
By: [Signature]
National Trade Product Council



ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM
INSULATED COMMERCIAL DOOR-IMPACT WITH
0.040", 0.063", OR 0.090" ALUMINUM FACE
SHEET AND FR575 OR FR450S ALUMINUM FRAME.
REV: 09/13/11

DATE: 12/15/95	DRAWN BY: SARDA/AG
DWG No.: 11-088	SHEET No.: 7 OF 7



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

www.miamidac.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Ingersoll-Rand
6810 Hillsdale Court
Indianapolis, IN 46250

FOR Panic Exit Devices components (only)

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: IR Series Double Flush Outswing Commercial Steel Doors w / wo Panic Exit Devices

APPROVAL DOCUMENT: Drawing No "IRF-D07", titled "Flush Outswing Double Doors", sheets 1 through 10 of 10, prepared by the manufacturer, dated 05-27-07 and last revised on 02/06/09, signed and sealed by Thomas Gordon, P.E., 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 Missile Impact Resistant

Limitation:

1. See Design pressure & Water infiltration limitation sheet 2 of the drawings
2. Electrical/Electronic function is not part of this approval, such functions to be reviewed and approved by AHJ.

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 revises NOA # 02-0712.01, 02-0712.03, 03-0908.03 and 04-0203.03 consists of this page 1 and evidence pages E1, E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

3/4/9
MIAMI-DADE COUNTY
APPROVED

NOA No 07-0829.03
Expiration Date: May 05, 2010
Approval Date: March 25, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings.
2. Drawing No "IRF-D07", titled "Flush Outswing Double Doors", sheets 1 through 10 of 10, prepared by the manufacturer, dated 05-27-07 and last revised on 02/06/09, signed and sealed by Thomas Gordon, P.E.

B. TESTS (Photo copies from files # listed below), some of the original test reports conducted per SFBC 201, 202 & 203-94, now termed as FBC, TAS 201, 202 & 203-94).

1. Test report on
 - 1) Air Infiltration Test, per TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 3) Large Missile Impact Test per FBC, TAS 201-94
 - 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 5) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by Certified Testing Lab, Test Reports No(s). CTLA-776W dated February 20, 2002, CTLA-776W1 dated April 25, 2002, CTLA-776W-2, 3 dated April 20, 2002, CTLA-1035W-2 dated Feb. 11, 2003, CTLA-1086-W dated Nov. 17, 2003, all signed and sealed by Ramesh Patel, P.E.

2. Test report on
 - 1) Air Infiltration Test, per TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 3) Large Missile Impact Test per FBC, TAS 201-94
 - 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 5) Forced Entry Test, per TAS 202-94

Along with manufacturer's parts and section drawings of Flush outswing double steel doors, marked by Certified Testing Lab, Test Reports No(s). NCTL-210-3357-1 dated Dec 28, 2006, signed and sealed by Gerard J. Ferrara, P.E.

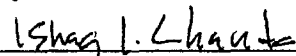
3. Additional test reports
 - 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94.
 - 2) Water Resistance Test per FBC TAS 202-94

Along with marked-up drawings and installation diagram of double steel commercial doors, prepared by National Certified Testing Laboratories Inc., Test Report No. NCTL-210-3044-1, dated August 31, 2004, NCTL- 210-3549-1, dated August 26, 2008 and NCTL- 210-3511-1 dated 04/09/08, all signed and sealed by Gerard J. Ferrara, P. E.

Note: Test report No(s): NCTL210-3549-1 and NCTL-210=3511-1 have been revised by an addendum letter, issued by Lab, dated Feb. 04, 2009, signed & sealed by Gerard J. Ferrara, P. E.

C. CALCULATIONS:

1. Anchor verification, dated 12/18/2007 and last revised on 06/18/2008, prepared, signed & sealed by Thomas Gordon., P.E.
2. Statement of compliance & anchor verification evaluation report, dated 04-23-2007 and last revised on 06/18/2008, prepared, signed & sealed by Thomas Gordon., P.E.



Ishaq I Chanda, P.E.

Product Control Examiner

NOA No 07-0829.04

Expiration Date: May 05, 2010

Approval Date: March 25, 2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE BY;

1. Miami-Dade County Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS (Photo copies from files # listed below)

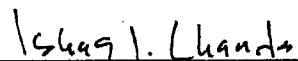
1. Tensile test report # CTLA-776W (0194H), dtd 02/25/02 prepared by CTL Architectural Division, sheet samples, tested per ASTM E8, signed & sealed by Ramesh Patel, P.E.
2. Tensile Test report No. A103W1-Test 1, 2 & 3 dated 23 APR 03 per ASTM E-8 for steel face sheet, prepared by Certified Testing laboratory, signed and sealed by Ramesh Patel, P.E.
3. Test Report No. **03NK2370/R145081**, January 21, 2003, issued by Underwriters laboratories Inc for "Surface Burning Characteristics of Building material" per ASTM E84-00a and self Ignition per ASTM 1929D for "Elfoam H200", issued to Elliott Co. of Indianapolis Inc.
4. Tensile Test report No. A103W1-Test 1, 2 & 3 dated 23 APR 03 per ASTM E-8 for steel face sheet, prepared by Certified Testing laboratory, signed and sealed by Ramesh Patel, P.E.
5. Test Report No. **NER-384**, reissued dated May 01, 1994, issued by National Evaluation Service Inc to Huntsman Chemical Corporation for "Expanded Polystyrene EPS" for grade 86 & grade 54 for "Surface Burning Characteristics of Building material" per ASTM E 84.
6. Test Report No. **9691**, dated August 28, 1987, 1994, issued by United Testing Company Inc. to Huntsman Chemical Corporation for "Expanded Polystyrene EPS" for grade 86 & 54 for "Self Ignition Temperature Test" per ASTM D-1929.

F. STATEMENTS

1. Letter of conformance to FBC 2007 & "No financial interest" dated Jan 28, 2009, signed and sealed by Gordon Thomas, P.E.
2. Laboratory Statement of compliance, part of the above referenced test reports

G. OTHER

1. This NOA **consolidates** NOA #(s) 02-0712.01, 02-0712.03, 03-0908.03 and 04-0203.03, latest expiring May 05, 2010.
2. Consolidation Test proposal # **06-2468**, dated 04/27/07 approved by BCCO.
3. IR Locks & Panic devices brochures / catalogs supplied by manufacturer.



Ishaq I Chanda, P.E.

Product Control Examiner

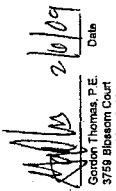
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Expiration Date: May 05, 2010

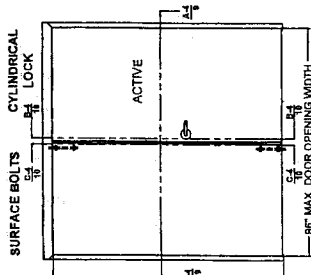
Approval Date: March 25, 2009

REVISIONS

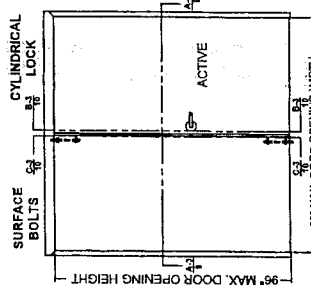
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B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YHF 01/15/08	
E	REVISED DWG	YHF 02/28/08	
F	REVISED DWG	YHF 05/30/08	
G	REVISED PER_M0BC00	YHF 02/06/09	



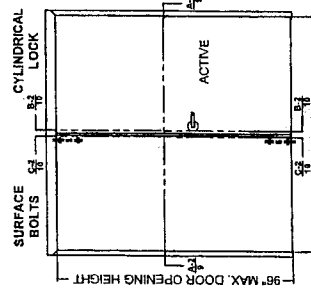
 Gary Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 45718



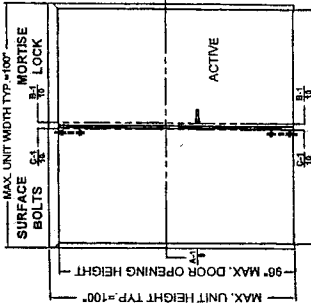
DESIGN PRESSURE RATING, PSF	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED
1	±75	±75
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



DESIGN PRESSURE RATING, PSF	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED
2	±55	±55
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



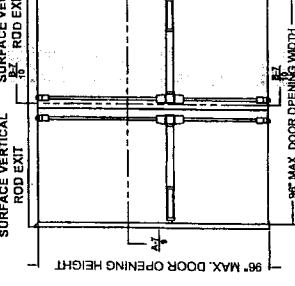
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SEE TABLE 3	SEE TABLE 4	ON SHT. 5



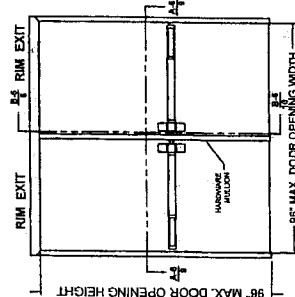
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SEE TABLE 3	SEE TABLE 4	ON SHT. 5



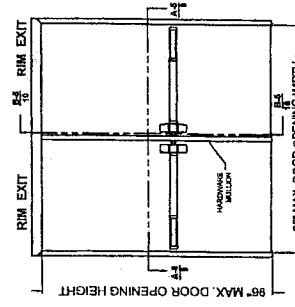
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5	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



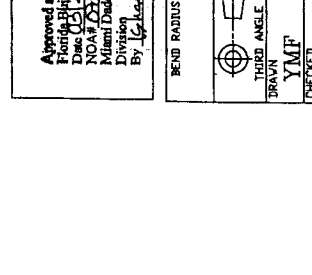
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6	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



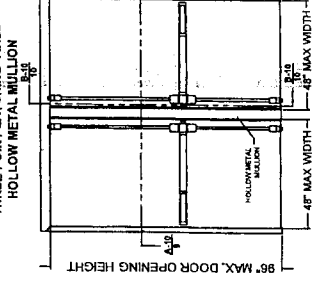
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7	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



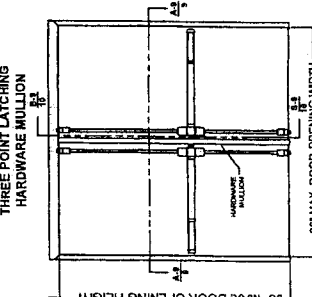
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8	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



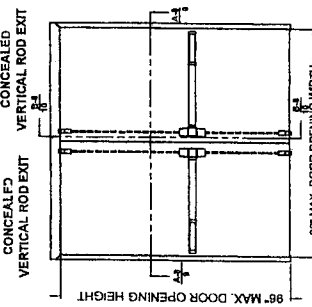
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9	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



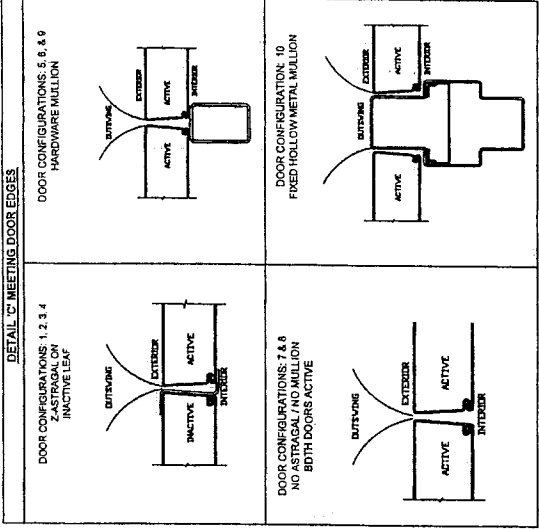
DESIGN PRESSURE RATING, PSF	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED
10	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



DESIGN PRESSURE RATING, PSF	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED
11	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



DESIGN PRESSURE RATING, PSF	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED	WHERE WATER INFLTRATION REQUIREMENT IS NOT NEEDED
12	±70	±70
SEE TABLE 3	SEE TABLE 4	ON SHT. 5



Approved as complying with the
 Florida Building Code
 Date 03/25/2009
 NOA# 03-0829, 03
 Miami Dade Product Control
 Division
 By [Signature]

- NOTES:
1. INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS
 2. SEE TABLE 1 ON SHEET 2 FOR HARDWARE APPLICATIONS
 3. SEE SHEET 3 FOR HINGE REQUIREMENTS
 4. SEE SHEET 4 FOR ANCHORING TYPES AND LIMITATIONS
 5. SEE SHEET 5 FOR WEATHERSTRIPPING INSTALLATION AND DETAILS



Ingersoll Rand
Security Technologies

TITLE: MIAMI-DADE PRODUCT APPROVAL

INGERSOLL RAND
FLUSH OUTSWING, DOUBLE DOORS AND HARDWARE CONFIGURATIONS.

DATE: 06/06/07

THREE ANGLE PROJECTION

YMF

CHECKED

APPROVED

ENG. APPVL

JPD

SCALE: NTS

AUTOCAD

SHEET 1 OF 10

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YMF 01/16/08	
E	REVISED DWG	YMF 02/28/08	
F	REVISED DWG	YMF 05/30/08	
G	REVISED PER-MIDECO	YMF 02/06/09	



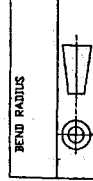
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 48718
 Date 8/16/09

Approved as complying with the
 Florida Building Code
 Date 03/25/2009
 NOAH 03-2827-03
 Miami Dade Product Control
 Division
 By 191eq 11/24/06

TABLE 1.

Door Configuration	Maximum Design Pressure, PSF		Maximum Door Opening Size, In.		Locking Hardware Description			Comments
	Positive	Negative	Width	Height	Hardware Family	Model/Series	Strike Models	
1	75	75	96	96	Mortise Lock	L/LV9400 M	10-072 ANSI	IR Brand Schlage Falcon functions with deadbolt
2	55	55	96	96	Cylindrical Lock	AL	10-025	Locknetics/Schlage Schlage 1/2" throw latch
3	65	65	96	96	Cylindrical Lock	DND	10-025	Schlage 1/2" throw latch
4	75	75	96	96	Cylindrical Lock	DND T	10-025 ANSI	Schlage 3/4" throw latch Falcon 3/4" throw latch
5	90 SEE NOTE 4.	90 SEE NOTE 4.	96	96	Rim Exit Device	XP 98/99(F)	909/954	Locknetics/Schlage Von Duprin for pairs use (KR)9854 mullion by Von Duprin
6	70	70	96	96	Rim Exit Device	98/99(F) 88-F (F)DL-18-R	299F/499F 268 F570	Von Duprin for pairs use (KR)9854 mullion by Von Duprin Monarch
7	70	70	96	96	Surface Vertical Rod Exit Device	98/9927(F) (F)18-V	299F/499F Top, 304L/248L4 Bottom 3788 Top, 2130 Bottom	Von Duprin Monarch
8	70	70	96	96	Concealed Vertical Rod Exit Device	98/9947-F F-18-C	338 Top, 385A Bottom 4188 Top, 2130 Bottom	Von Duprin Monarch
9	70	70	96	96	Three-Point Latching Device	98/9957(F)	299F/499F Top/Middle, 304L/248L4 Bottom	Von Duprin for pairs use (KR)9854 mullion by Von Duprin
10	70	70	48	96		98/9957(F)	299F/499F Top/Middle, 304L/248L4 Bottom	Von Duprin See note #2

BEND RADIUS



- NOTES:
- FOR DOOR CONFIGURATIONS 1, 2, 3, & 4, INACTIVE LEAF REQUIRES IVES SB360 SURFACE BOLTS IN TOP AND BOTTOM
 - DOOR CONFIGURATION 10 IS USING FIXED HOLLOW METAL MULLION BETWEEN TWO DOORS
 - SEE SHEETS 7 & 8 FOR LOCKING HARDWARE AND HARDWARE MULLION DETAILS
 - DOOR CONFIGURATION 5 IS RATED FOR MAXIMUM DESIGN PRESSURE ±90 PSF WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED, WHEN WATER INFILTRATION REQUIREMENT IS NEEDED, IT IS RATED AT ±75 PSF WHEN USED WITH SEALS BY ZERO INTERNATIONAL AND NATIONAL GUARD PRODUCTS (NGP) (SEE TABLE 3 ON SHT.5)
 - SCHLAGE AL-SERIES CYLINDRICAL LOCK IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE

 Ingersoll Rand Security Technologies		TITLE: MID-DECK PRODUCT APPROVAL FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS IR COMMERCIAL DOOR OPENING DOUBLE FLUSH DOORS.	
THIRD ANGLE PROJECTION DATE: 06/20/07 YMF CHECKED	SIZE: 1/4" x 1/4" x 1/4" FLAT	SCALE: NTS AUTOCAD	REV: G SHEET: 2 of 10

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
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B	REVISED DWGS.	RAP	10/12/07
C	REVISED DWGS.	RAP	12/03/07
D	REVISED DWGS.	YHF	01/16/08
E	REVISED DWGS.	YHF	02/28/08
F	REVISED DWGS.	YHF	05/30/08
G	REVISED PER MDRCCO	YHF	02/06/09

Approved as complying with the
Florida Building Code
Date 05/20/07
NOA# 03-10079
Miami-Dade Product Control
Division
By: [Signature]
Date: 05/20/07

05/20/07
[Signature]
Date
05/20/07
Miami-Dade Product Control
Division
By: [Signature]
Date: 05/20/07

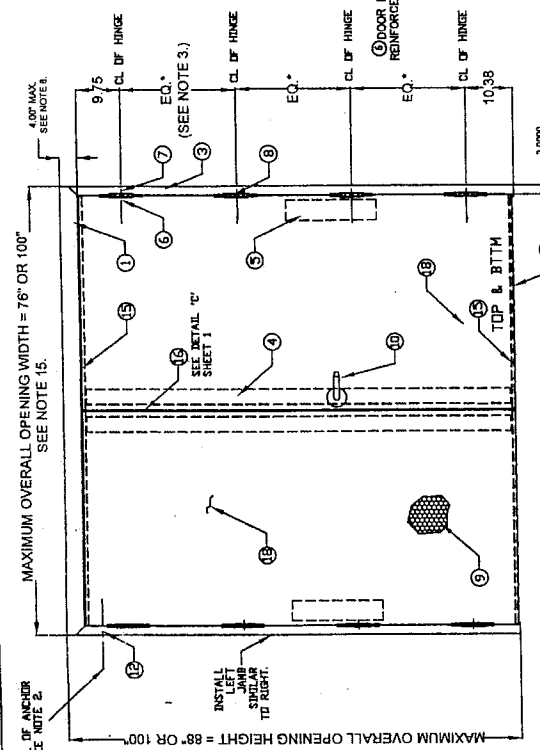
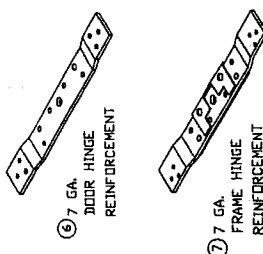
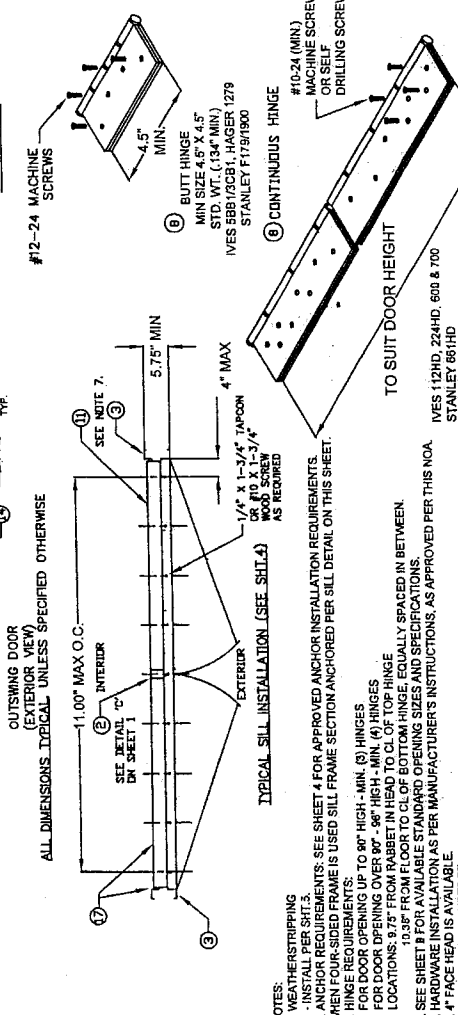
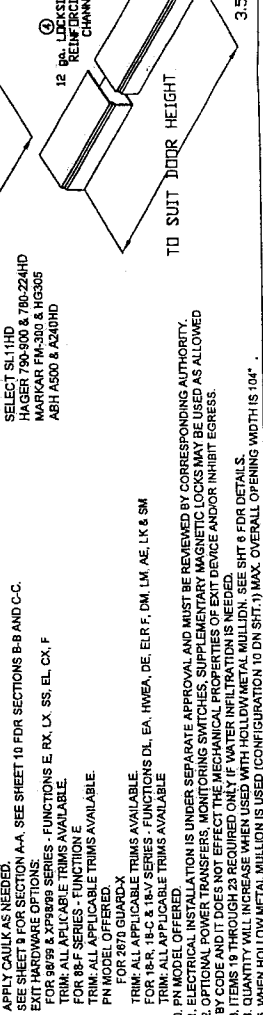


