



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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/economy

E.S. Windows, LLC
10653 NE Quaybridge Ct.
Miami, FL 33138

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 PERA -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. PERA 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 9000 Aluminum Outswing French Door w/ wo Transom-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W08-66 Rev L**, titled "Series- 9000 Alum Outswing French Door (L.M.I.)", sheets 1 through 18 of 18, dated 07-14-08 and last revised on JUL 27, 2018, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, 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 Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

1. See sheets **2** thru **6** for Design Pressure charts for Single and/or Double door w/wo transom, glass, threshold type, lock type, hinges type and head, sill and jambs anchors. Lower Design Pressure shall apply to the entire assembly.
2. The Single Door w/ Transom is limited to Max. Design Pressure $DP = \pm 90 \text{ PSF}$ & Saddle threshold $= \pm 80 \text{ PSF}$.
3. Only Single Door w/ High Threshold option item **E-2B** (part # ES-9026) is rated for external Positive **+120 PSF**, Water Resistant Rating, all other thresholds are not rated for water Resistant Ratings (See sheets **8** & **9**).
4. When doors are mulled to ES 8000 or 9500 series separate Storefront System NOA(s), lower design pressure of doors w/wo transom or storefront shall control for entire system, AHJ to review tributary end load and installations.

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 **revises & renews** NOA # **15-0602.09** and consists of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

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



NOA No. 18-0319.09
Expiration Date: December 24, 2023
Approval Date: August 09, 2018
Page 1

8/21/18

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files # below)
2. Drawing No. **W08-66 Rev G**, titled "Series- 9000 Alum Outswing French Door (L.M.I.)", sheets 1 through 10.1 of 10.1, dated 07-14-08 and last revised on FEB 27, 2012, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under file #12-0306.07 / #10-0301.03)

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(Not performed)
 - 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 an Alum. Outswing Entrance Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5554**, dated 05/10/08, signed and sealed by Carlos S. Rionda, P.E.

2. Test reports on: 1) Uniform Static Air Pressure Test,
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings of an Alum. Outswing Entrance Door, prepared by FTL, Inc., Test Report No. **FTL-5556**, dtd 04/27/08, signed and sealed by Carlos S. Rionda, P.E.

3. Additional Test reports along with marked-up Dwg. of a single (X) aluminum outswing door per TAS 201, 202 (Full) and 203-94, issued by Fenestration Testing lab, Inc., Test Report No. **FTL-5992**, dtd 09/09/09, reissued on 2/2/11 signed & sealed by Marlin D. Brinson, P. E.

C. CALCULATIONS

1. Anchor verification calculations & structural analysis, complying with FBC-2014, prepared by Al-Farooq Corp., dated 05/29/15 and last revised on 03/14/16, signed & sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02 -04 & -09.

D. QUALITY ASSURANCE

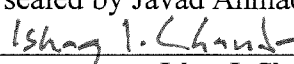
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11**, issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass ® interlayer", expiring on 01/14/17.
2. Notice of Acceptance No. **14-0916.10**, issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite PVB, Interlayer", expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/06/16, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0319.09
Expiration Date: December 24, 2023
Approval Date: August 09, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. This NOA **revises** NOA # **13-0617.29**, expiring 12/24/18.
2. Distribution agreement ES Windows-Energia Solar, S.A. and ES Windows, LLC, dated 10/20/10, signed by Ms. Carla G. Torrente and Andres Chamorro respectively.
3. Test proposals # **07-4070 & 09-0165**, approved by BCCO.

2. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W08-66 Rev L**, titled "Series- 9000 Alum Outswing French Door (L.M.I.)", sheets 1 through 18 of 18, dated 07-14-08 and last revised on JUL 27, 2018, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Revised)

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(Not performed)
 - 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 X & XX Alum. Outswing Entrance Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7242**, dated 05/03/13, signed and sealed by Idalmis Ortega, P.E.

(This test report revised and issued by Fenestration testing on 05/21/18, signed and sealed by Idalmis Ortega, P.E.)

2. Test reports on: 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(Not performed)
 - 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

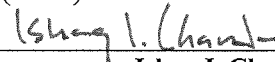
Along with marked-up drawings of X and XX Alum. Outswing Entrance Door, prepared by Blackwater Testing Inc., Test Report No. **BT-ESW-17-020**, dated 06/14/178, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS

1. Anchor verification calculations & structural analysis, complying with FBC 2017 (6th edition), prepared by Al-Farooq Corp., dated 03/16/18 and last revised on 07/27/18, signed & sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0319.09

Expiration Date: December 24, 2023
Approval Date: August 09, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/23.
2. Notice of Acceptance No. **16-117.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc. for the “Kuraray Trofossil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)”, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (6th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 02/21/18, signed and sealed by Javad Ahmad, P.E.
2. Distribution agreement between ES Windows, LLC (distributor) and Energia Solar, S.A, (manufacturer, dated 08/01/18, signed by MS. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively.

G. OTHER

1. This NOA **revises & renews NOA # 15-0602.09**, expiring 12/24/23.
2. Test proposal dated 12/20/12 approved by Jaime D. Gascon, P.E.
3. Reference PLA files # 18-0314.07 (Mr. Glass Doors & windows) and #18-0412.05 (Sunshine Windows)



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0319.09

Expiration Date: December 24, 2023
Approval Date: August 09, 2018

SERIES 9000

ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DOUBLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEET 5 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS WITH ADDITIONAL OPTIONS.

SEE SHEET 6 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITHOUT TRANSOMS WITH HIGHER LOAD CAPACITY.

DOORS CAN ALSO BE USED WITH E.S. WINDOWS SERIES 8000 OR SERIES 9500 STOREFRONT SYSTEMS UNDER SEPARATE NOA. DOOR MULLION ATTACHMENT, END LOAD AND CAPACITY TO BE REVIEWED BY BUILDING OFFICIAL.

DOUBLE DOORS WITH STANDARD, SADDLE AND HIGH THRESHOLD AND SINGLE DOORS WITH STANDARD AND SADDLE THRESHOLD ARE NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SINGLE DOORS USING ES-9026 (HIGH THRESHOLD OPTION) ARE APPROVED FOR WATER INFILTRATION RESISTANCE. SEE SHEETS 8 & 18 FOR DETAILS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.250" (STD. THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.625" (SADDLE THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.750" (HIGH THRESHOLD)
D.L.O. WIDTH (DOOR) = FRAME WIDTH - 14.0625"

D.L.O. HEIGHT (TRANSOM) = FRAME HEIGHT - 5.125"
D.L.O. WIDTH (TRANSOM) = FRAME WIDTH - 7"

LEAF HEIGHT = FRAME HEIGHT - 2.938" (STD. THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.563" (SADDLE THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.438" (HIGH THRESHOLD)
LEAF WIDTH = FRAME WIDTH - 5.188"

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

PRODUCT REVISION
as complying with the Florida
Building Code
Acceptance No. 18-0319-09
Expiration Date DEC 24, 2023
Isham L. Haul
Aluminum Door Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description
H	05.05.15				UPDATED TO 2014 FBC
I	01.13.16				REV. PER RER COMMENTS
J	03.08.16				REV. PER RER COMMENTS
K	02.22.18				GENERAL REVISION
L	05.22.18				REV. PER RER COMMENTS

date: 07-14-08
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W08-66

sheet 1 of 18

COMP-ANL\W08-66ESW

**SINGLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE**

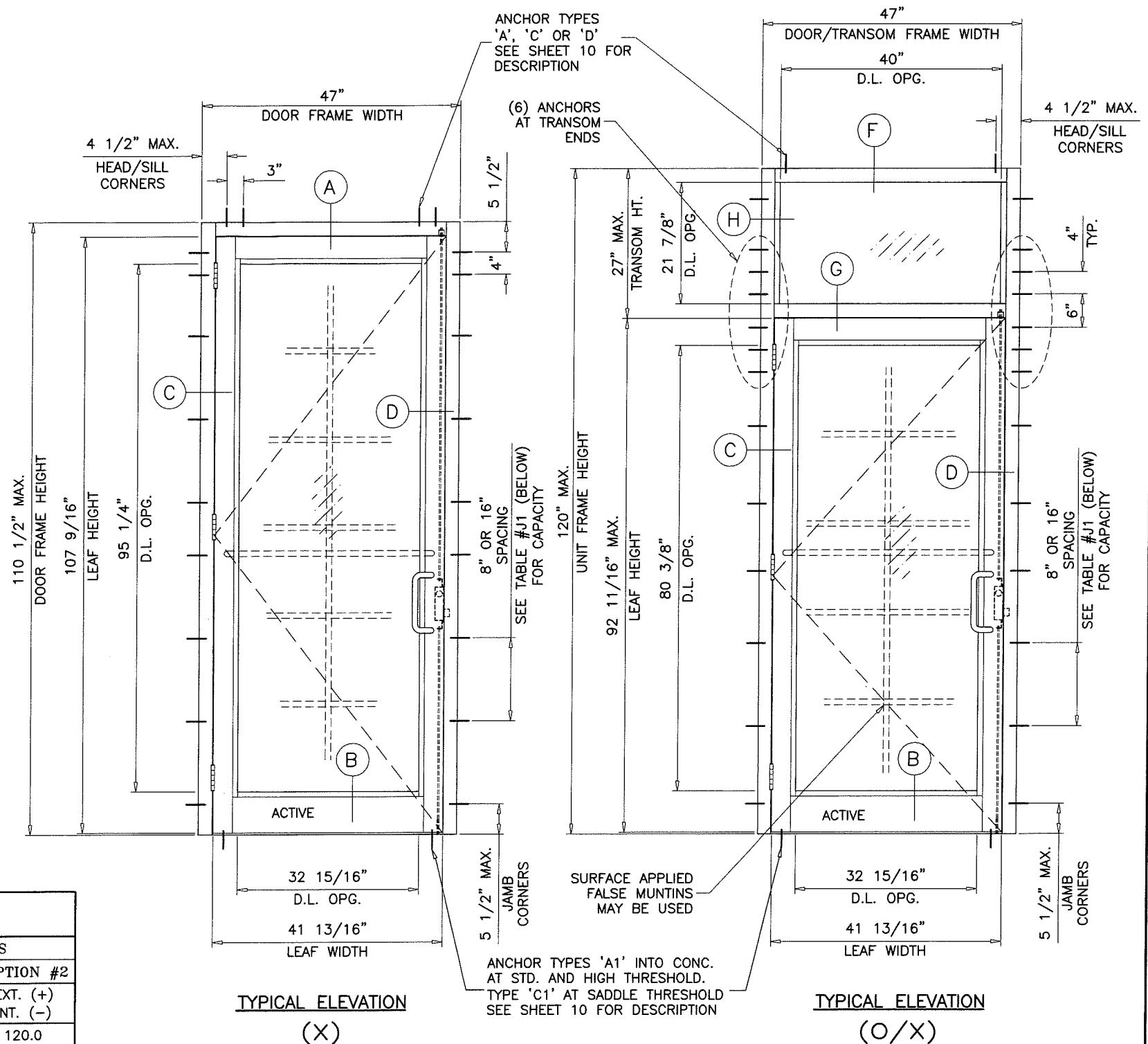
- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D1.
- SELECT THRESHOLD TYPE TO BE USED.
WATER RATED HIGH THRESHOLD ITEM #E2B (ES-9026) +120.0 PSF
NON WATER RATED (STD. THRESHOLD +90.0 PSF)
NON WATER RATED (SADDLE THRESHOLD +80.0 PSF)
- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J1.
- TRANSOMS FOR SINGLE DOORS ARE LIMITED TO ±90.0 PSF *
SEE ELEVATION AT RIGHT FOR TRANSOM END ANCHORS.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

TABLE #D1 DOORS LOAD CAPACITY - PSF SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)								
DOOR DIMS.		GLASS		LOCKS			HINGES	
		TYPE 'A'	TYPE 'B'/'C'	OPTION #1	OPTION #2	OPTION #3	OPTION #1	OPTION #2
FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
47"	98-1/2"	80.0	120.0	80.0	90.0	120.0	80.0	120.0
47"	110-1/2"	80.0	120.0	80.0	90.0	120.0	80.0	120.0

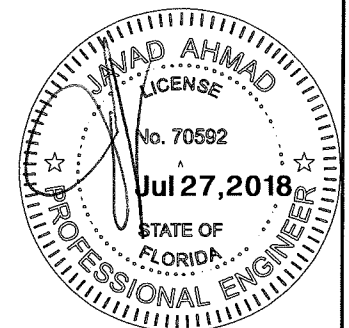
SINGLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF
SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J1		JAMB ANCHORS LOAD CAPACITY – PSF (NOT APPLICABLE AT TRANSOM ENDS SEE NOTE 4) SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)													
DOOR DIMS.		1/4" SHIM SPACE						3/8" SHIM SPACE				1/2" SHIM SPACE			
		SPACING AT 16" O.C.			SPACING AT 8" O.C.			AT 16" O.C.		AT 8" O.C.		AT 16" O.C.		AT 8" O.C.	
		ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'
FRAME WIDTH	FRAME HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
40"	110–1/2"	112.5	120.0	120.0	120.0	120.0	120.0	90.5	117.4	120.0	120.0	70.2	92.7	120.0	120.0
47"	110–1/2"	95.7	111.0	120.0	120.0	120.0	120.0	77.0	100.0	120.0	120.0	59.7	78.9	120.0	120.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0319-07
Expiration Date 12/24/23
Ismael J. Chaves
Ismael J. Chaves Product Control



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL W08-66ESW

SERIES-9000 ALUM. OUTSWING FRENCH DOOR (L.M.I.)

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no	date	by	description
H	05.05.15		UPDATED TO 2014 FBC
I	01.13.16		REV. PER RER COMMENTS
J	03.08.16		REV. PER RER COMMENTS
K	02.22.18		GENERAL REVISION
L	05.22.18		REV. PER RER COMMENTS

