



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.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Firedoor, Division of Ark II Manufacturing, LLC
1350 NW 74th Street
Miami, FL 33147

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: Series "8080F-HR" Single Outswing Commercial Steel Door w/wo Mullion-LMI

APPROVAL DOCUMENT: Drawing No "W04-31", titled "8080F-HR" Out-Swing Steel Entrance Door", dated 04-05-04 and last revised on 03/28/2006, sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, signed and sealed by Dr. Humayoun Farooq., P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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 # 04-0923.02 consists of this page 1 and evidences page E-1, as well as approval document mentioned above.

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



A
3/20/06

NOA No 05-1129.04

Expiration Date: June 16, 2010

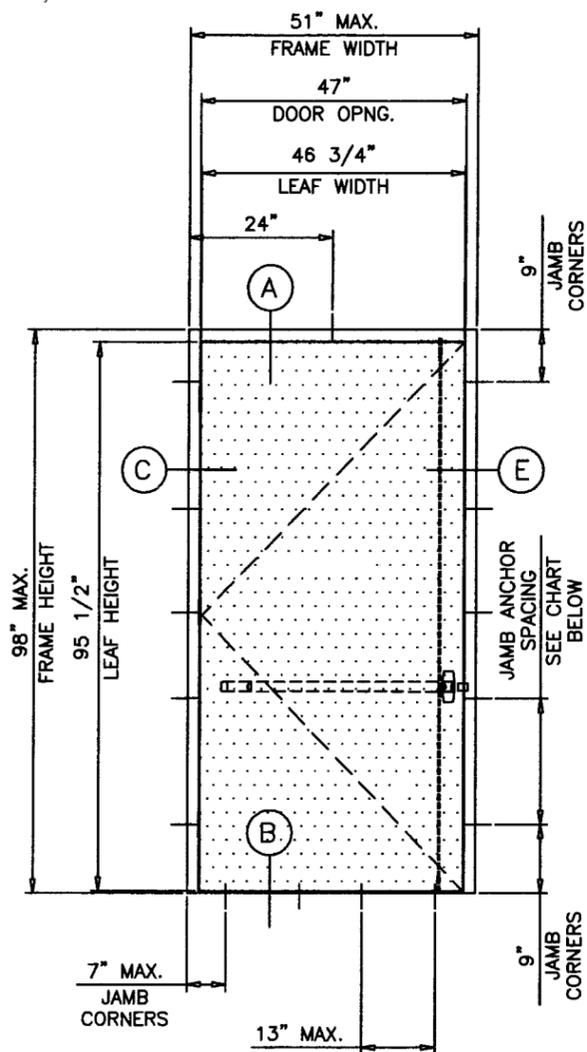
Approval Date: April 20, 2006

Page 1

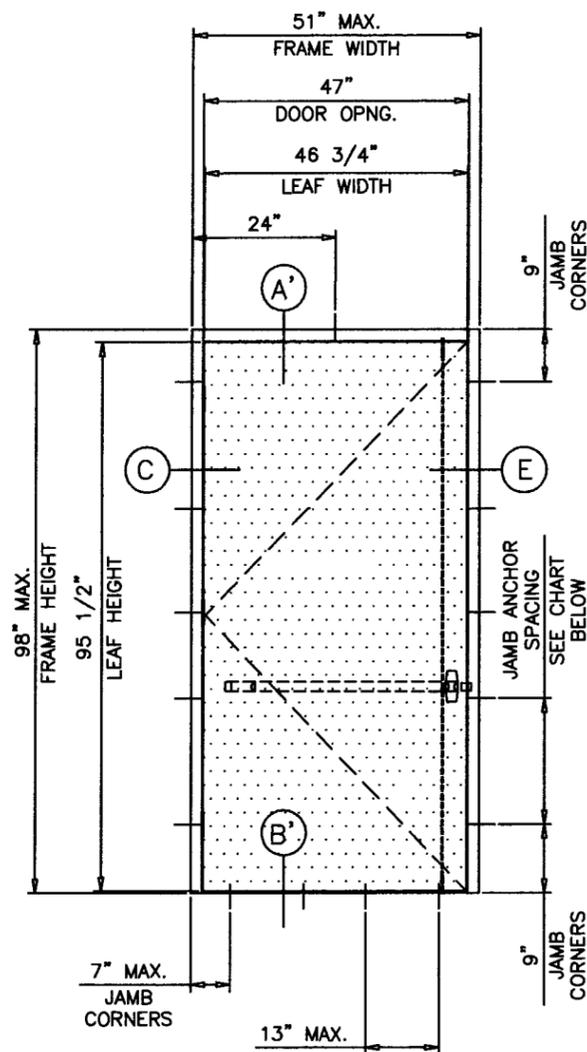
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (Transferred from file # 04-0923.02)
1. Manufacturers die drawings and sections.
 2. Drawing No "W04-31", titled "8080F-HR" Out-Swing Steel Entrance Door", dated 04-05-04 and last revised on 03/28/2006, sheets 1 through 6 of 6, prepared by Al-Farooq Corporation., signed and sealed by Dr. Humayoun Farooq., P. E.
- B. TESTS** (Transferred from file # 04-0923.02)
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 (1"high threshold)
 - 4) Forced Entry test per FBC, TAS 202-94
 - 5) Large Missile Impact Test, FBC TAS 201-94
 - 6) Cyclic Loading Test, per FBC, TAS 203-94
- Along with installation diagram of single outswing steel doors marked-up by Fenestration Testing Laboratories, Inc. Test Reports Nos. **FTL 4038 (FTL0403)**, dated 12/13/01, signed and sealed by Edmundo Largaespada, P.E.
- (Note: This test report has been revised by addendum letter dated March 02, 2005, issued by Fenestration Testing Laboratories, Inc., signed and sealed by Edmundo Largaespada, P.E.
- C. CALCULATIONS**
1. Anchor verification complying FBC 2004, prepared by Al-Farooq Corporation, dated 11-03-2005 and revised on 03-21-2006, signed and sealed by Dr. Humayuon Farooq, P.E.
 2. Anchor Calculations and structural analysis, prepared by Al-Farooq Corporation, dated 07-14-2004 and last revised on 03-25-2005, signed and sealed by Dr. Humayuon Farooq, P.E. (Transferred from file # 04-0923.02)
- D. QUALITY ASSURANCE BY:**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS** (Transferred from file # 04-0923.02)
1. Tensile test report prepared by Fenestration Testing Laboratories Inc., report No. FTL04033 (4038-A), dated July 22, 2004 for Steel samples, tested per ASTM E-A370-97-a, signed and sealed by Edmundo Largaespada, P.E.
 2. Notice of Acceptance No. 01-1108.09 issued to Apache Products Company for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/2007.
- E. STATEMENTS** (Transferred from file # 04-0923.02)
1. Statement letter of conformance w/FBC-2004, dtd 03-xx-06 issued by Al-Farooq Corp
 2. Statement Letter of conformance and letter of "No financial interest to test Lab" issued by Al-Farooq Corporation, both letters dated January 14, 2004, signed and sealed by Dr. Humayuon Farooq, P.E.
 3. Statement letter of compliance, as part of above referenced test report, issued by Fenestration testing laboratory.
- F. OTHER**
1. This NOA revises NOA # **04-0923.02**, expiring June 16, 2010.
 2. Test proposal by Al-Farooq Corp , approved by BCCO dated 06/20/2003.

