



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

SHOP DRAWING/ SUBMITTAL REVIEW	
☒	REVIEWED NO EXCEPTIONS TAKEN
☐	REVIEWED WITH CHANGES NOTED
SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY.	
SUBMITTAL NO.:	DATE: 8-7-26
REVIEWED BY:	
BALLI-TRAUTMAN ARCHITECTS LLC David Scott Trautman, AIA, RA, LEED AP	

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

E.S. Windows, LLC
3550 NW 49th Street
Miami, FL 33142

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 RER-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. RER 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 "ES-8000" Aluminum Window Wall System - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W07-60**, titled "Series 8000 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 1.2, 2, 3, 3.1, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1, 8, 9, 9.1, 10, 10.1, 11 and 12 of 12, dated 08/03/07, with revision **J** dated 03/11/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, model/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 **NOA No. 23-0724.11** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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



6/05/24

NOA No. 24-0321.07
Expiration Date: April 03, 2028
Approval Date: June 06, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

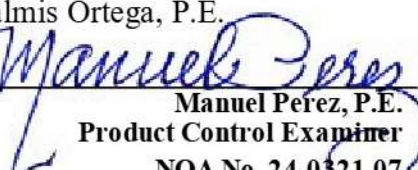
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 15-0826.26)
2. Drawing No. **W07-60**, titled "Series 8000 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 2, 3, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1, 8, 9, 9.1, 10, 11 and 12 of 12, dated 08/03/07, with revision **I** dated 07/18/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0724.11)

B. TESTS

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) Forced Entry Test, per FBC 2411.3.2.1 and AAMA 1304-02
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Series ES-8000 MK-20-001, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-20-036A**, dated 12/18/20, signed and sealed by Michael D. Caldwell, P.E.
(Submitted under NOA No. 21-0517.02)
2. 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) Forced Entry Test, per FBC 2411.3.2.1 and AAMA 1304-02
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Series ES-9000 aluminum outswing door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-18-004**, dated 05/17/18, signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 19-1029.08)
3. 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) Drop Load Test, per ANSI Z97.1 (400 foot-pound impact)
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-9605**, dated 08/16/17, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 18-0129.05)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0321.07
Expiration Date: April 03, 2028
Approval Date: June 06, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

B. TESTS (CONTINUED)

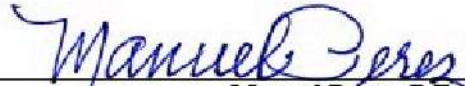
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8372**, dated 03/24/16, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 17-0227.08)
5. 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) Drop Load Test, per CPSC 16 CFR 1201 (400 foot-pound impact)
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5447**, dated 12/19/07, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 08-0204.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 08/30/17 and 09/12/18, and further updated to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, dated 11/16/20 and 05/07/21, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 21-0517.02)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0321.07
Expiration Date: April 03, 2028
Approval Date: June 06, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/15/22, expiring on 07/04/28.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, with **FBC 8th Edition (2023)** and of no financial interest, dated July 19, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0724.11)
2. Distributor Agreement between ES Windows-Energia Solar, S.A., Barranquilla, Columbia, S.A. and E.S. Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.
(Submitted under NOA No. 12-0308.36)
3. Private Labeling Agreement document in conformance to Product Control guidelines dated 04/09/09 signed by Jose Nuñez.
(Submitted under NOA No. 12-0308.36)
4. Laboratory compliance letter for Test Report No. **FTL-5447**, issued by Fenestration Testing Laboratory, Inc., dated 12/19/07, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 08-0204.06)
5. Testing Proposal issued by the Product Control Section, dated 10/16/14, signed by Jaime Gascon, P.E.
(Submitted under NOA No. 17-0227.08)

G. OTHERS

1. Notice of Acceptance No. **22-1227.03**, issued to E.S. Windows, LLC for their Series "ES-8000" Aluminum Window Wall System - L.M.I., approved on 01/19/23 and expiring on 04/03/28.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0321.07
Expiration Date: April 03, 2028
Approval Date: June 06, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W07-60**, titled "Series 8000 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 1.2, 2, 3, 3.1, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1, 8, 9, 9.1, 10, 10.1, 11 and 12 of 12, dated 08/03/07, with revision **J** dated 03/11/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
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 and installation diagram of a series ES-8000 aluminum fixed window, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-22-023**, dated 01/12/23, signed and sealed by Michael D. Caldwell, P.E.
2. 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
along with marked-up drawings and installation diagram of a series ES-8000T/ES-5000 aluminum fixed window mulled to a casement window, prepared by (QAI) Fenestration Testing Laboratory, Inc., Test Report No. **FTL-12112**, dated 06/19/20 with revision #1 dated 08/11/20, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023), dated 03/15/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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



Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0321.07
Expiration Date: April 03, 2028
Approval Date: June 06, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)** and of no financial interest, dated March 15, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

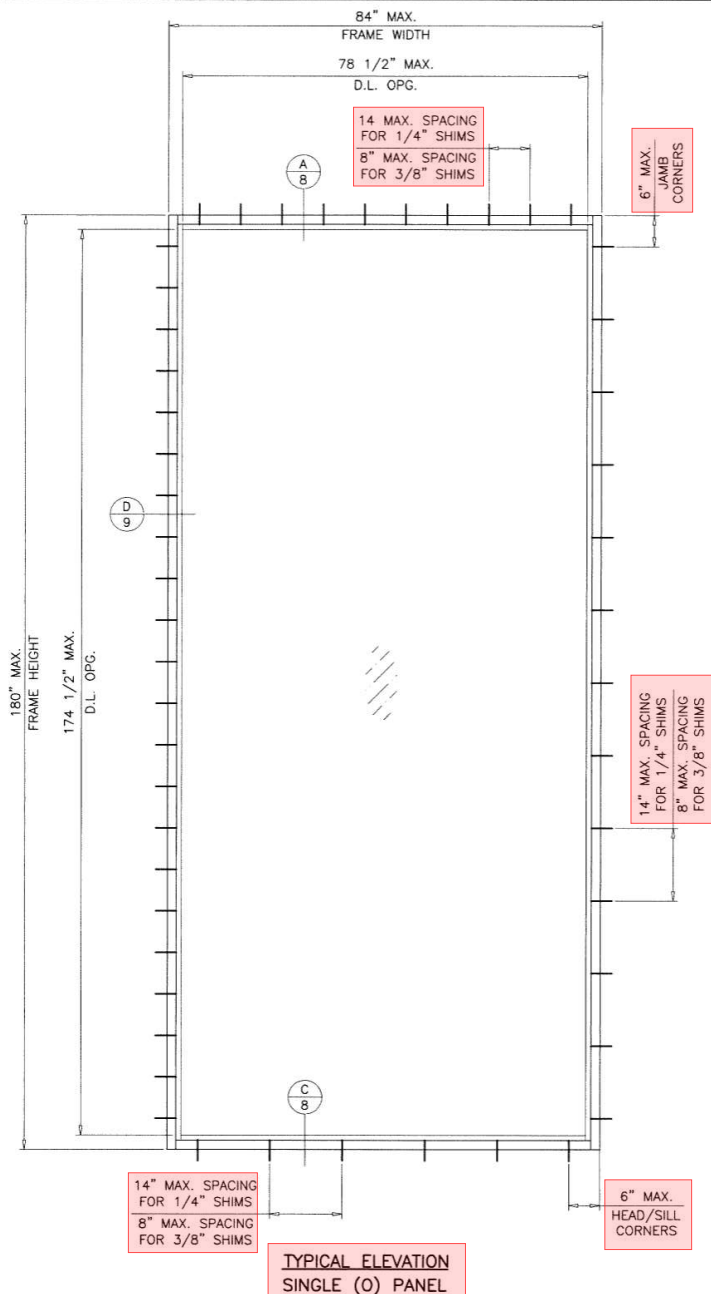
G. OTHERS

1. Notice of Acceptance No. **23-0724.11**, issued to E.S. Windows, LLC for their Series “**ES-8000**” Aluminum Window Wall System – L.M.I., approved on 09/14/23 and expiring on 04/03/28.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0321.07
Expiration Date: April 03, 2028
Approval Date: June 06, 2024

date: 08-03-07		revisions:	
scale: 1/2"=1'-0"		no	by description
dr. by: TARIQ		C	UPDATED TO 2020 FBC
		H	GENERAL REVISION
		I	05.10.21
		J	07.18.23
		K	UPDATED TO 2023 FBC
		L	GENERAL REVISION
		M	03.11.24
		N	
		O	
		P	
		Q	
		R	
		S	
		T	
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		V	
		W	
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		Y	
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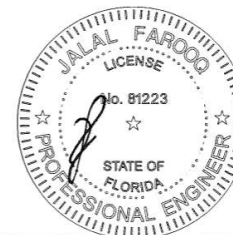
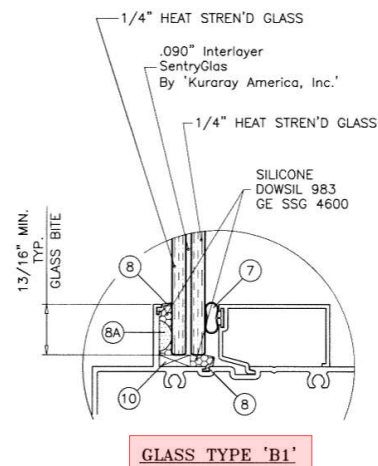
drawing no.
W07-60
sheet 1 of 12