date: 07-14-08

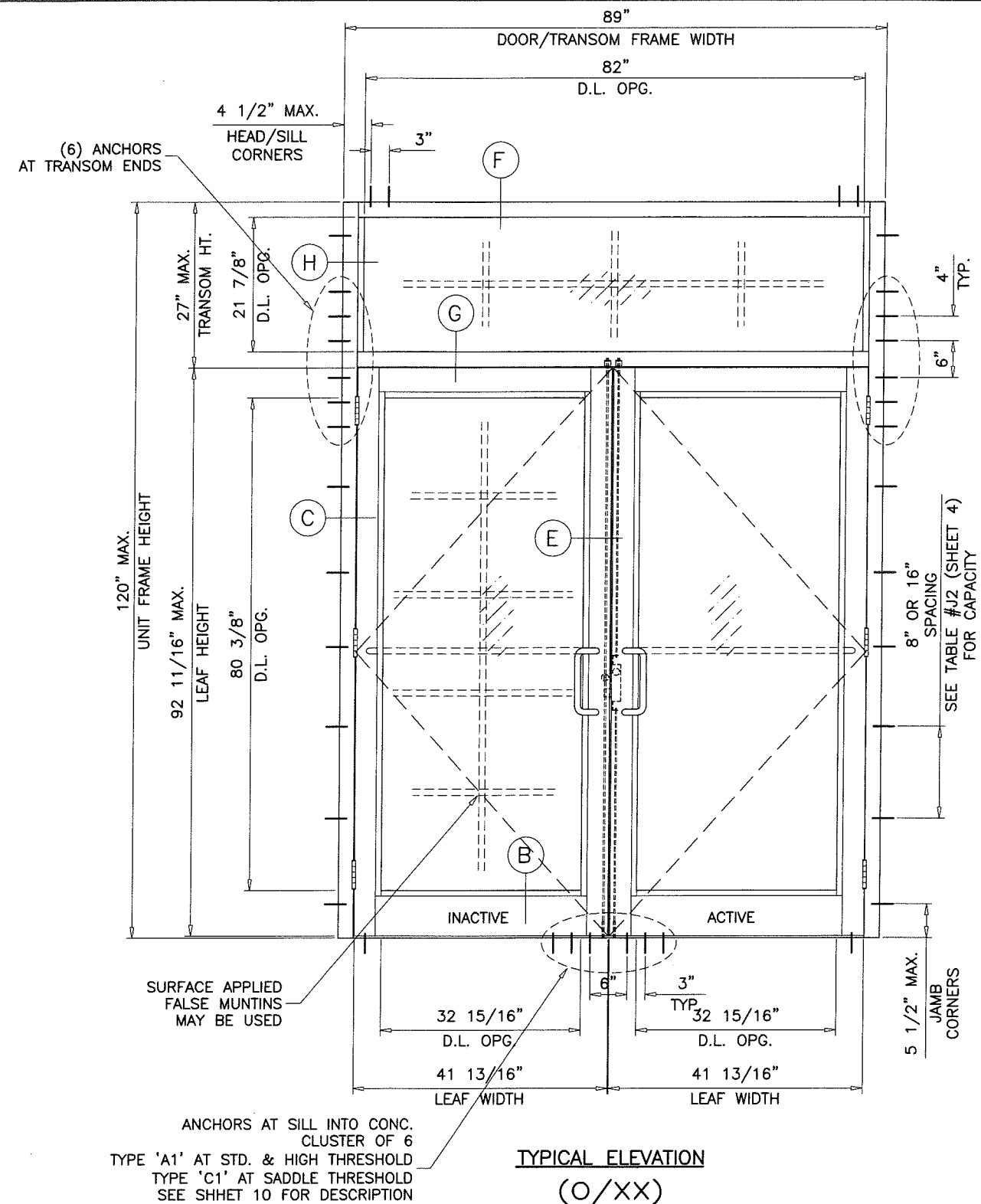
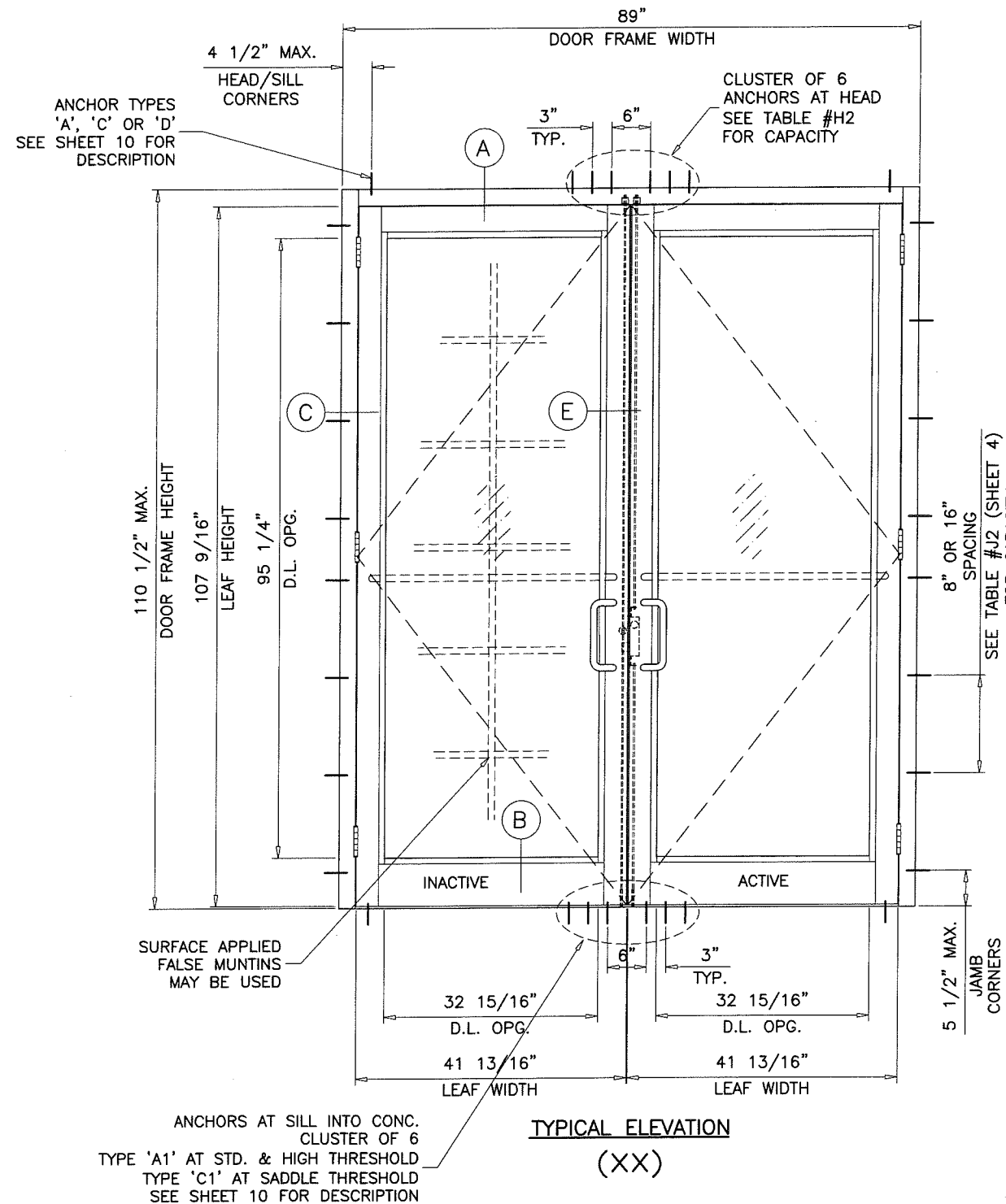
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dr. by: TARIQ

chk. by:

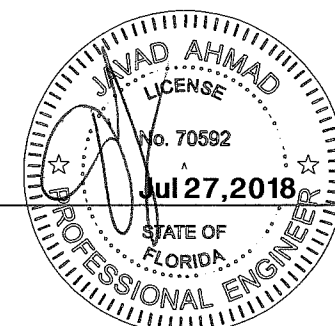
drawing no. **W08-66**

sheet 2 of 18



SEE CHARTS ON SHEET 4 FOR DOUBLE DOOR AND TRANSOM LOAD CAPACITY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/23
by: Shahid I. Khan
Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
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no	date	by	description
H	05.05.15		UPDATED TO 2014 FBC
I	01.13.16		REV. PER RER COMMENTS
J	03.08.16		NO CHANGE THIS SHEET
K	02.22.18		GENERAL REVISION
L	05.22.18		REV. PER RER COMMENTS

date: 07-14-08
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W08-66
sheet 3 of 18

DOUBLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D2.
- 2- SELECT THRESHOLD TYPE TO BE USED.
NON WATER RATED FOR DOUBLE DOORS
(STANDARD, SADDLE OR HIGH THRESHOLD)
- 3- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J2.
SEE ELEVATION ON SHEET 3 FOR TRANSOM END ANCHORS.
(MIN. 6 ANCHORS REQD. IN ALL CASES)
- 4- FOR HEAD ANCHORS, TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #H2.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

TABLE #D2		DOORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (0/XX)						
DOOR DIMS.		GLASS		LOCKS			HINGES	
		TYPE 'A'	TYPE 'B'/'C'	OPTION #1	OPTION #2	OPTION #3	OPTION #1	OPTION #2
FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
89"	98-1/2"	80.0	90.0	80.0	90.0	90.0	80.0	90.0
89"	110-1/2"	80.0	80.0	80.0	80.0	80.0	80.0	90.0

DOUBLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF
SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J2		JAMB ANCHORS LOAD CAPACITY - PSF (NOT APPLICABLE AT TRANSOM ENDS SEE NOTE 3) DOUBLE DOORS WITHOUT TRANSOM (XX) OR WITH TRANSOM (0/XX)													
DOOR DIMS.		1/4" SHIM SPACE						3/8" SHIM SPACE				1/2" SHIM SPACE			
		SPACING AT 16" O.C.		SPACING AT 8" O.C.		AT 16" O.C.		AT 8" O.C.		AT 16" O.C.		AT 8" O.C.			
		ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'
FRAME WIDTH	FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
75"	110-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	74.9	90.0	90.0	90.0
89"	110-1/2"	90.0	88.7	90.0	90.0	90.0	90.0	81.3	88.7	90.0	90.0	63.1	83.3	90.0	90.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

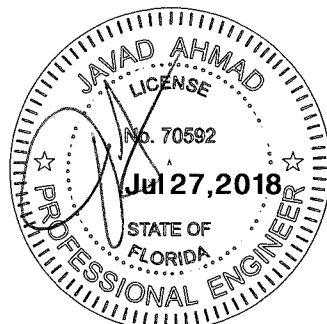
TABLE #H2		HEAD ANCHORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (0/XX)							
DOOR DIMS.		1/4" SHIM SPACE			3/8" SHIM SPACE		1/2" SHIM SPACE		
		ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'D'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'C'
FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
75"	98-1/2"	90.0	90.0	90.0	90.0	90.0	73.0	90.0	
89"		90.0	90.0	90.0	79.2	90.0	61.5	81.2	
75"	110-1/2"	90.0	90.0	90.0	83.8	90.0	65.1	85.9	
89"		90.0	90.0	90.0	70.6	90.0	54.8	72.3	

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = $\pm$ 90.0 PSF (STD. & HIGH THRESHOLDS)
 $\pm$ 80.0 PSF (SADDLE THRESHOLD)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0319-09
Expiration Date 12/24/23
Javad Ahmad
Product Control



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)
COMP-ANL W08-66ESW

SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description
H	05.05.15	1	01.13.16	REV. PER RER COMMENTS	UPDATED TO 2014 FBC
	03.08.16	2	03.08.16	NO CHANGE THIS SHEET	
	02.22.18	3	02.22.18	GENERAL REVISION	
	05.22.18	4	05.22.18	REV. PER RER COMMENTS	

date: 07-14-08
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W08-66
sheet 4 of 18

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D3.
- 2- THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.
- 3- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J3.
- 4- FOR HEAD ANCHORS, TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #H3.

THE LOWEST VALUES FROM STEPS 1, 3 AND 4
WILL GOVERN.

TABLE #D3		DOORS LOAD CAPACITY - PSF SINGLE(X) OR DOUBLE(XX) DOORS WITHOUT TRANSOM				
SINGLE DOOR(X) DIMS.		DOUBLE DOOR(XX) DIMS.		GLASS	LOCKS	HINGES
				TYPE 'A.1'	OPTION #3	OPTION #2.1
FRAME WIDTH	FRAME HEIGHT	FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)		
40-1/4"	99"	75-1/2"	99"	105.3		

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

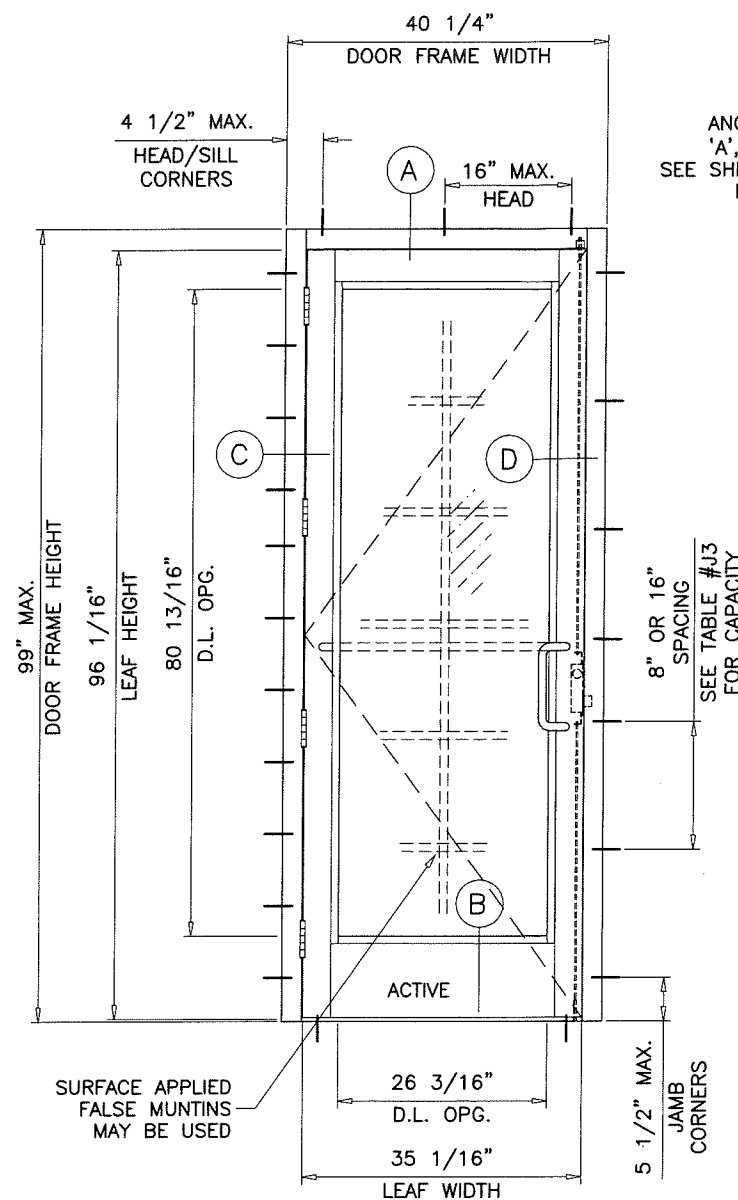
TABLE #J3		JAMB ANCHORS LOAD CAPACITY – PSF SINGLE(X) DOUBLE(XX) DOORS WITHOUT TRANSOM										
SINGLE DOOR(X) DIMS.		DOUBLE DOOR(XX) DIMS.		1/4" SHIM SPACE	3/8" SHIM SPACE		1/2" SHIM SPACE					
				SPACING AT 16" O.C.	AT 16"		AT 8" O.C.		AT 16"		AT 8" O.C.	
				ANCHOR 'A', 'C' & 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'		ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'	
FRAME WIDTH	FRAME HEIGHT	FRAME WIDTH	FRAME HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)		
40–1/4"	99"	75–1/2"	99"	105.3	89.9	105.3	105.3	69.8	92.1	105.3		

SEE SHEET 10 FOR ANCHOR DESCRIPTION

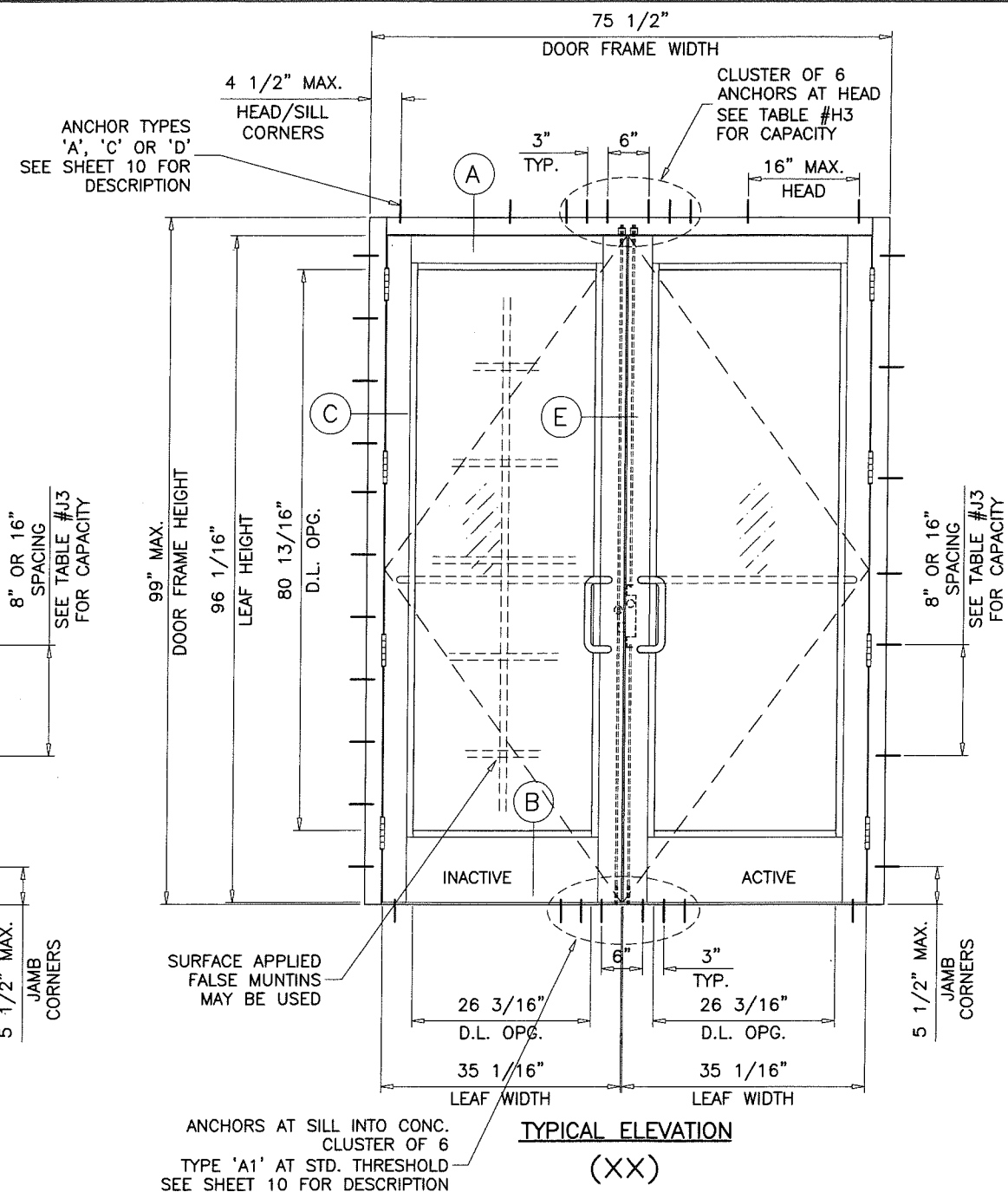
TABLE #H3		HEAD ANCHORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM(XX)				
DOOR DIMS.		1/4" SHIM SPACE	3/8" SHIM SPACE		1/2" SHIM SPACE	
		ANCHOR 'A', 'C' & 'D'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'
FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
75-1/2"	99"	105.3	105.3	105.3	84.1	105.3

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = ± 105.3 PSF (STD. THRESHOLD)



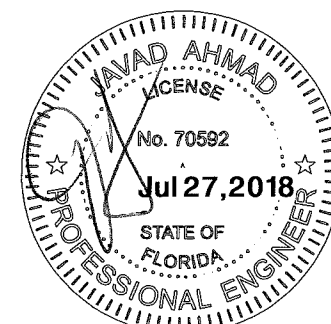
TYPICAL ELEVATION
(X)



TYPICAL ELEVATION
(XX)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/73
by L. Sherry L. Chan
Florida State Product Council



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

drawing no.	
W08-66	
sheet 5 of 18	
date: 07-14-08	revisions:
scale: 1/2"=1'-0"	
dr. by: TARIQ	
chk. by:	
	no date by description
	K 02.22.18 GENERAL REVISION
	L 05.22.18 REV. PER RER COMMENTS

- FOR GLASS TYPE, LOCK AND HINGE OPTIONS OBTAIN LOAD CAPACITIES FROM TABLES #D4.
- THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.
- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN LOAD CAPACITIES FROM TABLE #J4.