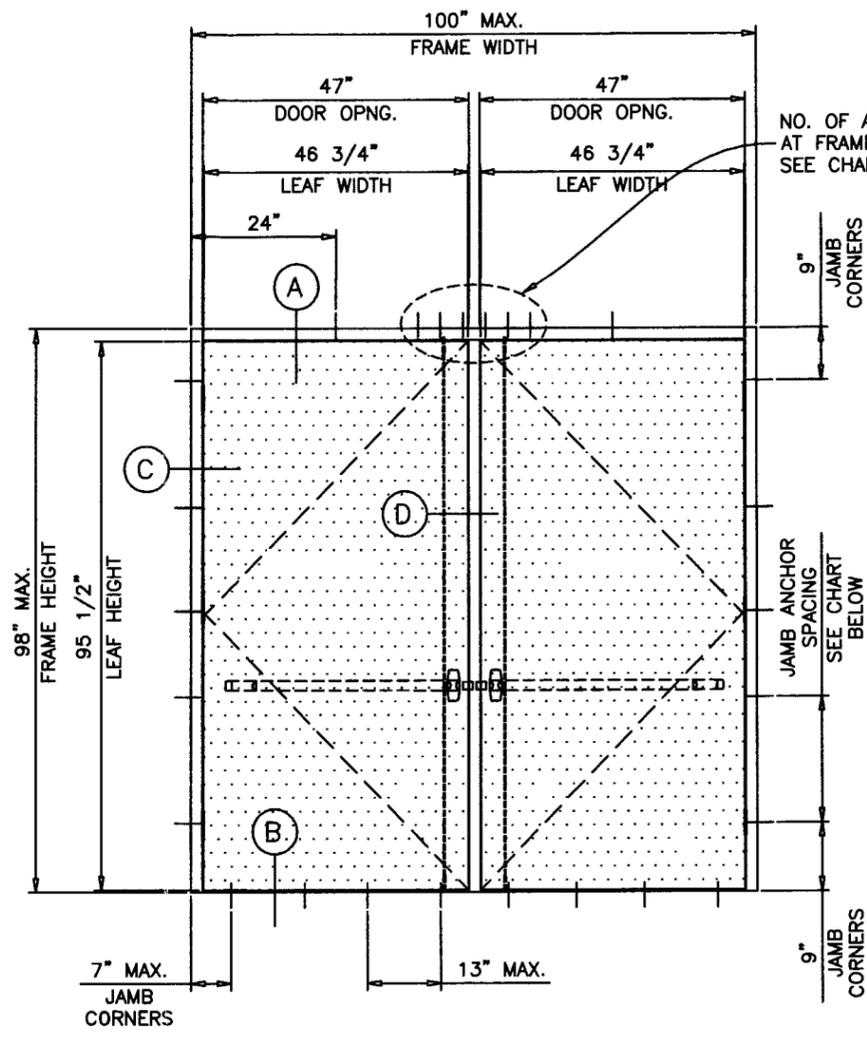
Ishaq I. Chanda
Ishaq I. chanda, P.E.
Product Control Examiner
NOA No 05-1129.04
Expiration Date: June 16, 2010
Approval Date: April 20, 2006



SINGLE DOOR
3 POINT PANIC DEVICE WITH
CONCEALED VERTICAL RODS



SINGLE DOOR
3 POINT PANIC DEVICE WITH
SURFACE VERTICAL RODS



(2) SINGLE DOOR WITH INTERMEDIATE MULLION
3 POINT PANIC DEVICE WITH
CONCEALED VERTICAL RODS OR
SURFACE VERTICAL RODS

NO. OF ANCHORS REQD.
AT FRAME HEAD
SEE CHART BELOW

NO. OF ANCHORS AT MULLION HEAD			
FRAME HEIGHT	DOOR OPNG.	ANCHOR TYPE 'A'	ANCHOR TYPE 'B' & 'C'
98"	30"	4	4
	36"	4	4
	42"	6	4
	47"	6	5

TYPICAL ELEVATIONS

SERIES-8080F SINGLE OUT-SWING STEEL ENTRANCE DOOR

THIS APPROVAL IS FOR SINGLE DOOR APPLICATION ONLY.
THIS PRODUCT RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

DOORS (WITH 2051AV THRESHOLD) ARE APPROVED FOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS (WITH 65A THRESHOLD) ARE NOT APPROVED FOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING
HIGH VELOCITY HURRICANE ZONE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS
ARE NOT PART OF THIS APPROVAL.