TABLE 2

QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	HEAD SEE SHIT 6 ASTH A366	0537' MIN. STL	MAX. 100'
2	VON DUREIN (CRD. 9924 HIVE MULLION USED V/RIN PDVGE	1237' AS500 STL	MAX. 96' HEIGHT.
3	HINGE JAMB SEE SHIT 6 ASTH A366	0537' MIN. STL	MAX. 100' HEIGHT.
4	LOCK SIDE REINFORCEMENT CHANNEL	0537' MIN. STL	3.5 X 93.44 MAX
5	HINGE SIDE PANE REINFORCEMENT	0637' MIN. STL	MAX. 20'
6	HINGE REINFORCEMENT FRAME ASTH A621	1637' MIN. STL	128" X 919"
7	HINGE REINFORCEMENT FRAME ASTH A621	1637' MIN. STL	13" X 9187" MAX.
8	4.5" X 4.5" BUTT HINGES (SEE SHIT 3)	134 MIN	(CB) #12-24 MS PER HINGE
9	OPTIONAL CONTINUOUS HINGE (SEE SHIT 3)	0637' MIN. STL/ALU	MAX. 95'
10	DOOR MATERIAL (SHT 4) 1/2" POLYURETHANE/POLYISOCYANURATE C/P3 POLYSTYRENE	DOOR MIN. STL	BOARD TEMPERATURE RISE CODE
11	THRESHOLD SILL V/BUMPER GASKET (SEE TAB. 38.4 ON SHIT.5)	100" ALUM. 6063 T5	5.50"X0.5"X96"MAX.
12	1) ZERO 566A	2) NAT'L GUARD 950A	
13	JAMB ANCHOR ASTH A924	SEE SHEET 6	
14	POST74 WEATHER STRIPPING	TPE	MAX. 24'
15	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.65'
16	END CHANNEL ASTH A924 (1/4 GA - INVERTED)		69" X 1.65" X 47.65" MAX.
17	SPLIT ASTRAGAL SET OR Z-ASTRAGAL (NOT REQ'D WITH HOLLOW METAL MULLION)	SEE SHEET 5	
18	BUTYL RUBBER OR 100% SILICONE	SEE SHEET 6	4' X 8" MAX.
19	DOOR SLAB CIG OR 14 GND DOOR SEAL No.8144FS BY ZERO INT'L	TPE	MAX. 24'
20	BY ZERO INT'L DOOR SEAL No.5080	TPE	MAX. 96'
21	BY ZERO INT'L DOOR SWEEP No.5399	SEE SHEET 5	MAX. 48'
22	BY ZERO INT'L DOOR SWEEP No.2020N	TPE	MAX. 48'
23	BY ZERO INT'L DOOR SWEEP No.1399	SEE SHEET 5	MAX. 48'
24	BY ZERO INT'L ADJUSTABLE STOP No.475	TPE	MAX. 48'
25	BY ZERO INT'L ADJUSTABLE STOP No.170N	SEE SHEET 5	MAX. 48'
26	BY ZERO INT'L RAIN DRIP NO.11	DOOR MIN. STL	0.5' X 1.76" X 48" MAX.
27	BY ZERO INT'L DRIP CAP NO.16A		
28	TOP CAP GALV. A60 ASTH A924		
29	IVES 360 12" SURFACE BUILT		
30	ASA STRIKE		
31	Z-ASTRAGAL	0637' MIN. STL	MAX. 955
32	HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBIT)	SEE SHEET 6	MAX. 96'

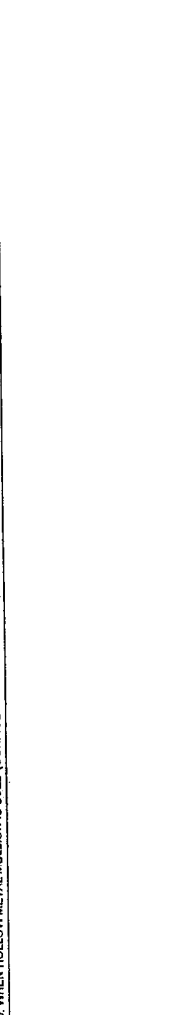


R E V I S I O N S			
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G	REVISED PER MDRCCO	YHF	02/06/09

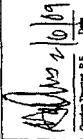


INGERSOLL RAND
Security Technologies
TITLE MIAMI-DADE PRODUCT APPROVAL
H-SERIES FLUSH DOUBLE DOORS
OUTSWING CONFIGURATIONS
IR HARDWARE

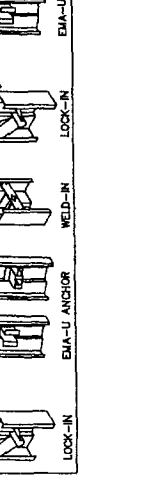
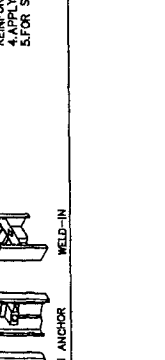
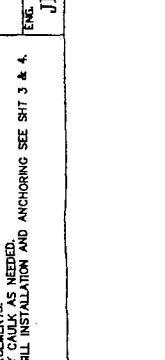
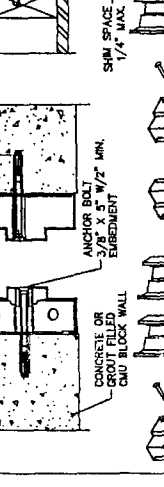
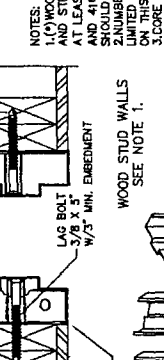
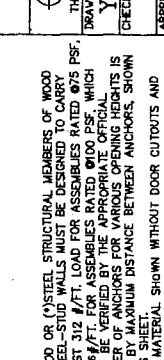
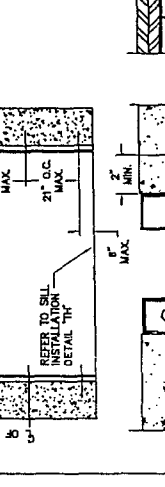
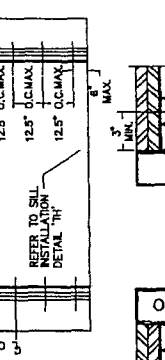
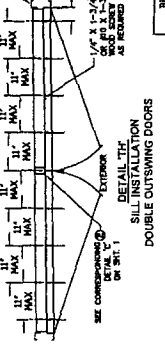
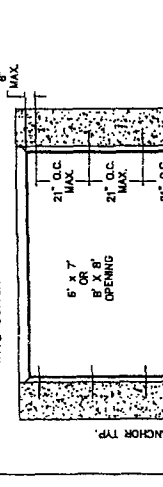
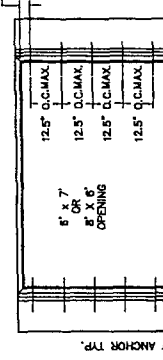
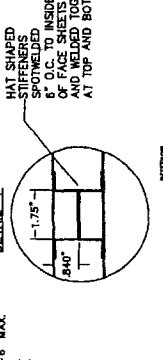
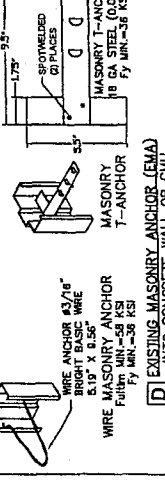
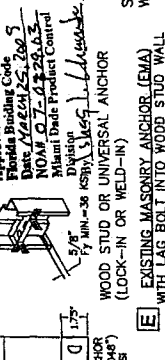
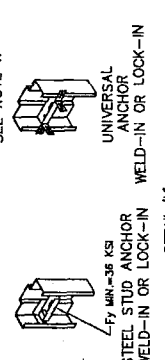
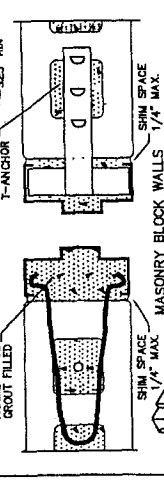
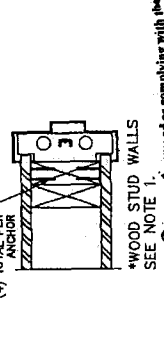
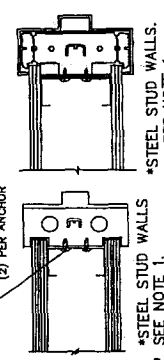
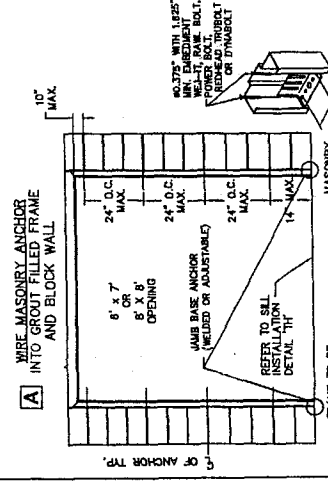
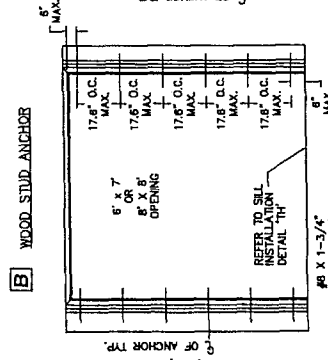
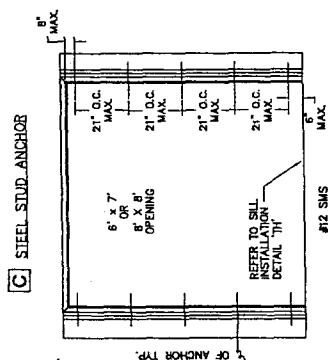
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E	REVISED DWGS.	YHF	02/28/08
F	REVISED DWGS.	YHF	05/30/08
G	REVISED PER MDRCCO	YHF	02/06/09



REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/13/07	
D	REVISED DWG	YMF 10/17/08	
F	REVISED DWG	YMF 05/30/08	
G	REVISED PER_HDBCCD	YMF 02/06/09	



 YMF 10/17/08



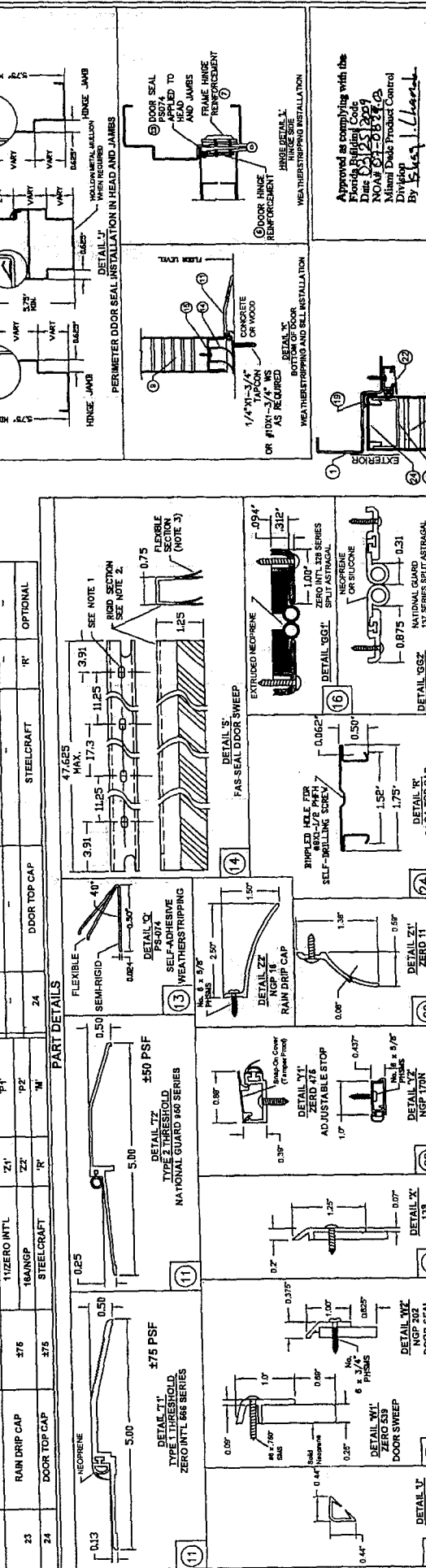
NOTES:
 1. WOOD OR (STEEL) STRUCTURAL MEMBERS OF WOOD AND STEEL STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 LBS/FT. LOAD FOR ASSEMBLES RATED 075 PSF, AND 418 LBS/FT. FOR ASSEMBLES RATED 090 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
 2. NUMBER OF ANCHORS FOR APPROPRIATE OPENING HEIGHTS IS SHOWN ON THIS SHEET.
 3. MINIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 4. APPLY CAULK AS NEEDED.
 5. FOR SILL INSTALLATION AND ANCHORING SEE SHIT 3 & 4.

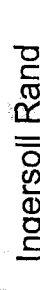
Approved as complying with the Florida Building Code
 Date: 05/20/07
 YMF
 Division: Miami-Dade Product Control
 Title: MIAMI-DADE PRODUCT APPROVAL
 Ingersoll Rand Security Technologies
 Anchor Details / Installation Conditions
 CURE OPTIONS
 Size: 1/4\"/>

SHEET 4 OF 10
 NTS AUTOCAD
 IRFD07
 REV G


Gordon Thurns, P. E.
3750 Blossom Court
Newport, OH 45040
Florida # 48778

TABLE 3. PERIMETER SEAL HARDWARE WHEN WATER INFILTRATION REQUIREMENT DOES APPLY						TABLE 4. PERIMETER SEAL HARDWARE WHEN WATER INFILTRATION REQUIREMENT DOES NOT APPLY				
ITEM NUMBER SHT. 3, TABLE 2	DESCRIPTION	ALLOWABLE DESIGN PRESSURE, PSF	MODEL NO./ MANUFACTURER	PART DETAIL	INSTALLATION DETAIL	ITEM NUMBER SHT. 3 TABLE 2	DESCRIPTION	MODEL No. MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
11	THRESHOLD	275	568ZERO INT'L APRACORP	T1'	P1'	11	THRESHOLD	568 BY ZERO INT'L 950 BY NATIONAL GUARD	T1' T2'	K'

[illegible]

 Ingersoll Rand Security Technologies TITLE: MANT-DARE PRODUCT APPROVAL		WHEN WATER INFILTRATION REQUIREMENTS APPLY 4. FAS-SEAL DOOR SWEEP (1%) AND THRESHOLD (11) ARE REQUIRED FOR ALL INSTALLATIONS.		DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE.		REV G	
BEAD RADIUS 		THIRD ANGLE PROJECTION DATE: 08/09/97 BY: YMF CHECKED: 08/09/97 APPROVED: 08/09/97		SIZE: 1/4" X 1/4" X 1/4" X 1/4" SCALE: 1/4" = 1" IRFD07		SHEET 5 of 10	
FLOOR LEVEL							

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YMF 01/23/08	
E	REVISED DWG	YMF 04/09/08	
F	REVISED DWG	YMF 06/02/08	
G	REVISED PER MDDCCO	YMF 02/06/09	

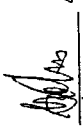

 Date: 6/16/09
 Gordon Thomas, P.E.
 3759 Blossum Court
 Mason, OH 45040
 Florida # 48718

TABLE 5. AVAILABLE DOOR CONFIGURATIONS

CORE MATERIAL PER SHT. 4	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK.
HONEYCOMB POLYSTYRENE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	VARIES SEE SHEET 2 TABLE 1		CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	VARIES SEE SHEET 2 TABLE 1		STAINLESS STEEL	16/.053"

MINIMUM YIELD STRENGTH = 30,100 PSI
 MINIMUM TENSILE STRENGTH = 44,700 PSI

TABLE 6. AVAILABLE FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK.
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
MU	5.75" MIN.	8'0"	8'0"	STAINLESS STEEL	16/.053"
				CRS/HRS GALV	16/.053" 14/.067"

NOTES:
 1. DOOR CONSTRUCTION
 1.1. MINIMUM DOOR THICKNESS - 1 3/4"
 1.2. MAXIMUM DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
 1.3. PEEP-HOLES AND DOOR VIEWERS ARE ALLOWED
 2. FRAME CONSTRUCTION
 1.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
 2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE 6)
 3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7.
 4. HOLLOW METAL MULLION (ITEM 28 PER TAB. 2, SHT. 3) TO BE USED WITH 3-POINT LATCH IN DOOR CONFIGURATION #10

TABLE 7.

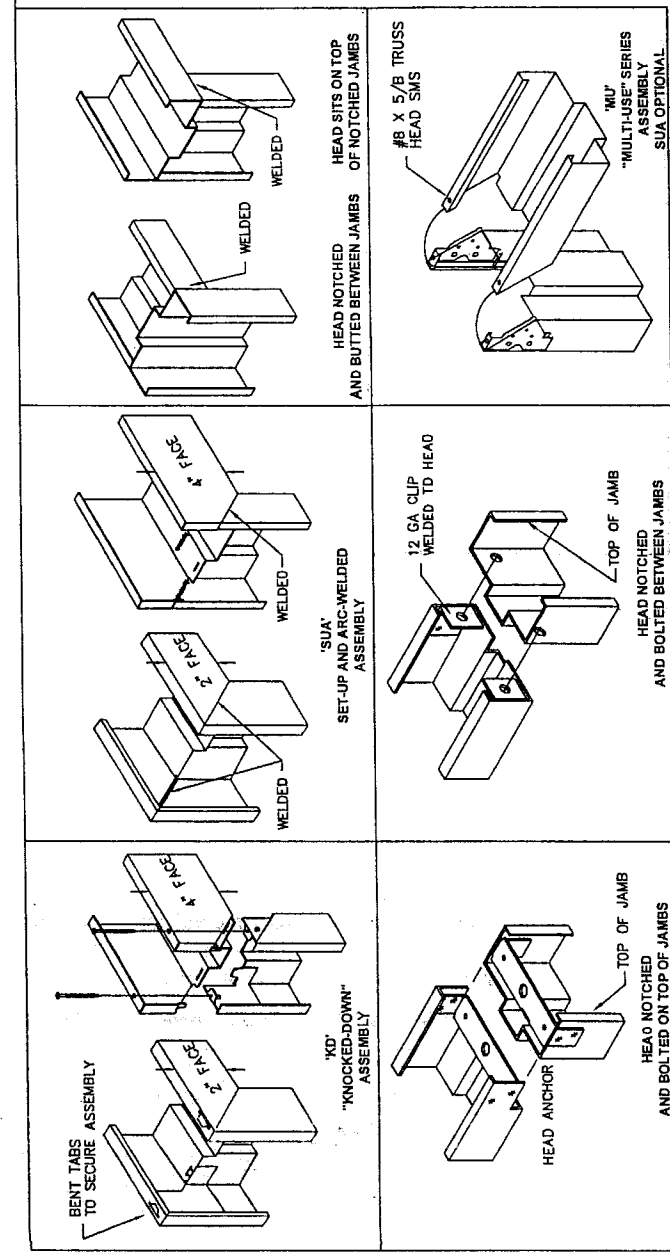
CRS	ASTM A1008
HRS	ASTM A1011
GALV	A60
ASTM	A924
STL	304, 306
ASTM	A240

TABLE 7.