40" DOOR FRAME WIDTH

4 1/2" MAX. HEAD/SILL CORNERS

ANCHOR TYPES 'A', 'C' OR 'D' SEE SHEET 10 FOR DESCRIPTION

16" MAX. HEAD

96" MAX. DOOR FRAME HEIGHT

93 1/16" LEAF HEIGHT

80 3/4" D.L. OPG.

(C)

(D)

(B)

ACTIVE

25 15/16" D.L. OPG.

34 13/16" LEAF WIDTH

5 1/2" MAX. JAMB CORNERS

8" OR 16" SPACING

SEE TABLE #J4 FOR CAPACITY

SURFACE APPLIED FALSE MUNTINS MAY BE USED

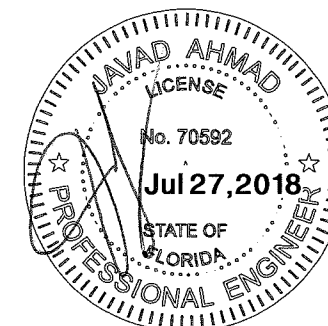
DOORS WITH SERIES-9500 FRAMES ONLY.

TABLE #D4		DOORS LOAD CAPACITY - PSF SINGLE(X) DOORS WITHOUT TRANSOM					
SINGLE DOOR(X) DIMS.		GLASS		LOCKS		HINGES	
		TYPE 'B.1'		OPTION #3		OPTION #2	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
40"	96"	120.0	130.0	120.0	130.0	120.0	130.0

TABLE #J4		JAMB ANCHORS LOAD CAPACITY - PSF SINGLE(X) DOORS WITHOUT TRANSOM											
SINGLE DOOR(X) DIMS.		1/4" SHIM SPACE				3/8" SHIM SPACE			1/2" SHIM SPACE				
		AT 16" O.C.			SPACING AT 8" O.C.	AT 16"		AT 8" O.C.	AT 16"		AT 8" O.C.		
		ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A', 'C' & 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
40"	96"	112.5	130.0	130.0	130.0	90.5	117.5	130.0	70.2	92.7	130.0	130.0	

SILL ANCHORS DESIGN LOAD CAPACITY = ± 130.0 PSF (STD. THRESHOLD)

PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/23
W. B. King, Jr.
Florida Building Product Council



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

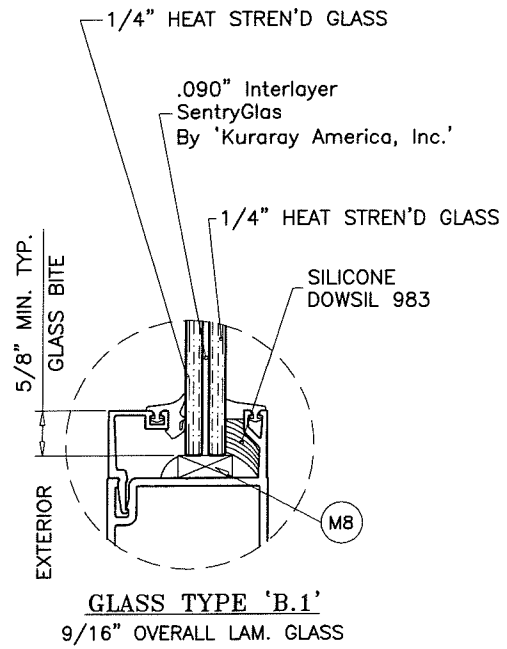
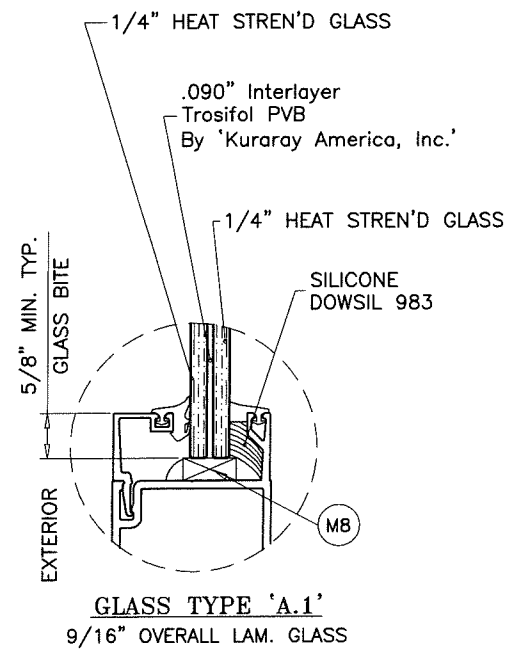
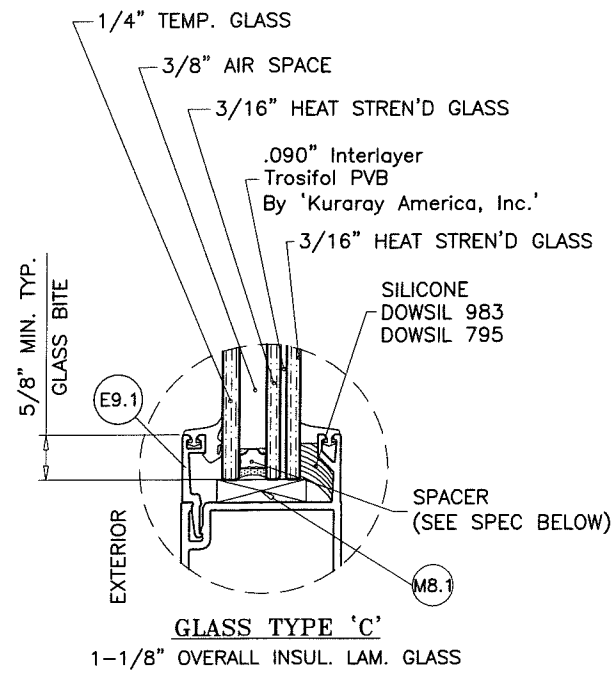
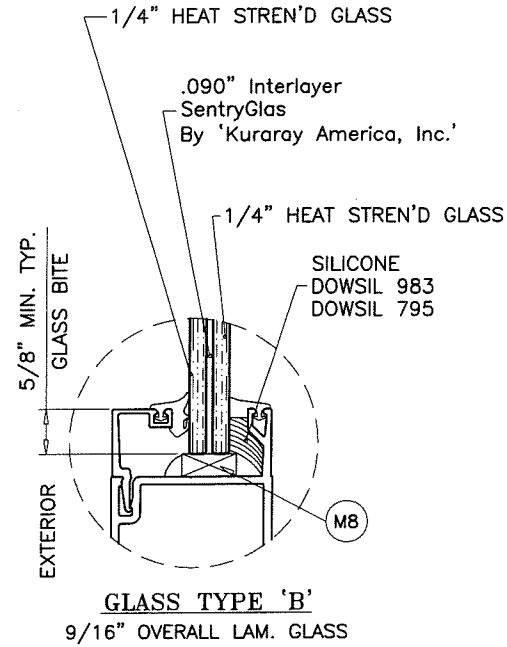
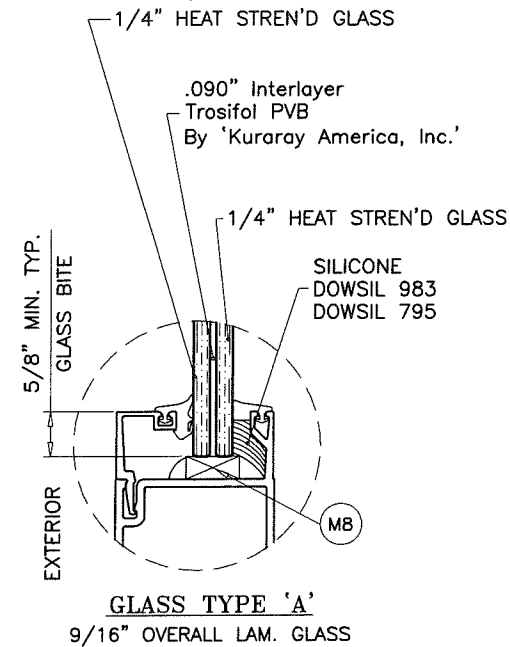
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

<u>revisions:</u>					
	no	date	by	description	
	K	02.22.18		GENERAL REVISION	
	L	05.22.18		REV. PER RER COMMENTS	

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scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W08-66

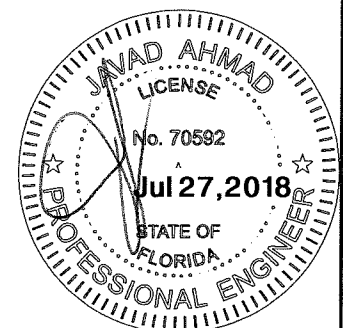
sheet 6 of 18



GLAZING OPTIONS

3/8" AIR SPACE CONSISTING OF:
SPACER:
 'HELIMA' LOW PROFILE ALUMINUM SPACER
 BY 'LINGERMANN GMBH'
 AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
 SILICONE
 DOWSIL 791
 GE 2000

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 18-0319.09
 Expiration Date 12/24/23
[Signature]
 Javad Ahmad, Product Control



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978

COMP - ANL \ W08 - 66ESW

SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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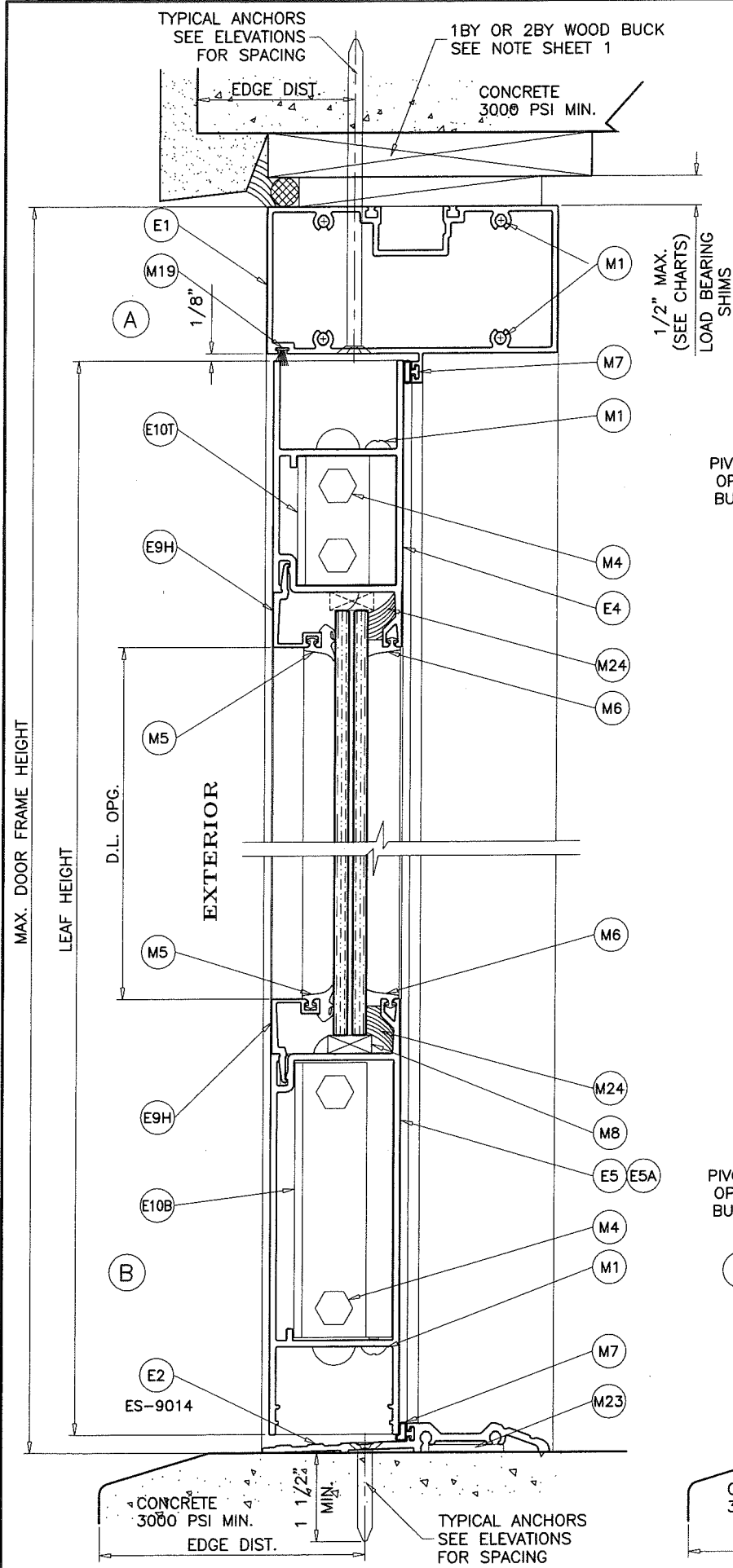
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 chk. by:

no	date	by	description
H	05.05.15		UPDATED TO 2014 FBC
I	01.13.16		REV. PER PER COMMENTS
J	03.08.16		REV. PER PER COMMENTS
K	02.22.18		GENERAL REVISION
L	05.22.18		REV. PER PER COMMENTS

drawing no.
W08-66

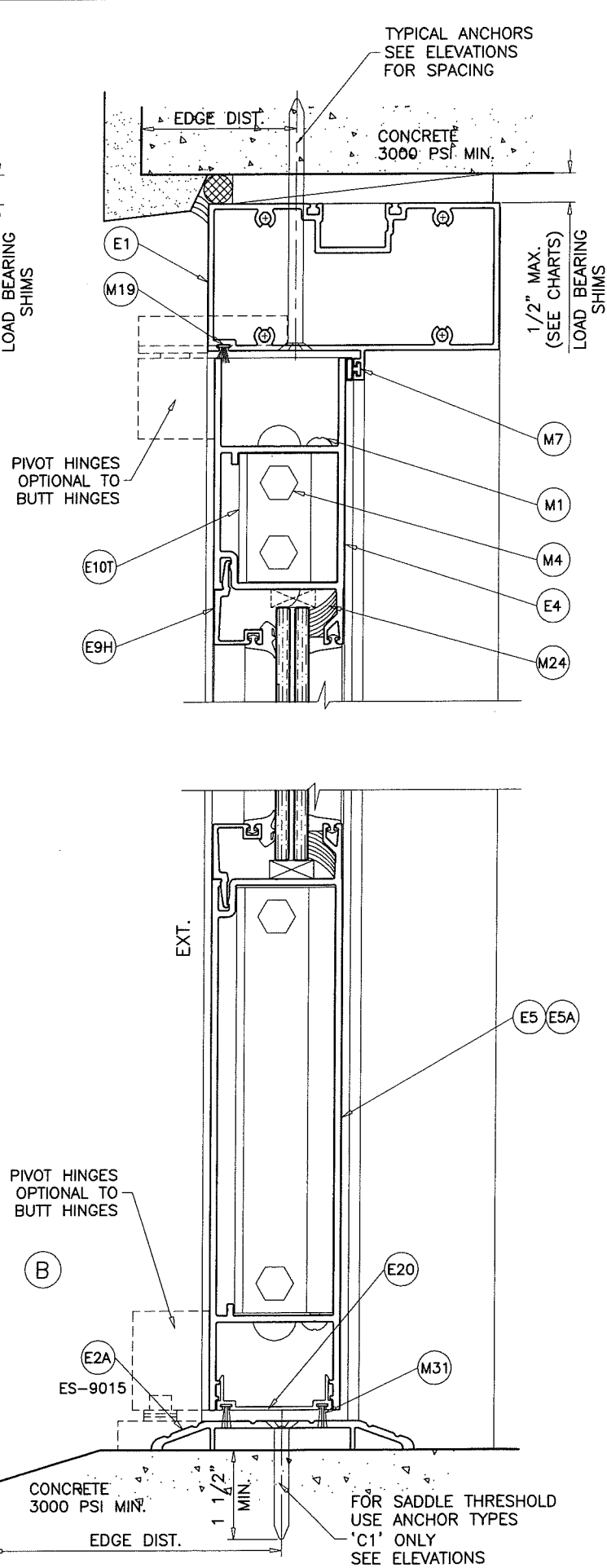
sheet 7 of 18

date: 07-14-08
 scale: 3/8" = 1"
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 chk. by:



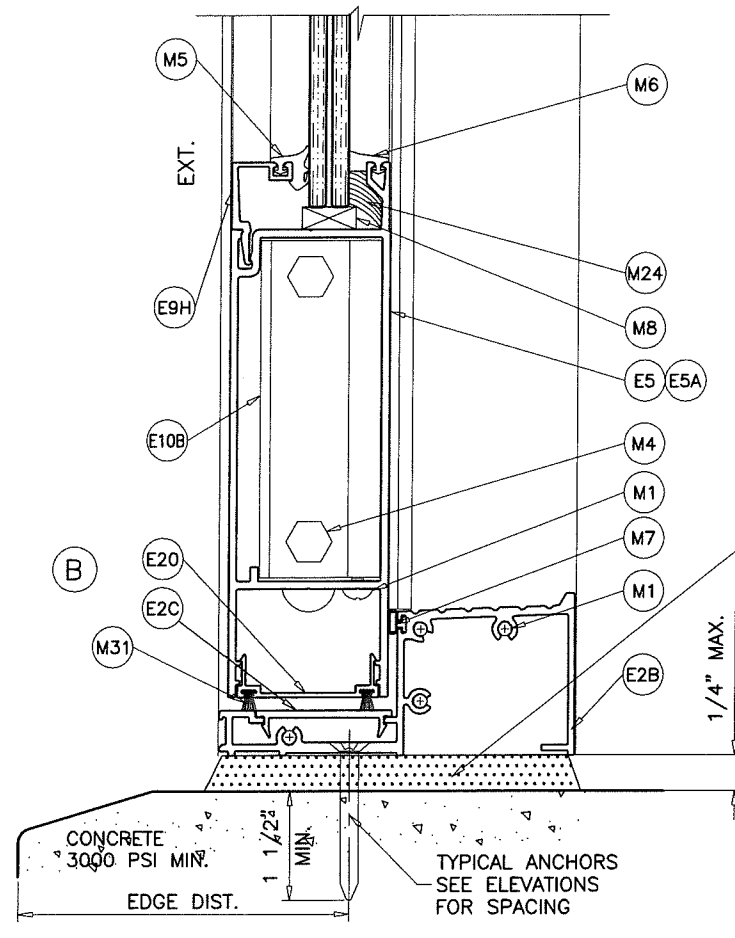
STANDARD THRESHOLD

NOT APPROVED FOR WATER INFILTRATION RESISTANCE
(SEE SHEETS 2, 4, 5 & 6)



SADDLE THRESHOLD

NOT APPROVED FOR WATER INFILTRATION RESISTANCE
LIMIT MAX. LOADS TO ±80 PSF



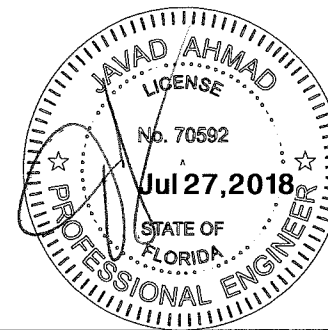
HIGH THRESHOLD OPTION

APPROVED FOR WATER RESISTANCE WHEN USED WITH SINGLE DOORS (SEE SHEET 2)
NOT APPROVED FOR WATER RESISTANCE WHEN USED WITH DOUBLE DOORS

DOORS SHOWN WITH SERIES-9500 FRAMES CAN
ALSO BE USED WITH SERIES-8000 FRAMES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0319-09
Expiration Date 12/24/23
James I. Viana
Director, Product Control

HIGH STRENGTH GROUT
POURED & HARDENED
f'c = 5000 PSI MIN.
NOT BY E.S. WINDOWS
MUST TRANSFER SHEAR
LOADS TO STRUCTURE



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COMP-ANL W08-66ESW

SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

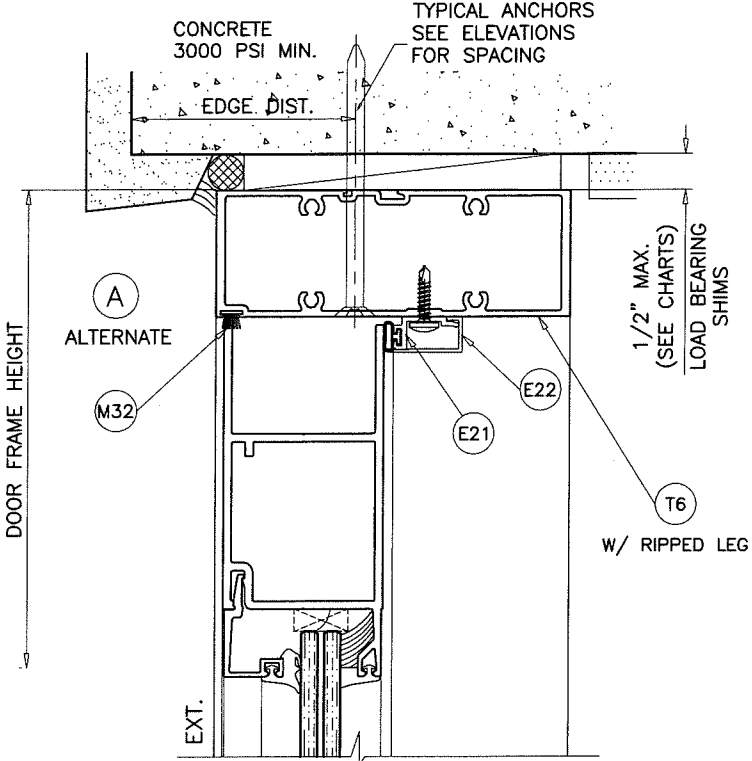
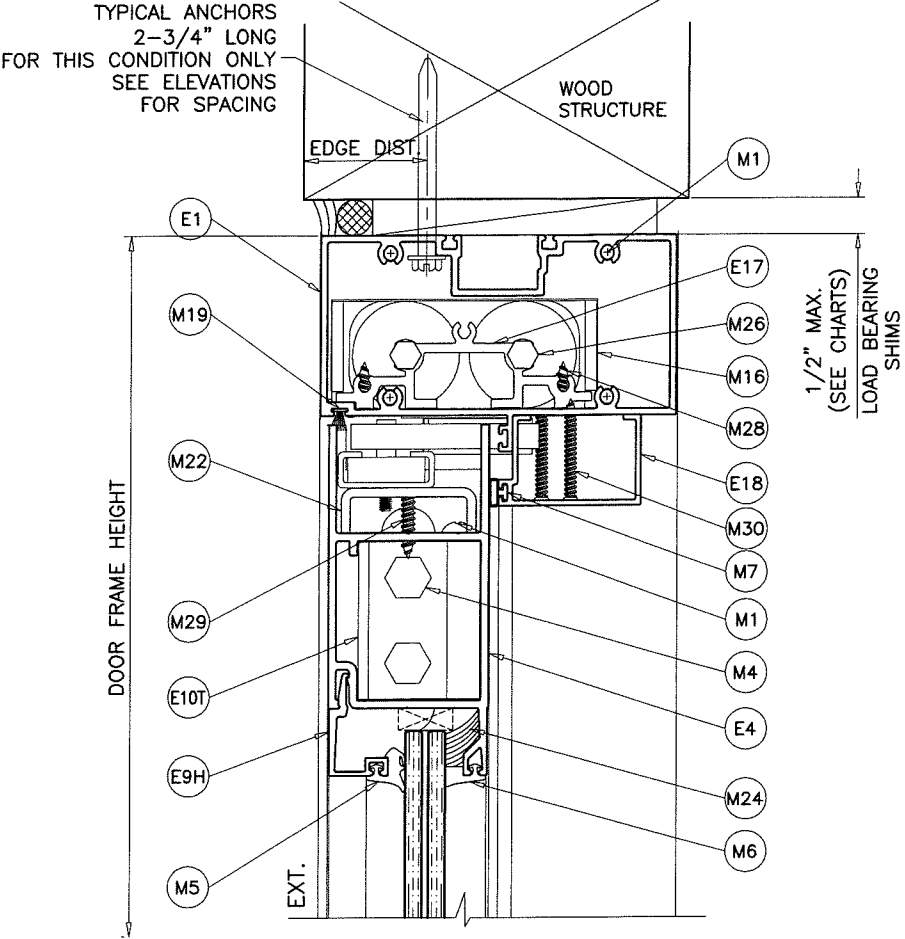
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revisions:		no	date	by	description
H	05.05.15	1	05.05.15	UPDATED TO 2014 FBC	
I	01.13.16	2	01.13.16	REV. PER PER COMMENTS	
J	03.08.16	3	03.08.16	REV. PER PER COMMENTS	
K	02.22.18	4	02.22.18	GENERAL REVISION	
L	05.22.18	5	05.22.18	REV. PER PER COMMENTS	

date: 07-14-08
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dr. by: TARIQ
chk. by:

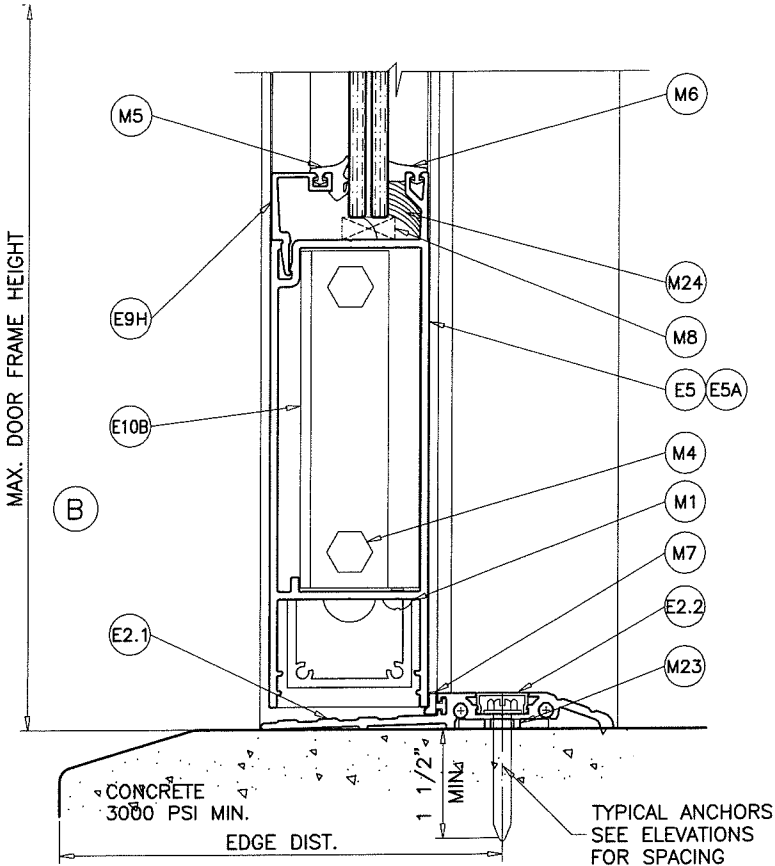
drawing no.
W08-66
sheet 8 of 18

DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-8000 FRAMES.



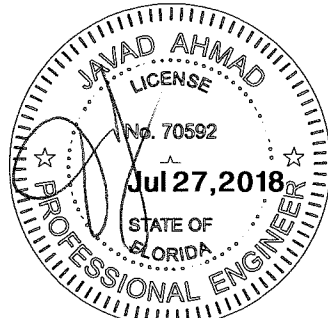
DOOR HEAD
SERIES-8000 FRAME OPTION

DOOR CLOSERS OPTIONAL



ALT. STANDARD THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE

PRODUCT REVISED
to comply with the Florida
Building Code
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Expiration Date 12/24/23
Javad Ahmad
Product Control



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K	02.22.18	4	05.22.18	L	GENERAL REVISION
L	05.22.18	5			REV. PER PER COMMENTS

date: 07-14-08
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W08-66
sheet 9 of 18

1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY E.S. WDW.
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C' - 5/16" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'D' - 1/4" TEKs OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

TYPE 'A1' - 1/4" X 1-3/4" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

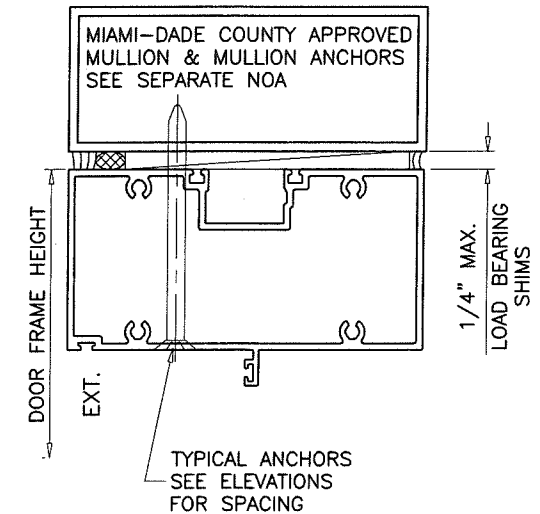
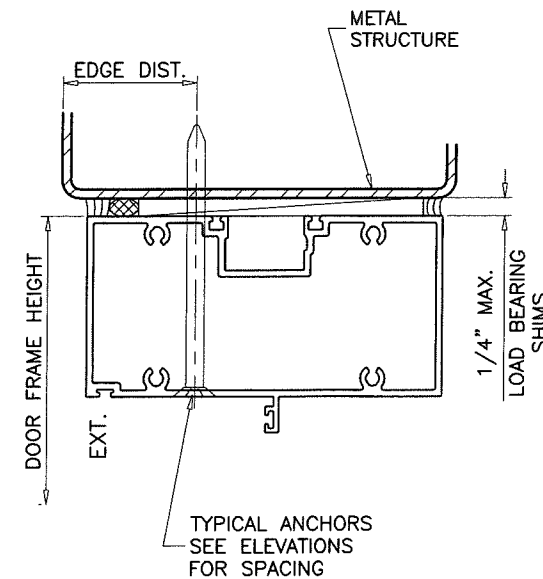
INTO CONCRETE = 2-1/2" MIN.

TYPE 'C1' - 5/16" X 2" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (FOR SADDLE THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

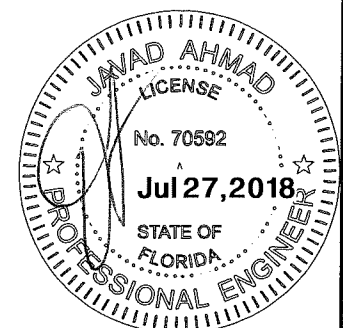
ANCHOR EDGE DISTANCES

INTO CONCRETE = 3-1/8" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/23
J. Ahmad
Senior Product Control



a f c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES-9000 ALUM. OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	date
H	05.05.15
I	01.13.16
J	03.08.16
K	02.22.18
L	05.22.18

by	description
REV. PER RER COMMENTS	UPDATED TO 2014 FBC
NO CHANGE THIS SHEET	REV. PER RER COMMENTS
GENERAL REVISION	NO CHANGE THIS SHEET
REV. PER RER COMMENTS	GENERAL REVISION

date: 07-14-08

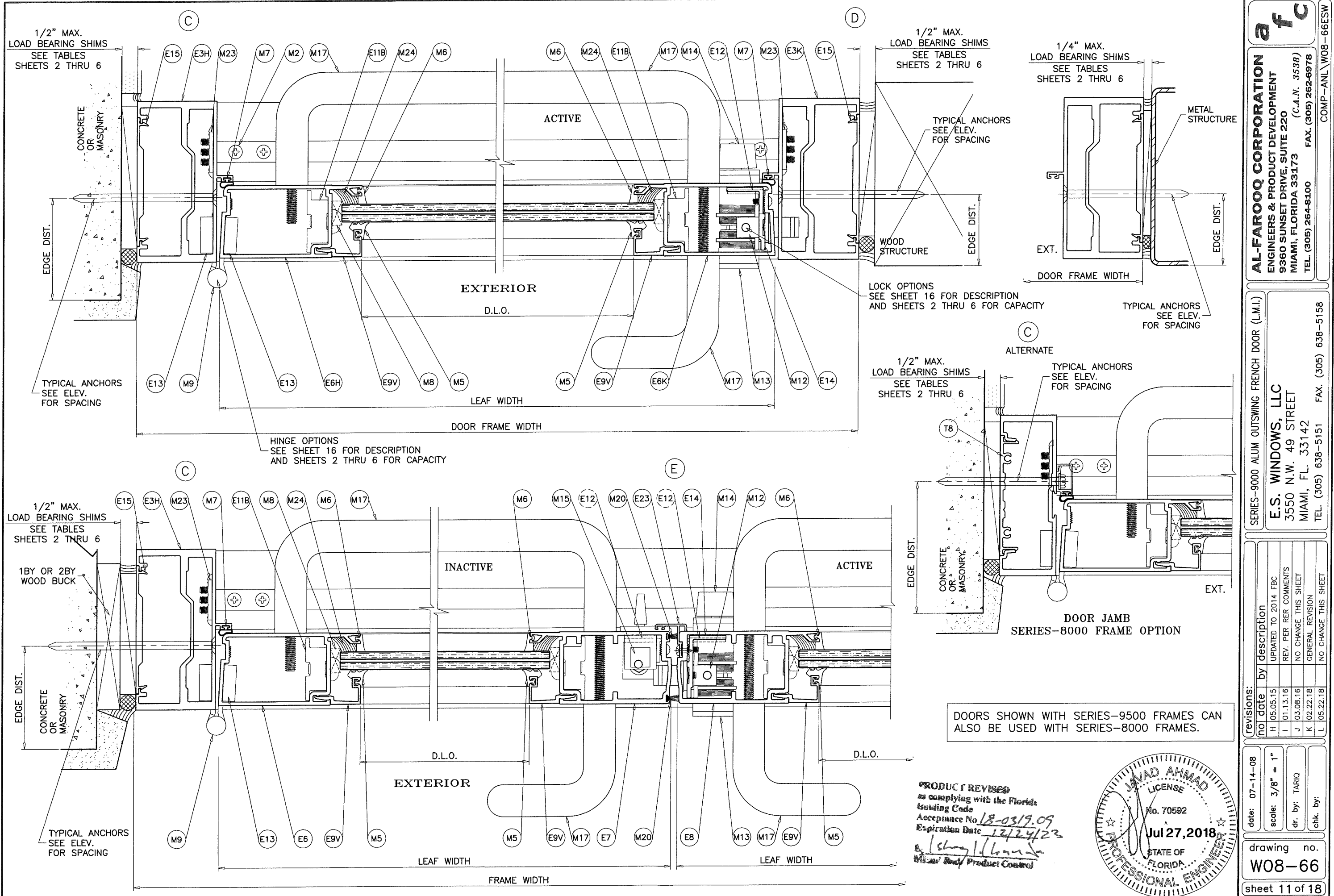
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dr. by: TARIQ

chk. by:

drawing no.
W08-66

sheet 10 of 18



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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no	date		
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L	05.22.18	NO CHANGE THIS SHEET	

date: 07-14-08

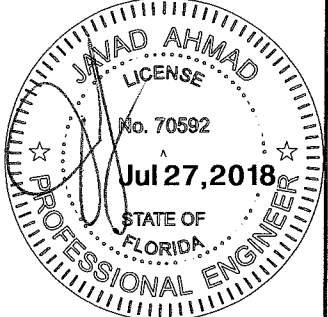
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dr. by: TARIQ