DESIGN LOAD CAPACITY - PSF						
JAMB ANCHORS SCHEDULE						
FRAME HEIGHT	DOOR OPNG.	ANCHORS TYPE 'A'			ANCHORS TYPE 'B' & 'C'	
		● 25-1/2" O.C. ● 20" O.C. ● 16" O.C.			● 25-1/2" O.C. ● 20" O.C.	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
98"	30"	96.9	114.0	114.0	114.0	114.0
	36"	80.7	103.0	114.0	114.0	114.0
	42"	69.2	88.2	110.3	109.7	114.0
	47"	60.6	77.2	96.5	96.0	110.4

DOORS (WITH 2051AV THRESHOLD) ARE APPROVED FOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS (WITH 65A THRESHOLD) ARE NOT APPROVED FOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 28 2006

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 05-1129.04
Expiration Date JUN 16, 2010
By Islag I. Chanda
Miami Code Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W04-31FDC

SERIES-8080F-HR OUT-SWING STEEL ENTRANCE DOOR

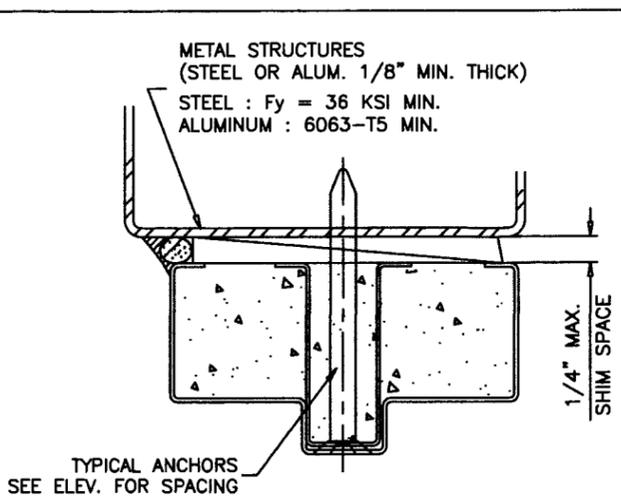
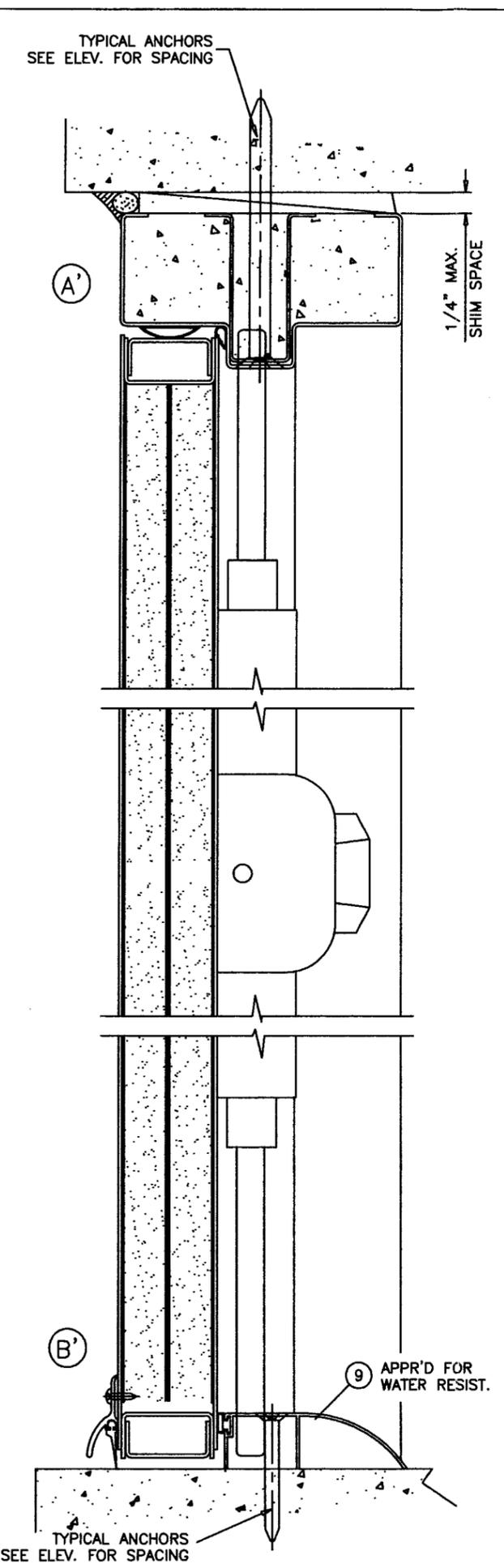
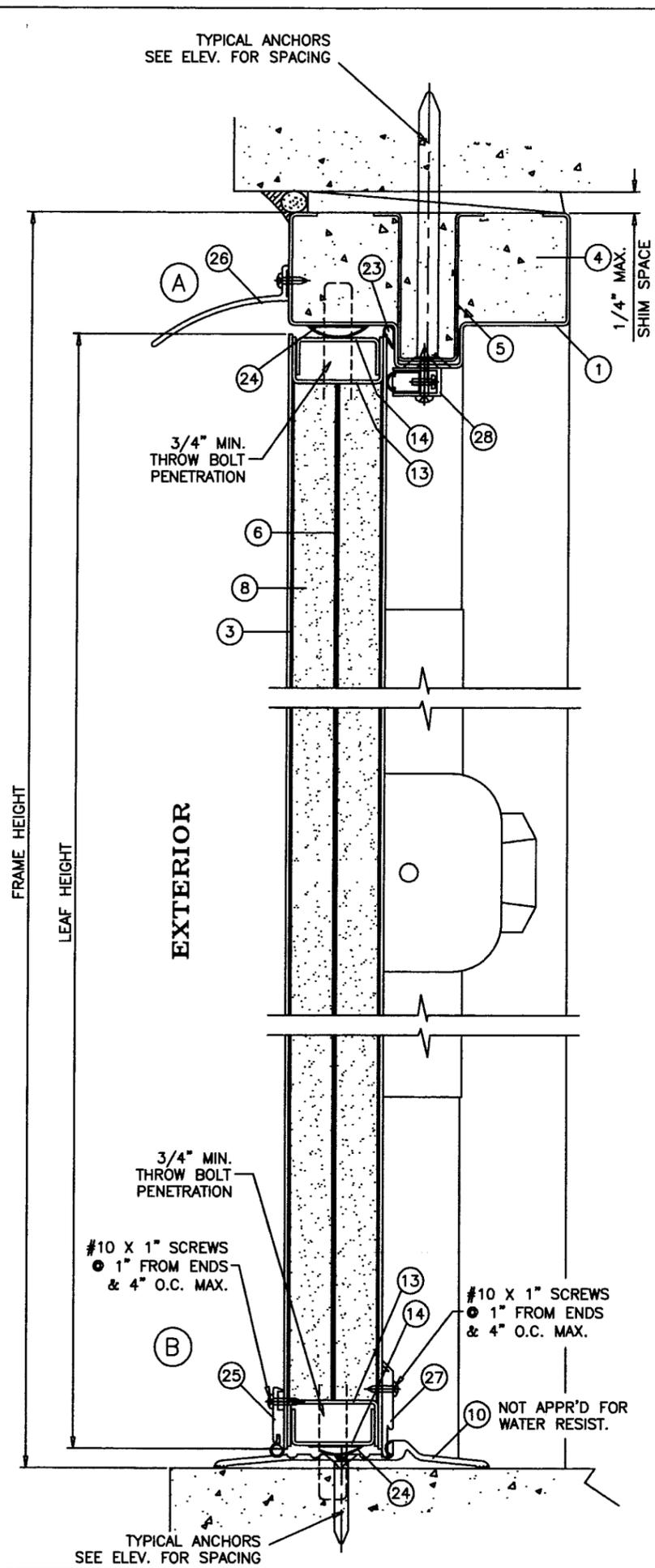
FIREDOOR DIVISION OF ARK II MANUFACTURING, LLC
1350 N.W. 74TH STREET
MIAMI, FL. 33147
TEL. (305) 681-1500 FAX (305) 836-4797