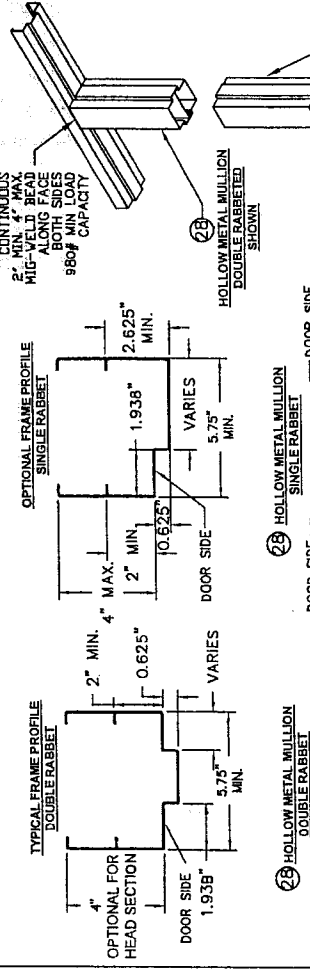
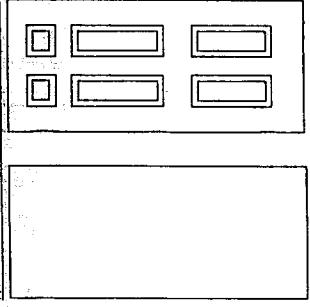
CRS	ASTM A1008
HRS	ASTM A1011
GALV	A60
ASTM	A924
STL	304, 306
ASTM	A240


 Ingersoll Rand
 Security Technologies

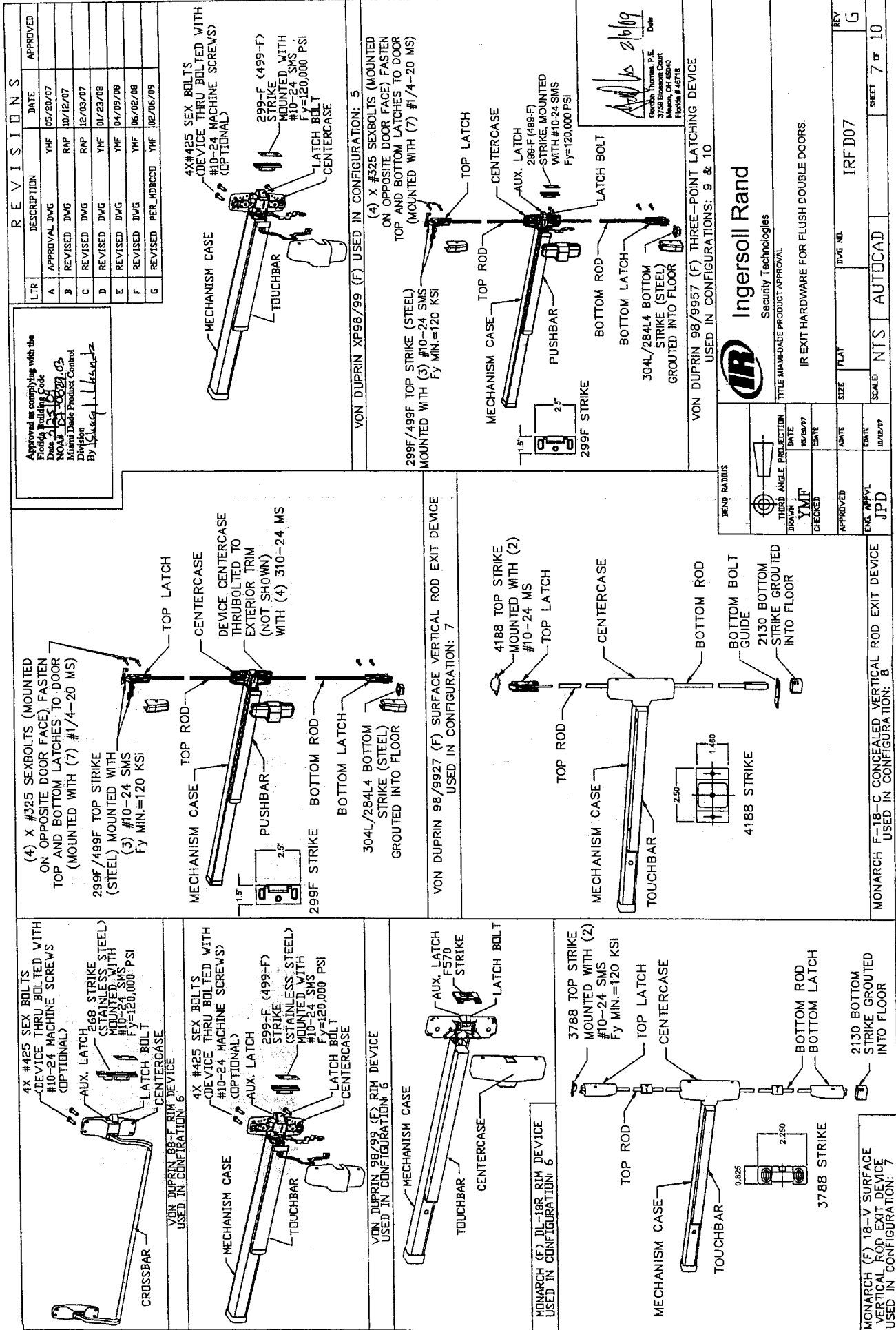
TITLE: MAMI-DADE PRODUCT APPROVAL	
FRAME PROFILE, CORNER DETAILS AND DOOR FRAME MATERIAL, AND SIZE OPTIONS	
DATE: 05/20/07	BY: YMF
CHECKED: [Signature]	APPROVED: [Signature]
ENG. APPR. JPD	DATE: 05/20/07
SIZE: 1/4"	SCALE: NTS
DWG NO. IRFD07	SHEET 6 of 10



AVAILABLE DOOR PANEL CONFIGURATIONS



Approved as complying with the Florida Building Code
 Date: 05/20/07
 By: [Signature]
 Division
 Miami Dade Product Control



IR
Ingersoll Rand
Security Technologies
TITLE MACH-DADE PRODUCT APPROVAL

IR EXIT HARDWARE FOR FLUSH DOUBLE DOORS.

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE	SCALE	SHEET	REV
YWF	05/20/07						7 OF 10	G

MONARCH F-18-C CONCEALED VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 8

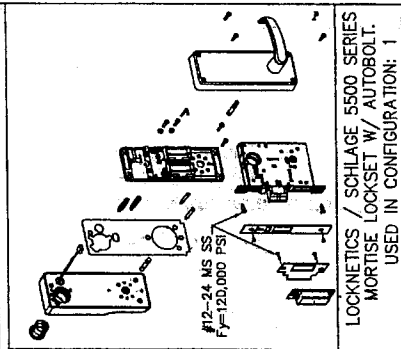
IR
Ingersoll Rand
Security Technologies
TITLE MACH-DADE PRODUCT APPROVAL

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE	SCALE	SHEET	REV
YWF	05/20/07						7 OF 10	G

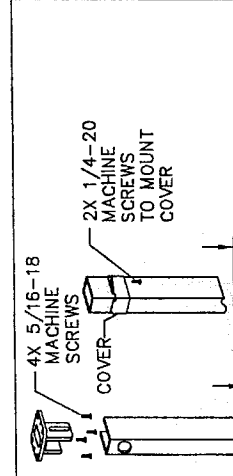
REV IS I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YMF 01/23/08	
E	REVISED DWG	YMF 04/09/08	
F	REVISED DWG	YMF 06/02/08	
G	REVISED PER_M08000 YMF	02/06/09	


 Date 2/6/09
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 48718

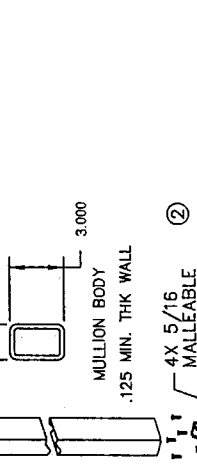
Approved as complying with the
 Florida Building Code
 Date 2/15/2007
 NOAH 03-0029 GS
 Miami Trade Product Control
 Division
 By: [Signature]



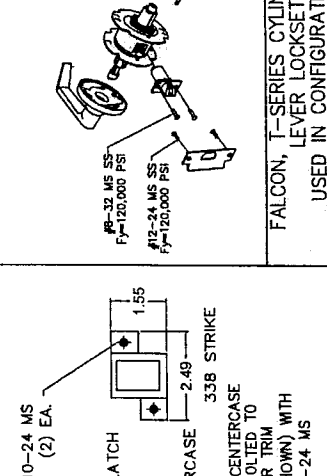
LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



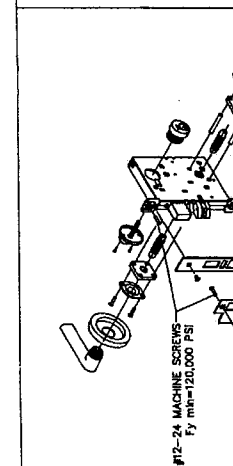
SCHLAGE L/V 9400 SERIES MORTISE LOCKSET
 W/ DEADBOLT. USED IN CONFIGURATION: 1



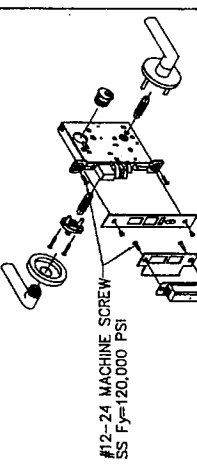
FALCON M-SERIES MORTISE LOCKSET W/ DEADBOLT
 USED IN CONFIGURATION: 1



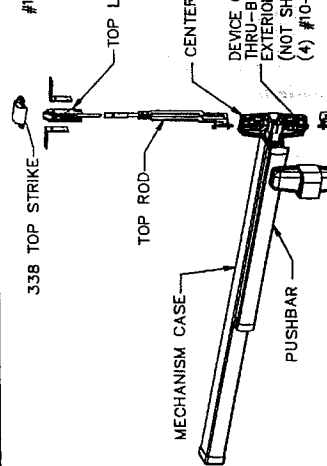
SCHLAGE D/ND-SERIES CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATIONS: 3 & 4



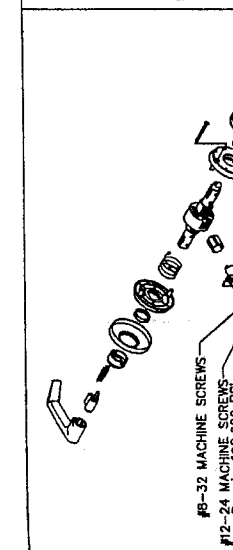
SCHLAGE AL SERIES
 CYLINDRICAL LEVER LOCKSET WITH 1/2" THROW LATCH
 USED IN CONFIGURATION: 2



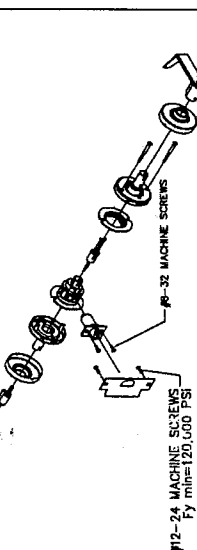
LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



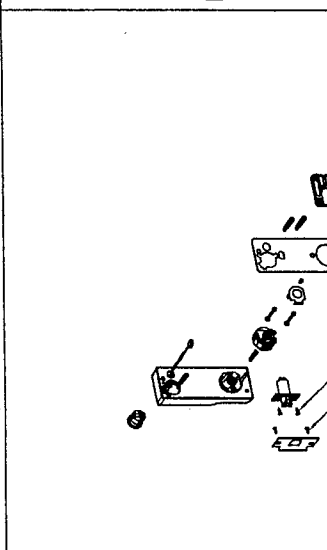
LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



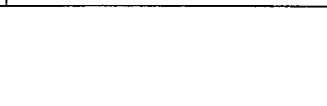
LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



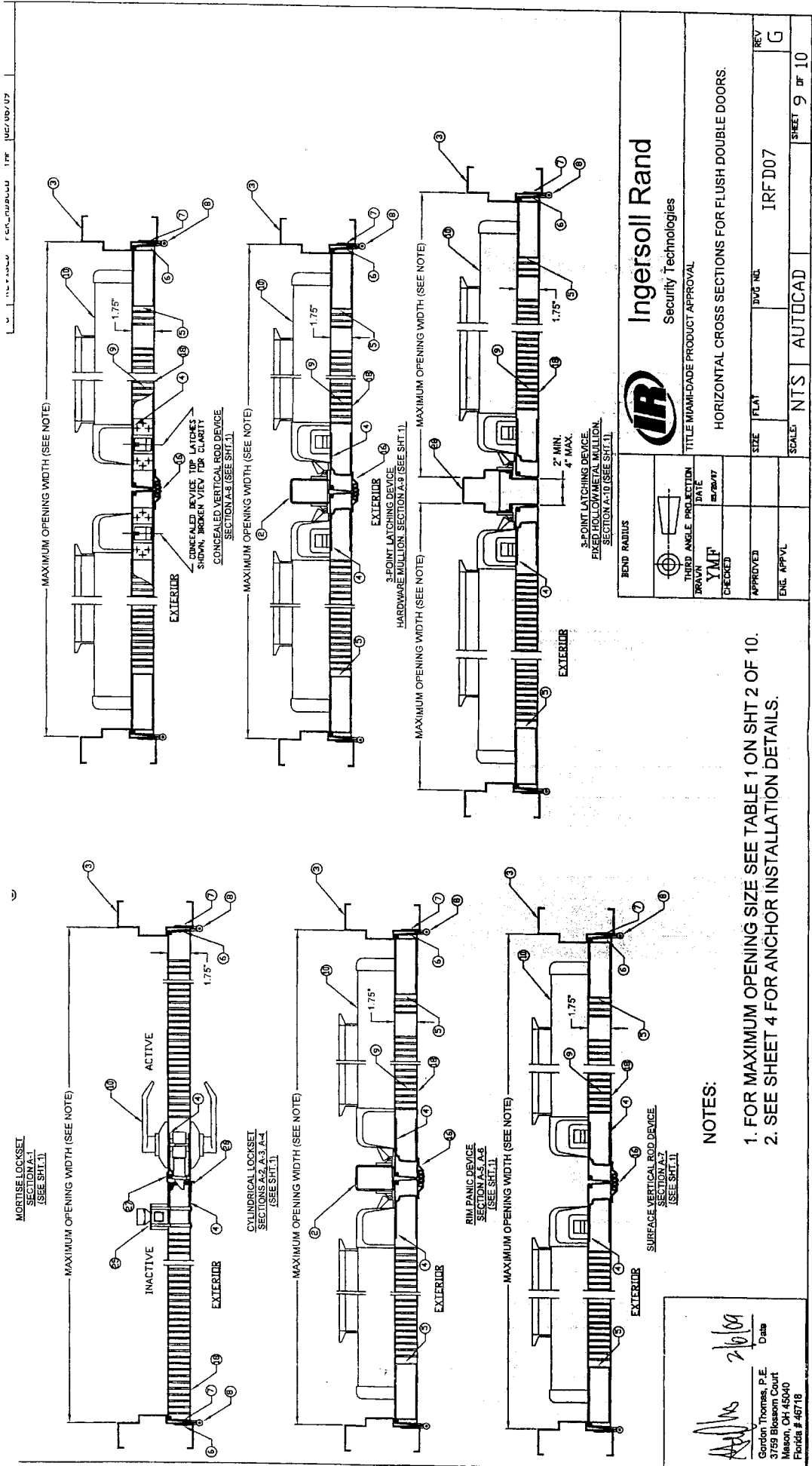
LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5100 SERIES
 CYLINDRICAL LEVER LOCKSET.
 USED IN CONFIGURATION: 4

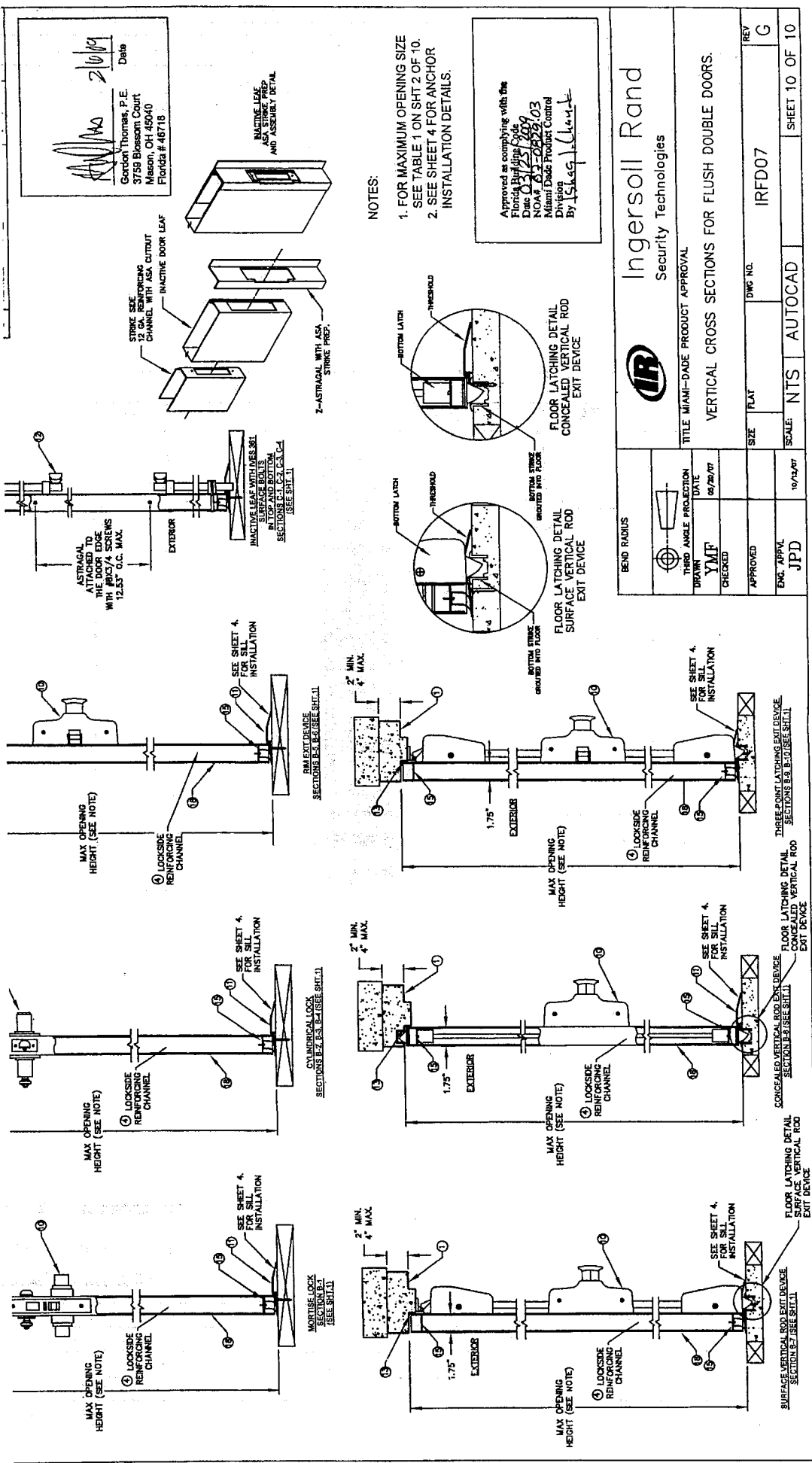


		Ingersoll Rand Security Technologies	
TITLE MIAMI-DADE PRODUCT APPROVAL		HORIZONTAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.	
THIRD ANGLE PROJECTION DRAWN YMF CHECKED	DATE 01/01/01	SIZE 1/4" x 1/2"	REV G
APPROVED ENL APPL	SCALE NTS	AUTOCAD	SHEET 9 OF 10

NOTES:

1. FOR MAXIMUM OPENING SIZE SEE TABLE 1 ON SHT 2 OF 10.
2. SEE SHEET 4 FOR ANCHOR INSTALLATION DETAILS.

2/6/01
 Date
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 46718



HURRICANE ENGINEERING & TESTING INC.