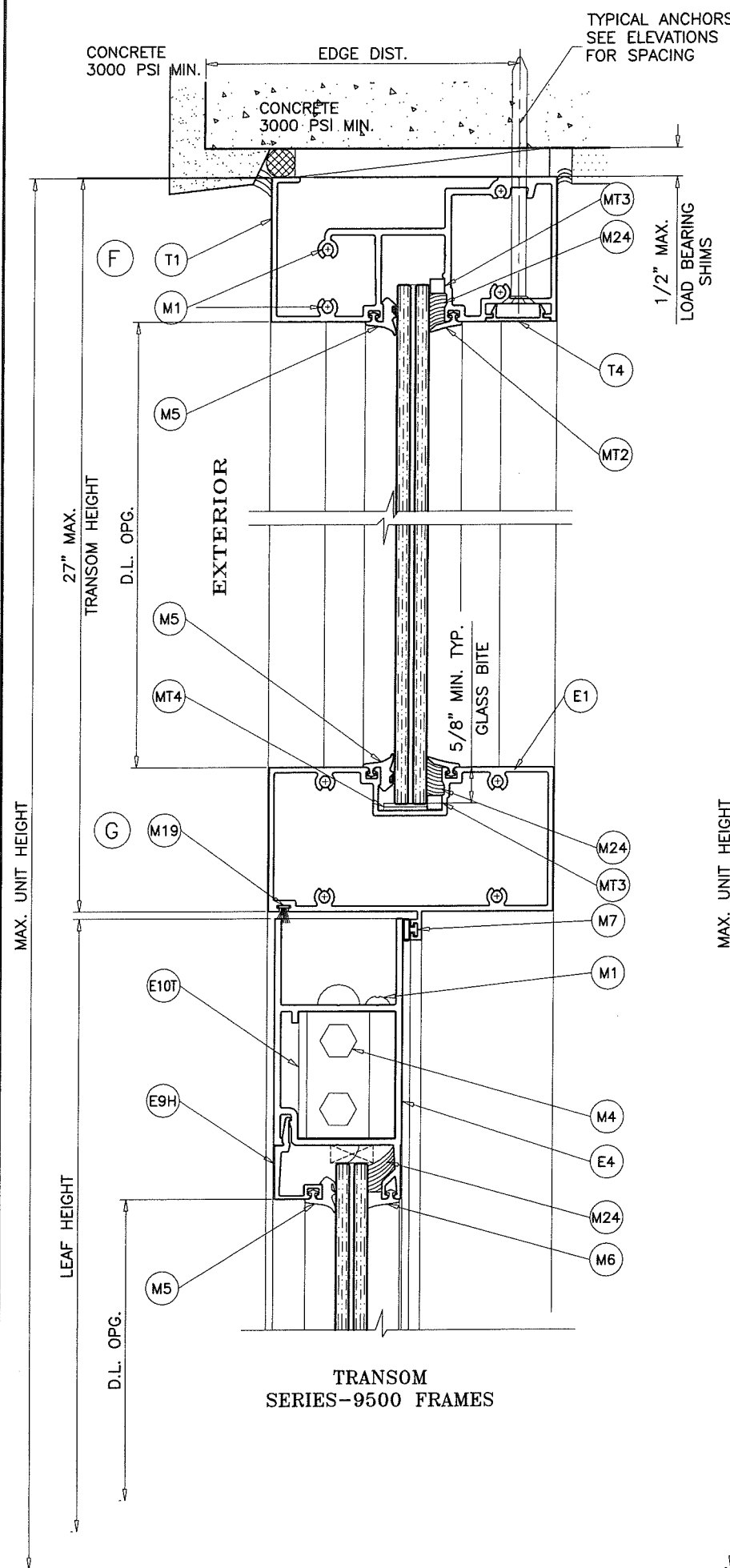
chk. by:

drawing no.
W08-66

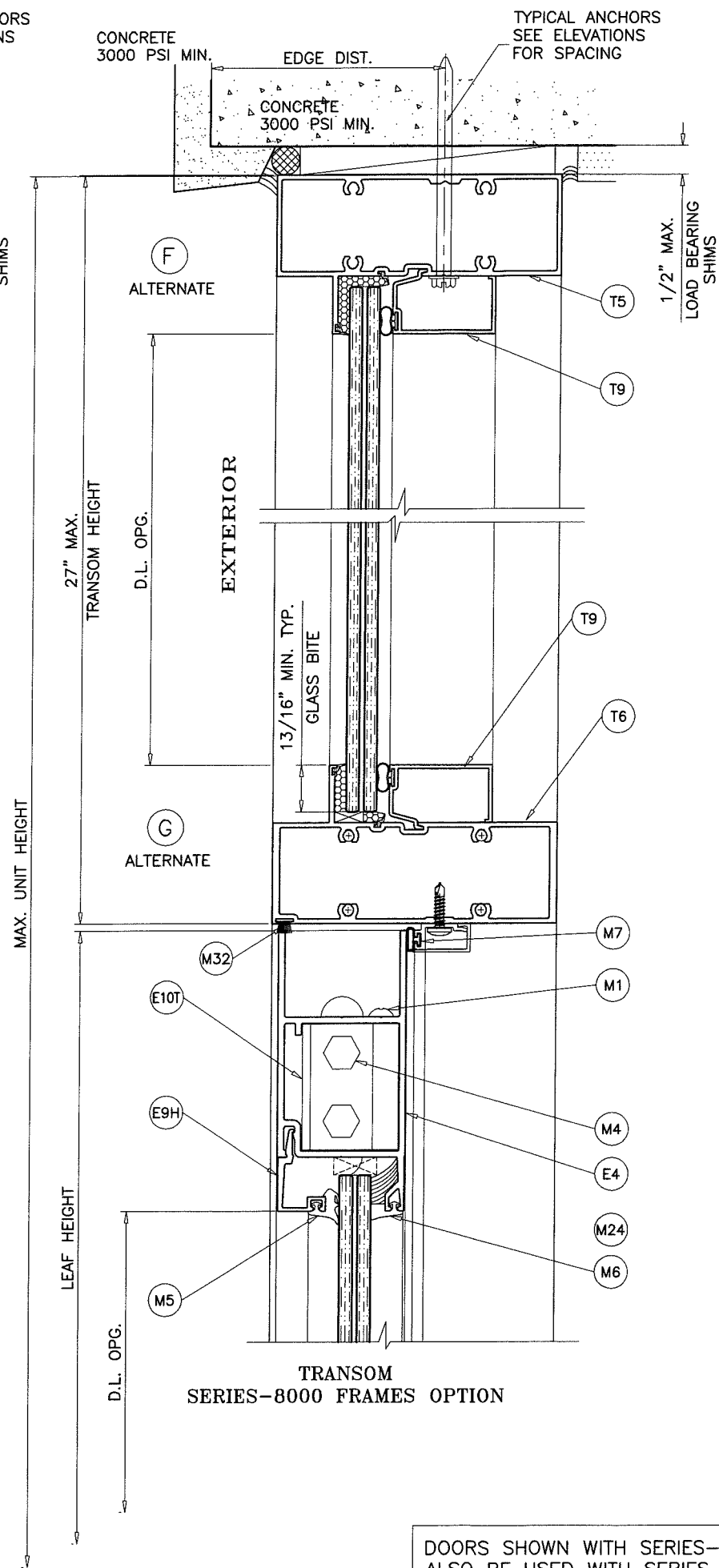
sheet 11 of 18



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0319.09
Expiration Date 12/24/22
By: [Signature]
Title: Senior Product Control

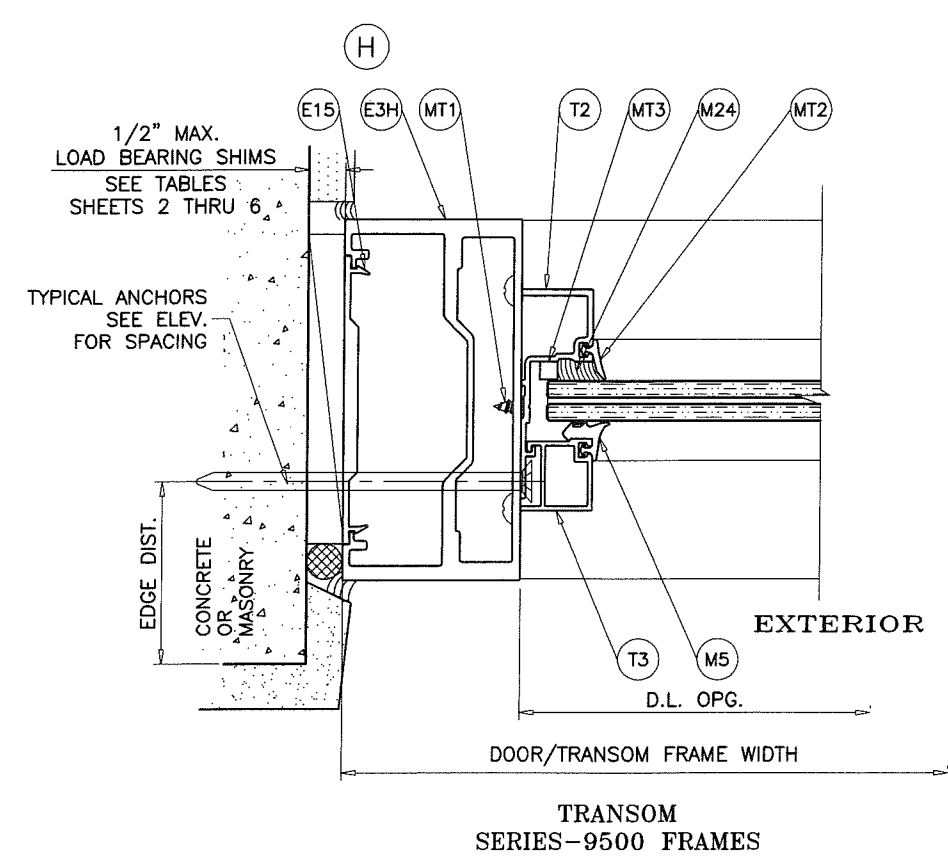


TRANSOM
SERIES-9500 FRAMES

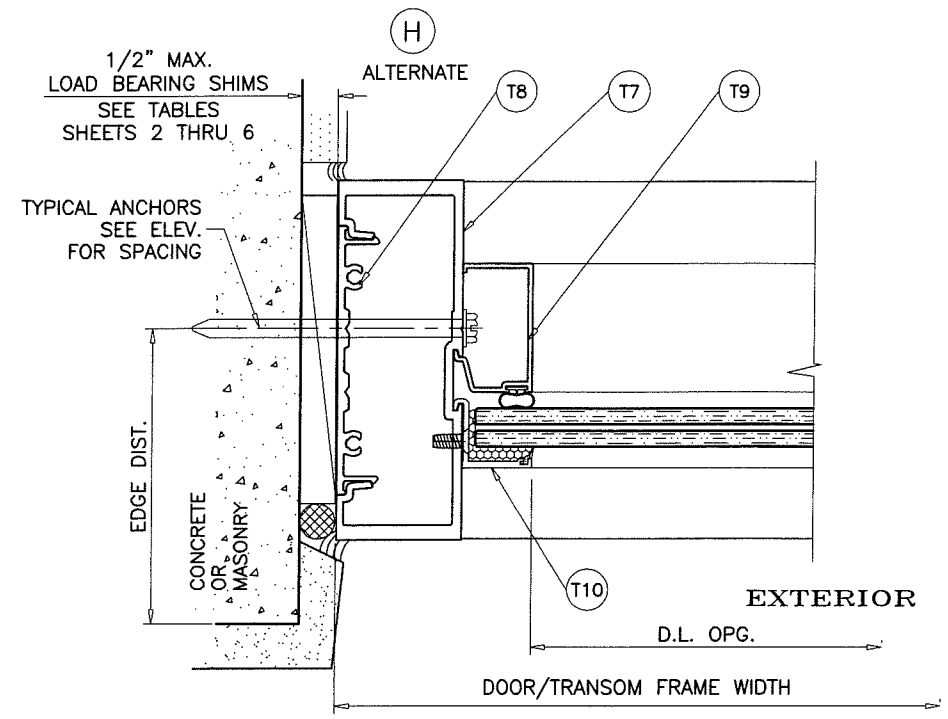


TRANSOM
SERIES-8000 FRAMES OPTION

DOORS SHOWN WITH SERIES-9500 FRAMES CAN
ALSO BE USED WITH SERIES-8000 FRAMES.

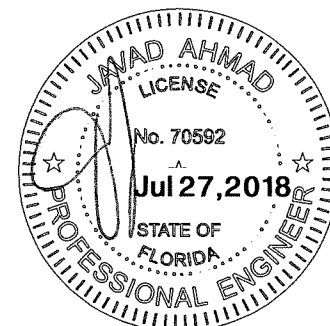


TRANSOM
SERIES-9500 FRAMES



TRANSOM JAMB
SERIES-8000 FRAMES OPTION

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/23
Jihad Ahmad
Senior Product Control