NO.	DATE	DESCRIPTION
A	03.21.05	REV. PER BCCO COMMENTS
B	04.27.05	REV. PER BCCO COMMENTS
C	07.19.05	UPDATED FOR 2004 FBC
D	03.15.06	REV. PER BCCO COMMENTS

date: 04-05-04
scale: 3/8"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W04-31

sheet 1 of 5



METAL STRUCTURES NOT BY FIREDOOR
MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS @ HEAD/JAMB: SEE ELEV./CHART FOR SPACING
(USING PIPE OR HAT CLIP)

TYPE 'A' - 5/16" DIA. ITW TAPCONS (CARBON STEEL)
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
ANCHORS CL TO CL DISTANCE = 3-1/8" MIN. (MULLION HEAD)

TYPE 'B' - 3/8" DIA. SLEEVE ANCHOR HILTI
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
ANCHORS CL TO CL DISTANCE = 3-3/8" MIN. (MULLION HEAD)

TYPE 'C' - 3/8" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS)
INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK.)
ANCHORS CL TO CL DISTANCE = 1" MIN.
STEEL : Fy = 36 KSI MIN.
ALUMINUM : 6063-T5 MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.

TYPICAL ANCHORS @ THRESHOLD:

1/4" DIA. TAPCONS
DIRECTLY INTO CONCRETE
WITH 1-1/2" MIN. EMBED INTO CONC.

MULLION ANCHORS @ SILL:

(2) 3/8" DIA. KWIK BOLTS II
DIRECTLY INTO CONCRETE
WITH 1-5/8" MIN. EMBED INTO CONC.

PRODUCT RENEWED
as complying with the Florida
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Acceptance No. 05-1129.04
Expiration Date June 16, 2010
Ishag I. Lhanda
Miami Made Product Control
Division