GLASS TYPE 'B1' ONLY
**MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
 - 70.0 PSF**
 (ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET OR SMALLER)

PRODUCT REVISED
 As complying with the Florida
 Building Code
 NOA-No. **24-0321.07**
 Expiration Date: **04/03/2028**
 By: *Manuel Torres*
 Miami-Dade Product Control

MAR 19 2024



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

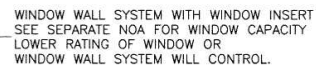
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

no.	date	by	description
G	11.12.20		UPDATED TO 2020 FBC
H	05.10.21		NO CHANGE THIS SHEET
I	07.18.23		NO CHANGE THIS SHEET
J	03.11.24		GENERAL REVISION

date: 08-03-07
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no. **W07-60**
 sheet 1.1 of 12

STORE \W07-60ES



GLASS TYPE 'B'

MAXIMUM DESIGN LOAD RATING = + 78.0 PSF
- 114.0 PSF

(ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET)



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 8000 ALUM WINDOW WALL SYSTEM (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
		J	03.11.24		GENERAL REVISION

date: 08-03-07
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no.
W07-60

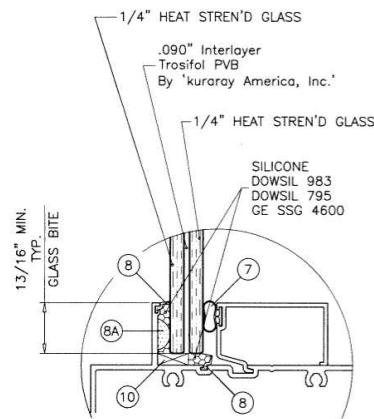
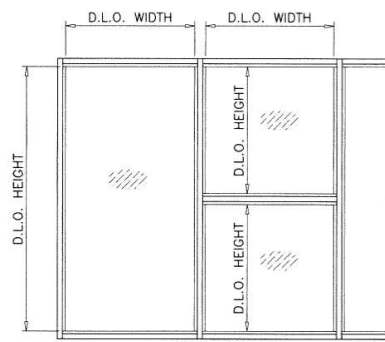
sheet 1.2 of 12

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
28"	84-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	130.0
56-1/4"		80.0	130.0
60-1/2"	90-1/2"	-	63.6
66-1/2"		-	58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	130.0
54-1/2"		56.0	70.0
60-1/2"	96-1/2"	-	63.6
66-1/2"		-	58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	127.2
54-1/2"		56.0	70.0
60-1/2"	102-1/2"	-	63.6
66-1/2"		-	58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	128.9
54-1/2"		56.0	70.0
60-1/2"	108-1/2"	-	63.6
66-1/2"		-	58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		62.2	70.0
54-1/2"		56.0	70.0
60-1/2"		-	63.6
66-1/2"		-	58.3

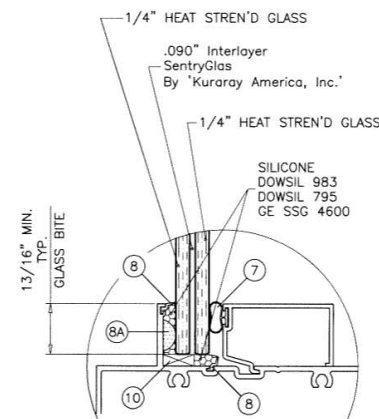
GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
28"	114-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48-1/2"		62.2	90.0
51-1/2"		-	90.0
54-1/2"		-	70.0
60-1/2"	120-1/2"	-	63.6
66-1/2"		-	58.3
44-1/4"		70.0	90.0
48"		62.2	90.0
50"		-	90.0
54-1/2"		-	70.0
60-1/2"		-	63.6
42-1/4"	126-1/2"	70.0	90.0
44-1/4"		-	90.0
48"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0
40"	132-1/2"	70.0	90.0
42-1/4"		70.0	90.0
44-1/4"		-	90.0
46"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0
40"		70.0	90.0
42-1/4"	138-1/2"	70.0	90.0
44-1/4"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0
40"	144-1/2"	70.0	90.0
42-1/4"		70.0	90.0
44-1/4"		-	90.0
46"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0
40"		70.0	90.0
42-1/4"		70.0	90.0

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



GLASS TYPE 'A'

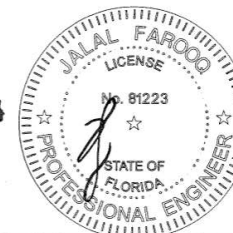


GLASS TYPE 'B'

GLAZING OPTIONS

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-032107**
Expiration Date: **04/03/2028**
By: *Manuel Jero*
Miami-Dade Product Control

MAR 19 2024



GLASS

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.J.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W07-60ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (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
	1	08-03-07	by	description
	2	11-12-20	updated	to 2020 FBC
	3	05-10-21	GENERAL	REVISION
	4	07-18-23	NO CHANGE	THIS SHEET
	5	03-11-24	GENERAL	REVISION

date: 08-03-07
scale: 1/2"=1'-0"
dr: TARIQ
chk: by

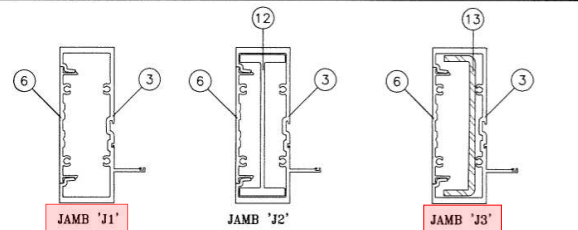
drawing no.
W07-60

sheet 2 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' JAMB 'J3' MULL 'M3'	JAMB 'J3' MULL 'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0
60"		127.3	130.0	130.0	130.0
30"	90"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		122.9	130.0	130.0	130.0
60"		114.9	130.0	130.0	130.0
30"	96"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		121.1	130.0	130.0	130.0
48"		108.6	130.0	130.0	130.0
54"		99.4	130.0	125.6	130.0
60"		92.4	130.0	116.3	130.0
30"	98-1/2"	130.0	130.0	130.0	130.0
36"		127.6	130.0	130.0	130.0
42"		111.6	130.0	130.0	130.0
48"		100.0	130.0	130.0	130.0
54"		91.4	130.0	118.6	130.0
58"		86.8	130.0	112.4	130.0
30"	102"	130.0	130.0	130.0	130.0
36"		114.5	130.0	130.0	130.0
42"		100.0	130.0	130.0	130.0
48"		89.5	130.0	120.9	130.0
54"		81.6	130.0	109.8	130.0
56"		79.4	127.7	106.7	130.0
30"	108"	113.5	130.0	130.0	130.0
36"		95.9	130.0	130.0	130.0
42"		83.6	130.0	120.3	130.0
48"		74.6	120.0	107.0	130.0
53"		68.8	110.7	98.4	130.0
30"	110-1/2"	105.9	130.0	130.0	130.0
36"		89.4	130.0	130.0	130.0
42"		77.8	125.2	114.7	130.0
48"		69.4	111.6	101.9	130.0
52"		64.9	104.5	95.1	130.0
30"	114"	96.2	130.0	130.0	130.0
36"		81.2	130.0	123.8	130.0
42"		70.6	113.6	107.4	130.0
48"		62.9	101.1	95.3	130.0
50"		60.8	97.7	92.0	130.0
30"	120"	82.3	130.0	130.0	130.0
36"		69.3	111.5	111.4	130.0
42"		60.2	96.9	96.5	130.0
48"		53.5	86.1	85.5	130.0