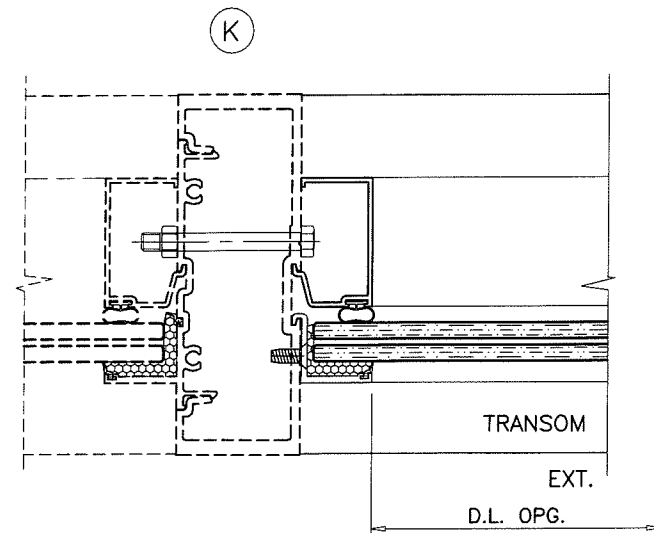
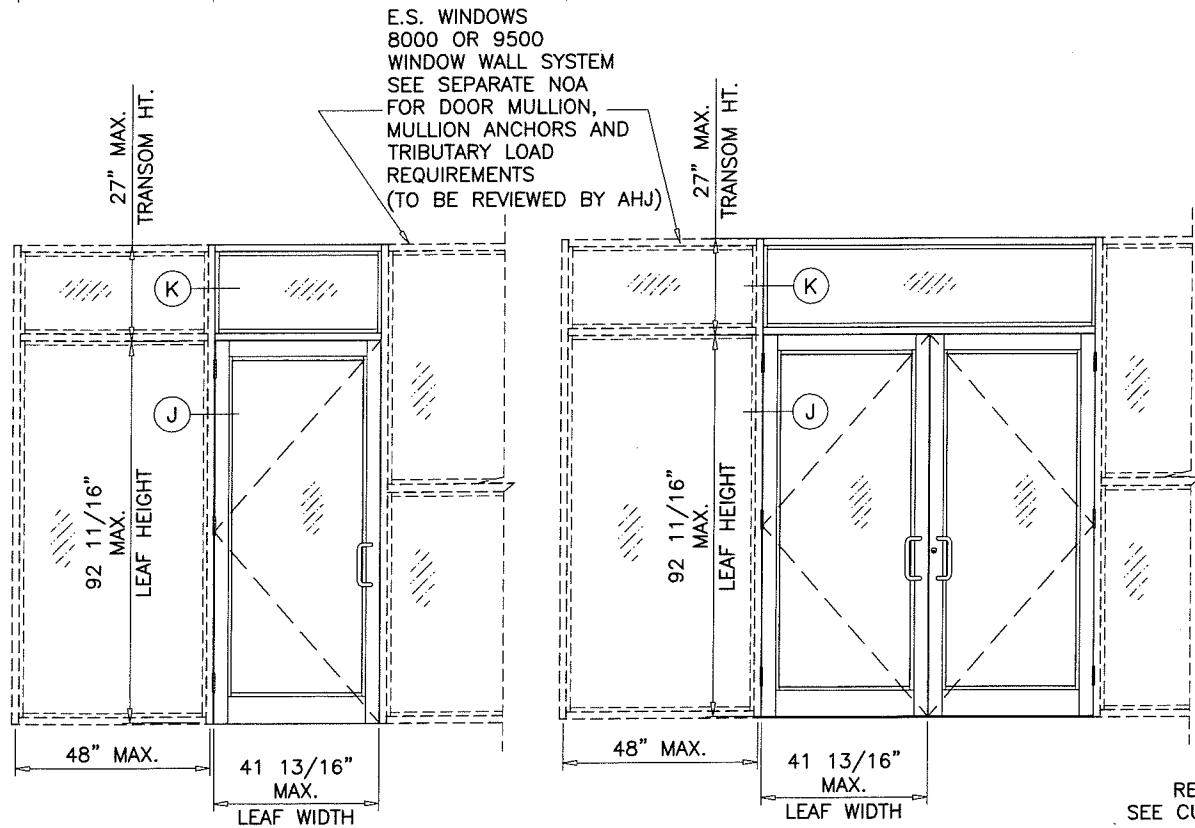
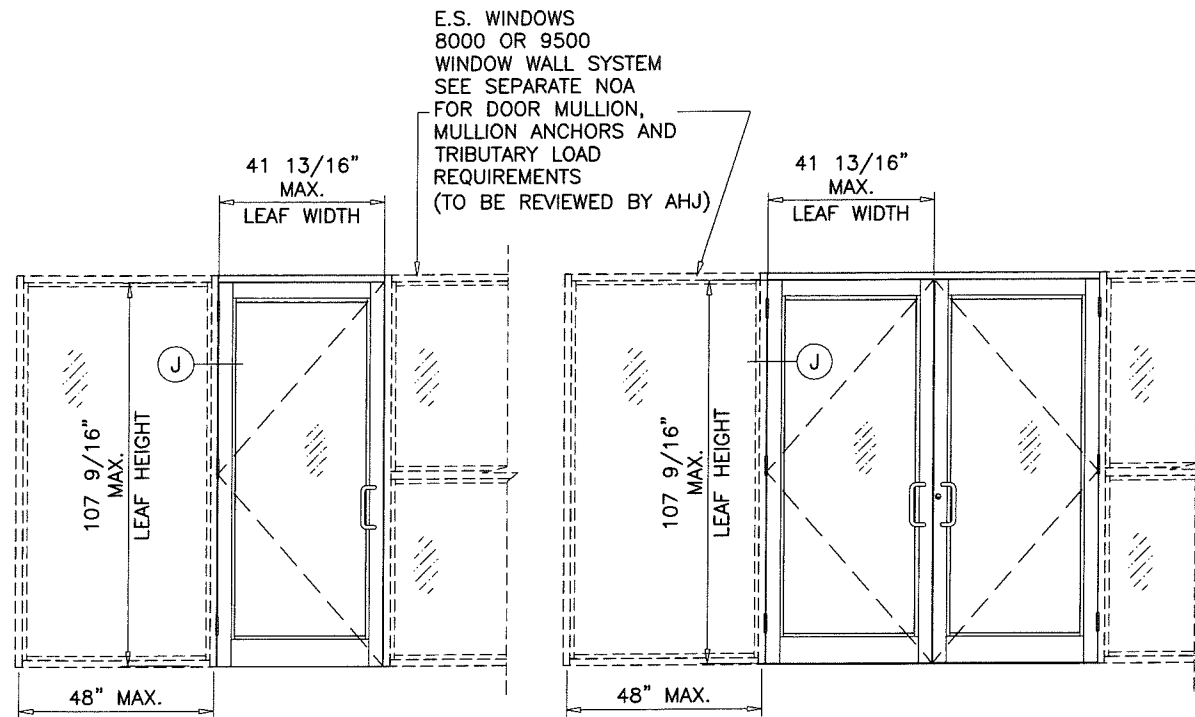
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	no	date	by	description
	H	05.05.15		UPDATED TO 2014 FBC
	I	01.13.16		REV. PER PER COMMENTS
	J	03.08.16		REV. PER PER COMMENTS
	K	02.22.18		GENERAL REVISION
	L	05.22.18		NO CHANGE THIS SHEET

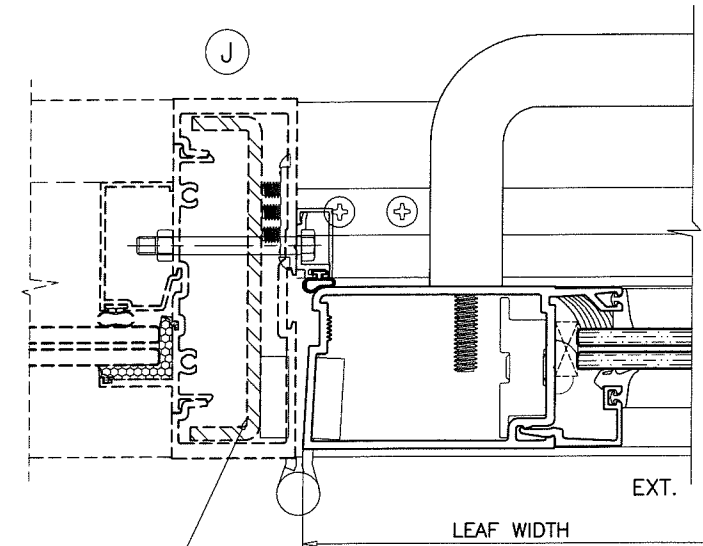
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dr. by:	TARIQ
chk. by:	

drawing no.	W08-66
sheet	12 of 18

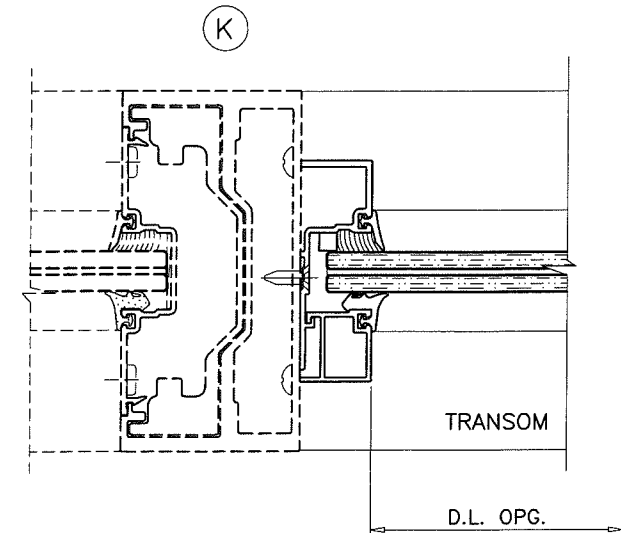


MIAMI-DADE COUNTY APPROVED
 SERIES 8000 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
 UNDER SEPARATE APPROVAL.

LOWER VALUES FROM DOOR CAPACITY CHARTS OR
 WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

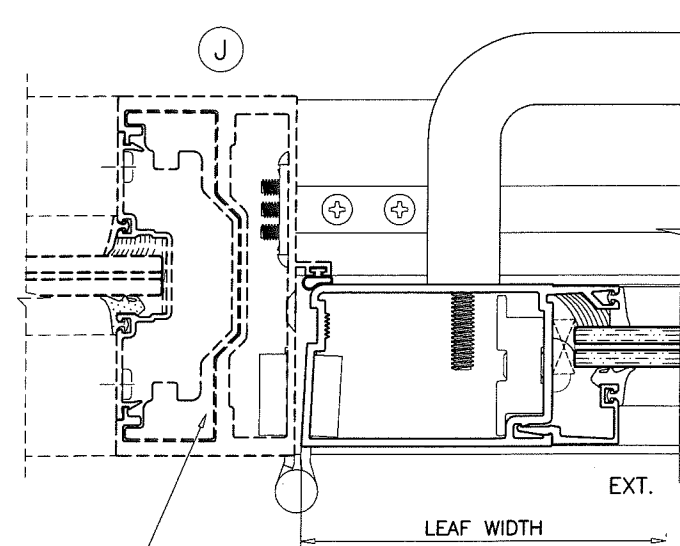


REINFORCING WILL VARY
 SEE CURRENT APPROVAL OF
 E.S. SERIES 8000
 WINDOW WALL SYSTEM
 FOR DETAILS



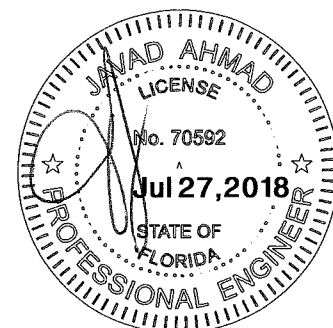
MIAMI-DADE COUNTY APPROVED
 SERIES 9500 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
 UNDER SEPARATE APPROVAL.

LOWER VALUES FROM DOOR CAPACITY CHARTS OR
 WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.



REINFORCING WILL VARY
 SEE CURRENT APPROVAL OF
 E.S. SERIES 9500
 WINDOW WALL SYSTEM
 FOR DETAILS

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 18-0319.09
 Expiration Date 12/24/23
 by: [Signature]
 Mr. [Signature] Product Control



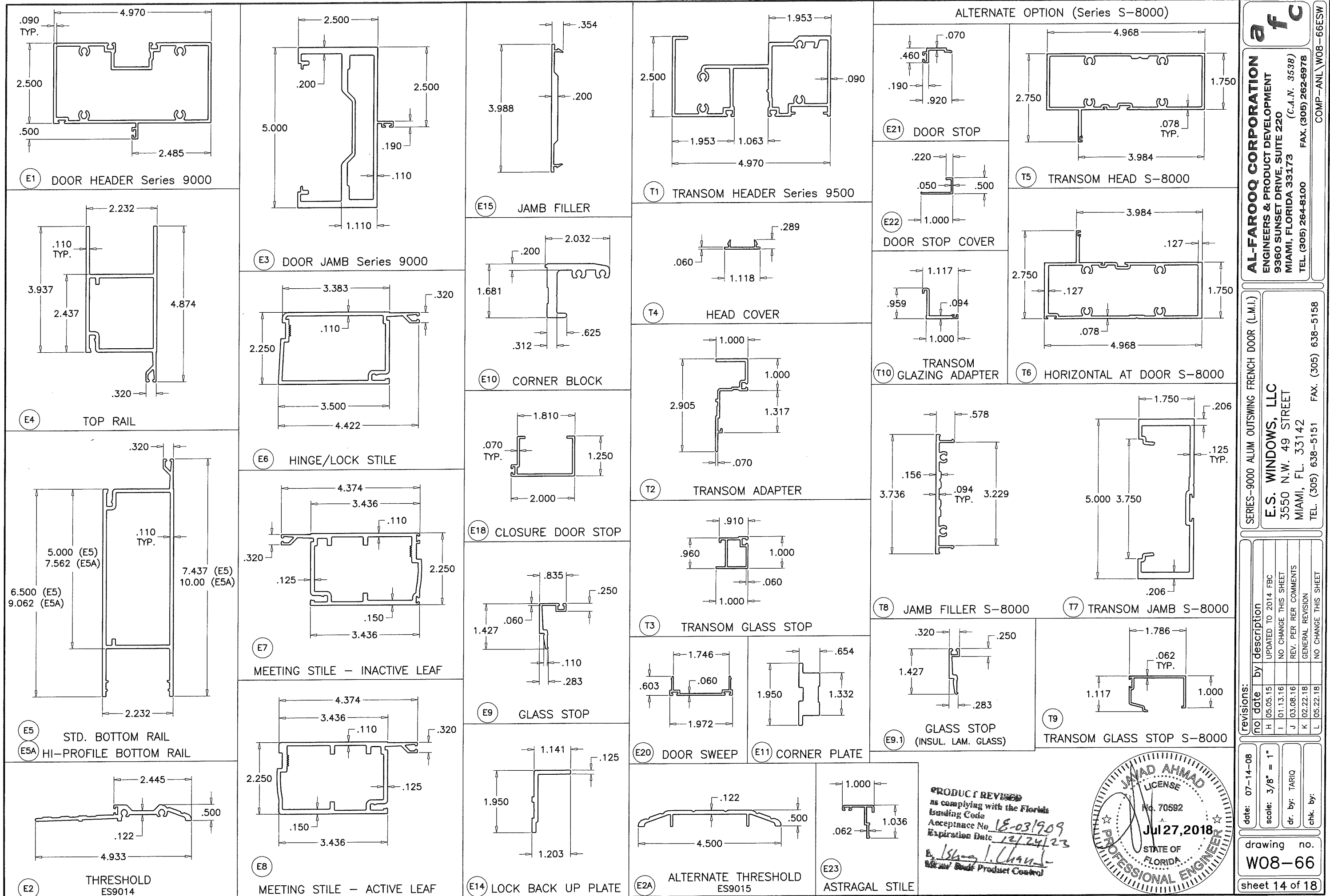
af c
AL-FAROOQ CORPORATION
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 MIAMI, FLORIDA 33173
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SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
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revisions:		by description	
no	date		
J	03.08.16	REV. PER RER COMMENTS	
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L	05.22.18	REV. PER RER COMMENTS	

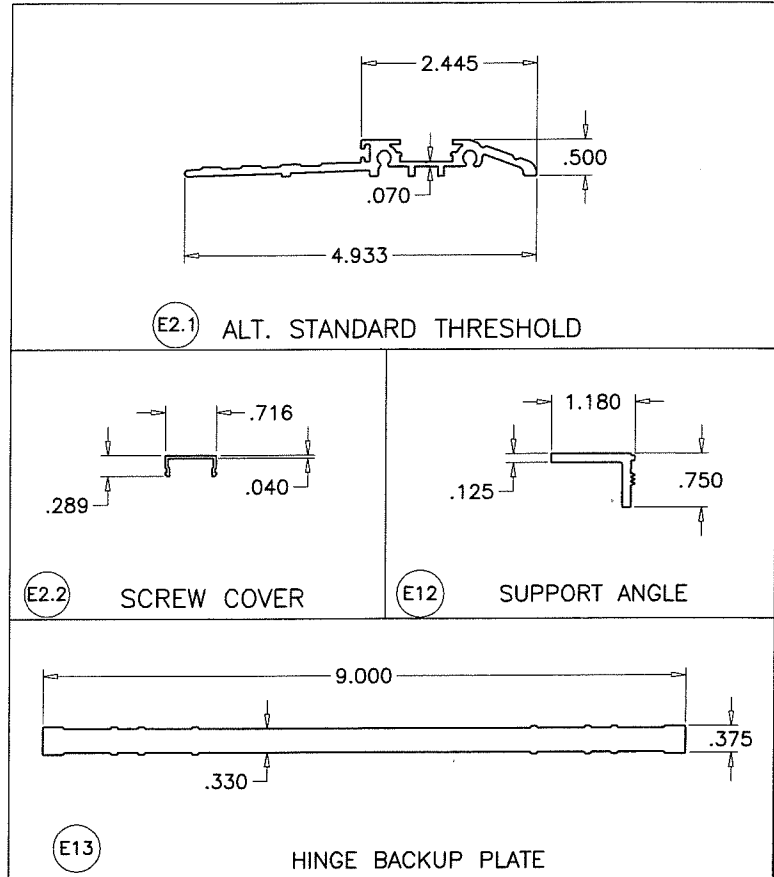
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drawing no.	W08-66
sheet 13 of 18	