Computer Controlled Product Testing & Design,
.....Wind Load Analysis

Large Missile Impact & Cyclic Wind Pressure Tests & Forced Entry Resistance Test

November 1st, 2000

REPORT NUMBER: HETI-00-940

MANUFACTURER: Alutech Corporation
8548 N.W. 64 Street Miami, FL 33166

TEST LOCATION: Hurricane Engineering & Testing Inc.
8532 NW 64 Street Miami, FL 33166

LAB. CERTIFICATION NUMBER: 98-0413.03

DADE NOTIFICATION NUMBER: HETI00014

SBCCI LISTING No.: TL - 9596A

PRODUCT: Single Door

MATERIAL: 6063-T6 aluminum frame with 3003-H14 aluminum door skin.

MODEL: 240I

PRODUCT SIZE (S): 39 3/8" w x 85 11/16" h x 4 1/2" deep frame

DRAWING NUMBER: A95214 by Alutech Corporation, dated 12/15/1995.

NOTE: HETI stamped drawing is an integral part of this report.

DESIGN PRESSURE (psf): +95, -95

TEST WITNESSED BY: (full or Partial)

Syed Waqar Ali, Ph. D. (HETI)

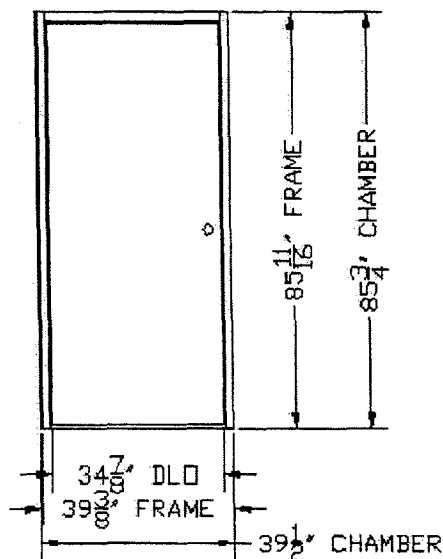
Dr. Nasreen K. Ali (HETI)

Mr. Eddy Philippe (HETI)

Mr. Leonardo D. Savini, E.I. (HETI)

WITNESSING ENGINEER:

Mr. Arshad Viqar, P.E.(HETI)



Elevation, not to scale.

Any
11/27/00

Construction Details

PRODUCT Single Door

DESCRIPTION OF SAMPLES

Model Designation 240I, 260I and 290I
Series 200I
Overall Size 39 1/2" w x 85 3/4" h chamber opening, 4 1/2" deep frame.
Configuration X (one panel operable)
No. & size of vents (1) 34 7/8" wide (door stop to door stop) x 82 11/16" high (saddle-door stop).

MATERIAL CHARACTERISTICS

Frame Construction

Jambs & Head 1 3/4" wide x 0.089" - 0.091" thick x 4 1/2" deep 6063-T6 aluminum alloy frame. The corners of the frame were butt joined with two #8 x 1" SS SMS.

Saddle 3/4" high x 0.675" thick x 3 1/4" deep aluminum bumper type.

Door Stop 1/2" effective width. 3/4" x 1 1/2" x 0.075" thick 6063-T6 aluminum snap molding.

Sash Construction

Stiles (hinge and lock) 4.63" wide x 1.84" deep x 0.107" thick 6063-T6 aluminum extrusion with one hollow.

Rails (top and bottom) 4.55" wide 1.37" deep x 0.073" wall 6063-T6 aluminum tube.

Rail Caps (top and bottom) 0.497" wide x 1.84" deep x 0.062" 6063-T6 aluminum channel.

Lock Rail None.

Corner Angle Four 1" x 2" x 1" long x 0.120" 6063-T6 aluminum.

Core Rigid (no durometer reading) fiberglass-chemical foam combination material.

Panel Surface The panel material was an 0.042" thick 3003-H14 aluminum sheet metal and a 0.12" solid pre-compressed board.

Sash Assembly The stiles were connected to all rails with one 3/8" - 16 threaded rod @ 2 3/8" from each stile end with one washer base nut per rod end. The threaded rod extended through the entire rail length. A 1" DIA access hole in the stile was capped. The rail cap channels had mortise and tenon joint. The channels were connected to the top and bottom rails with one # 8 x 1/2" SS SMS and were connected to all corner angles with one #8 x 1/2" SS SMS. The ends of the vertical stile were connected to the corner angles with one #8 x 1/2" SS SMS.

Astragal None.

Am 11/27/00

Weather Stripping One 0.3" rubber bulb type inserted on all door stops and saddle.

Hardware

Lock Yale single point cylindrical latch. Installed with two 12-24 x 1/2" SS FH MS to a pair of 1" w x 1 1/2" long x 1/4" thick 6063-T6 aluminum plates. The aluminum plates were fastened to the vertical stile with a 10-24 x 1/2" SS FH MS (0.2" edge distance)

Strike Plate 4 7/8" h x 1 13/16" x 3/32" thick stainless steel. Installed with two 12-24 x 1/2" SS FH MS to a pair of 1" w x 2 1/4" long x 1/4" thick 6063-T6 aluminum plates. The aluminum plates were fastened to the jamb with a 10-24 x 1/2" SS FH MS.

Hinges Three 4 1/2" h x 4 1/2" w x 0.129" Alutec steel with 0.39" DIA pins. Each one fastened with eight 12-24 x 1/2" SS FH MS to two 2.2" wide x 7 3/4" long x 1/4" thick 6063-T6 aluminum reinforcing plate. Each plate was fastened to the frame or stile with four 12-24 x 1/2" SS FH MS.

Plate Spacers Two 7/8" x 3/8" x 0.060" aluminum plates per hinge reinforcing plate and lock plate.

Weepholes None.

Muntins None.

Reinforcements None.

Sealant None.

Screen None.

INSTALLATION

Shimming 1/16".

Substrata Wood.

SCREWS/METAL CLIPS AND METHOD OF ATTACHMENT

	Type	Size	Spacing	Quantity
Header & Jambs	Tapcon	1/4" x 4"	8 1/2" from corners, @ 18" O.C.	5 per side
Saddle	Pan Sheet metal screw	#12 x 1 3/4"	7 1/4" from corners, @ 18" O.C.	3 per saddle

Aug 11/27/12

Test Results

Large Missile Impact Test

Impact Location	Speed (fps)	Deflection max. (in)	Description of Result
Sample I			
1) Center	50	3/4	1/8
3) Corner	50	1 3/8	1/4

The samples were impacted with a #2 Southern Yellow Pine S4S, 2 x 4 missile, 9 lbs 96" long.

Cyclic Wind Pressure Test Results

Cycles	Pressure (psf)	Deflection (in)	Set (in)	Recovery (%)	Duration (sec)
Positive Pressure Cycles					
600	+48	0.26	----	----	1
70	+57	0.32	----	----	1
1	+124	0.61	0.026	96	1
Negative Pressure Cycles					
600	-48	0.36	----	----	1
70	-57	0.43	----	----	1
1	-124	0.75	0.00	100	1

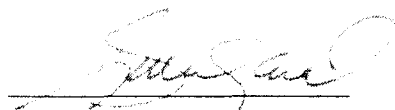
Forced Entry Test Results and Procedure

The sample was subjected for 30 seconds to a 300 lbs in the operating direction near the lock by means of a winch and a force dial gage apparatus, thus passing the test.

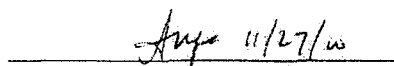
Conclusion

The sample was tested in accordance with Miami-Dade County Protocol PA 201 & 203 and Forced Entry Test as per section 3603.2 of the South Florida Building Code without any deviations. The minimum three sample criteria is met by integrating the results to the previous system. The sample was intact, operable and all parts were securely in place at the conclusion of each test.

NOTE: The above results were obtained using the designated test methods, which indicates compliance with the performance requirements of the referenced specifications. This report does not constitute certification of the specimens tested.



Syed Waqar Ali, Ph.D.
President



Arshad Viqar, P.E.
Resident Engineer

HURRICANE ENGINEERING & TESTING INC.

Computer Controlled Product Testing & Design,
..... Wind Load Analysis

Uniform Static Air Pressure Test

October 5th, 2000

REPORT NUMBER: HETI-00-939

MANUFACTURER: Alutech Corporation
8548 NW 64 Street Miami, FL 33166

TEST LOCATION: Hurricane Engineering & Testing Inc.
8532 NW 64 Street Miami, FL 33166

LAB. CERTIFICATION NUMBER: 98-0413.03

DADE NOTIFICATION NUMBER: HETI00014

SBCCI LISTING No.: TL - 9596A

PRODUCT: Single Door

MATERIAL: 6063-T6 aluminum frame with 3003-H14 aluminum door skin.

MODEL: 240I

PRODUCT SIZE (S): 39 3/8" w x 85 11/16" h x 4 1/2" deep frame

DRAWING NUMBER: A95214 by Alutech Corporation, dated 12/15/1995.

NOTE: HETI stamped drawing is an integral part of this report.

DESIGN PRESSURE (psf): +95, -95

TEST WITNESSED BY: (full or Partial)

Syed Waqar Ali, Ph. D. (HETI)

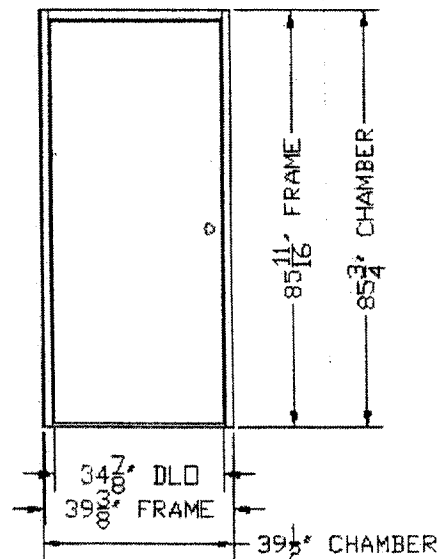
Dr. Nasreen K. Ali (HETI)

Mr. Eddy Philippe (HETI)

Mr. Leonardo D. Savini, E.I. (HETI)

WITNESSING ENGINEER:

Mr. Hector M. Medina, P.E.(HETI)



Elevation, not to scale.

11 / 22 / 00

Construction Details

PRODUCT	Single Door
DESCRIPTION OF SAMPLES	
Model Designation	240I, 260I and 290I
Series	200I
Overall Size	39 1/2" w x 85 3/4" h chamber opening, 4 1/2" deep frame.
Configuration	X (one panel operable)
No. & size of vents	(1) 34 7/8" wide (door stop to door stop) x 82 11/16" high (saddle-door stop).
MATERIAL CHARACTERISTICS	
Frame Construction	
Jambs & Head	1 3/4" wide x 0.089" - 0.091" thick x 4 1/2" deep 6063-T6 aluminum alloy frame. The corners of the frame were butt joined with two #8 x 1" SS SMS.
Saddle	3/4" high x 0.675" thick x 3 1/4" deep aluminum bumper type.
Door Stop	1/2" effective width. 3/4" x 1 1/2" x 0.075" thick 6063-T6 aluminum snap molding.
Sash Construction	
Stiles	(hinge and lock) 4.63" wide x 1.84" deep x 0.107" thick 6063-T6 aluminum extrusion with one hollow.
Rails	(top and bottom) 4.55" wide 1.37" deep x 0.073" wall 6063-T6 aluminum tube.
Rail Caps	(top and bottom) 0.497" wide x 1.84" deep x 0.062" 6063-T6 aluminum channel.
Lock Rail	None.
Corner Angle	Four 1" x 2" x 1" long x 0.120" 6063-T6 aluminum.
Core	Rigid (no durometer reading) fiberglass-chemical foam combination material.
Panel Surface	The panel material was an 0.042" thick 3003-H14 aluminum sheet metal and a 0.12" solid pre-compressed board.
Sash Assembly	The stiles were connected to all rails with one 3/8" - 16 threaded rod @ 2 3/8" from each stile end with one washer base nut per rod end. The threaded rod extended through the entire rail length. A 1" DIA access hole in the stile was capped. The rail cap channels had mortise and tenon joint. The channels were connected to the top and bottom rails with one # 8 x 1/2" SS SMS and were connected to all corner angles with one #8 x 1/2" SS SMS. The ends of the vertical stile were connected to the corner angles with one #8 x 1/2" SS SMS.
Astragal	None.
Weather Stripping	One 0.3" rubber bulb type inserted on all door stops and saddle.
Hardware	
Lock	Yale single point cylindrical latch. Installed with two 12-24 x 1/2" SS FH MS to a pair of 1" w x 1 1/2" long x 1/4" thick 6063-T6 aluminum plates. The aluminum plates were fastened to the vertical stile with a 10-24 x 1/2" SS FH MS (0.2" edge distance)
Strike Plate	4 7/8" h x 1 13/16" x 3/32" thick stainless steel. Installed with two 12-24 x 1/2" SS FH MS to a pair of 1" w x 2 1/4" long x 1/4" thick 6063-T6 aluminum plates. The aluminum plates were fastened to the jamb with a 10-24 x 1/2" SS FH MS.
Hinges	Three 4 1/2" h x 4 1/2" w x 0.129" Alutec steel with 0.39" DIA pins. Each one fastened with eight 12-24 x 1/2" SS FH MS to two 2.2" wide x 7 3/4" long x 1/4" thick 6063-T6 aluminum reinforcing plate. Each plate was fastened to the frame or stile with four 12-24 x 1/2" SS FH MS.
Plate Spacers	Two 7/8" x 3/8" x 0.060" aluminum plates per hinge reinforcing plate and lock plate.
Weepholes	None.
Muntins	None.
Reinforcements	None.
Sealant	None.
Screen	None.

11 / 22 / 00

INSTALLATION

Shimming

1/16"

Substrata

Wood.

SCREWS/METAL CLIPS AND METHOD OF ATTACHMENT

	Type	Size	Spacing	Quantity
Header & Jambs	Tapcon	1/4" x 4"	8 1/2" from corners, @ 18" O.C.	5 per side
Saddle	Pan Sheet metal screw	#12 x 1 3/4"	7 1/4" from corners, @ 18" O.C.	3 per saddle

Test Results**Uniform Static Air Pressure Test***Gage at Center of Specimen*

	Pressure (psf)	Deflection (inches)	Set (inches)	Recovery (%)	Duration (seconds)
Positive Load					
Half test load	+71	0.29	0.00	100	30
Design Load	+95	0.41	0.00	100	30
Test Load	+143	1.33	0.05	97	30
Negative Load					
Half Test Load	-71	0.38	0.00	100	30
Design Load	-95	0.60	0.04	93	30
Test Load	-143	0.99	0.11	89	30

*The Uniform Load Test was performed in accordance with ASTM E330-90.***Uniform Static Air Pressure Test***Gage at top of Specimen.*

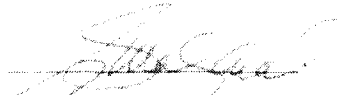
	Pressure (psf)	Deflection (inches)	Set (inches)	Recovery (%)	Duration (seconds)
Positive Load					
Half test load	+71	0.053	0.00	100	30
Design Load	+95	0.142	0.00	100	30
Test Load	+143	0.360	0.00	100	30
Negative Load					
Half Test Load	-71	0.025	0.00	100	30
Design Load	-95	0.049	0.00	100	30
Test Load	-143	0.032	0.00	100	30

The Uniform Load Test was performed in accordance with ASTM E330-90.

Conclusion

The door was tested in accordance with the requirements of Miami-Dade County Protocol PA-94-202 with no deviations. At the end of the tests, the door was operational, all components were securely in place with no openings or ruptures.

NOTE: The above results were obtained using the designated test methods which indicates compliance with the performance requirements of the referenced specifications. This report does not constitute certification of the specimens tested



Syed Waqar Ali, Ph. D.
President



Hector M. Medina, P. E.
Resident Engineer

11/22/00

HURRICANE ENGINEERING & TESTING INC.

Computer Controlled Product Testing & Design,
..... Wind Load Analysis

Tensile Test

November 16th, 2000

REPORT NUMBER: HETI-00-T059
MANUFACTURER: Alutech Corporation
8548 NW 64 St., Miami, Florida 33166
TEST LOCATION: Hurricane Engineering & Testing Inc.
8532 NW 64 St., Miami, Florida 33166
DADE CERTIFICATION NO.: 98-0413.03
SBCCI LISTING NUMBER: TL - 9596A
TENSILE TEST EQUIP.: Accutek
PRODUCT: Door (Frame Sample)
MATERIAL: 6063-T6 Painted extruded aluminum
Reference HETI Report Numbers:
HETI-00-939 and HETI-00-940
COMMENT: Tested as per ASTM E 8

Test Results

Sample (No.)	Width (in)	Thickness (in)	Area (in ²)	Ultimate Load (lbs)	Ultimate Stress (psi)	Yield Stress (psi)	Elong- ation (%)	Hardness Webster Model "B"
1	0.5040	0.09375	0.0472500	1,469	31,090	28,573	10	12.2
2	0.5040	0.09375	0.0472500	1,551	32,825	29,481	11	12.2
3	0.5040	0.09375	0.0472500	1,546	32,720	28,861	12	12.2
Average				1,522.0	32,212	28,972	11.0	12.2

The specimens were collected from the actual tested samples in the referenced test reports.
The thickness shown excluded paint coat(s).


Hector M. Medina, P.E.
Resident Engineer

8532 NW 64th Street, Miami, Florida, 33166. Phone (305) 597-5590, Fax: (305) 597-7023

www.hurricanetesting.com

HURRICANE ENGINEERING & TESTING INC.

*Computer Controlled Product Testing & Design,
.....Wind Load Analysis*

Uniform Static Air Pressure Test Forced Entry Test

February 9, 1999

REPORT NUMBER: **HETI-98-754**

MANUFACTURER: Alutech Corporation
 8548 N.W. 64 Street Miami, FL 33166

TEST LOCATION: Hurricane Engineering & Testing Inc.
 8532 N.W. 64 Street Miami, FL 33166

LAB. CERTIFICATION NUMBER: 98-0413.03 (DADE COUNTY FLORIDA)

SBCCI LISTING NO: TL-9596

PRODUCT: Double Entry Door

PRODUCT DESCRIPTION: Aluminum w/rigid foam core

PRODUCT SIZE: 99 5/8" wide x 97 7/8" high x 5 3/4" deep

MODEL: 200I, Series 240I

DESIGN LOADS (psf): +60, -120

DRAWING NUMBER: A991783, Alutech Corp. Dated Nov 9th 1998.

NOTE: HETI stamped drawing is an integral part of this report.

TEST WITNESSED BY:

Dr. Wakar Ali (HETI)
Dr. Nasreen K. Ali (HETI)
Mr. Leonardo Savini E.I.T. (HETI)
Mr. Adolfo Perez (Alutech)
Mr. Arshad Viqar, P.E. (HETI)

Installation Detail

The aluminum frame (0.112" thick, 5-3/4" deep) was anchored to the wood jamb on each side with (6) 1/4" x 4" Tapcons at 18" o.c.. The out-swinging door was reinforced with a rigid foam core. (4) 4-1/2" x 4-1/2" full template steel hinges (spaced at 24" o.c.) were used to attach the door to the frame. The hinges were bolted to the door and frame with (4) 12-24 F.H. machine screws. A cylindrical lever lock and dead bolt were installed at 39" from bottom of the door and a dead bolt at 70" from the bottom of the door. The testing chamber resembled a recess using a 2" x 2" x 1/4" aluminum angle and a 2x4 wood. (4) surface SS surface bolts by ABH, model No. 1805.

Weatherstripping / Sealants

Description	Quantity	Location
1/2" Bulb vinyl	Single	Around the inside perimeter of the frame

Test Results

The door was initially opened and closed five times with an operating force of 5 lbs.