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

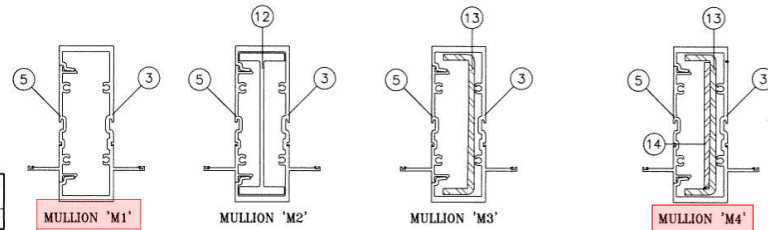
MULLION LOAD CAPACITY - PSF MULLIONS W/O INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J2' JAMB 'J3' MULL 'M4'	JAMB 'J3' MULL 'M4'	UNANCHORED JAMB OPTIONS MULL OPTIONS	
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)		
54"	120"	90.0	90.0		
57"		90.0	90.0		
60"		-	70.0		
66"		-	70.0		
72"		-	70.0		
30"	126"	90.0	90.0		
36"		90.0	90.0		
42"		90.0	90.0		
48"		90.0	90.0		
54"		90.0	90.0		
60"		-	70.0		
30"	132"	90.0	90.0		
36"		90.0	90.0		
42"		90.0	90.0		
48"		90.0	90.0		
52"		90.0	90.0		
54"		-	70.0		
30"	138"	90.0	90.0		
36"		90.0	90.0		
42"		90.0	90.0		
48"		90.0	90.0		
50"		86.9	86.9		
54"		-	70.0		
30"	144"	90.0	90.0		
36"		90.0	90.0		
42"		89.4	89.4		
48"		79.0	79.0		
54"		-	65.1		
60"		-	59.3		



Ix IN ⁴	Sx IN ³
6.6509	2.6421

Ix IN ⁴	Sx IN ³
10.6486	4.4452

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	6.6509	2.6421
TOTAL	2.7506	1.2225
Ix ALUM + Ix STL X 2.9	14.6276	

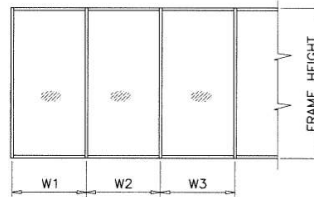


Ix IN ⁴	Sx IN ³
6.7195	2.6757

Ix IN ⁴	Sx IN ³
10.8072	3.7590

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	6.7195	2.6757
TOTAL	2.7506	1.2225
Ix ALUM + Ix STL X 2.9	14.6962	

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	6.7195	2.6757
TOTAL	3.7533	1.668
Ix ALUM + Ix STL X 2.9	17.6047	

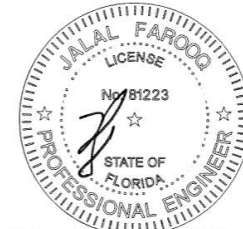


WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel J. Perez*
Miami-Dade Product Control

MAR 19 2024



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 8000 ALUM WINDOW WALL SYSTEM (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	description
G	11.12.20	UPDATED TO 2020 FBC
H	05.10.21	GENERAL REVISION
I	07.18.23	NO CHANGE THIS SHEET
J	03.11.24	NO CHANGE THIS SHEET

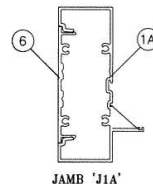
date: 08-03-07
scale: -
dr. by: TARIO
chk. by:

drawing no. **W07-60**
sheet 3 of 12

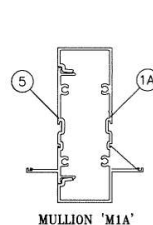
MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		60.0	70.0
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		60.0	70.0
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		55.6	70.0
60"		51.5	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		57.6	70.0
54"		52.4	70.0
60"			
30"	102"	60.0	70.0
36"		60.0	70.0
42"		59.7	70.0
48"		53.2	70.0
54"		48.3	70.0
60"			
30"	108"	60.0	70.0
36"		60.0	70.0
42"		52.6	70.0
48"		46.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		57.1	70.0
42"		49.7	70.0
48"		44.3	70.0
54"		-	70.0
60"		-	70.0
30"	114"	60.0	70.0
36"		51.8	70.0
42"		45.1	70.0
48"		40.1	70.0
54"		-	70.0
60"		-	70.0
30"	120"	52.5	70.0
36"		44.3	70.0
42"		38.5	70.0
48"		34.2	66.7
54"		-	60.4
57"		-	57.8

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
60"		-	
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	49.6
52"		-	46.2
30"	138"	-	67.1
36"		-	56.3
42"		-	48.8
48"		-	43.2
50"		-	41.6
30"	144"	-	58.9
36"		-	49.5
42"		-	42.8
48"		-	37.8

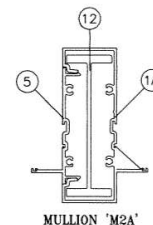
UNANCHORED
JAMB OPTIONS
MULL OPTIONS



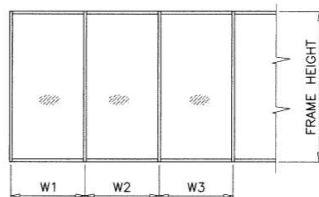
Ix IN ⁴	Sx IN ³
4.1316	1.6902



Ix IN ⁴	Sx IN ³
4.2902	1.7239



Ix IN ⁴	Sx IN ³
8.3779	3.527



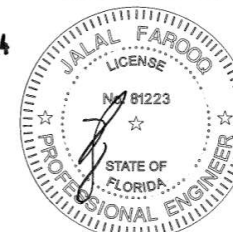
WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Torres*
Miami-Dade Product Control

MAR 19 2024



af c
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
STORE W07-60ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (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	05.10.21		GENERAL REVISION
	I	07.18.23		NO CHANGE THIS SHEET
	J	03.11.24		NO CHANGE THIS SHEET

date:	08-03-07
scale:	-
dr. by:	TARQ
chk. by:	

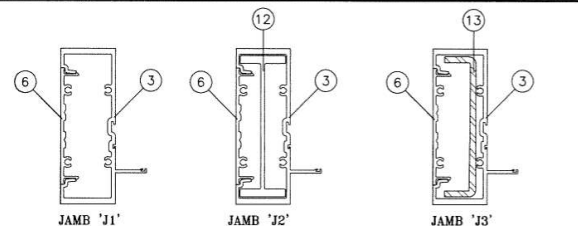
drawing no.
W07-60
sheet 3.1 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS					UNANCHORED JAMB OPTIONS MULL OPTIONS
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	MULL 'M1'	MULL 'M2'	MULL 'M3'	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	78"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0
60"		130.0	130.0	130.0	130.0
30"	86-1/2"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		118.9	130.0	130.0	130.0
60"		107.0	130.0	124.8	130.0
30"	90"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		119.2	130.0	130.0	130.0
54"		105.9	130.0	128.1	130.0
60"		95.3	130.0	115.3	130.0
30"	96"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		112.2	130.0	130.0	130.0
48"		98.2	130.0	126.7	130.0
54"		87.3	130.0	112.6	130.0
60"		78.5	122.1	101.4	130.0
30"	98-1/2"	130.0	130.0	130.0	130.0
36"		121.2	130.0	130.0	130.0
42"		103.9	130.0	130.0	130.0
48"		90.9	130.0	120.3	130.0
54"		80.8	128.9	107.0	130.0
58"		75.2	120.0	99.6	130.0
30"	102"	130.0	130.0	130.0	130.0
36"		109.1	130.0	130.0	130.0
42"		93.6	130.0	128.3	130.0
48"		81.9	130.0	112.2	130.0
54"		72.8	117.0	99.8	130.0
56"		70.2	112.8	96.2	130.0
30"	108"	110.3	130.0	130.0	130.0
36"		91.9	130.0	130.0	130.0
42"		78.8	126.8	114.4	130.0
48"		69.0	110.9	100.1	130.0
53"		62.5	100.4	90.7	130.0
56"		103.0	130.0	130.0	130.0
30"	110-1/2"	85.8	130.0	127.5	130.0
42"		73.6	118.3	109.3	130.0
48"		64.4	103.6	95.6	130.0
52"		59.4	95.6	88.3	130.0
30"	114"	93.8	130.0	130.0	130.0
36"		78.2	125.7	119.8	130.0
42"		67.0	107.8	102.7	130.0
48"		58.6	94.3	89.8	130.0
50"		56.3	90.5	86.2	130.0
30"	120"	80.4	129.4	129.7	130.0
36"		67.0	107.8	108.1	130.0
42"		57.5	92.4	92.7	130.0
48"		50.3	80.9	81.1	130.0