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

MAR 28 2006

afc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W04-31FDC

SERIES-8080F-HR OUT-SWING STEEL ENTRANCE DOOR

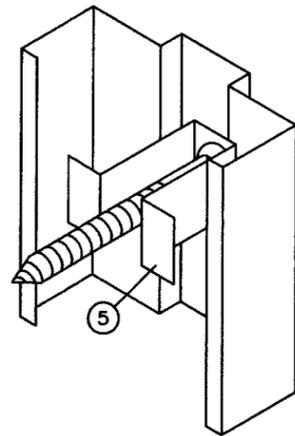
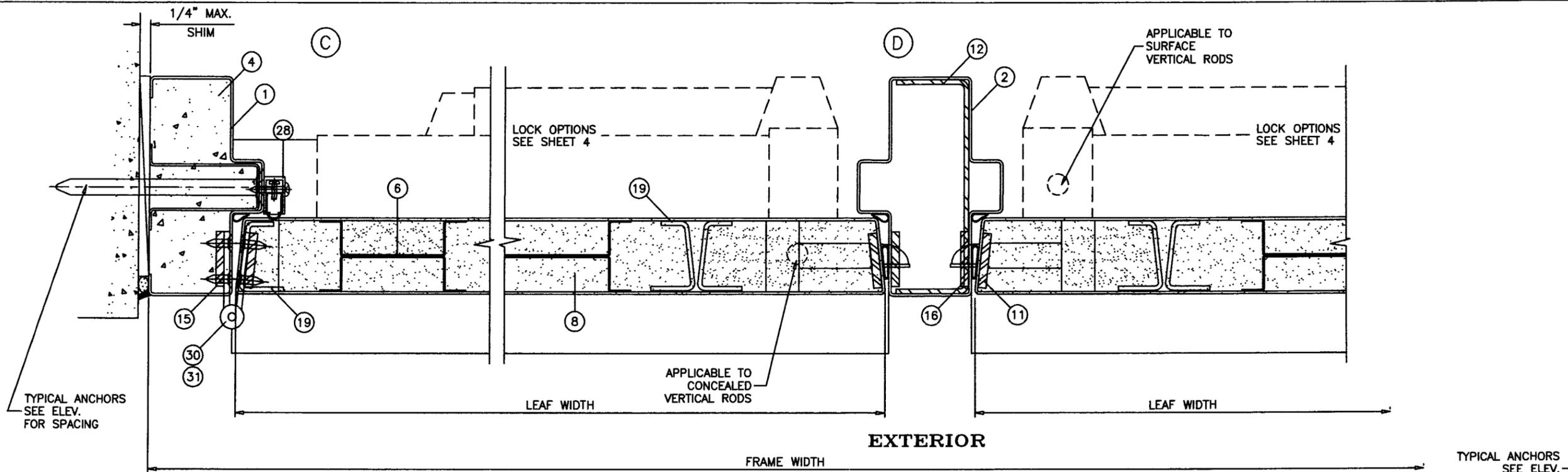
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B	04.27.05			
C	07.19.05			
D	03.15.06			

revisions:

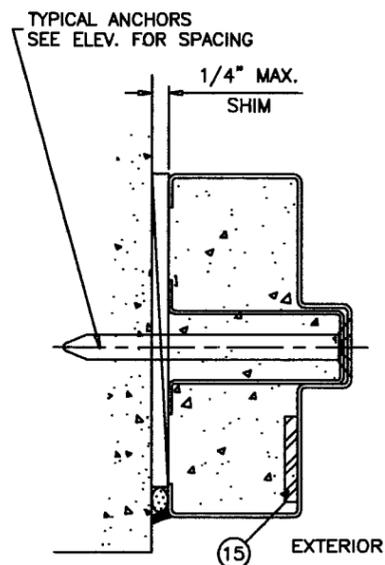
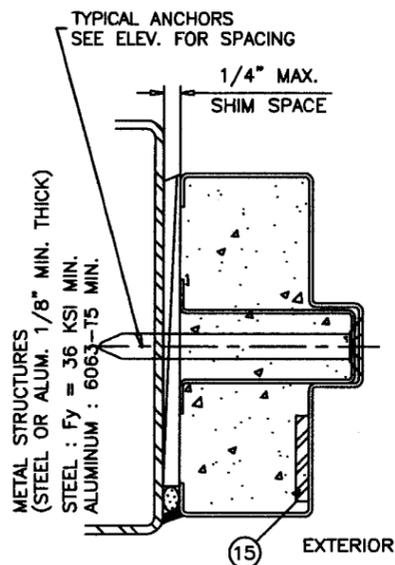
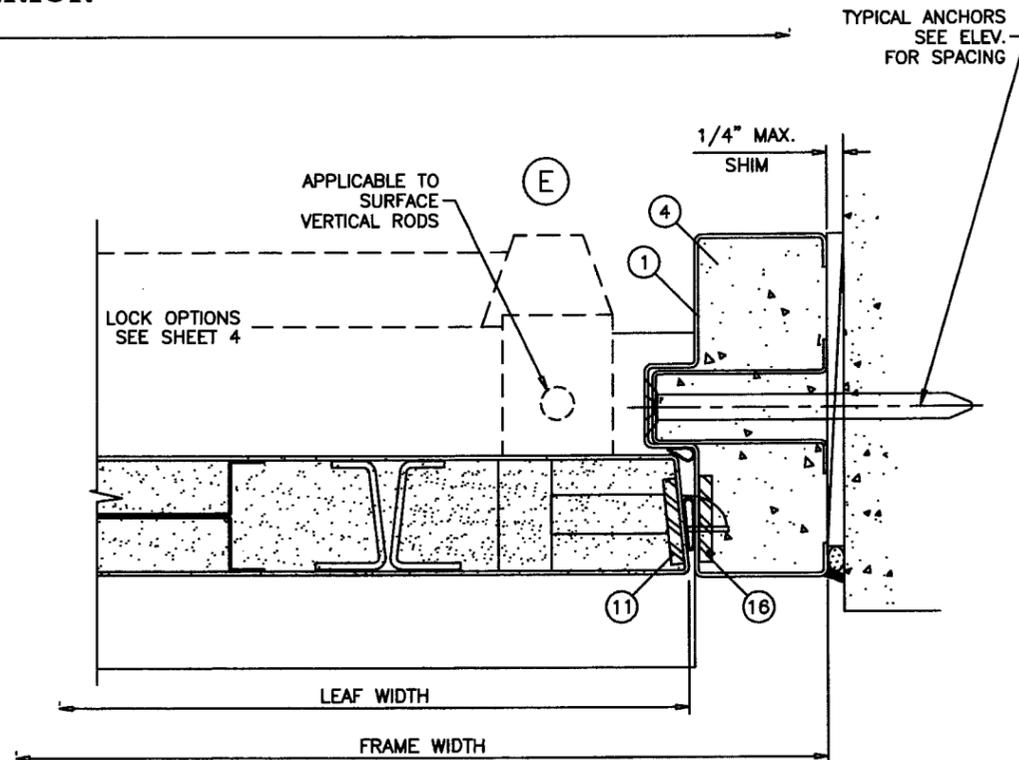
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scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W04-31