Uniform Static Air Pressure Test Results

Load Designation	Pressure (psf)	Deflection (in)	Duration (Sec)	Set (in)	Recovery (%)
Positive Pressure					
Half	+45	0.51	30	0	100
Design	+60	0.68	30	0.01	98
Test	+90	1.06	30	0.021	98
Negative Pressure					
Half	-90	1.17	30	0	100
Design	-120	1.58	30	0	100
Test	-180	3.04	30	0.198	93

OBSERVATION:

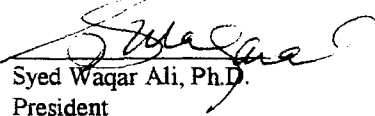
The test was performed in accordance with ASTM E 330-90. There was no visible structural damage at the conclusion of the test.

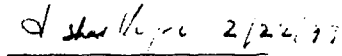
FORCED ENTRY TEST RESULTS

PROCEDURE: Specimens subjected to 300 pounds of force in the opening direction of the specimen. The force was applied separately at three locations on the door with a winch and force gage apparatus. The force was held for 30 seconds. Forces were applied successively to the right door leaf, 6" from the lower left corner, 6" above the lock, and 6" from the upper left corner.

CONCLUSION:

The sample was tested in compliance with Dade County protocol PA 202-94. There was no structural damage to the door at the conclusion of the test.


Syed Waqar Ali, Ph.D.
President


Arshad Viqar, P.E.
Engineer of Record

OPTION 1

DESIGN PRESSURE RATING SINGLE DOOR			
SINGLE POINT CYLINDRICAL OR MORTISE LOCK & THRESHOLD 1			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
3-0 X 7-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	+93.3 PSF	+95 PSF	
NEGATIVE	-95 PSF	-95 PSF	

OPTION 2

DESIGN PRESSURE RATING SINGLE DOOR			
SINGLE POINT RIM EXIT & THRESHOLD 1			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
3-0 X 7-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	+70 PSF	+90 PSF	
NEGATIVE	-70 PSF	-90 PSF	

OPTION 3

DESIGN PRESSURE RATING SINGLE DOOR			
SINGLE POINT CYLINDRICAL OR MORTISE LOCK & THRESHOLD 2			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
3-0 X 7-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	+60 PSF WITH ADDITIONAL STRIPPING	+95 PSF	
NEGATIVE	-60 PSF WITH ADDITIONAL STRIPPING	-95 PSF	

OPTION 4

DESIGN PRESSURE RATING SINGLE DOOR			
SINGLE POINT RIM EXIT & THRESHOLD 2			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
3-0 X 7-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	+60 PSF WITH ADDITIONAL STRIPPING	+90 PSF	
NEGATIVE	-60 PSF WITH ADDITIONAL STRIPPING	-90 PSF	

OPTION 5

DESIGN PRESSURE RATING PAIR OF DOORS			
SINGLE POINT CYLINDRICAL & DEAD LOCK WITH 4 SURFACE BOLTS			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR4-0 X 8-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+56.3 PSF	
NEGATIVE	NOT TESTED	-56.3 PSF	

OPTION 6

DESIGN PRESSURE RATING PAIR OF DOORS			
SURFACE VERTICAL ROD PANIC AND TWO SURFACE BOLTS			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR4-0 X 8-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+56.3 PSF	
NEGATIVE	NOT TESTED	-56.3 PSF	

OPTION 7

DESIGN PRESSURE RATING PAIR OF DOORS			
SURFACE VERTICAL ROD PANIC ON BOTH DOORS			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR4-0 X 8-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+56.3PSF	
NEGATIVE	NOT TESTED	-56.3 PSF	

OPTION 8

DESIGN PRESSURE RATING PAIR OF DOORS			
SINGLE POINT CYLINDRICAL OR MORTISE LOCK WITH TWO SURFACE BOLTS			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR4-0 X 8-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+55 PSF	
NEGATIVE	NOT TESTED	-55 PSF	

OPTION 9

DESIGN PRESSURE RATING PAIR OF DOORS			
SINGLE POINT CYLINDRICAL OR MORTISE LOCK WITH FLUSH BOLTS			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR4-0 X 8-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+55 PSF	
NEGATIVE	NOT TESTED	-55 PSF	

OPTION 10

DESIGN PRESSURE RATING PAIR OF DOORS			
SINGLE POINT RIM EXIT WITH MULLION 4954/9954			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR3-0 X 7-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+75 PSF	
NEGATIVE	NOT TESTED	-75 PSF	

OPTION 11

DESIGN PRESSURE RATING PAIR OF DOORS			
SINGLE POINT RIM EXIT WITH MULLION 4954/9954			
SIZE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	
PR4-0 X 8-0	REQUIREMENT IS NEEDED	REQUIREMENT IS NOT NEEDED	
POSITIVE	NOT TESTED	+56.3 PSF	
NEGATIVE	NOT TESTED	-56.3 PSF	

GENERAL NOTES:

1. SERIES 2001 FLUSH SINGLE OUTSWING ALUMINUM INSULATED COMMERCIAL DOOR -IMPACT WITH 0.040", 0.063", OR 0.090" ALUMINUM FACE SHEET AND FR575 OR FR450S ALUMINUM FRAME SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P. A. D) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE WITH THE 2005 SUPPLEMENT.DOOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES,DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.4 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER HETI LAB REPORT #HETI-00-939 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE,
2. SEE MAXIMUM DESIGN PRESSURE RATING AND WATER INFILTRATION REQUIREMENTS ON SHEET 1A.
3. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS.
4. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER F.B.C. TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.
5. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES.
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 2A.
7. PROVIDE 1/4" MAX. SHIM SPACE.



EASTERN
ENGINEERING
GROUP

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MIA, FL 33122
Tel: (305) 599-9135
Fax: (305) 599-9016

ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

REVISIONS	
No.	DESCRIPTION DATE

JOB No. & NAME:
FLUSH ALUMINUM DOOR-LMI
DESIGNED & DRAWN:
SCALE:

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LMI
DOOR SHOP DRAWINGS
N/A

RAISSAR LOPEZ, PE (Lic No-593399)
GONZALO A. PAZ, PE (Lic No-60734)
CERT. OF AUTHORIZATION No. 26655
I, RAISSAR LOPEZ, PE, hereby certify that the undersigned is duly licensed and is responsible for all engineering work and is responsible for the design and construction of the project described herein. I am not aware of any other person or persons who are not duly licensed and who are responsible for the design and construction of the project described herein. I am not aware of any other person or persons who are not duly licensed and who are responsible for the design and construction of the project described herein. I am not aware of any other person or persons who are not duly licensed and who are responsible for the design and construction of the project described herein.

DEC 18 2009

SK-1a



ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

JOB No. & NAME:
 100-206 AL-1003
 FLUSH ALUMINUM
 DOOR
 DESIGNED & DRAWN:
 AP
 SCALE: 1/8" = 1'-0"

RAULISA A. LOPEZ, PE (Lic No 39039)
GONZALO A. PAZ, PE (Lic No 60734)
CERT. OF AUTHORIZATION No. 26655
THE ENGINEER HAS REVIEWED THE CONTRACTOR SHALL
VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS.
DO NOT SCALE DRAWINGS. NO PROS OR
COMMISSIONS SHALL BE PRESENT ON EASTERN
ENGINEERS GROUP WITHOUT DELAY. NO COPYRIGHT
TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY
OF EASTERN ENGINEERS GROUP. NO REPRODUCTION OR
USE FOR ANY PURPOSE OTHER THAN THAT
AUTHORIZED BY EASTERN ENGINEERS GROUP.
IS PROHIBITED. UNDER PENALTY OF FINE OR IMPRISONMENT.
SIGNED AND SEALED: ENGINEER RAULISA A. LOPEZ, PE

SK-2a

FLUSH ALUMINUM DOOR



EASTERN
ENGINEERING
GROUP

301 NW 83rd Ave, Suite 200
Miami, FL 33166
Tel: (305) 593-2080
Fax: (305) 593-2080



REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
09 206 ALU WING
FLUSH ALUMINUM
DOOR
DESIGNED & DRAWN:
AP
SCALE: 1/8" = 1'-0"

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM
DOOR SHOP DRAWINGS
N/A

RAISSA R. LOPEZ, PE (LIC No-59339)
GONZALO A. PAZ, PE (LIC No-60734)
CERT. OF AUTHORIZATION No. 26655
I, the undersigned, RAISSA R. LOPEZ, PE, hereby certify that the above-named ENGINEER has prepared the drawings and specifications for the project described herein, and that I am a duly licensed Professional Engineer in the State of Florida. I am not providing my services as a consultant or engineer for any other project or for any other purpose. I am not providing my services as a consultant or engineer for any other project or for any other purpose. I am not providing my services as a consultant or engineer for any other project or for any other purpose.

DEC 08/2009

SK-3a
OF 11

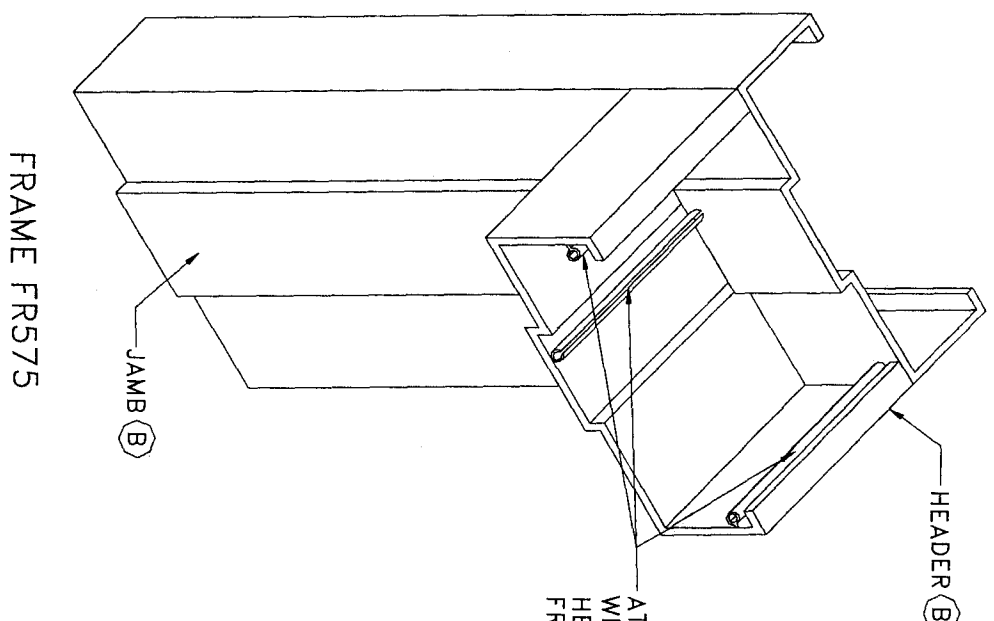
ALUMINUM FRAME: ALUMINUM DOOR FRAMES SHALL BE SERIES FR575 1-3/4" X 5-3/4" OPEN BACK WITH AN INTEGRAL DOOR STOP OR FR450S 1-3/4" X 4-1/2" OPEN BACK WITH A SNAP ON DOOR STOP.

MATERIAL: FRAME MEMBERS SHALL BE MADE OF 6063-T6 EXTRUDED ALUMINUM ALLOY WITH A MINIMUM WALL THICKNESS OF 0.125" FOR THE FR575 AND 0.090" FOR THE FR450S FRAME AND A MIN. YIELD STRENGTH OF 28,750 PSI. ALL SCREWS AND MISCELLANEOUS FASTENERS SHALL BE STAINLESS STEEL, OR OTHER CORROSION RESISTANT MATERIAL. WEATHERSTRIPPING SHALL BE COMPOUND SANTOPRENE BULB.

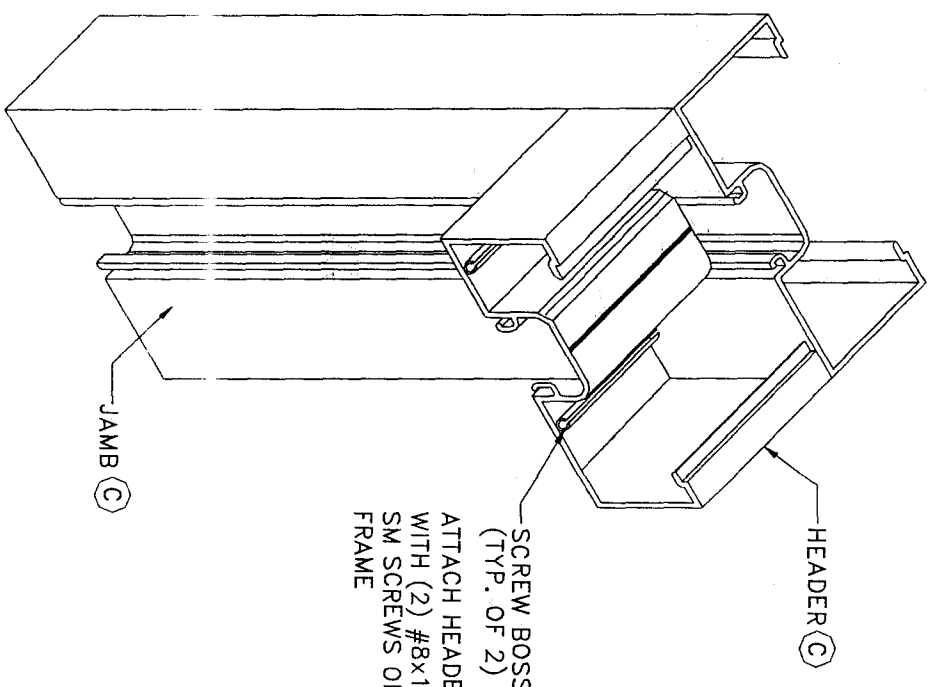
CONSTRUCTION: FRAME SHALL BE SQUARED CUT TO PROVIDE NEAT HAIRLINE JOINTS. JAMBS AND HEADER SHALL BE FASTENED WITH STAINLESS STEEL SCREWS. ALL FRAMES SHALL BE MORTISE FOR HINGES AND LOCK STRIKE PLATES. SURFACE MOUNTED HARDWARE SHALL BE DRILLED AND TAPPED IN THE FIELD. HINGE, LOCK AND STRIKE REINFORCING PLATE SHALL BE MADE OF 1/4" ALUMINUM PLATE 6063-T6 ALLOY.

INSTALLATION: INSPECT WALL CONDITION, IF NECESSARY MAKE ANY WALL REPAIRS OR ADJUSTMENTS BEFORE INSTALLATION OF DOOR FRAME. ASSEMBLE DOOR FRAME BY ATTACHING JAMBS TO HEADER USING (3) #10x1" PAN HEAD SCREWS ON THE FR575 AND (2) #8x1 ON THE FR450S" FRAME (DO NOT FILLED JAMBS OR HEADER WITH MORTAR). ERECT FR575 HINGE JAMB TO WALL AND FR450S FRAME TO WALL WITH AS PER ANCHOR SCHEDULE ON SHEET 4 OF 7 STANDING AT 7" FROM TOP. AFTER HINGE SIDE IS INSTALLED START WITH LOCK SIDED AND REPEAT THE SAME PROCEDURE. USE SHIMS AT HINGE AND LOCK SIDE TO PROPERLY LEVELLED, SQUARED AND PLUMBED FRAME IF NECESSARY (MAXIMUM SHIM SPACE TO BE 1/4").

PROTECTION & CLEANING: AFTER ERECTION, THE GENERAL CONTRACTOR SHALL ADEQUATELY PROTECT EXPOSED PORTIONS OF ALUMINUM SURFACES FROM DAMAGE BY PLASTER, LIME, ACID, CEMENT, OR OTHER HARMFUL COMPOUNDS. AFTER INSTALLATION, ALL ALUMINUM SHALL BE CLEANED WITH SOAPY WATER OR OTHER MILD CLEANING SOLUTION.



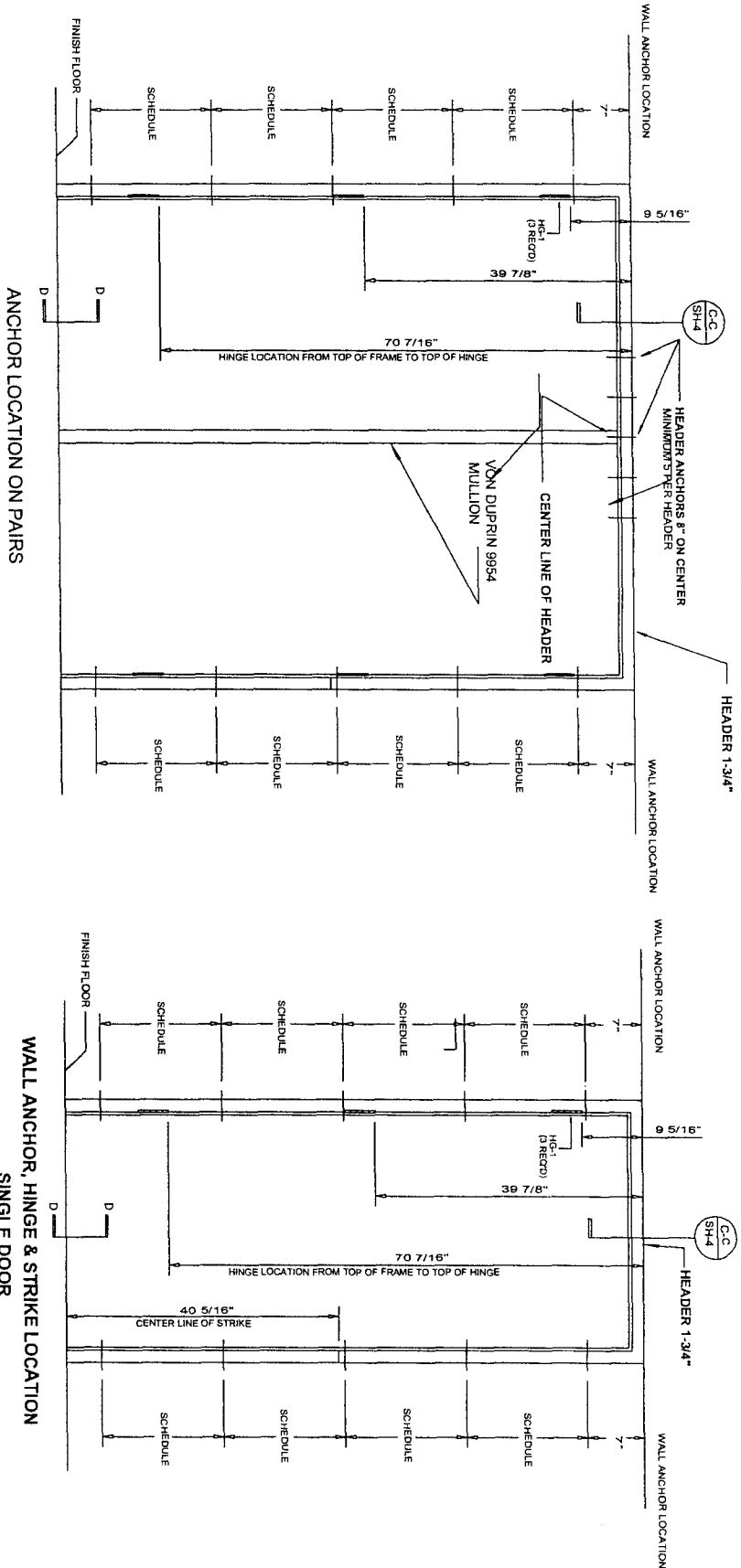
FRAME FR575



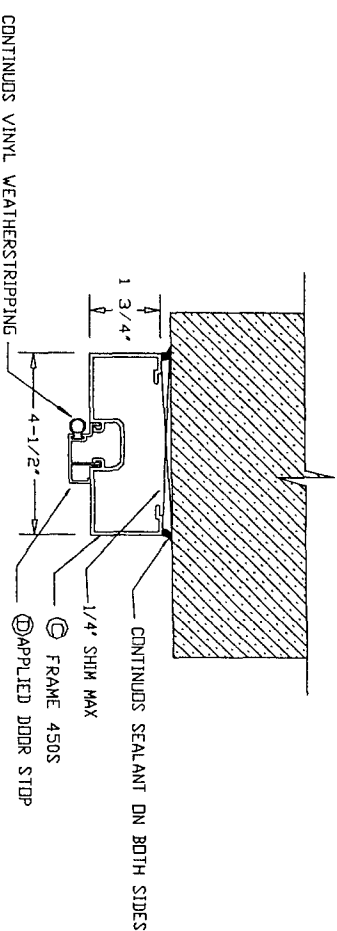
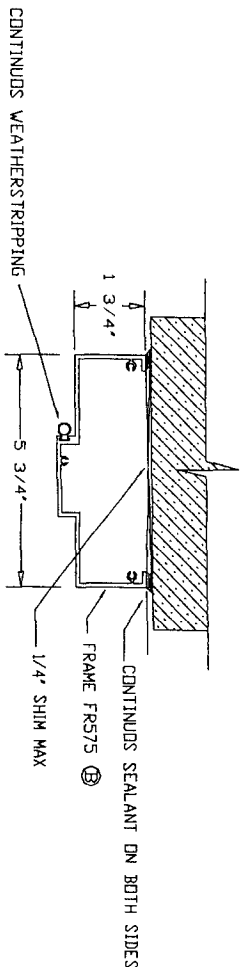
FRAME FR450