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS				UNANCHORED JAMB OPTIONS MULL OPTIONS
NOMINAL DIMS.		JAMB 'J2'	JAMB 'J3'	
		MULL 'M4'	MULL 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
54"	120"	90.0	90.0	
57"		90.0	90.0	
30"	126"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
54"		90.0	90.0	
60"		—	70.0	
30"	132"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
52"		90.0	90.0	
54"		—	70.0	
60"		—	66.6	
30"	138"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		86.6	86.6	
50"		83.1	83.1	
54"		—	67.7	
60"		—	60.9	
30"	144"	90.0	90.0	
36"		90.0	90.0	
42"		87.1	87.1	
48"		76.2	76.2	
54"		—	62.2	
60"		—	55.9	

NOTE:
INTERPOL

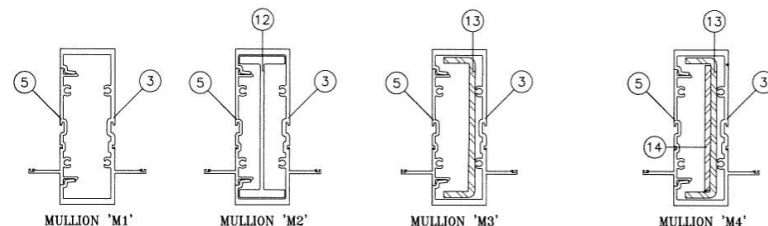
NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.



1x IN⁴ Sx IN³
6.6509 2.6421

1x IN⁴ Sx IN³
10.6486 4.4452

ALUMINUM	1x IN ⁴ Sx IN ³	6.6509 2.6421
STEEL		2.7506 1.2225
TOTAL	1x ALUM + 1x STL X 2.9	14.6276

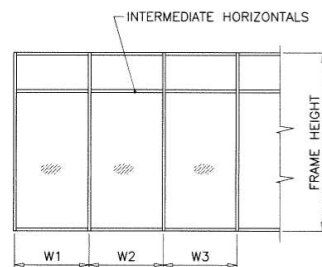


1x IN⁴ Sx IN³
6.7195 2.6757

1x IN⁴ Sx IN³
10.8072 3.7590

ALUMINUM	1x IN ⁴ Sx IN ³	6.7195 2.6757
STEEL		2.7506 1.2225
TOTAL	1x ALUM + 1x STL X 2.9	14.6962

ALUMINUM	1x IN ⁴ Sx IN ³	6.7195 2.6757
STEEL		3.7533 1.668
TOTAL	1x ALUM + 1x STL X 2.9	17.6047



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Fern*
Miami-Dade Product Control

MAR 19 2024



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
STORE W07-G0ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (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
		G	11.12.20		UPDATED TO 2020 FBC
		H	05.10.21		GENERAL REVISION
		I	07.18.23		NO CHANGE THIS SHEET
		J	03.11.24		NO CHANGE THIS SHEET

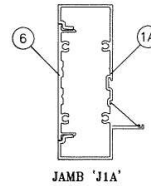
date: 08-03-07
scale: -
dr: TARIQ
chk: by:

drawing no.
W07-60
sheet 4 of 12

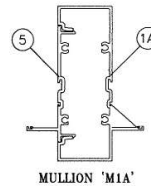
MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A' MULL 'M1A'	JAMB 'J1A' MULL 'M2A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		55.9	70.0
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		57.1	70.0
60"		51.4	70.0
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		56.1	70.0
54"		49.9	70.0
60"		44.9	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		53.2	70.0
54"		47.2	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		56.4	70.0
48"		49.4	70.0
54"		43.9	70.0
30"	108"	60.0	70.0
36"		58.4	70.0
42"		50.0	70.0
48"		43.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		54.8	70.0
42"		47.0	70.0
48"		41.1	70.0
54"		-	70.0
60"		-	70.0
30"	114"	59.9	70.0
36"		49.9	70.0
42"		42.8	70.0
48"		37.4	70.0
54"		-	70.0
30"	120"	51.4	70.0
36"		42.8	70.0
42"		36.7	70.0
48"		32.1	66.7
54"		-	60.4
57"		-	57.8

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A' MULL 'M1A'	JAMB 'J1A' MULL 'M2A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	49.6
52"		-	46.2
30"	138"	-	67.1
36"		-	56.3
42"		-	48.8
48"		-	43.2
50"		-	41.6
30"	144"	-	58.9
36"		-	49.5
42"		-	42.8
48"		-	37.8

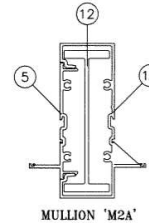
UNANCHORED
JAMB OPTIONS
MULL OPTIONS



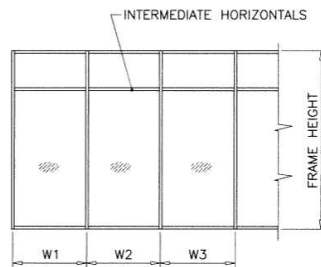
Ix IN ⁴	Sx IN ³
4.1316	1.6902



Ix IN ⁴	Sx IN ³
4.2902	1.7239



Ix IN ⁴	Sx IN ³
8.3779	3.527



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Ferr*
Miami-Dade Product Control

MAR 19 2024



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

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

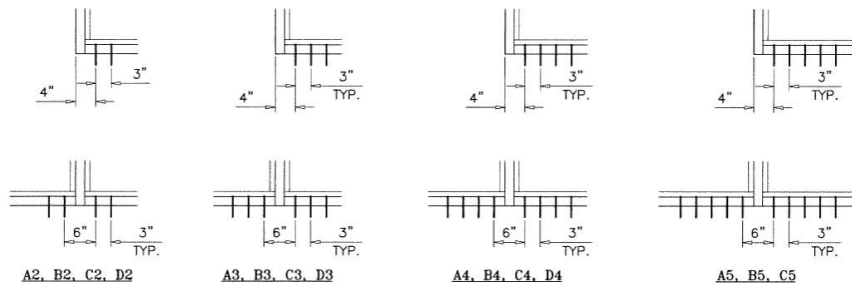
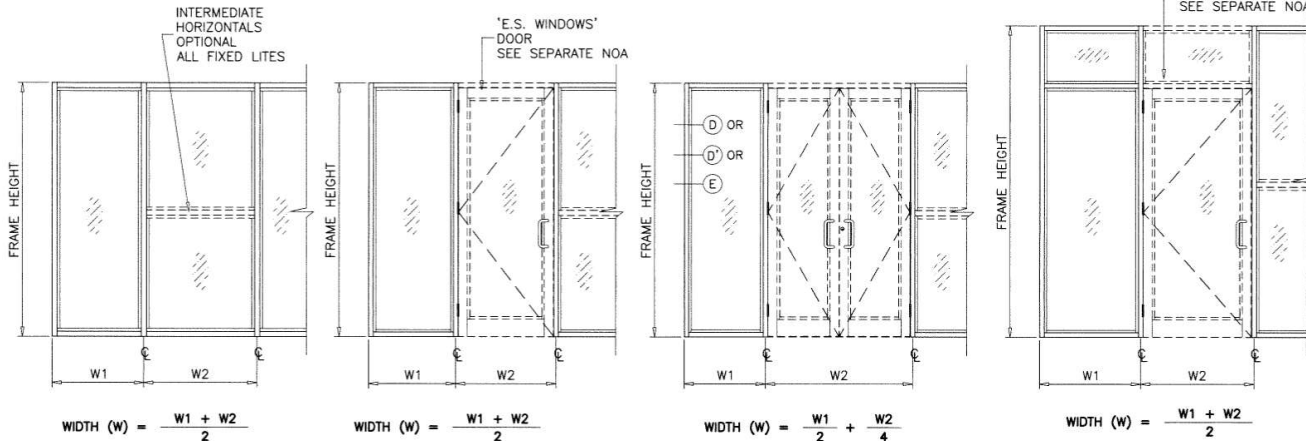
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description
1	05.10.21		GENERAL REVISION
2	07.18.23		NO CHANGE THIS SHEET
3	03.11.24		NO CHANGE THIS SHEET

date: 08-03-07
scale: -
dr: by: TARIQ
chk: by:

drawing no.
W07-60
sheet 4.1 of 12



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
 D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
 D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
 D4 = (4) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
- A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

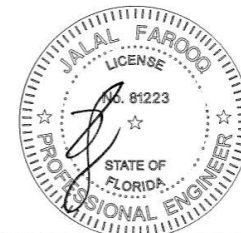
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

SEE SHEETS 5, 5.1, 5.2 & 7 FOR ANCHOR CAPACITY CHART.
 SEE SHEET 8 FOR ANCHOR DESCRIPTION.