sheet 2 of 5



ALL JAMBS TO BE GROUT FILLED



Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 18557
 C.A.N. 3538

MAR 28 2006

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 05-1129.04
 Expiration Date JUNE 16, 2010

By Ismael I. Claudio
 Miami-Dade Product Control
 Division

AL-FAROOQ CORPORATION
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FIREDOOR
 FIREDOOR DIVISION OF
 ARK II MANUFACTURING, LLC
 1350 N.W. 74TH STREET
 MIAMI, FL. 33147
 TEL. (305) 691-1500 FAX (305) 836-4787

Revisions:

NO	DATE	BY	DESCRIPTION
A	03.21.05	REV. PER BCCO COMMENTS	
B	04.27.05	REV. PER BCCO COMMENTS	
C	07.19.05	NO CHANGE THIS SHEET	
D	03.15.06	REV. PER BCCO COMMENTS	

date: 04-05-04
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
 W04-31
 sheet 3 of 5

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COMP-ANL\W04-31FDC

HINGE OPTIONS:

OPTION #1:

Z 955 STAINLESS STEEL CAM LIFT HINGE
 AT 5" FROM FRAME TOP TO TOP OF FIRST HINGE
 AT 14-1/2" FROM BOTTOM TO TOP OF BOTTOM HINGE
 CENTER HINGE EQUALLY SPACED FROM TOP & BOTTOM HINGE

OPTION #2:

STEEL MORTISE HINGE 1279
 AT 5" FROM FRAME TOP TO TOP OF FIRST HINGE
 AT 14-1/2" FROM BOTTOM TO TOP OF BOTTOM HINGE
 CENTER HINGE EQUALLY SPACED FROM TOP & BOTTOM HINGE

LOCK OPTIONS:

OPTION #1:

THREE POINT LOCK SYSTEM WITH PANIC EXIT DEVICE
 AT 38" FROM BOTTOM TO CL OF PANIC DEVICE.
 'SECURITECH' 84T44-GGCF-IHD-VC-630
 SURFACE MOUNT LEVER TYPE HANDLE

4-7/8" LONG METALLIC STRIKE PLATES AT 38" FROM BOTTOM

OPTION #2:

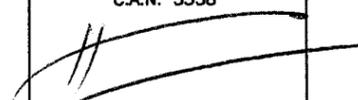
THREE POINT LOCK SYSTEM WITH VERTICAL ROD PANIC EXIT DEVICE
 AT 37-5/8" FROM BOTTOM TO CL OF LOCK FACE.
 'SECURITECH' 82T44-GGCF-SBO-HD-VC-630
 SURFACE MOUNT LEVER TYPE HANDLE

OPTION #3:

MORTISE LOCK SET, WITH KEY OPERATED LEVER HANDLE ON EXTERIOR
 #5411-IHD AT 38" FROM BOTTOM TO CL OF LOCK AND
 TWO POINT CONCEALED ROD SYSTEM, THUMB TURN KEY OPERATED ON
 INTERIOR # 52XXV-IHD AT 52-3/4" FROM BOTTOM TO CL OF LOCK FACE.

NOTE: TOP AND BOTTOM FLUSH BOLTS MUST BE
 ENGAGED DURING PERIODS OF HURRICANE WARNING.

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	AS REQD.	FRAME HEAD/JAMB	STEEL	16 GA. (.058") MIN. Fy = 41,000 PSI
2	-	AS REQD.	FRAME MULLION (OPTION)	STEEL	16 GA. (.058")
3	-	-	DOOR	STEEL	14 GA. (.067")
4	-	-	FRAME GROUT	CONC.	3000 PSI MIN.
5	-	AS REQD.	BOLT SPACER	STEEL	2" X 2 5/8" X 18 GA.
6	-	10/ DOOR	HAT STIFFENER IN PAIRS (5 ROWS VERTICAL)	STEEL	16 GA.
8	-	1	POLYSTYRENE CORE	-	APACHE PRODUCTS CO. W/ CURRENT NOA
9	2051AV	1	THRESHOLD	ALUMINUM	PEMCO
10	65A	1	THRESHOLD	ALUMINUM	ZERO INTERNATIONAL
11	-	1	LOCK REINFORCEMENT	STEEL	1 1/8" X 3 1/8" X 12 GA., ASTM A36
12	-	1/ MULLION	REINFORCING CHANNEL, FULL LENGTH	STEEL	1 3/4" X 5" X 1 3/4" X 12 GA.
13	-	1/ RAIL	TOP AND BOTTOM RAIL CHANNEL	STEEL	15/16 X 1-11/16 X 15/16 X 14 GA.
14	-	1/ RAIL	TOP AND BOTTOM RAIL CHANNEL	STEEL	5/8 X 1-1/2 X 5/8 X 14 GA.
15	-	3	HINGE REINFORCEMENT (FRAME/DOOR)	STEEL	1 1/4" X 10" X 3/16"
16	-	1	STRIKE REINFORCEMENT	STEEL	6-3/4" X 1-1/4" X 16 GA.
19	-	2/ DOOR	REINFORCING CHANNEL, FULL LENGTH	STEEL	1/2 X 1-5/8 X 7/8 X 12 GA.
23	188	1	HEAD/JAMB WEATHERSTRIP	VINYL	ZERO INTERNATIONAL
24	119WB	AS REQD.	HEAD W'STRIPPING	SPRING BRONZE	SELF ADHESIVE, ZERO
25	328R	1/ DOOR	DOOR SWEEP	-	-
26	142A	1	WATER SHADE	ALUMINUM	ZERO INTERNATIONAL
27	39A	1	SILL PROTECTION	NEOPRENE	-
28	870	-	HEAD/JAMB W'STRIPPING	-	-
30	Z955	3/ DOOR	CAM LIFT HINGES	ST. STEEL	ZERO INTERNATIONAL
31	1279	3/ DOOR	MORTISE HINGES	ST. STEEL	HAGER