DETAIL 'A':

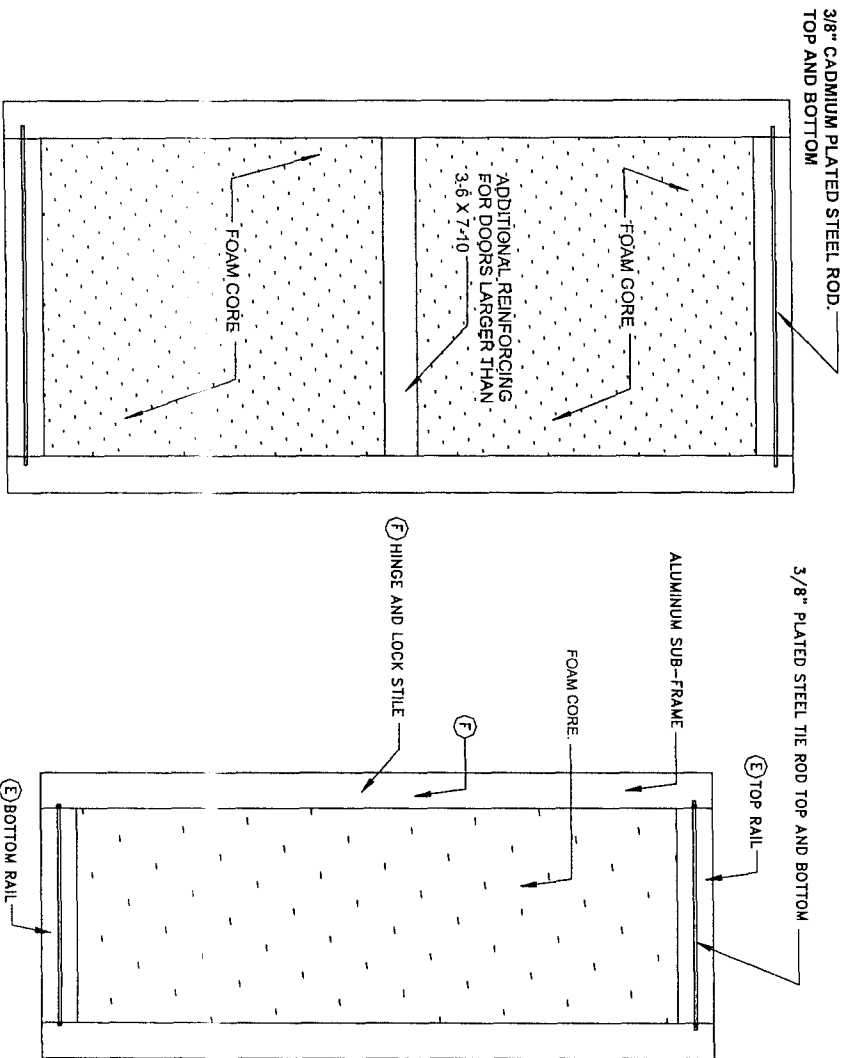
CORNER CONSTRUCTION



WALL ANCHOR, HINGE & STRIKE LOCATION
SINGLE DOOR



SECTIONS C-C



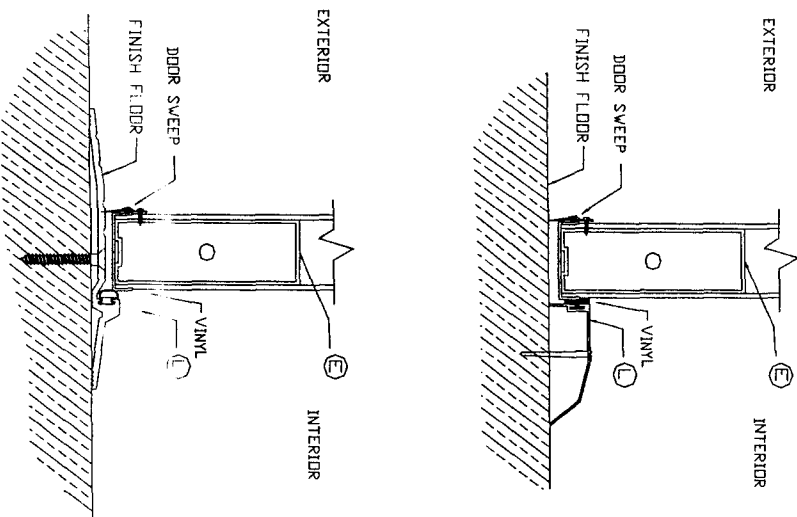
INTERNAL TUBE REINFORCING FOR
DOORS LARGER THAN 3-6 X7-10

INTERNAL TUBE REINFORCING FOR 3-0 X7-0

MAXIMUM ANCHOR SPACING (\"S\")
AND MINIMUM E.D. SCHEDULE
SINGLE DOOR

FRAME TYPE	ANCHOR TYPE			
	ELCO TEXTRON INC.	HILTI INC.	WOOD SCREWS	
	1/4\" F.H. TAPCON	5/16\" F.H. TAPCON	1/4\" F.H. KWIK-CON II	18 GAGE 5/16\" F.H.
FR575	2 1/2\"	3 1/2\"	4\"	3\"
	2 1/2\"	3 1/8\"	2 1/2\"	1 1/4\"
	4 1/2\"	6\"	8\"	5 1/2\"
FR450S	2 1/2\"	3 1/8\"	2 1/2\"	1 3/4\"
				8\"
				1 1/2\"

SPACING D.C.	EDGE DISTANCE
ANCHOR	LEGEND



SECTION D-D: BUMPER THRESHOLD



**EASTERN
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ALUTECH CORPORATION
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FAX: 305/591-8481

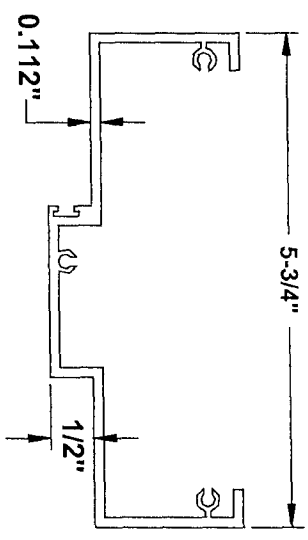
REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
FR575 ALUMINUM
DOOR
DESIGNED & DRAWN:
AP
SCALE: AS SHOWN

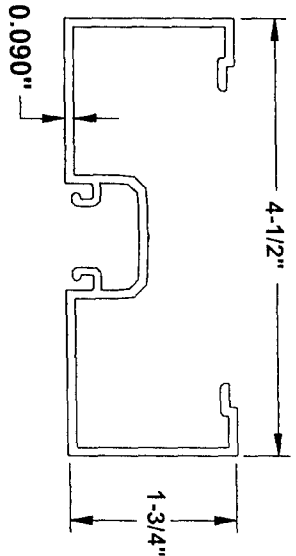
MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LMI
DOOR SHOP DRAWINGS
N/A

RAISSA R LOPEZ, PE (Lic No-593399)
GONZALO A. PAZ, PE (Lic No-60734)
CERT. OF AUTHORIZATION No. 26655
I, RAISSA R LOPEZ, PE, hereby certify that the undersigned is a duly licensed Professional Engineer in the State of Florida and is authorized to prepare and seal the drawings and specifications for the project described herein. I am not responsible for any errors or omissions in the drawings or specifications which may be the result of negligence or fraud on the part of the client or any other person. I am not responsible for any errors or omissions in the drawings or specifications which may be the result of negligence or fraud on the part of the client or any other person. I am not responsible for any errors or omissions in the drawings or specifications which may be the result of negligence or fraud on the part of the client or any other person.

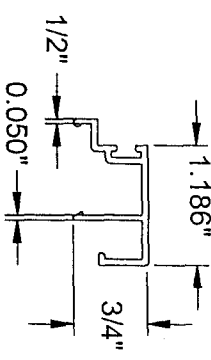
Dec 18 2009
SK-4a
OF 11



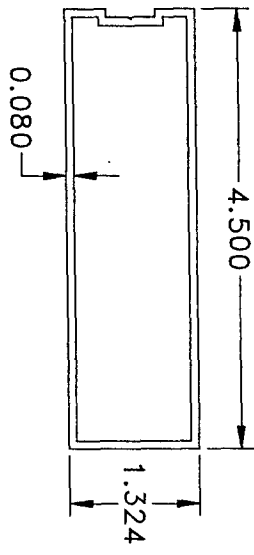
B JAMB & HEADER
FR575



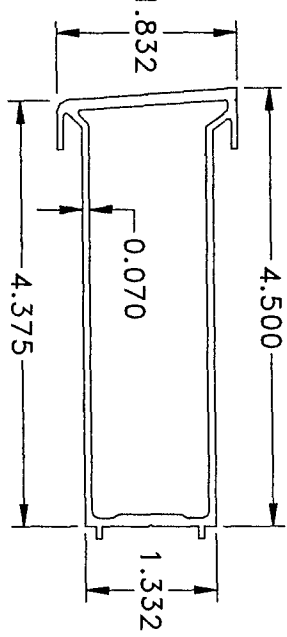
C ALTERNATE JAMB & HEADER
FR450S



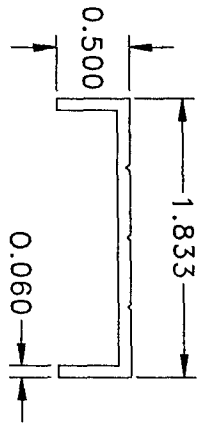
D SNAP-ON DOOR STOP



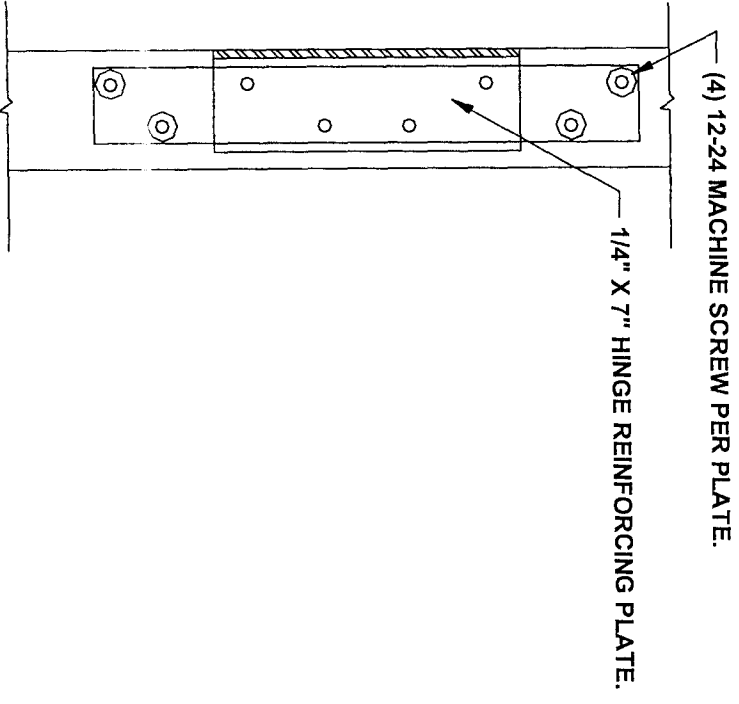
E TOP AND BOTTOM RAIL



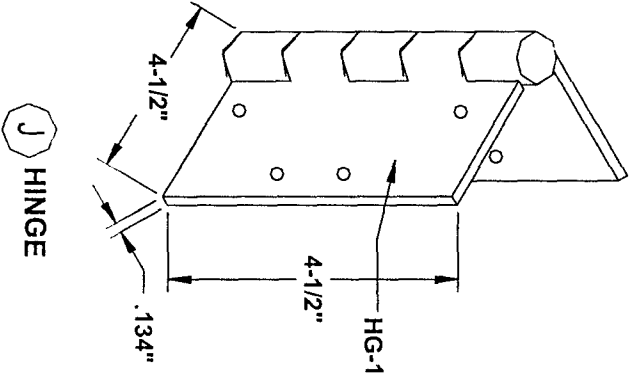
F HINGE AND LOCK STILE



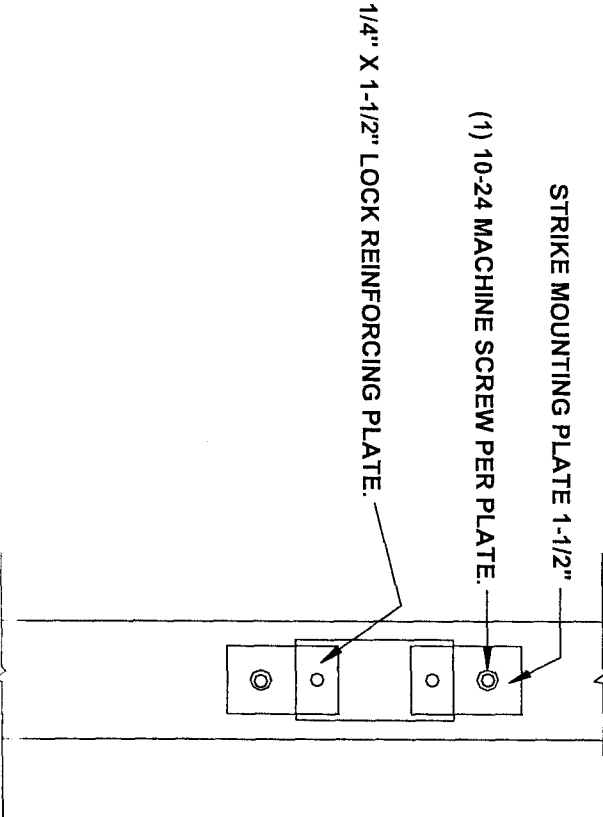
G TOP AND BOTTOM CAPS



HINGE REINFORCING PLATE



J HINGE



K LOCK REINFORCING PLATE.

DOOR AND FRAME COMPONENTS



**EASTERN
ENGINEERING
GROUP**

3401 NW 52nd Ave, Suite 37C
MIAMI, FL 33122
Tel: (305) 599-8133
Fax: (305) 599-8076

ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
301 SW 4th Ave
FLUSH ALUMINUM DOOR
DESIGNED & DRAWN:
SCALE: 1/8" = 1'-0"

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM
DOOR SHOP DRAWINGS
N/A

RAISSA R. LOPEZ, PE (P.E. No-59399)
GONZALO A. PAZ, PE (P.E. No-80734)
CERT. OF AUTHORIZATION No. 28655
I, the undersigned, the ENGINEER, shall
verify and be responsible for all dimensions
to not scale the drawings. I will ensure or
cause to be ensured that the drawings
are prepared in accordance with the
requirements of the Florida Board of
Professional Engineers and the
Florida Board of Professional Architects
and Engineers. I am not authorized to
prepare drawings for any other project
without the written consent of the
client.

DEC 8 2009

SK-5a
OF 11

RECOMMENDED HARDWARE:

OPTION 1:

- (3) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) CYLINDRICAL LOCK SERIES 1 WITH 4-7/8" STRIKE OR MORTISE LOCK (EXEPT SCHLAGE L9000)
- (1) ALUMINUM BUMPER THRESHOLD 1" HIGH PEMKO 2051 OR EQUAL

OPTION 2:

- (3) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) RIM PANIC DEVICE SIMILAR TO ONE OF THE FOLLOWING
- VON DUPRIN 98/99, DORMA 9000, SARGENT 8800, DOOR CONTROL PREMIUM SERIES
- MONARCH 19 SERIES OR OTHERS APPROVED EQUAL.
- (1) ALUMINUM BUMPER THRESHOLD 1" HIGH PEMKO 2051 OR EQUAL

OPTION 3:

- (3) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) CYLINDRICAL LOCK SERIES 1 WITH 4-7/8" STRIKE OR MORTISE LOCK (EXEPT SCHLAGE L9000)
- (1) ALUMINUM BUMPER THRESHOLD 1" HIGH PEMKO 2005 OR EQUAL

OPTION 4:

- (3) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) RIM PANIC DEVICE, SIMILAR TO ONE OF THE FOLLOWING
- VON DUPRIN 98/99, DORMA 9000, SARGENT 8800, DOOR CONTROL PREMIUM SERIES,
- MONARCH 19 SERIES OR OTHERS APPROVED EQUAL.
- (1) ALUMINUM BUMPER THRESHOLD, PEMKO 2005 OR EQUAL

OPTION 5:

- (8) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) CYLINDRICAL LOCK SERIES 1 2-3/4" WITH 4-7/8" STRIKE
- (1) DEADBOLT 2-3/4" BACKSET
- (4) SURFACE BOLTS IVES SB360 OR EQUAL
- (1) ALUMINUM BUMPER THRESHOLD 1" HIGH PEMKO 2051 OR EQUAL



EASTERN
ENGINEERING
GROUP

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ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
201 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LMI
DOOR
DESIGNED & DRAWN:
AP
SCALE: AS SHOWN

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LMI
DOOR SHOP DRAWINGS
N/A
DATE: 12/08/2009
DRAWN: RAISSA R. LOPEZ
CHECKED: GONZALO A. PAZ
APPROVED: RAISSA R. LOPEZ

RAISSA R. LOPEZ, PE (Lic No-59339)
GONZALO A. PAZ, PE (Lic No-60734)
CERT. OF AUTHORIZATION No. 26655
I, the undersigned, being a duly licensed Professional Engineer, do hereby certify that the above described work was done by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida.
DO NOT SCALE THE DRAWING. ALL DIMENSIONS AND NOTATIONS SHALL BE PRESENTED TO EASTERN ENGINEERS GROUP WITHOUT SCALE. THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF EASTERN ENGINEERS GROUP. PERMISSION OR USE FOR ANY OTHER WORK WITHOUT THE WRITTEN AUTHORIZATION OF EASTERN ENGINEERS GROUP IS PROHIBITED. 34 W. 17th Ave. 12th Floor, Miami, FL 33132
12/08/2009

DEC 08 2009

SK-6a

RECOMMENDED HARDWARE:

OPTION 6:

- (8) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) RIM PANIC DEVICE SIMILAR TO ONE OF THE FOLLOWING
- VON DUPRIN 9927, SARGENT 8700, DOOR CONTROL PREMIUM SERIES VR33 OR EQUAL.
- (2) SURFACE BOLTS IVES SB360 OR EQUAL
- (1) ALUMINUM BUMPER THRESHOLD 1" HIGH PEMKO 2051 OR EQUAL

OPTION 7:

- (8) 4-1/2 X 4-1/2 X .134 SST HINGE
- (2) RIM VERTICAL ROD PANIC DEVICE SIMILAR TO ONE OF THE FOLLOWING
- VON DUPRIN 9927, SARGENT 8700, DOOR CONTROL PREMIUM SERIES VR33 OR EQUAL.
- (1) ALUMINUM BUMPER THRESHOLD 1" HIGH PEMKO 2051 OR EQUAL

OPTION 8:

- (8) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) CYLINDRICAL LOCK SERIES 1 WITH 4-7/8" STRIKE OR MORTISE LOCK (EXEPT SCHLAGE L9000)
- (2) SURFACE BOLTS IVES SB360 OR EQUAL
- (1) ALUMINUM BUMPER THRESHOLD PEMKO 2005 OR EQUAL

OPTION 9:

- (8) 4-1/2 X 4-1/2 X .134 SST HINGE
- (1) CYLINDRICAL LOCK SERIES 1 WITH 4-7/8" STRIKE OR MORTISE LOCK (EXEPT SCHLAGE L9000)
- (2) FLUSH BOLTS IVES 458 OR EQUAL
- (1) ALUMINUM BUMPER THRESHOLD PEMKO 2005 OR EQUAL

OPTION 10 & 11:

- (6) 4-1/2 X 4-1/2 X .134 SST HINGE FOR PAIR OF 3'-0" X 7'-0"
- (8) 4-1/2 X 4-1/2 X .134 SST HINGES FOR PAIR OF 4'-0" X 8'-0"
- 1) RIM PANIC DEVICE SIMILAR TO ONE OF THE FOLLOWING
- VON DUPRIN 98/99, DORMA 9000, SARGENT 8800, DOOR CONTROL PREMIUM SERIES MONARCH 19 SERIES OR OTHERS APPROVED EQUAL.
- (1) ALUMINUM BUMPER THRESHOLD PEMKO 2005 OR EQUAL



EASTERN
ENGINEERING
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KOHLER BUILDING GROUP
3001 N. 11th Street
Miami, FL 33132
Tel: 305/593-8000
Fax: 305/593-8006



ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-6481

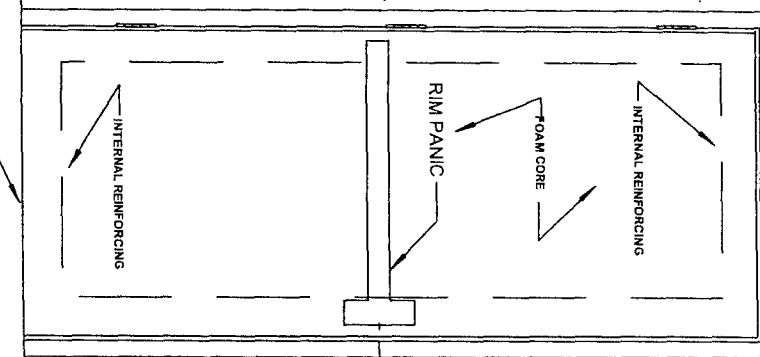
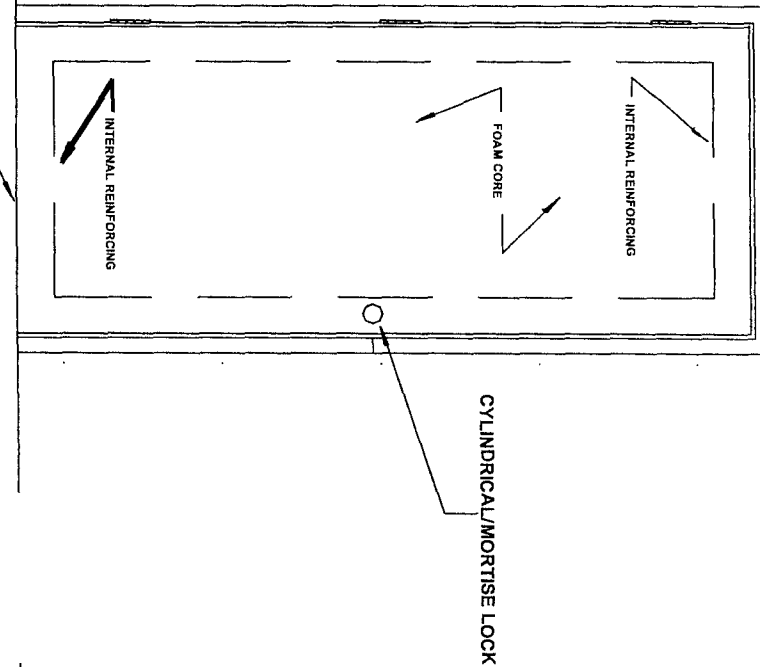
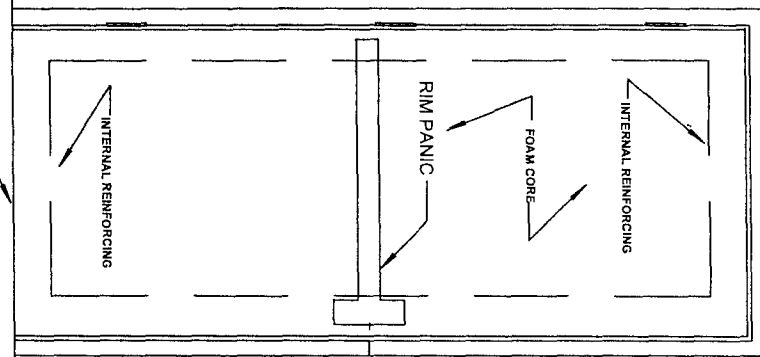
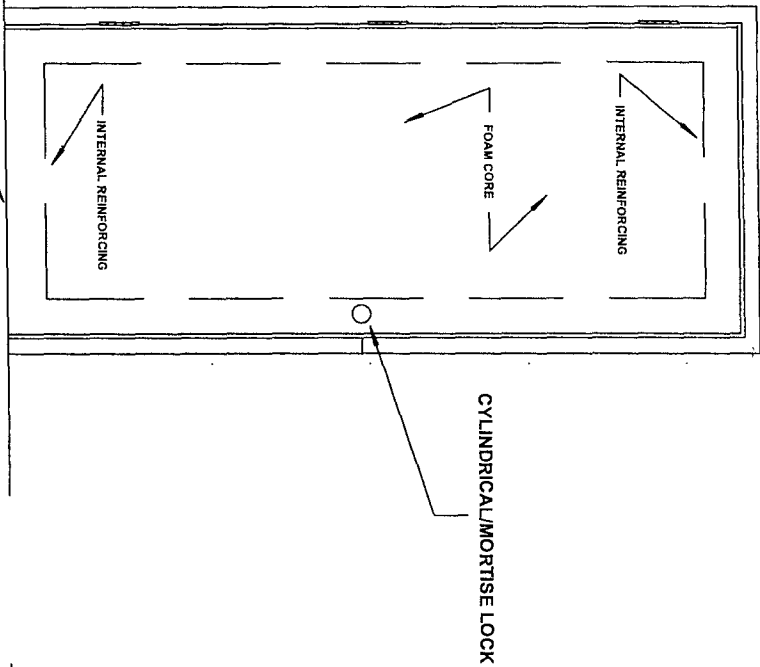
REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME
DESIGNED & DRAWN:
SCALE: AS SHOWN

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM1
DOOR SHOP DRAWINGS
N/A

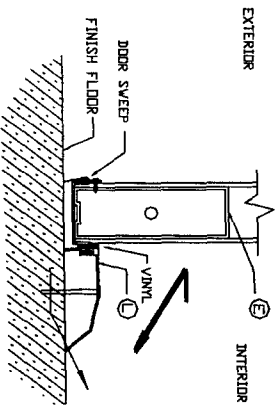
RAISSA R. LOPEZ PE CONZALO A. PAZ PE	IC No: 56699 IC No: 60734
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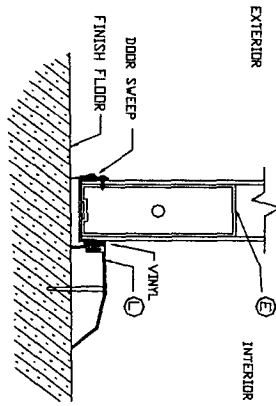
OPTION 1

UP TO 3'-0" X 7'-0"



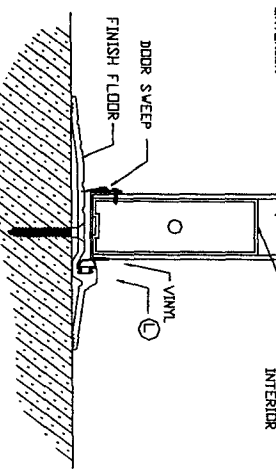
OPTION 2

UP TO 3'-0" X 7'-0"



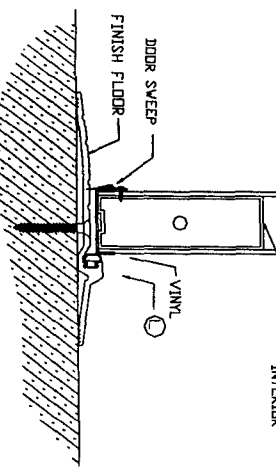
OPTION 3

UP TO 3'-0" X 7'-0"



OPTION 4

UP TO 3'-0" X 7'-0"



**EASTERN
ENGINEERING
GROUP**

301 NW 20th Ave, Suite 310
MIAMI, FL 33122
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Fax: (305) 594-4076



ALUTECH CORPORATION
8549 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
R9 201 ALU WING
FLUSH ALUMINUM
DOOR
DESIGNED & DRAWN:
M
SCALE: AS SHOWN

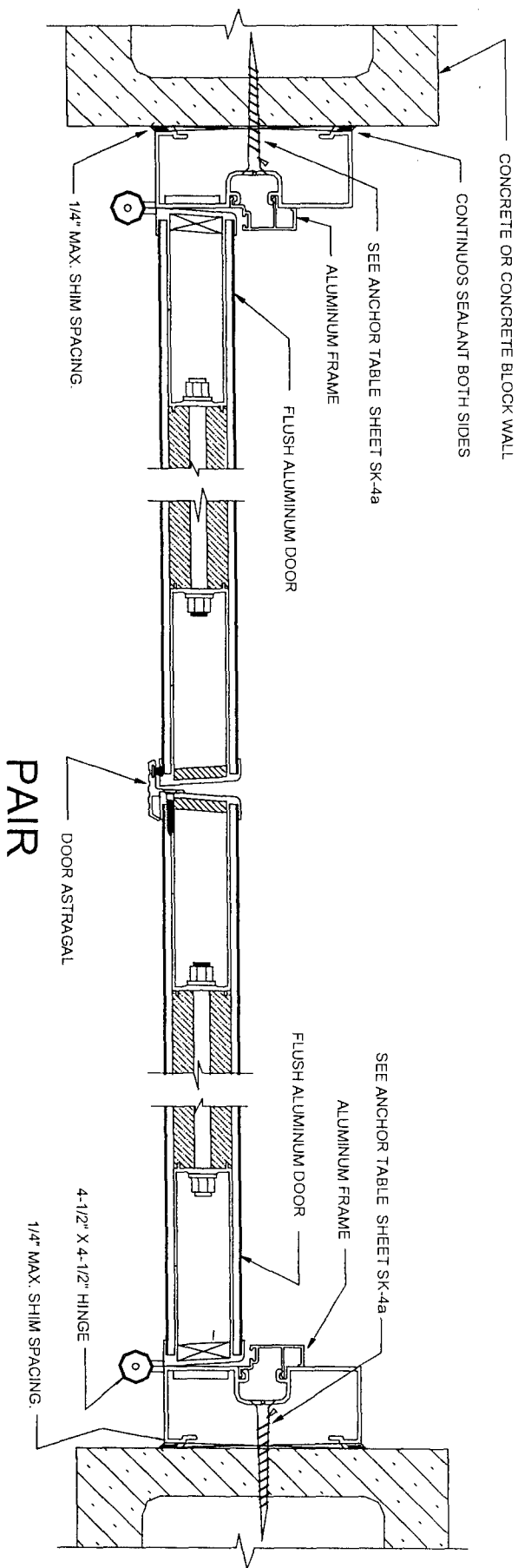
MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM
DOOR SHOP DRAWINGS
N/A

RAISSA R. LOPEZ, PE (Lic No 58339)
GONZALO A. PAZ, PE (Lic No 60734)
CERT. OF AUTHORIZATION No. 26655
CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. NO CHANGES OR CORRECTIONS SHALL BE PERMITTED. EASTERN ENGINEERING GROUP, WITHOUT DELAY, THE COPYRIGHTS TO ALL DOCUMENTS, DRAWINGS, AND THE PROPERTY OF EASTERN ENGINEERING GROUP. NO REPRODUCTION OR USE FOR ANY PURPOSES OTHER THAN THAT AUTHORIZED BY EASTERN ENGINEERING GROUP IS PROHIBITED. EASTERN ENGINEERING GROUP IS AN AFFILIATE OF EASTERN ENGINEERING GROUP.

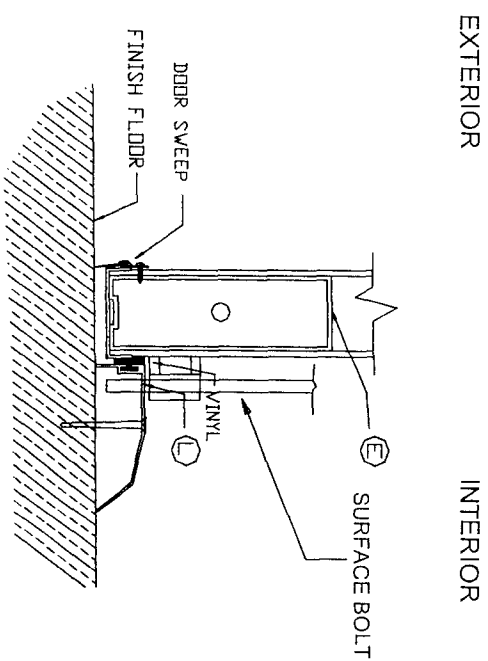
DEC 08 2009

SK-8a

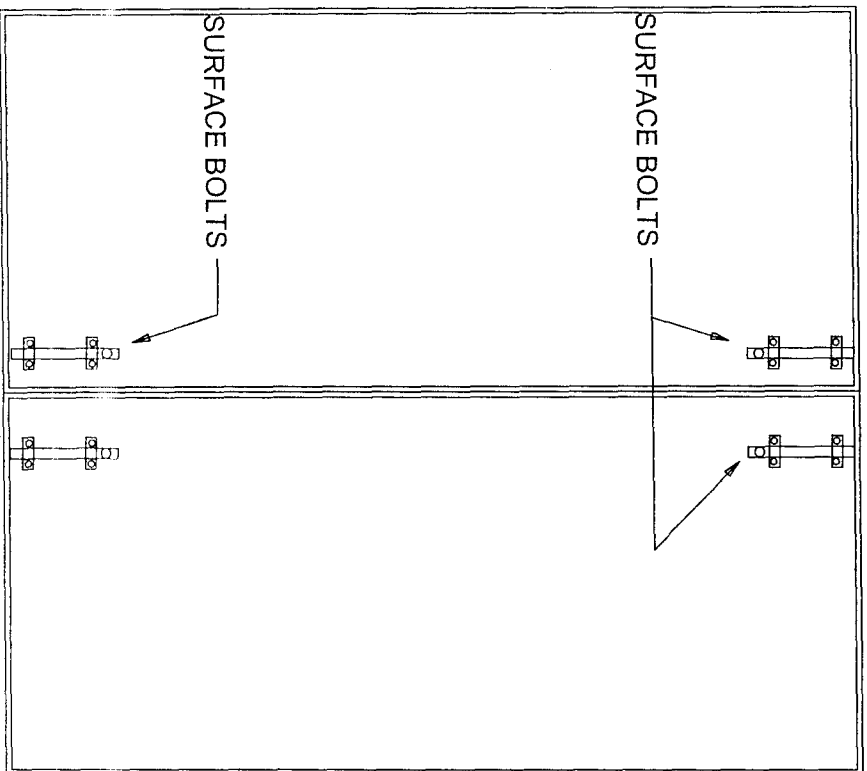
OF 11



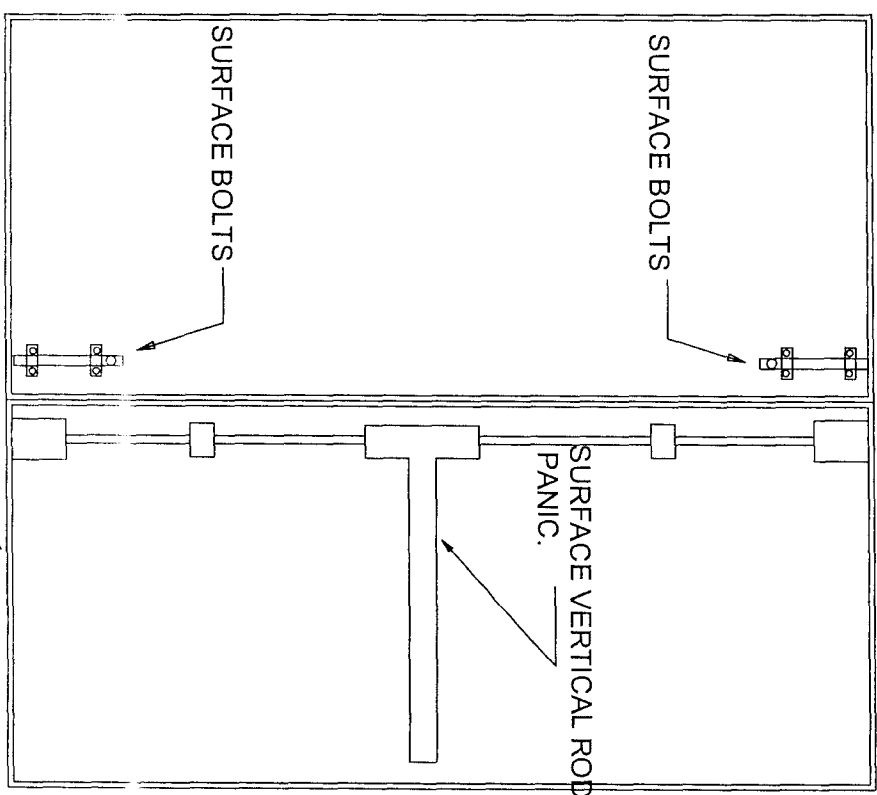
PAIR



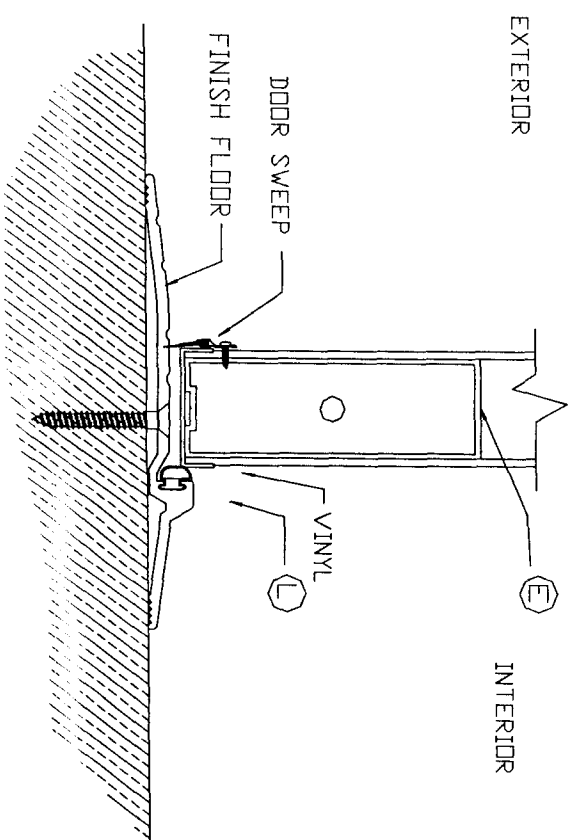
THRESHOLD 1



OPTION 5



OPTION 6



THRESHOLD 2



**EASTERN
ENGINEERING
GROUP**

3001 NW 82nd Ave. Suite 210
Miami, FL 33166
Tel: (305) 593-2080
Fax: (305) 593-8078



ALUTECH CORPORATION
8548 NW 64th Street
Miami, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
09-208 ALU W03
FLUSH ALUMINUM
DOOR
DESIGNED & DRAWN:
AP
SCALE: AS SHOWN

PRODUCT: MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM
DOOR SHOP DRAWINGS
SHEET: 11 OF 11
PROJECT: N/A
DATE: 11/11/2009
DRAWN BY: RAUL GONZALEZ
CHECKED BY: RAUL GONZALEZ
APPROVED BY: RAUL GONZALEZ