ANCHORS

PRODUCT REVISED
 As complying with the Florida
 Building Code
 NOA-No. **24-0321.07**
 Expiration Date: **04/03/2028**
 By: *Manuel Ferr*
 Miami-Dade Product Control

MAR 19 2024



af c
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
 STORE W07-60ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (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
	1	08-03-07		NO CHANGE THIS SHEET
	2	11-12-20		NO CHANGE THIS SHEET
	3	05-10-21		NO CHANGE THIS SHEET
	4	07-18-23		NO CHANGE THIS SHEET
	5	03-11-24		NO CHANGE THIS SHEET

date: 08-03-07
 scale: -
 dr: TARIQ
 ch: by:

drawing no.
W07-60
 sheet 5 of 12

ANCHOR LOAD CAPACITY - PSF
EXT.(+) & INT.(-)

NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM			
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				ANCHORS TYPE 'D'			
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4	
30"	86-1/2"	59.1	88.6	118.2	130.0	46.1	69.2	92.2	115.3	67.9	101.9	130.0	130.0	53.3	79.9	106.5	130.0	115.9	130.0	130.0	130.0	91.4	130.0	130.0	130.0	130.0	130.0	130.0	
36"		49.2	73.9	98.5	123.1	38.4	57.7	76.9	96.1	56.6	84.9	113.2	130.0	44.4	66.6	88.8	111.0	96.6	130.0	130.0	130.0	76.2	114.3	130.0	130.0	130.0	130.0	130.0	
42"		42.2	63.3	84.4	105.5	32.9	49.4	65.9	82.4	48.5	72.8	97.0	121.3	38.1	57.1	76.1	95.1	82.8	123.7	130.0	130.0	65.3	98.0	130.0	130.0	124.0	130.0	130.0	
48"		36.9	55.4	73.9	92.3	28.8	43.2	57.7	72.1	42.5	63.7	84.9	106.1	33.3	49.9	66.6	83.2	72.4	108.2	130.0	130.0	57.2	85.7	114.3	130.0	108.5	130.0	130.0	
54"		32.8	49.2	65.7	82.1	25.6	38.4	51.2	64.1	37.7	56.6	75.5	94.3	29.6	44.4	59.2	74.0	64.4	96.2	128.7	130.0	50.8	76.2	101.6	127.0	96.4	130.0	130.0	
60"		29.5	44.3	59.1	73.9	23.1	34.6	46.1	57.7	34.0	50.9	67.9	84.9	26.6	40.0	53.3	66.6	57.9	86.6	115.9	130.0	45.7	68.6	91.4	114.3	86.8	130.0	130.0	
66"		26.9	40.3	53.7	67.1	21.0	31.4	41.9	52.4	30.9	46.4	61.8	77.3	24.3	36.4	48.5	60.6	52.7	79.0	105.4	130.0	41.5	62.2	83.0	103.7	78.9	118.3	130.0	
72"	24.6	36.9	49.2	61.5	-	28.8	38.4	48.0	28.3	42.5	56.7	70.8	22.2	33.4	44.5	55.6	48.3	72.4	96.6	120.7	38.0	57.0	76.1	95.1	72.3	108.5	130.0		
30"	90"	56.8	85.2	113.6	130.0	44.3	66.5	88.7	110.8	65.3	97.9	130.0	130.0	51.2	76.8	102.4	128.0	111.4	130.0	130.0	130.0	87.9	130.0	130.0	130.0	130.0	130.0	130.0	
36"		47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8	130.0	130.0	130.0	73.2	109.9	130.0	130.0	130.0	130.0	130.0	
42"		40.6	60.8	81.1	101.4	31.7	47.5	63.3	79.2	46.6	69.9	93.3	116.6	36.6	54.9	73.1	91.4	79.5	118.9	130.0	130.0	62.8	94.2	125.6	130.0	119.2	130.0	130.0	
48"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0	
54"		31.5	47.3	63.1	78.9	24.6	36.9	49.3	61.6	36.3	54.4	72.5	90.7	28.4	42.7	56.9	71.1	61.9	92.4	123.7	130.0	48.8	73.2	97.7	122.1	92.7	130.0	130.0	
60"		28.4	42.6	56.8	71.0	22.2	33.2	44.3	55.4	32.6	49.0	65.3	81.6	25.6	38.4	51.2	64.0	55.7	83.2	111.4	130.0	43.9	65.9	87.9	109.9	83.4	125.1	130.0	
66"		25.8	38.7	51.6	64.5	20.2	30.2	40.3	50.4	29.7	44.6	59.4	74.3	23.3	35.0	46.6	58.3	50.6	76.0	101.3	126.6	39.9	59.8	79.7	99.7	75.8	113.7	130.0	
72"	23.7	35.5	47.3	59.2	-	27.7	36.9	46.2	27.2	40.9	54.5	68.1	21.4	32.1	42.7	53.4	46.4	69.6	92.8	116.0	36.6	54.8	73.1	91.4	69.5	104.3	130.0		
30"	96"	53.2	79.9	106.5	130.0	41.6	62.3	83.1	103.9	61.2	91.8	122.4	130.0	48.0	72.0	96.0	120.0	104.4	130.0	130.0	130.0	82.4	123.6	130.0	130.0	130.0	130.0	130.0	
36"		44.4	66.6	88.7	110.9	34.6	52.0	69.3	86.6	51.0	76.5	102.0	127.5	40.0	60.0	80.0	100.0	87.0	130.0	130.0	130.0	68.7	103.0	130.0	130.0	130.0	130.0	130.0	
42"		38.0	57.0	76.1	95.1	29.7	44.5	59.4	74.2	43.7	65.6	87.4	109.3	34.3	51.4	68.6	85.7	74.6	111.4	130.0	130.0	58.9	88.3	117.7	130.0	111.7	130.0	130.0	
48"		33.3	49.9	66.6	83.2	26.0	39.0	52.0	64.9	38.3	57.4	76.5	95.6	30.0	45.0	60.0	75.0	65.3	97.5	130.0	130.0	51.5	77.3	103.0	128.8	97.8	130.0	130.0	
54"		29.6	44.4	59.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0	85.0	26.7	40.0	53.3	66.7	58.0	86.7	116.0	130.0	45.8	68.7	91.6	114.4	86.9	130.0	130.0	
60"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0	
66"		24.2	36.3	48.4	60.5	-	28.3	37.8	47.2	27.9	41.8	55.7	69.6	21.9	32.8	43.7	54.6	47.5	71.2	94.9	118.7	37.4	56.1	74.8	93.5	71.1	106.6	130.0	
72"	22.2	33.3	44.4	55.5	-	26.0	34.6	43.3	25.5	38.3	51.1	63.8	20.0	30.1	40.1	50.1	43.5	65.3	87.0	108.8	34.3	51.4	68.5	85.7	65.2	97.8	130.0		
30"	98-1/2"	51.9	77.8	103.8	129.7	40.5	60.8	81.0	101.3	59.6	89.5	119.3	130.0	46.8	70.2	93.6	117.0	101.8	130.0	130.0	130.0	80.3	120.5	130.0	130.0	130.0	130.0	130.0	
36"		43.2	64.9	86.5	108.1	33.8	50.6	67.5	84.4	49.7	74.6	99.4	124.3	39.0	58.5	78.0	97.5	84.8	126.7	130.0	130.0	66.9	100.4	130.0	130.0	127.0	130.0	130.0	
42"		37.1	55.6	74.1	92.7	28.9	43.4	57.9	72.3	42.6	63.9	85.2	106.5	33.4	50.1	66.8	83.5	72.7	108.6	130.0	130.0	57.4	86.0	114.7	130.0	108.9	130.0	130.0	
48"		32.4	48.6	64.9	81.1	25.3	38.0	50.6	63.3	37.3	55.9	74.6	93.2	29.2	43.9	58.5	73.1	63.6	95.0	127.2	130.0	50.2	75.3	100.4	125.5	95.3	130.0	130.0	
54"		28.8	43.2	57.7	72.1	22.5	33.8	45.0	56.3	33.1	49.7	66.3	82.8	26.0	39.0	52.0	65.0	56.5	84.5	113.1	130.0	44.6	66.9	89.2	111.5	84.7	127.0	130.0	
60"		25.9	38.9	51.9	64.9	20.3	30.4	40.5	50.6	29.8	44.7	59.6	74.6	23.4	35.1	46.8	58.5	50.9	76.0	101.8	127.2	40.2	60.2	80.3	100.4	76.2	114.3	130.0	
66"		23.6	35.4	47.2	59.0	-	27.6	36.8	46.0	27.1	40.7	54.3	67.9	21.3	31.9	42.6	53.2	46.3	69.4	92.5	115.7	36.4	54.6	72.9	91.1	69.3	103.9	130.0	
72"	21.6	32.4	43.2	54.1	-	25.3	33.8	42.2	24.9	37.3	49.8	62.2	-	29.3	39.0	48.8	42.4	63.6	84.8	106.0	33.4	50.1	66.8	83.5	63.5	95.3	127.0		
30"	102"	50.1	75.2	100.2	125.3	39.1	58.7	78.2	97.8	57.6	86.4	115.2	130.0	45.2	67.8	90.4	112.9	98.3	130.0	130.0	130.0	77.6	116.3	130.0	130.0	130.0	130.0	130.0	
36"		41.8	62.6	83.5	104.4	32.6	48.9	65.2	81.5	48.0	72.0	96.0	120.0	37.6	56.5	75.3	94.1	81.9	122.4	130.0	130.0	64.6	96.9	129.3	130.0	122.7	130.0	130.0	
42"		35.8	53.7	71.6	89.5	27.9	41.9	55.9	69.8	41.1	61.7	82.3	102.9	32.3	48.4	64.5	80.7	70.2	104.9	130.0	130.0	55.4	83.1	110.8	130.0	105.1	130.0	130.0	
48"		31.3	47.0	62.6	78.3	24.4	36.7	48.9	61.1	36.0	54.0	72.0	90.0	28.2	42.4	56.5	70.6	61.4	91.8	122.8	130.0	48.5	72.7	96.9	121.2	92.0	130.0	130.0	
54"		27.8	41.8	55.7	69.6	21.7	32.6	43.5	54.3	32.0	48.0	64.0	80.0	25.1	37.6	50.2	62.7	54.6	81.6	109.2	130.0	43.1	64.6	86.2	107.7	81.8	122.7	130.0	
60"		25.1	37.6	50.1	62.6	-	29.3	39.1	48.9	28.8	43.2	57.6	72.0	22.6	33.9	45.2	56.5	49.1	73.4	98.3	122.8	38.8	58.2	77.6	96.9	73.6	110.4	130.0	
66"		22.8	34.2	45.6	56.9	-	26.7	35.6	44.4	26.2	39.3	52.4	65.5	20.6	30.9	41.1	51.4	44.7	67.0	89.4	111.7	35.2	52.8	70.4	88.0	66.9	100.4	130.0	
72"	20.9	31.3	41.8	52.2	-	24.4	32.6	40.7	24.0	36.0	48.1	60.1	-	28.3	37.7	47.1	41.0	61.4	81.9	102.4	32.3	48.4	64.5	80.6	61.3	92.0	122.7		
30"	108"	47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8	130.0	130.0	130.0	73.2	109.9	130.0	130.0	130.0	130.0	130.0	
36"		39.4	59.2	78.9	98.6	30.8	46.2	61.6	77.0	45.3	68.0	90.7	113.3	35.6	53.3	71.1	88.9	77.3	115										