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

 MAR 28 2006

PRODUCT RENEWED
 as complying with the Florida
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 Expiration Date: JUNE 16, 2010
 By: Isaac Khand
 Miami Beach Product Control
 Division

afc

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SERIES-8080F-HR OUT-SWING STEEL ENTRANCE DOOR

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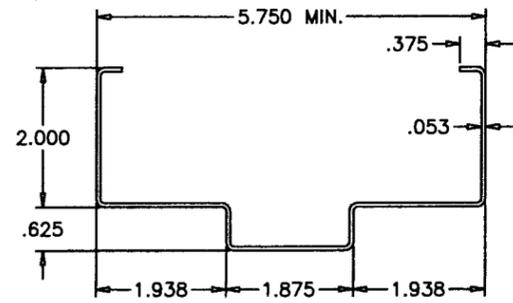
FIREDOOR

no	date	by	description
A	03.21.05	REV. PER BCCO COMMENTS	
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C	07.19.05	NO CHANGE THIS SHEET	
D	03.15.06	REV. PER BCCO COMMENTS	

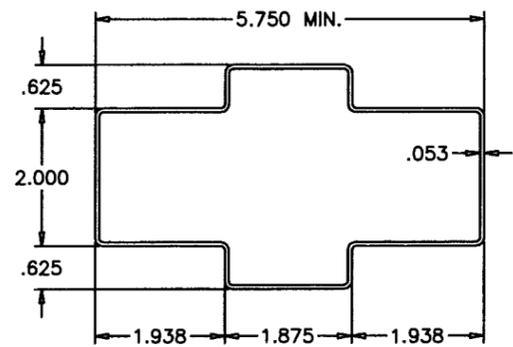
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drawing no.
W04-31

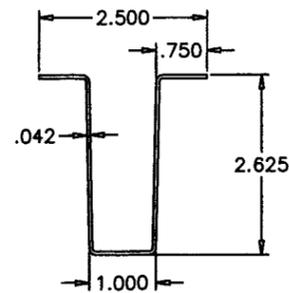
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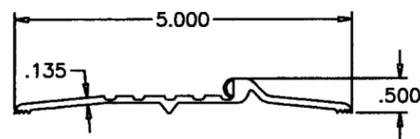
① FRAME HEAD/JAMB



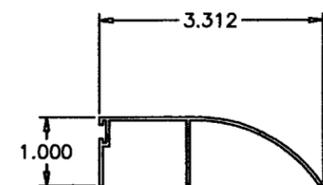
② FRAME MULLION



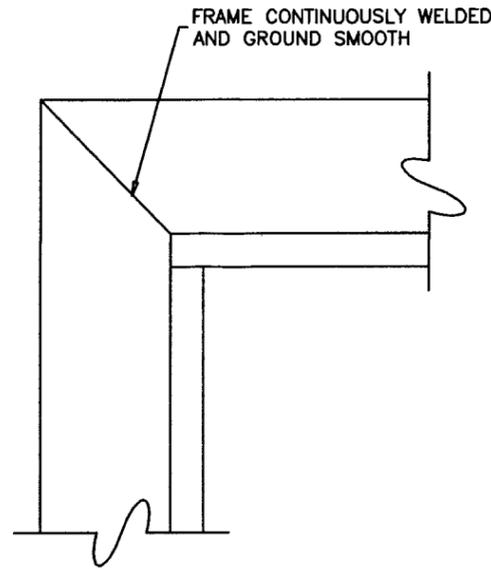
⑤ ANCHOR SPACER



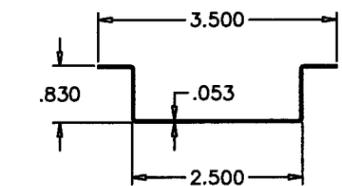
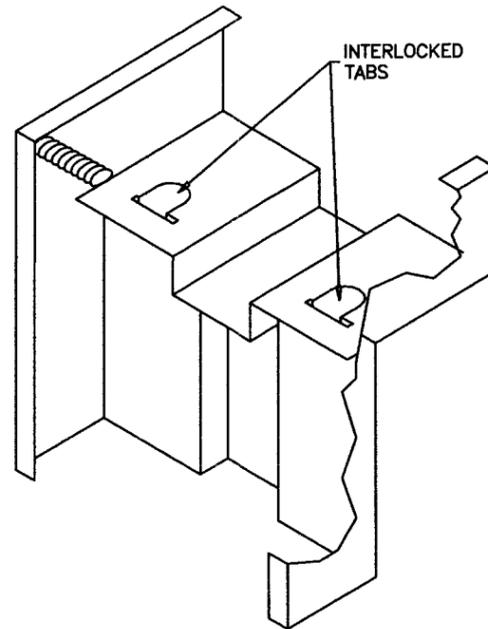
⑩ BUMPER THRESHOLD