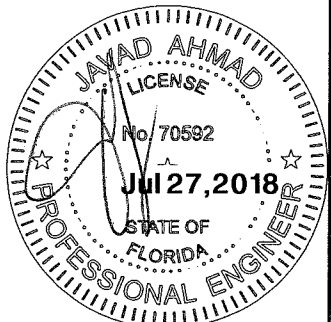


ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-9012	1	DOOR HEADER	6061-T6	-
E2	ES-9014	1	STANDARD THRESHOLD	6063-T6	-
E2.1	ES-9000-30	1	ALT. STANDARD THRESHOLD	6063-T6	-
E2.2	ES-6011	1	SCREW COVER	6063-T6	-
E2A	ES-9015	1	SADDLE THRESHOLD	6063-T6	-
E2B	ES-9026	1	HIGH THRESHOLD	6063-T6	-
E2C	ES-9027	1	THRESHOLD COVER	6063-T5	-
E3H	ES-9013	2	DOOR JAMB - HINGE	6063-T6	-
E4	ES-9001	2	TOP RAIL	6063-T5	-
E5	ES-9002	2	STD. BOTTOM RAIL	6063-T6	-
E5A	ES-9000-031	2	HI-PROFILE BOTTOM RAIL	6063-T6	-
E6H	ES-9003	2	HINGE/LOCK STILE	6063-T5	-
E7	ES-9006	1	MEETING STILE - INACTIVE LEAF	6063-T5	-
E8	ES-9007	1	MEETING STILE - ACTIVE LEAF	6063-T5	-
E9H	ES-9004	4	HORIZONTAL GLASS STOP	6063-T5	-
E9V	ES-9004	4	VERTICAL GLASS STOP	6063-T5	-
E9.1	ES-9029	4	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E10T	ES-9008	4	CORNER BLOCK -TOP	6063-T5	-
E10B	ES-9008	4	CORNER BLOCK - BOTTOM	6063-T5	-
E11T	ES-9009	4	CORNER PLATE - TOP	6063-T5	-
E11B	ES-9009	4	CORNER PLATE - BOTTOM	6063-T5	-
E12	ES-9010	4	SUPPORT ANGLE	6063-T5	3/4" X 1" X 1/8" X 9" LONG
E13	ES-9011	AS RQD.	HINGE BACKUP PLATE REINFORCEMENT	6063-T5	1-1/4" X 9" X 3/8" THK.
E13A	12-24 X 1/2"	4/ PLATE	HINGE BACKUP PLATE FASTENERS	ST. STEEL	FH MACHINE SCREWS
E14	ES-9020	1	LOCK BACKUP PLATE REINFORCEMENT	6063-T5	10" LONG
E14A	8-32 X 1/2"	3/ PLATE	LOCK PLATE FASTENERS	ST. STEEL	PH MACHINE SCREWS
E15	ES-9016	AS RQD.	JAMB FILLER	6063-T6	-
E16	ES-9017	AS RQD.	REINFORCEMENT	6063-T6	-
E17	ES-9021	1/ CLOSER	CLOSER SUPPORT CLIPS (PAIR)	6063-T5	-
E18	ES-9022	1	CLOSER DOOR STOP	6063-T5	-
E19	ES-9023	1/ CLOSER	CLOSER COVER PLATE	6063-T5	-
E20	ES-9005	-	DOOR SWEEP	-	-
E21	ES-9051	-	DOOR STOP	-	-
E22	ES-9052	-	DOOR STOP COVER	-	-
E23	ES-9060	-	ASTRAGAL STILE	6063-T5	SECURED WITH #8 X 1/2" SMS AT 12" O.C.
M1	-	28	#12 x 1" P.H. ST/ST SMS	-	-
M2	-	AS RQD.	#12 - 24 x 1" F.H. ST/ST MS	-	-
M3	-	18	#8 - 32 x 1/2" P.H. ST/ST MS	-	-
M4	-	16	3/8" - 16 x 1" HEX. BOLT	-	-
M5	ES-9000-G01	AS RQD.	WEDGE GASKET	EPDM	DUROMETER 70±5 SHORE A
M6	ES-9000-G02	AS RQD.	SPACER GASKET	EPDM	DUROMETER 70±5 SHORE A
M7	ES-9000-G03	AS RQD.	BULB VINYL, BASE-POLYPROPYLENE, BULB-TPE	-	ULTRAFAB, DUROMETER 73±5 SHORE A
M8	ES-9000-B01	AS REQD.	SETTING BLOCKS (LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M8.1	ES-9000-B02A	AS REQD.	SETTING BLOCKS (INSUL. LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M9	-	AS RQD.	HINGE 4 1/2" x 4"	-	-
M9A	-	AS RQD.	OFFSET PIVOT HINGE	ALUMINUM	-
M12	-	1	3 POINT LOCK	-	-
M13	-	1	KEY CYLINDER	-	-
M14	-	1	THUMBTURN	-	-
M15	-	1	2 POINT LOCK	-	-
M16	-	1/ LEAF	DOOR CLOSURE	-	-
M17	-	2	PUSH - PULL	-	-
M19	W13273NK	AS RQD.	PILE W'STRIPPING - HEADER	WOOL	-
M20	W23451NK	AS RQD.	PILE - MTG STILES	WOOL	-
M22	-	1/ CLOSER	CHANNEL SPACER 5/8" X 1-7/8"	-	-
M23	-	2	THRESHOLD CLIP	-	-
M24	-	AS RQD.	STRUCTURAL SILICONE	-	-
M25	-	AS RQD.	SILICONE	-	-
M26	-	2/ CLOSER	1/4 - 20 x 2" HEX. BOLT	-	-
M27	-	3/ CLOSER	#10 x 1" P.H. ST/ST SMS	-	-
M28	-	6/ CLOSER	#10 x 1" F.H. ST/ST SMS	-	-
M29	-	3/ CLOSER	#10 x 1" F.H. ST/ST SMS	-	-
M30	-	AS RQD.	#10 x 1 1/2" F.H. ST/ST SMS, AT 23" O.C.	ST. STEEL	-
M31	W13351NK	AS RQD.	PILE - DOOR SWEEP	WOOL	-
M32	W13275NK	AS RQD.	PILE - HEADER	WOOL	-

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
T1	ES-9506	-	TRANSOM HEADER Series 9500	6063-T6	-
T2	ES-9019	-	TRANSOM ADAPTER	6063-T5	-
T3	ES-9018	-	TRANSOM GLASS STOP	6063-T5	-
T4	ES-9502	-	HEAD COVER	6063-T5	-
MT1	-	-	#10 x 1/2" F.H. ST/ST SMS	-	-
MT2	-	-	TRIM GASKET	SILICONE	-
MT3	-	-	INTERIOR SPACER 1/4" x 1/4"	FOAM	-
MT4	-	AS REQD.	SETTING BLOCKS (1/16" x 3/4") AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
T5	ES-8005	AS REQD.	TRANSOM HEAD S-8000	6005-T6	-
T6	ES-8013	AS REQD.	HORIZONTAL AT DOOR S-8000	6061-T6	-
T7	ES-8012	AS REQD.	TRANSOM JAMB S-8000	6005-T6	-
T8	ES-8003	AS REQD.	JAMB FILLER S-8000	6005-T5	-
T9	ES-8006	AS REQD.	TRANSOM GLASS STOP S-8000	6063-T5	-
T10	ES-8014	AS REQD.	TRANSOM GLAZING ADAPTER	6063-T6	-



PRODUCT REVISION
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By: Ishag L. Ahmad
Product Control



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L	05.22.18	5	05.22.18	REV.	PER PER COMMENTS

date: 07-14-08

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no. **W08-66**

sheet 15 of 18

LOCKS: (See Tables On Sheets 2 Thru 6 For Load Capacities)

OPTION #1: LIMIT MAX. LOADS TO ± 80.0 PSF

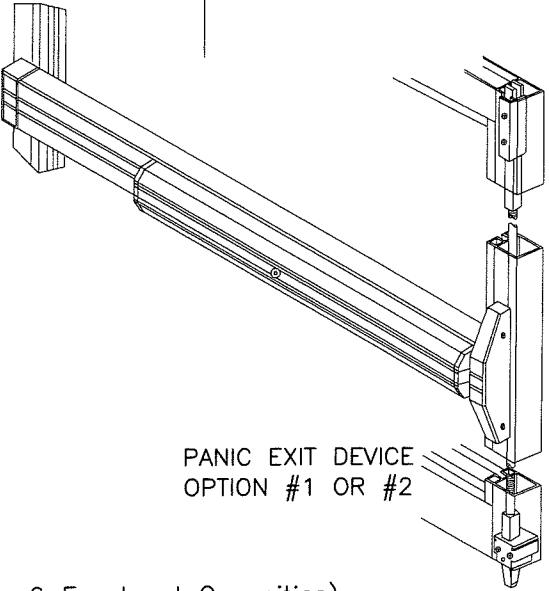
ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'JACKSON PANIC SYSTEM' #1285 LOCATED AT 41" FROM SILL AT EACH LEAF.
FASTENED WITH

- (1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
 - (2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END
- OR

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'ADAMS RITE' LOCATED AT 40" FROM SILL AT EACH LEAF.
FASTENED WITH

- (2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
- (2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END



PANIC EXIT DEVICE
OPTION #1 OR #2

OPTION #2: LIMIT MAX. LOADS TO +80.0, -90.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'JACKSON PANIC SYSTEM' #2086 LOCATED AT 41" FROM SILL AT EACH LEAF.
FASTENED WITH

- (1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
 - (2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END
- OR

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'DOR-O-MATIC' LOCATED AT 40" FROM SILL AT EACH LEAF.
FASTENED WITH

- (2) #12-24 X 1/2" FH MACHINE SCREWS AT ONE END

OPTION #3:

ACTIVE LEAF:

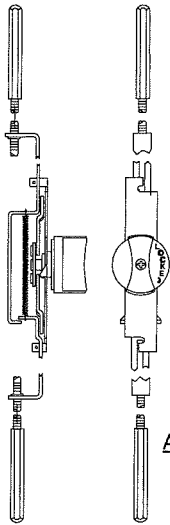
KEY OPERATED THREE POINT LOCK SYSTEM 4015/4016 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL
FASTENED WITH

- (2) #12-24 X 1/2" FH MACHINE SCREWS

INACTIVE LEAF:

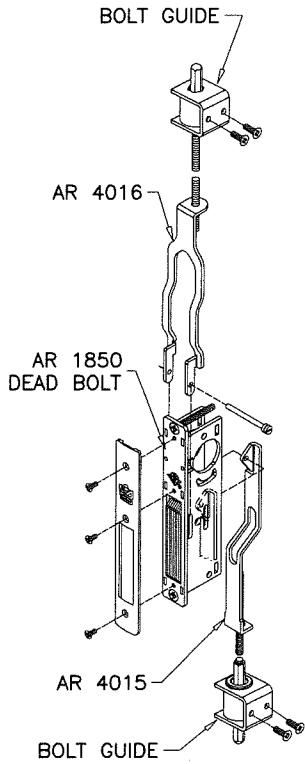
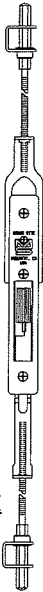
MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL
FASTENED WITH

- (2) #8-32 X 1/4" PH MACHINE SCREWS



ADAMS RITE
2 POINT
LOCK

ADAMS RITE
3 POINT
LOCK



CONCEALED BOLTS ENGAGEMENT INTO FRAMES = 1/2" MIN. TYP.

HINGES: (See Tables On Sheets 2 Thru 6 For Load Capacities)

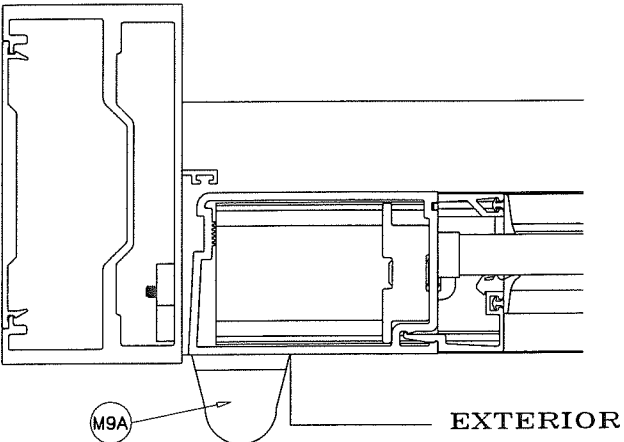
OPTION #1:

OFFSET PIVOT HINGES
ALUMINUM AT TOP AND BOTTOM
FASTENED TO FRAME AND THRESHOLD WITH
#10-24 X 1/2" FH THREAD CUTTING SCREWS

- (2) AT THRESHOLD, (2) AT JAMB BOTTOM
- (3) AT FRAME HEAD

HEAVY DUTY BRASS OR BRONZE AT MIDSPAN
FASTENED TO FRAME AND LEAF WITH

- (4) 1/4-20 X 5/8" MS



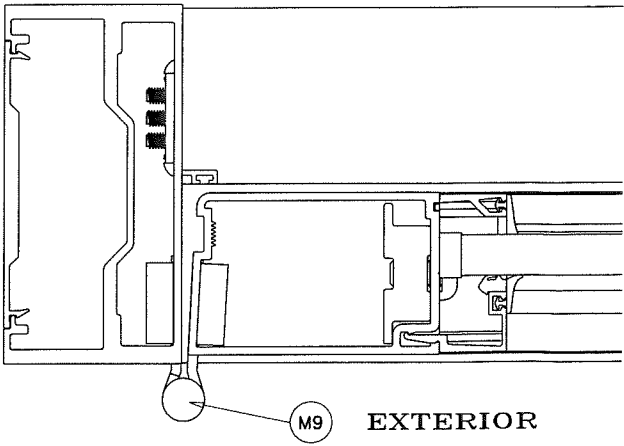
M9A

EXTERIOR

OPTION #2:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
LOCATED AT
11" FROM TOP & BOTTOM AND AT MIDSPAN
FASTENED TO DOOR FRAME AND LEAF STILE WITH

- (4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP



M9

EXTERIOR

OPTION #2.1:

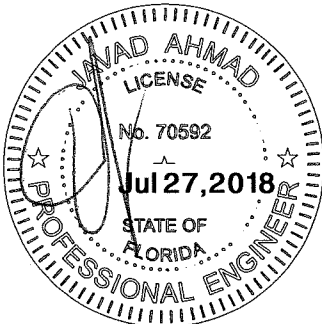
4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
(4) PER LEAF

- (1) AT 9-5/8" FROM TOP TO CL OF HINGE
- (1) AT 10-5/16" FROM BOTTOM TO CL OF HINGE
- (2) INTERMEDIATE HINGES EQUALLY SPACED FROM TOP AND BOTTOM HINGE

FASTENED TO DOOR FRAME AND LEAF STILE WITH

- (4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP

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Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/23
By: [Signature]
Chief of Product Control



SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

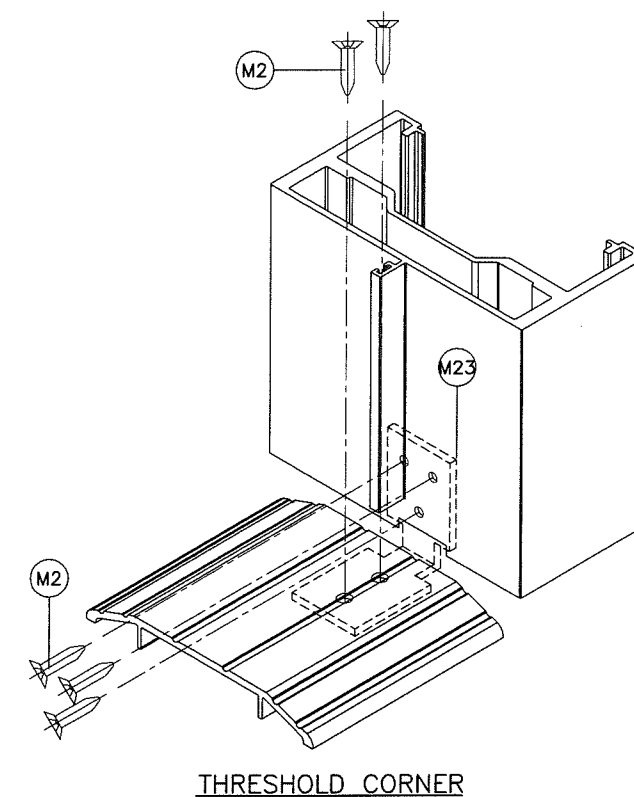
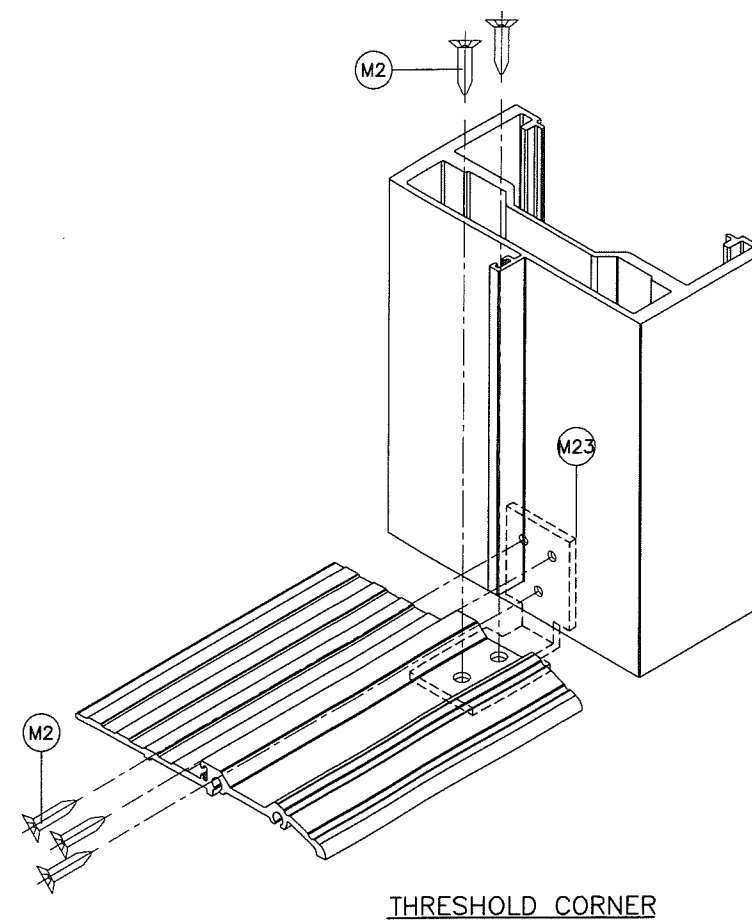
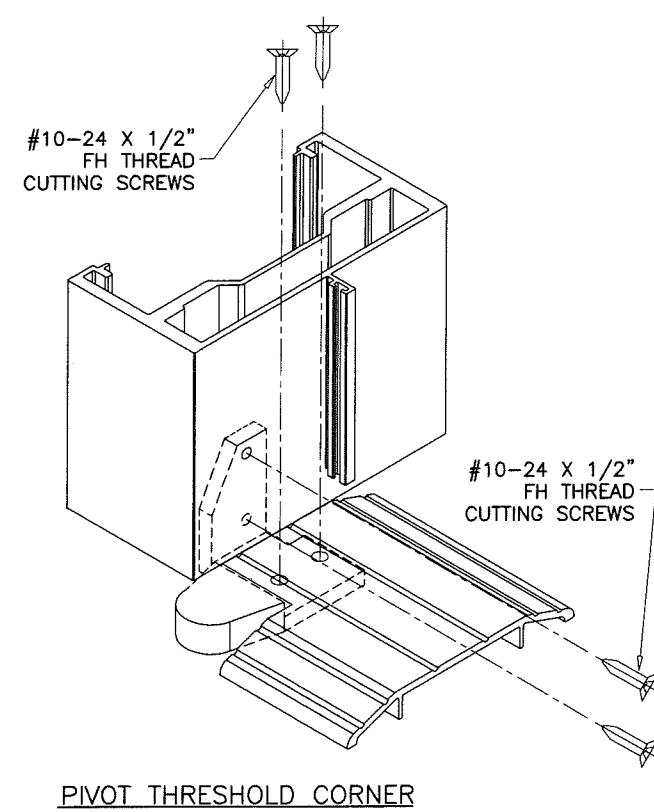
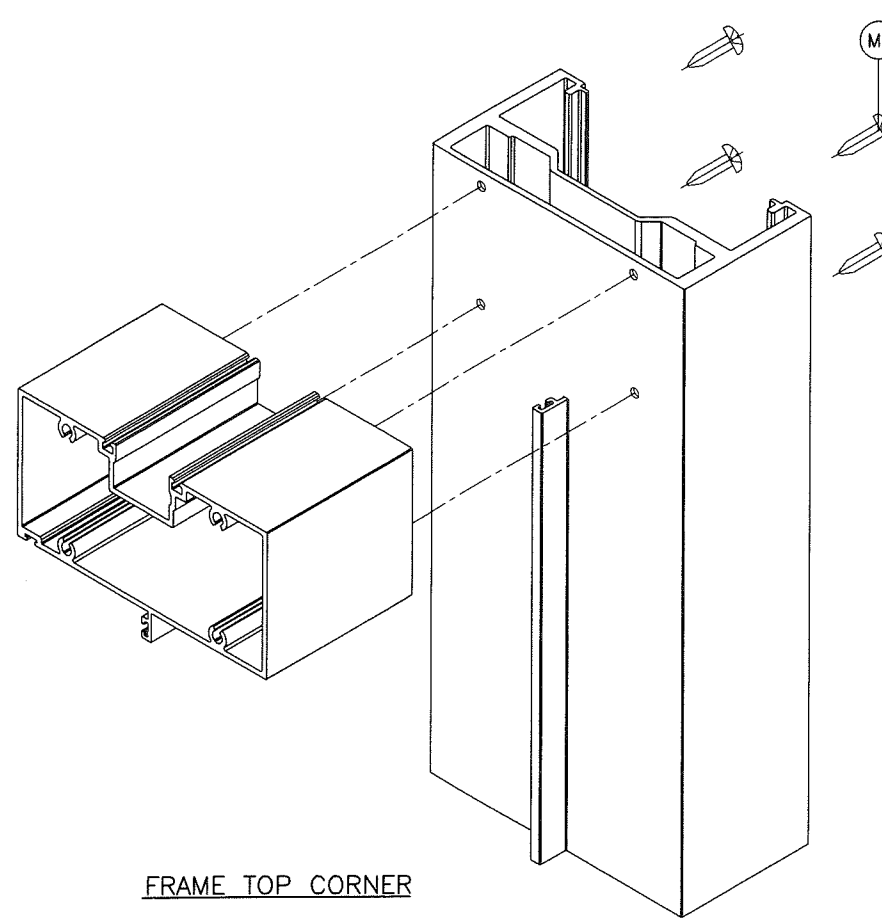
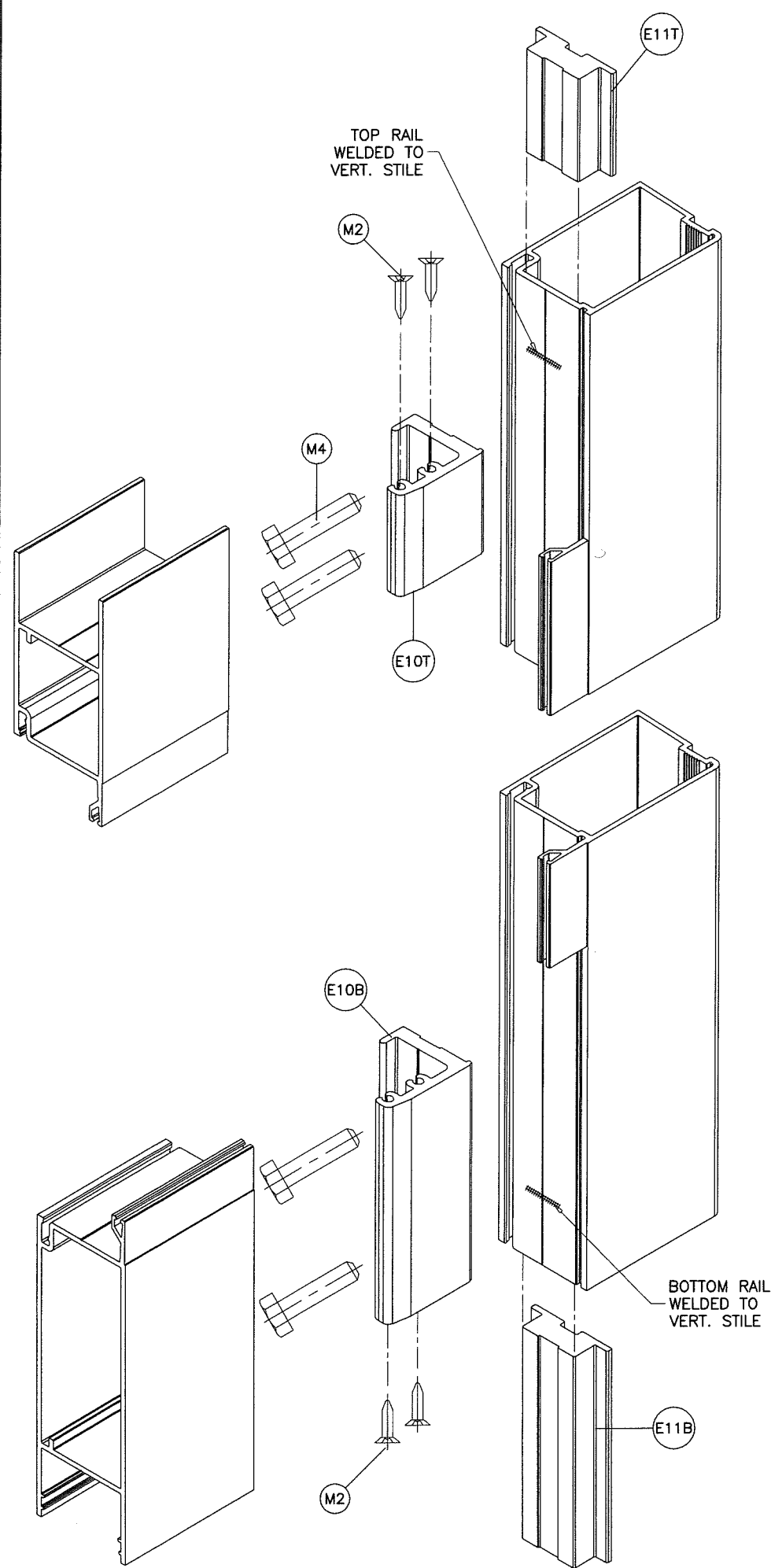
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\W08-66ESW

revisions:		no	date	by	description
		H	05.05.15	I	UPDATED TO 2014 FBC
		I	01.13.16	J	NO CHANGE THIS SHEET
		J	03.08.16	K	NO CHANGE THIS SHEET
		K	02.22.18	L	GENERAL REVISION
		L	05.22.18		REV. PER RER COMMENTS

date: 07-14-08
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W08-66
sheet 16 of 18



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 18-0319.09
Expiration Date 12/24/23
E. Shagil. Khan
Mix and Product Control



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	L	05.22.18		NO CHANGE THIS SHEET

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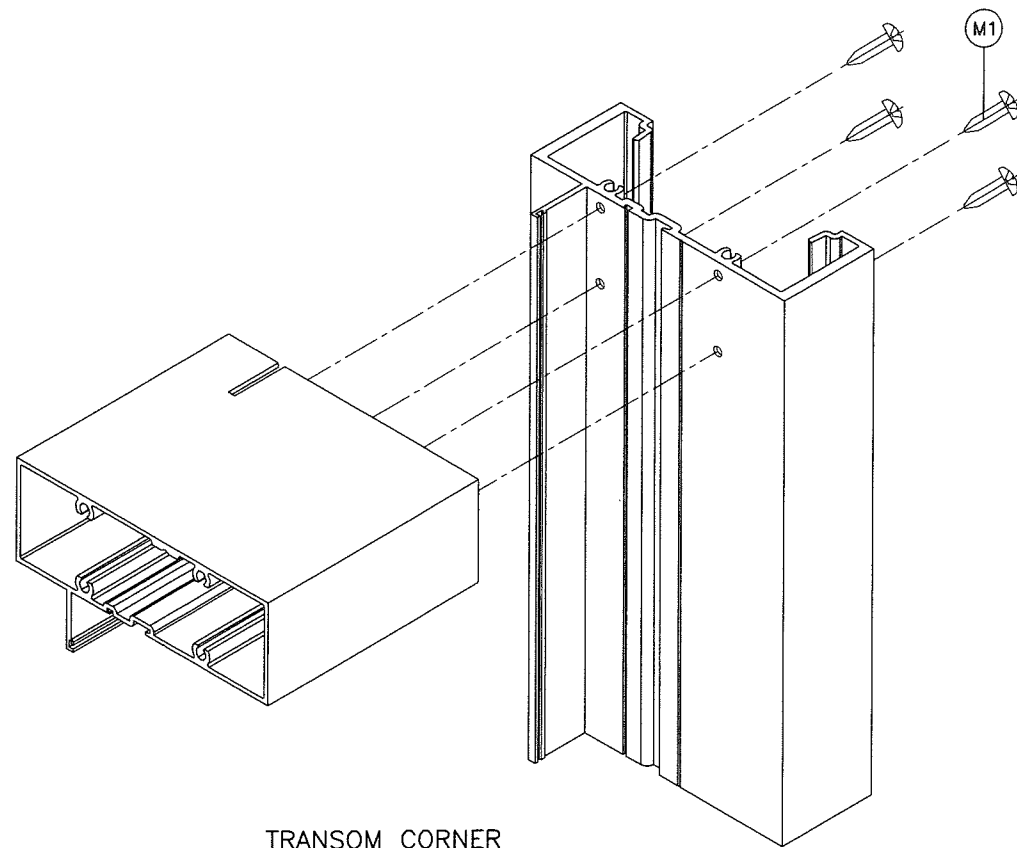
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dr. by: TARIQ

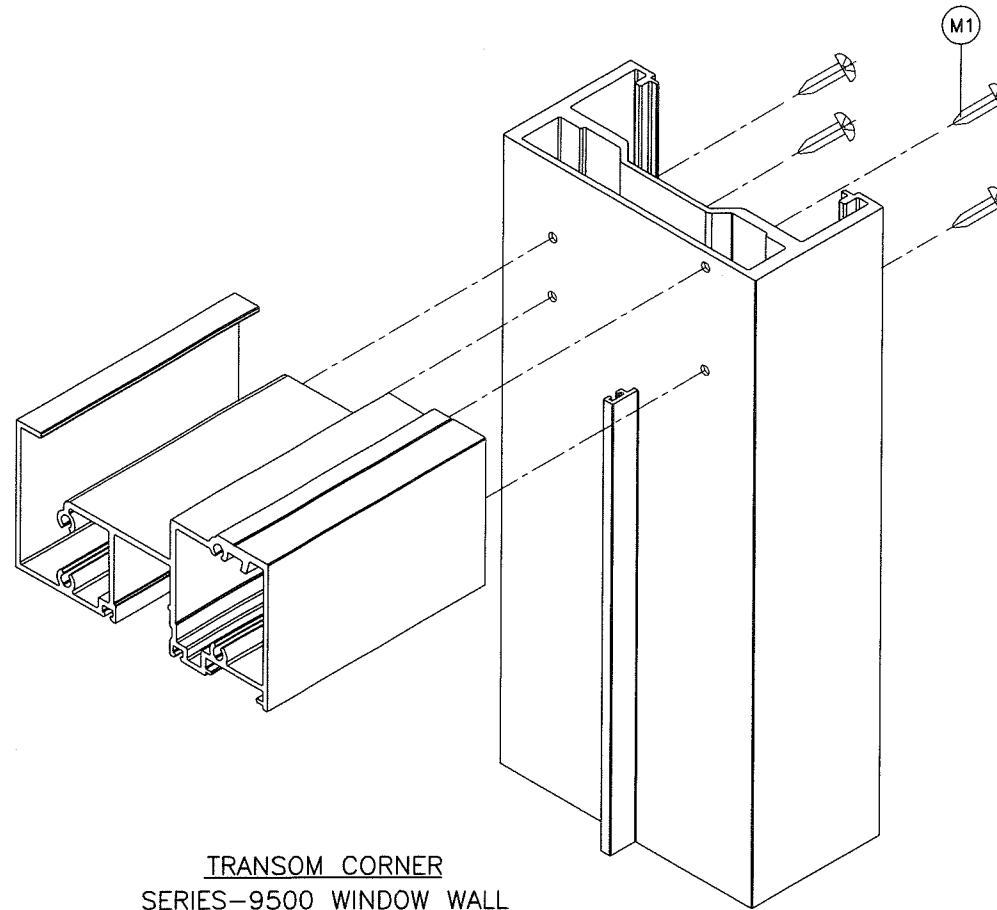
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drawing no.
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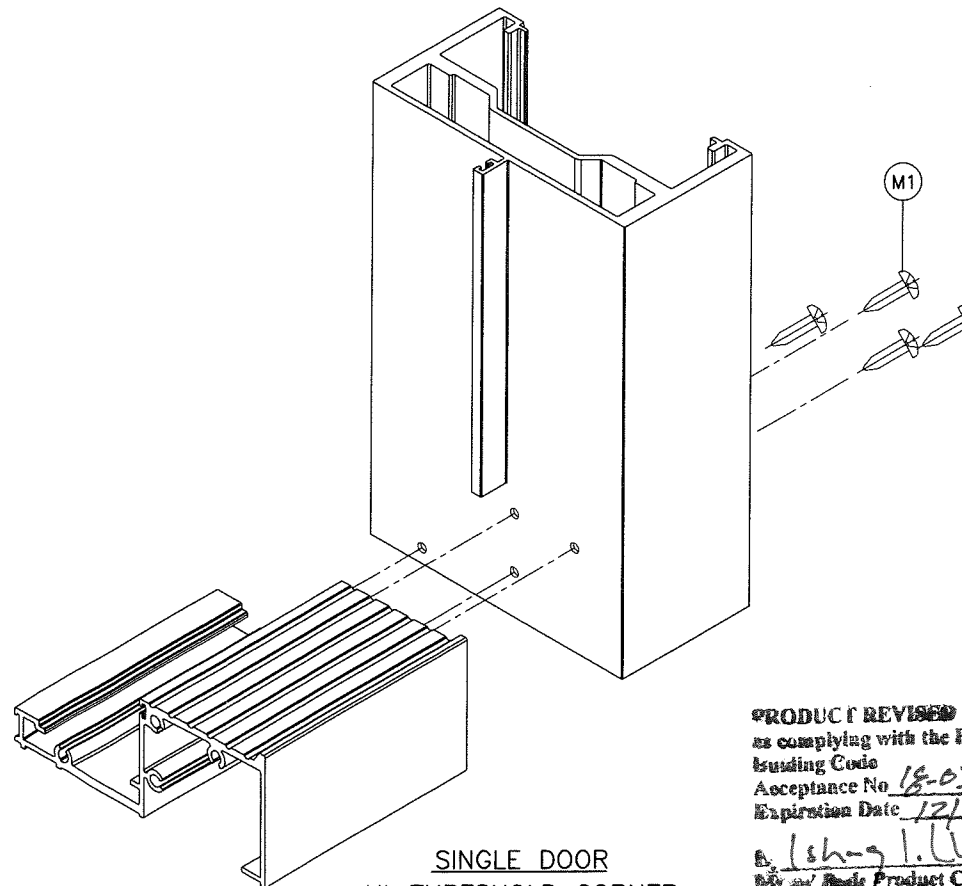
sheet 17 of 18



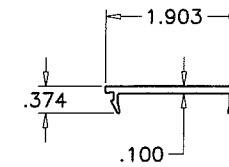
TRANSOM CORNER
SERIES-8000 WINDOW WALL



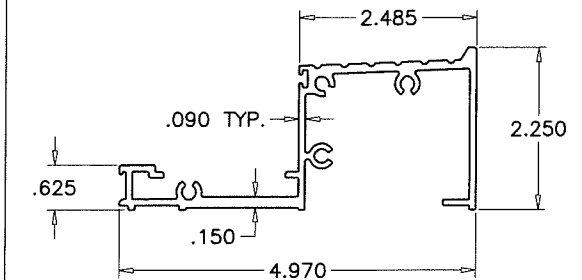
TRANSOM CORNER
SERIES-9500 WINDOW WALL



SINGLE DOOR
HI-THRESHOLD CORNER

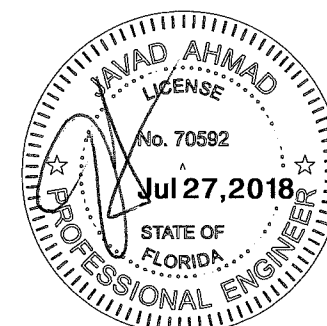


(E2C) THRESHOLD COVER
ES9027



(E2B) HIGH THRESHOLD
ES9026

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as complying with the Florida
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By: *[Signature]*
For: *[Signature]* Product Control



af c
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sheet 18 of 18