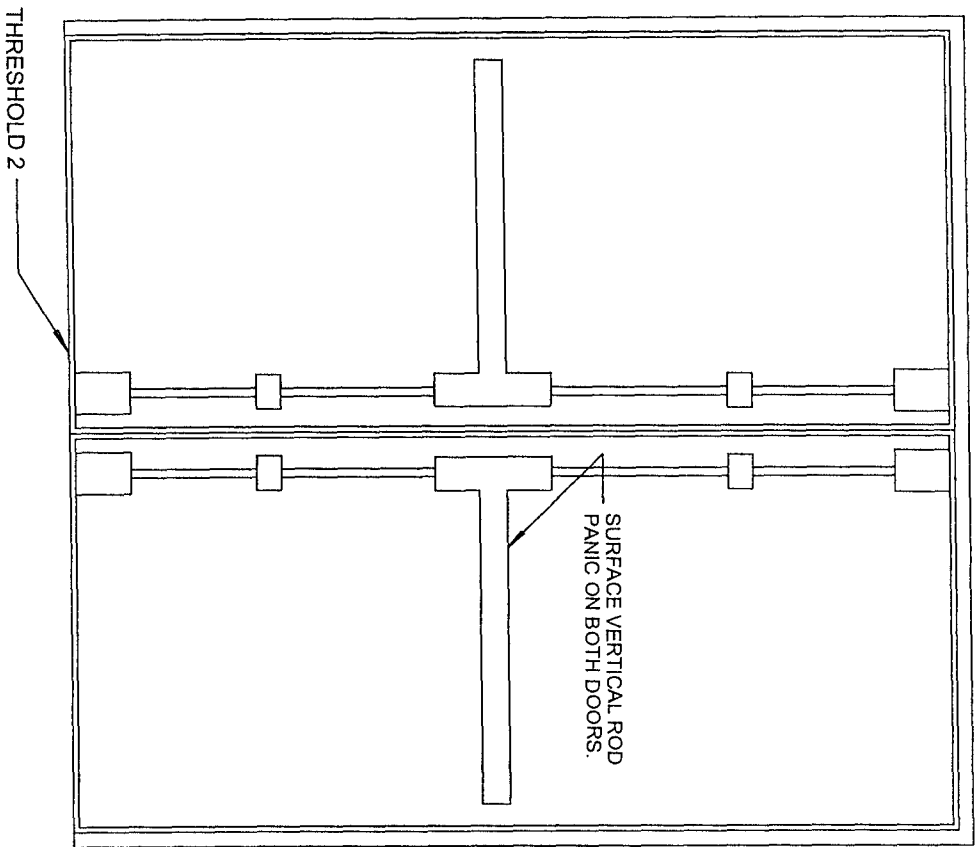
RAISSA R. LOPEZ, PE (Lic No-59399)
GONZALO A. PAZ, PE (Lic No-60734)
CERT. OF AUTHORIZATION No. 26655
I, RAUL GONZALEZ, PE, hereby authorize the use of my name and seal for the preparation and issuance of these drawings for the project described herein. I understand that the use of my name and seal for any other project without my written consent is a violation of the Professional Engineering Act of 1997, Chapter 487, F.S., and I am subject to the disciplinary actions of the Board of Professional Engineers, Architects, and Surveyors.

DEC 08 2009

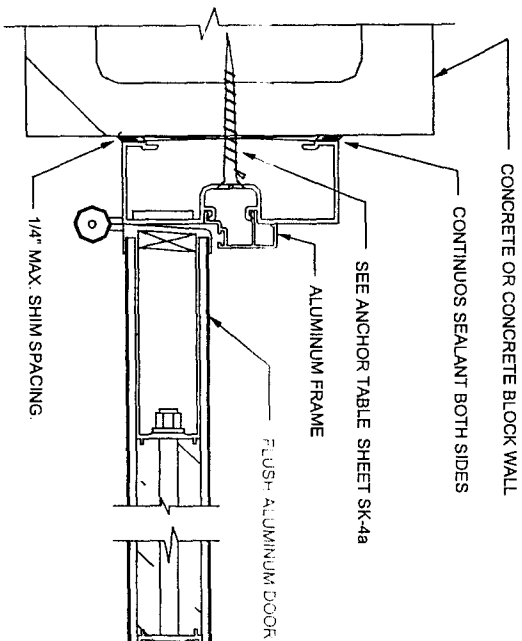
SK-9a

OF 11

SIZE UP TO PR4'-0" X 8'-0"

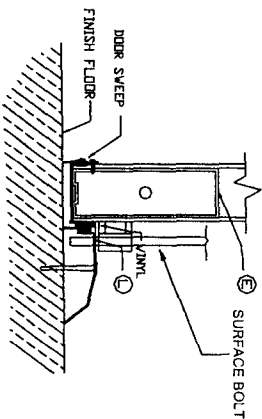


OPTION 7



EXTERIOR

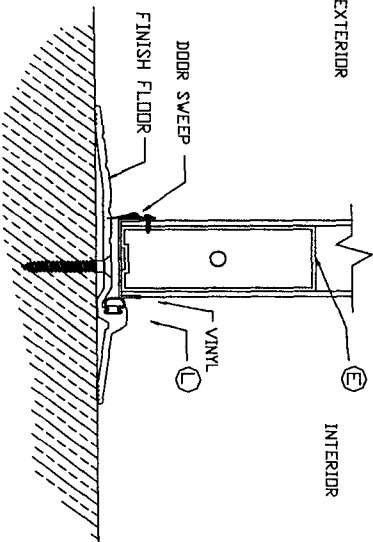
INTERIOR



THRESHOLD 1

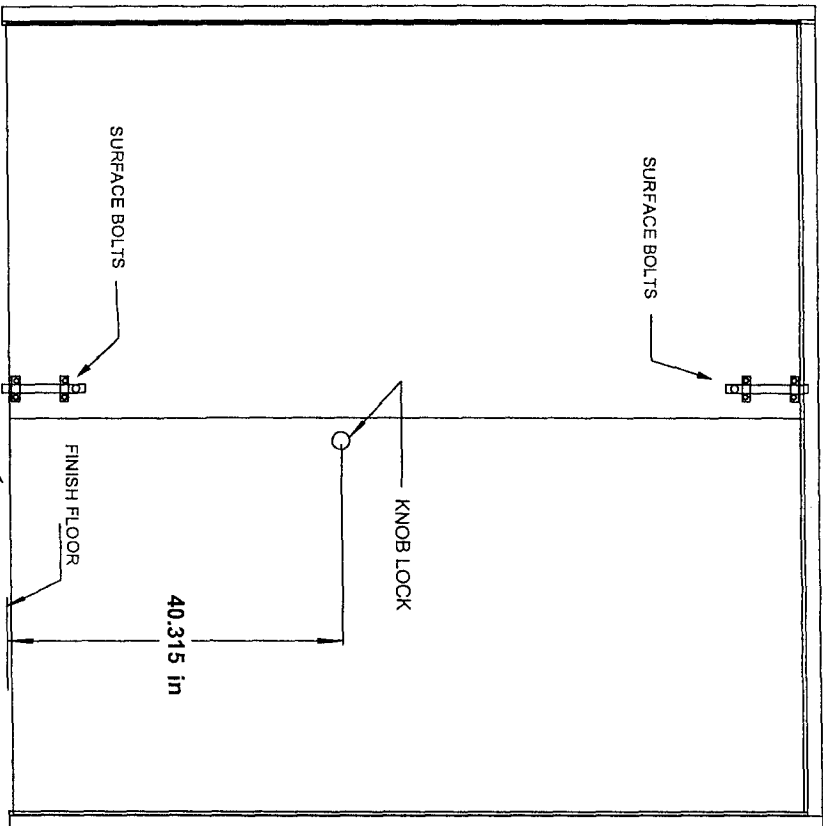
EXTERIOR

INTERIOR

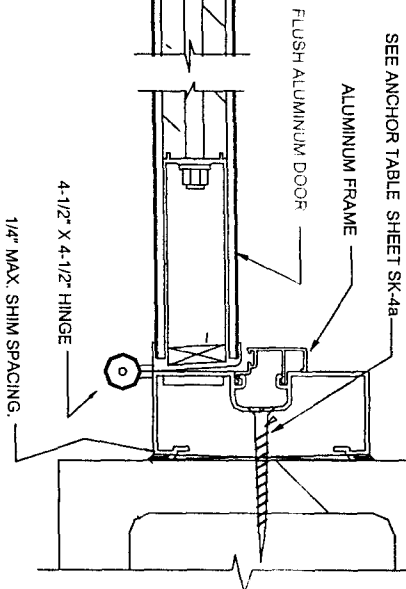


THRESHOLD 2

SIZE UP TO PR4'-0" X 8'-0"



OPTION 8



PAIR



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ENGINEERING
GROUP

3401 NW 52nd Ave, Suite 370
MIAMI, FL 33122
TEL: (305) 599-8133
FAX: (305) 599-8076



ALUTECH CORPORATION
8548 NW 64th STREET
MIAMI, FL 33166
PH: 305/593-2080
FAX: 305/591-8481

REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
PR 201 ALU 015
FLUSH ALUMINUM
DOOR
DESIGNED & DRAWN:
AP
SCALE: AS SHOWN

DATE: 08/08/2009
BY: RAFAEL A. LOPEZ

DOOR SHOP DRAWINGS

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM

N/A

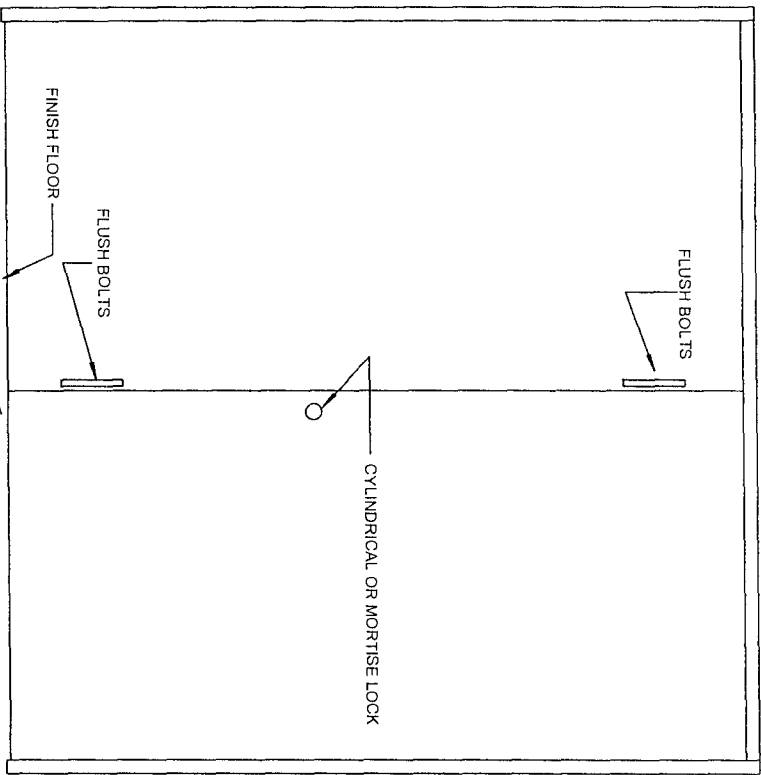
RAISSAR LOPEZ, PE (P.K. No-88399)
GONZALO A. PAZ, PE (P.K. No-60734)
CERT. OF AUTHORIZATION No. 26655
I, RAISSAR LOPEZ, PE, THE CONTRACTOR SHALL
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DIMENSIONS SHALL BE REPORTED TO EASTERN
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AUTHORIZED BY EASTERN ENGINEERING GROUP
IS PERMITTED. (P.K. No-88399) (P.K. No-60734)

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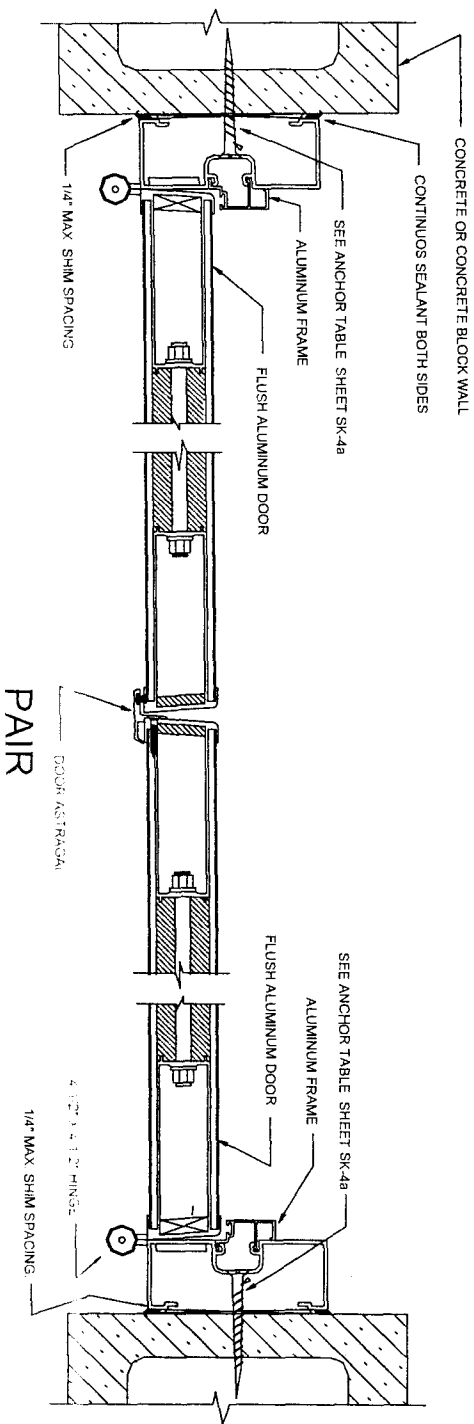
SK-10a

OF 11

SIZE UP TO PR4-0" X 8-0"

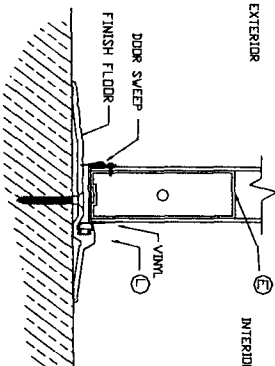


OPTION 9



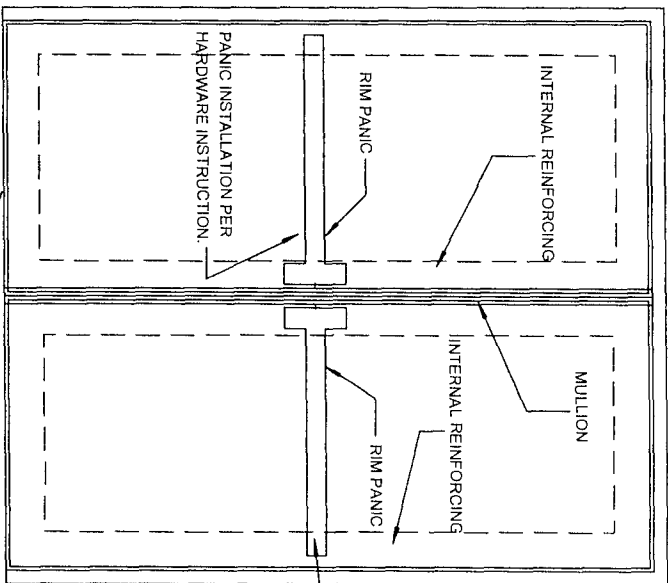
EXTERIOR INTERIOR

THRESHOLD 1

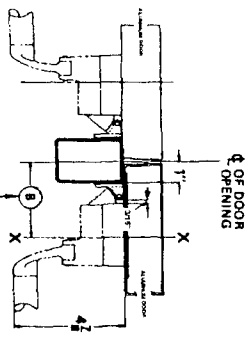
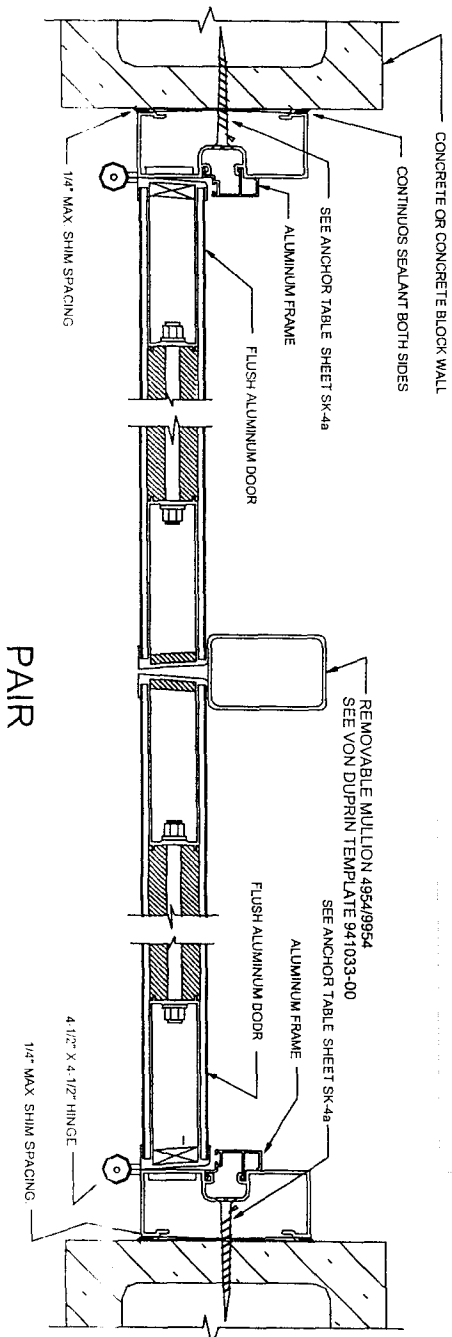


THRESHOLD 2

PAIR UP TO 3-0" X 7-0"
OR PAIR UP TO 4-0" X 8-0"

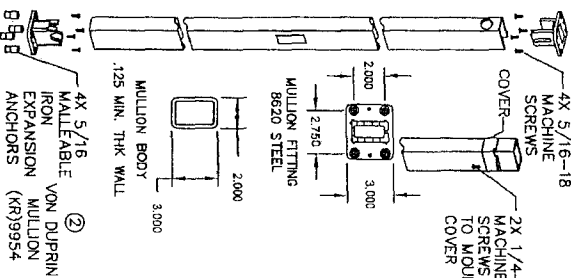


OPTION 10 & 11



DOUBLE DOOR INSTALLATION WITH VON DUPRIN MULLIONS			
MULLION & STRIKE DIMENSION	MIN. STILE	MIN. STILE	
45x4x25 (Standard)	3-1/2	4-1/2	1/8

ILLUST. 2



EASTERN
ENGINEERING
GROUP

3501 NW 30th Ave, Suite 370
Miami, FL 33122
Tel: (305) 596-8103
Fax: (305) 596-8106



ALUTECH CORPORATION
8548 NW 64th Street
Miami, FL 33166
Tel: (305) 596-8103
Fax: (305) 591-8481

REVISIONS		
No.	DESCRIPTION	DATE

JOB No. & NAME:
FLUSH ALUMINUM DOOR
DESIGNED & DRAWN:
AS
SCALE: AS SHOWN

MODEL 2001 SERIES 2401 FLUSH OUTSWING ALUMINUM DOOR-LM
DOOR SHOP DRAWINGS

DATE: 12/08/09
BY: RAISSA R. LOPEZ
CHECKED: N/A
APPROVED: N/A

RAISSA R. LOPEZ PE
CONZALO A. PAZ PE
CERT. OF AUTHORIZATION No. 26655
I, the undersigned, hereby authorize the use of my name and seal for the purpose of certifying that the design and drawings of the above described project are the work of me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida. I am not providing any other services to the project and I am not acting as a consultant or engineer in any other capacity. I am not providing any other services to the project and I am not acting as a consultant or engineer in any other capacity. I am not providing any other services to the project and I am not acting as a consultant or engineer in any other capacity.

DEC 08 2009

SK-11a

OF 11