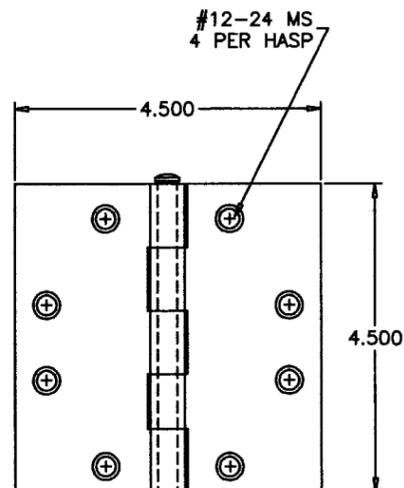
⑨ .134" THICK STEEL HINGE



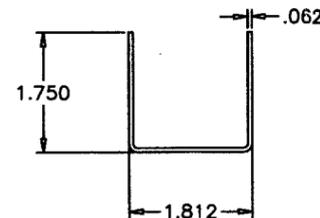
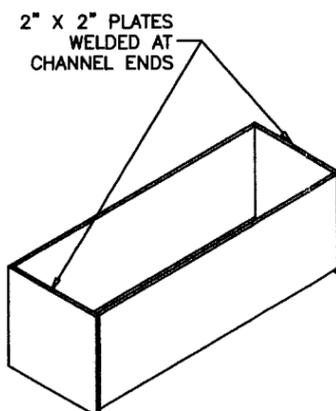
FRAME CORNERS



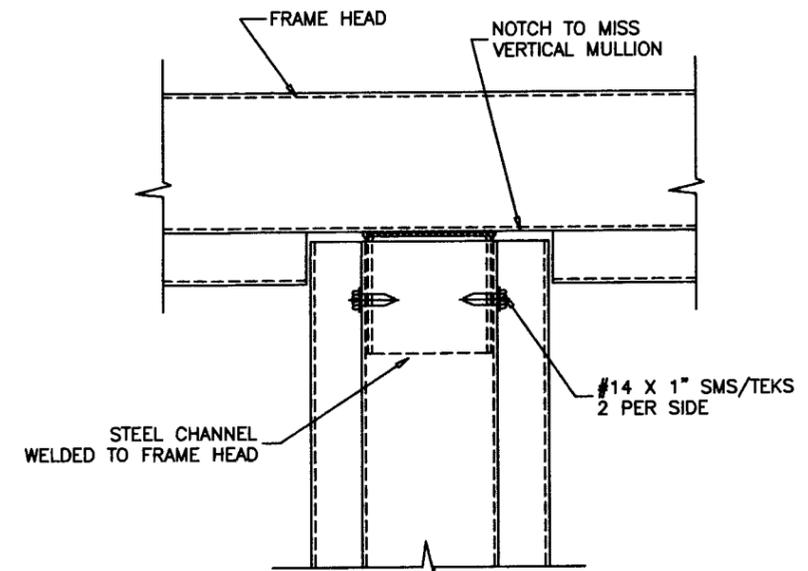
⑥ HAT CHANNEL REINFORCING



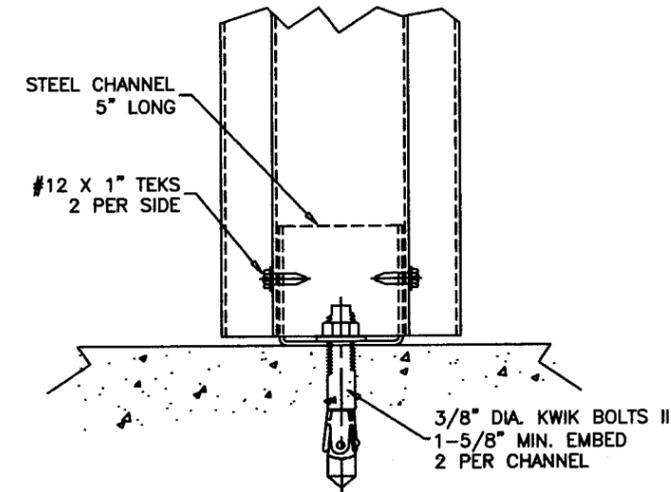
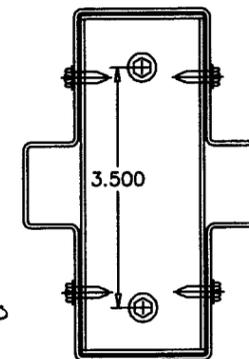
VERT. MULLION INSTALLATION CHANNEL



VERT. MULLION INSTALLATION CHANNEL



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 05-1129.04
 Expiration Date JUNE 16, 2010
 By Ishag I. Chande
 Miami Code Product Control
 Division



VERTICAL MULLION CONNECTION

Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

MAR 28 2006

afc

AL-FAROOQ CORPORATION
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 COMP-ANL\W04-31FDC

SERIES-8080F-HR OUT-SWING STEEL ENTRANCE DOOR
FIREDOOR DIVISION OF
ARK II MANUFACTURING, LLC
 1350 N.W. 74TH STREET
 MIAMI, FL. 33147
 TEL. (305) 681-1500 FAX (305) 838-4797

no	date	by	description
A	03.21.05	REV. PER BCCO COMMENTS	
B	04.27.05	REV. PER BCCO COMMENTS	
C	07.19.05	NO CHANGE THIS SHEET	
D	03.15.06	REV. PER BCCO COMMENTS	

date: 04-05-04
 scale: 3/8" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
 W04-31

sheet 5 of 5