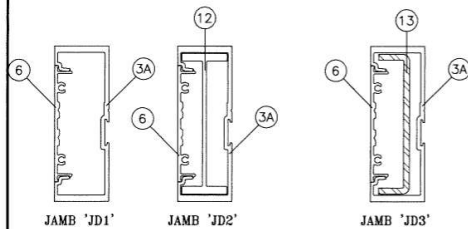
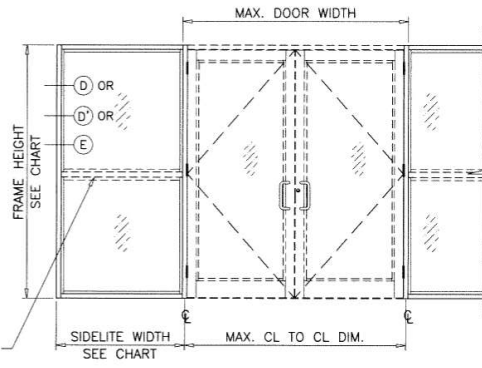
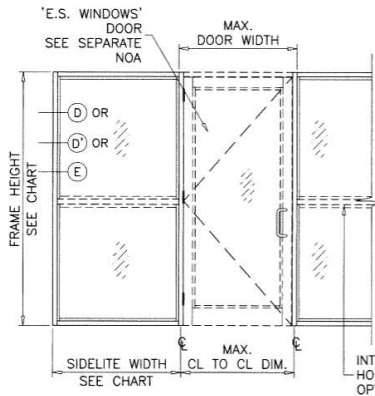
ANCHOR LOAD CAPACITY - PSF
EXT.(+) & INT.(-)

NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM		
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				ANCHORS TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4
30"	110-1/2"	46.3	69.4	92.5	115.6	36.1	54.2	72.2	90.3	53.2	79.8	106.3	130.0	41.7	62.6	83.4	104.3	90.7	130.0	130.0	130.0	71.6	107.4	130.0	130.0	130.0	130.0	130.0
36"		38.5	57.8	77.1	96.4	30.1	45.1	60.2	75.2	44.3	66.5	88.6	110.8	34.8	52.1	69.5	86.9	75.6	112.9	130.0	130.0	59.7	89.5	119.3	130.0	113.2	130.0	130.0
42"		33.0	49.6	66.1	82.6	25.8	38.7	51.6	64.5	38.0	57.0	76.0	94.9	29.8	44.7	59.6	74.5	64.8	96.8	129.6	130.0	51.1	76.7	102.3	127.8	97.1	130.0	130.0
48"		28.9	43.4	57.8	72.3	22.6	33.8	45.1	56.4	33.2	49.8	66.5	83.1	26.1	39.1	52.1	65.2	56.7	84.7	113.4	130.0	44.7	67.1	89.5	111.9	84.9	127.4	130.0
54"		25.7	38.5	51.4	64.2	20.1	30.1	40.1	50.1	29.5	44.3	59.1	73.8	23.2	34.8	46.3	57.9	50.4	75.3	100.8	126.0	39.8	59.7	79.5	99.4	75.5	113.2	130.0
60"		23.1	34.7	46.3	57.8	-	27.1	36.1	45.1	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.1	45.4	67.8	90.7	113.4	35.8	53.7	71.6	89.5	67.9	101.9	130.0
66"		21.0	31.5	42.0	52.6	-	24.6	32.8	41.0	24.2	36.3	48.4	60.5	-	28.5	38.0	47.5	41.2	61.9	82.5	103.1	32.5	48.7	65.0	81.2	61.8	92.6	123.5
72"	-	28.9	38.5	48.2	-	22.6	30.1	37.6	22.2	33.3	44.4	55.5	-	26.1	34.8	43.5	37.8	56.7	75.6	94.5	29.8	44.7	59.5	74.4	56.6	84.9	113.2	
30"	114"	44.8	67.3	89.7	112.1	35.0	52.5	70.0	87.5	51.5	77.3	103.1	128.8	40.4	60.6	80.8	101.1	87.9	130.0	130.0	130.0	69.4	104.1	130.0	130.0	130.0	130.0	130.0
36"		37.4	56.0	74.7	93.4	29.2	43.7	58.3	72.9	42.9	64.4	85.9	107.4	33.7	50.5	67.4	84.2	73.3	109.5	130.0	130.0	57.8	86.7	115.6	130.0	109.8	130.0	130.0
42"		32.0	48.0	64.0	80.1	25.0	37.5	50.0	62.5	36.8	55.2	73.6	92.0	28.9	43.3	57.7	72.2	62.8	93.8	125.6	130.0	49.6	74.3	99.1	123.9	94.1	130.0	130.0
48"		28.0	42.0	56.0	70.1	21.9	32.8	43.7	54.7	32.2	48.3	64.4	80.5	25.3	37.9	50.5	63.2	54.9	82.1	109.9	130.0	43.4	65.1	86.7	108.4	82.3	123.5	130.0
54"		24.9	37.4	49.8	62.3	-	29.2	38.9	48.6	28.6	42.9	57.3	71.6	22.5	33.7	44.9	56.1	48.8	73.0	97.7	122.1	38.5	57.8	77.1	96.4	73.2	109.8	130.0
60"		22.4	33.6	44.8	56.0	-	26.2	35.0	43.7	25.8	38.7	51.5	64.4	20.2	30.3	40.4	50.5	44.0	65.7	87.9	109.9	34.7	52.0	69.4	86.7	65.9	98.8	130.0
66"		20.4	30.6	40.8	50.9	-	23.9	31.8	39.8	23.5	35.2	46.9	58.6	-	27.6	36.8	46.0	40.0	60.0	80.0	99.9	31.5	47.2	63.0	78.7	59.9	89.8	119.7
72"	-	28.0	37.4	46.7	-	21.9	29.2	36.5	21.5	32.3	43.0	53.8	-	25.3	33.7	42.2	36.6	55.0	73.3	91.6	28.9	43.3	57.7	72.1	54.9	82.3	109.8	
30"	120"	42.6	63.9	85.2	106.5	33.2	49.9	66.5	83.1	49.0	73.4	97.9	122.4	38.4	57.6	76.8	96.0	83.5	124.8	130.0	130.0	65.9	98.9	130.0	130.0	125.1	130.0	130.0
36"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0
42"		30.4	45.6	60.8	76.1	23.7	35.6	47.5	59.4	35.0	52.5	69.9	87.4	27.4	41.1	54.9	68.6	59.7	89.1	119.3	130.0	47.1	70.6	94.2	117.7	89.4	130.0	130.0
48"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0
54"		23.7	35.5	47.3	59.2	-	27.7	36.9	46.2	27.2	40.8	54.4	68.0	21.3	32.0	42.7	53.3	46.4	69.3	90.0	90.0	36.6	54.9	73.2	90.0	69.5	90.0	90.0
60"		21.3	31.9	42.6	53.2	-	24.9	33.2	41.6	24.5	36.8	49.0	61.3	-	28.8	38.5	48.1	41.8	62.7	83.6	90.0	32.9	49.3	65.8	82.2	62.6	90.0	90.0
66"		-	29.0	38.7	48.4	-	22.7	30.2	37.8	22.3	33.4	44.6	55.7	-	26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0
72"	-	26.6	35.5	44.4	-	20.8	27.7	34.6	20.4	30.6	40.9	51.1	-	24.0	32.1	40.1	34.8	52.2	69.6	87.0	27.4	41.1	54.8	68.5	52.1	78.2	90.0	
30"	126"	40.6	60.8	81.1	90.0	31.7	47.5	63.3	79.2	46.6	69.9	90.0	90.0	36.6	54.9	73.1	90.0	79.5	90.0	90.0	90.0	62.8	90.0	90.0	90.0	90.0	90.0	90.0
36"		33.8	50.7	67.6	84.5	26.4	39.6	52.8	66.0	38.9	58.3	77.7	90.0	30.5	45.7	61.0	76.2	66.3	90.0	90.0	90.0	52.3	78.5	90.0	90.0	90.0	90.0	90.0
42"		29.0	43.5	57.9	72.4	22.6	33.9	45.2	56.5	33.3	50.0	66.6	83.3	26.1	39.2	52.2	65.3	56.8	84.9	90.0	90.0	44.8	67.3	89.7	90.0	85.1	90.0	90.0
48"		25.4	38.0	50.7	63.4	-	29.7	39.6	49.5	29.1	43.7	58.3	72.9	22.9	34.3	45.7	57.1	49.7	74.3	90.0	90.0	39.2	58.9	78.5	90.0	74.5	90.0	90.0
54"		22.5	33.8	45.1	56.3	-	26.4	35.2	44.0	25.9	38.9	51.8	64.8	20.3	30.5	40.6	50.8	44.2	66.0	88.4	90.0	34.9	52.3	69.8	87.2	66.2	90.0	90.0
60"		20.3	30.4	40.6	50.7	-	23.7	31.7	39.6	23.3	35.0	46.7	58.4	-	27.5	36.6	45.8	39.8	59.7	79.6	90.0	31.3	47.0	62.7	78.3	59.6	89.4	90.0
72"		-	26.6	35.5	44.4	-	20.8	27.7	34.6	20.4	30.6	40.9	51.1	-	24.0	32.1	40.1	34.8	52.2	69.6	87.0	27.4	41.1	54.8	68.5	52.1	78.2	90.0
30"	132"	38.7	58.1	77.4	90.0	30.2	45.3	60.5	75.6	44.5	66.8	89.0	90.0	34.9	52.4	69.8	87.3	75.9	90.0	90.0	90.0	59.9	89.9	90.0	90.0	90.0	90.0	90.0
36"		32.3	48.4	64.5	80.7	25.2	37.8	50.4	63.0	37.1	55.6	74.2	90.0	29.1	43.6	58.2	72.7	63.3	90.0	90.0	90.0	49.9	74.9	90.0	90.0	90.0	90.0	90.0
42"		27.7	41.5	55.3	69.1	21.6	32.4	43.2	54.0	31.8	47.7	63.6	79.5	24.9	37.4	49.9	62.3	54.2	81.0	90.0	90.0	42.8	64.2	85.6	90.0	81.2	90.0	90.0
48"		24.2	36.3	48.4	60.5	-	28.3	37.8	47.2	27.8	41.7	55.6	69.5	21.8	32.7	43.6	54.5	47.5	70.9	90.0	90.0	37.5	56.2	74.9	90.0	71.1	90.0	90.0
54"		21.5	32.3	43.0	53.8	-	25.2	33.6	42.0	24.8	37.1	49.5	61.9	-	29.1	38.9	48.6	42.2	53.3	84.4	90.0	33.2	49.8	66.5	83.1	63.2	90.0	90.0
60"		-	29.0	38.7	48.4	-	22.7	30.2	37.8	22.3	33.4	44.6	55.7	-	26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0
72"		37.0	55.6	74.1	92.6	28.9	43.4	57.8	72.3	42.6	63.9	85.1	90.0	33.4	50.1	66.8	83.5	72.6	90.0	90.0	90.0	57.3	86.0	90.0	90.0	90.0	90.0	90.0
30"	138"	30.9	46.3	61.7	77.2	24.1	36.1	48.2	60.2	35.5	53.2	71.0	88.7	27.8	41.7	55.7	69.6	60.5	90.0	90.0	90.0	47.8	71.7	90.0	90.0	90.0	90.0	90.0
36"		26.5	39.7	52.9	66.1	20.7	31.0	41.3	51.6	30.4	45.6	60.8	76.0	23.9	35.8	47.7	59.6	51.9	77.5	90.0	90.0	40.9	61.4	81.9	90.0	77.7	90.0	90.0
42"		23.1	34.7	46.3	57.9	-	27.1	36.1	45.2	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.2	45.4	67.8	90.0	90.0	35.8	53.7	71.7	89.6	68.0	90.0	90.0
48"		20.6	30.9	41.2	51.4	-	24.1	32.1	40.2	23.7	35.5	47.4	59.2	-	27.9	37.2	46.5	40.4	60.5	80.7	90.0	31.8	47.7	63.6	79.5	60.4	90.0	90.0
54"		-	27.8	37.0	46.3	-	21.7	28.9	36.1	21.3	32.0	42.6	53.3	-	25.1	33.4	41.8	36.3	54.5	72.7	90.0	28.6	42.9	57.2	71.5	54.4	81.6	90.0

DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' MULL 'MD3'	JAMB 'JD3' MULL 'MD4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	86-1/2	120.0	120.0	120.0	120.0
36		120.0	120.0	120.0	120.0
42		120.0	120.0	120.0	120.0
48		120.0	120.0	120.0	120.0
54		120.0	120.0	120.0	120.0
60		120.0	120.0	120.0	120.0
32	98-1/2	112.6	120.0	120.0	120.0
36		107.1	120.0	120.0	120.0
42		99.7	120.0	120.0	120.0
48		93.3	120.0	120.0	120.0
54		87.7	120.0	116.1	120.0
32	110-1/2	79.8	120.0	118.5	120.0
36		75.8	120.0	112.6	120.0
42		70.6	113.6	104.9	120.0
48		66.1	106.3	98.2	120.0
32	120	-	-	-	90.0
36		-	-	-	90.0
42		-	-	-	90.0
48		-	-	-	85.1

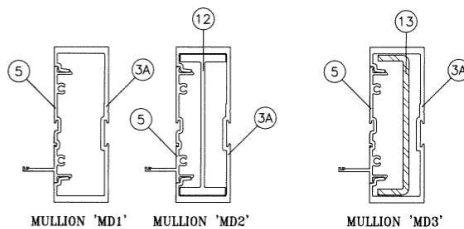
MAX. DOOR WIDTH = 45-1/2" (X)
87-1/2" (XX)
MAX. CL TO CL DIM. = 43-3/4" (X)
85-3/4" (XX)

MAX. DOOR WIDTH = 49-3/4" (X)
97-3/4" (XX)
MAX. CL TO CL DIM. = 48" (X)
96" (XX)



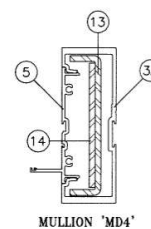
Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³
6.570	2.7226	10.6577	3.8057

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	2.7506	1.2224
TOTAL	14.5467	



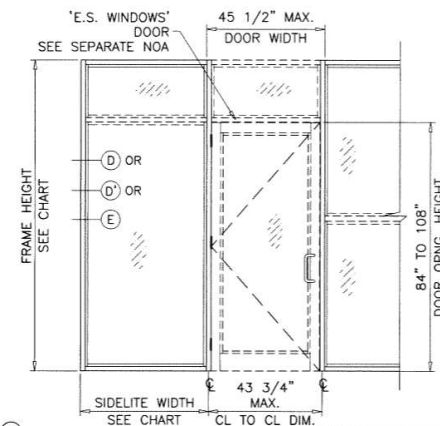
Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³
6.7195	2.6757	10.8072	4.4788

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	2.7506	1.224
TOTAL	14.6962	



ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	3.7533	1.668
TOTAL	17.6041	

DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' MULL 'MD3'	JAMB 'JD3' MULL 'MD4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	98-1/2	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
54		87.7	90.0	90.0	90.0
32	110-1/2	79.8	90.0	90.0	90.0
36		75.8	90.0	90.0	90.0
42		70.6	90.0	90.0	90.0
48		66.1	90.0	90.0	90.0
32	114	72.6	90.0	90.0	90.0
36		69.1	90.0	90.0	90.0
42		64.3	90.0	90.0	90.0
48		60.2	90.0	90.0	90.0
32	120	62.3	90.0	90.0	90.0
36		59.2	90.0	90.0	90.0
42		55.2	88.7	89.1	90.0
48		51.6	83.0	83.4	90.0
32	144	-	-	-	90.0
36		-	-	-	89.8
42		-	-	-	83.6
48		-	-	-	78.3



DOOR-WINDOWALL
TRANSITION MULLION

MAR 19 2024

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 24-0321.07

Expiration Date: 04/03/2028

By: *Manuel Jara*
Miami-Date 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 8000 ALUM WINDOW WALL SYSTEM (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
	G	11.12.20		UPDATED TO 2020 FRC
	H	05.10.21		NO CHANGE THIS SHEET
	I	07.18.23		NO CHANGE THIS SHEET
	J	03.11.24		GENERAL REVISION

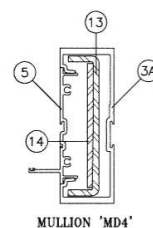
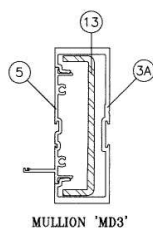
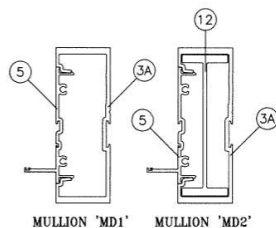
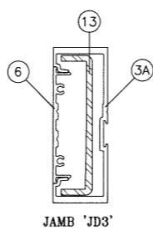
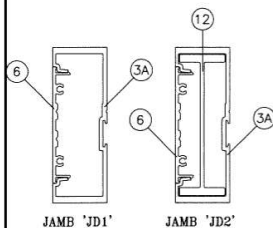
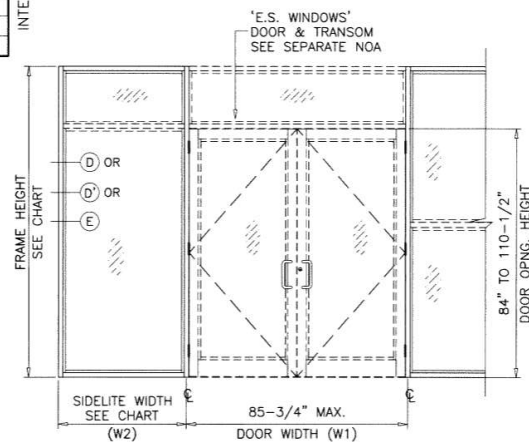
drawing no. **W07-60**
sheet 6 of 12

STORE W07-60ES

DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' JAMB 'JD3' MULL 'MD3'	JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	96	84	90.0	90.0	90.0	90.0
	36			90.0	90.0	90.0	90.0
	42			90.0	90.0	90.0	90.0
	48			90.0	90.0	90.0	90.0
	54			90.0	90.0	90.0	90.0
	60			85.7	90.0	90.0	90.0
	30	102		90.0	90.0	90.0	90.0
	36			86.9	90.0	90.0	90.0
	42			81.5	90.0	90.0	90.0
	48			76.7	90.0	90.0	90.0
	54			72.5	90.0	89.0	90.0
	30	108		74.2	90.0	90.0	90.0
	36			69.5	90.0	89.1	90.0
	42			65.4	90.0	84.4	90.0
	48			61.7	90.0	80.2	90.0
	30	114		60.2	90.0	81.7	90.0
	36			56.6	90.0	77.4	90.0
	42			53.3	85.8	73.4	87.8
	48			50.5	81.2	69.9	83.5
	30	120		49.7	80.0	71.9	85.9
	36			46.8	75.3	68.1	81.5
	42			44.2	71.2	64.8	77.4
	48			41.9	67.5	61.7	73.8
85-3/4	30	102	90	90.0	90.0	90.0	90.0
	36			90.0	90.0	90.0	90.0
	42			86.6	90.0	90.0	90.0
	48			81.2	90.0	90.0	90.0
	54			76.5	90.0	90.0	90.0
	30	108		79.3	90.0	90.0	90.0
	36			74.0	90.0	90.0	90.0
	42			69.3	90.0	88.9	90.0
	48			65.2	90.0	84.3	90.0
	30	114		63.9	90.0	85.6	90.0
	36			59.9	90.0	80.8	90.0
	42			56.3	90.0	76.5	90.0
	48			53.1	85.4	72.7	86.9
	30	120		52.4	84.2	74.5	89.1
	36			49.2	79.1	70.5	84.3
	42			46.3	74.5	66.9	80.0
	48			43.8	70.5	63.6	76.1

DOOR MULLION LOAD CAPACITY - PSF								
NOMINAL DIMS.				JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' JAMB 'JD3' MULL 'MD3'	JAMB 'JD3' MULL 'MD4'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
85-3/4	30	108	96	84.6	90.0	90.0	90.0	
	36			78.6	90.0	90.0	90.0	
	42			73.4	90.0	90.0	90.0	
	48			68.8	90.0	89.7	90.0	
	30	114		68.2	90.0	90.0	90.0	
	36			63.5	90.0	85.3	90.0	
	42			59.5	90.0	80.6	90.0	
	48			56.0	90.0	76.3	90.0	
	30	120		55.5	89.3	78.0	90.0	
	36			51.9	83.5	73.6	88.0	
	42			48.8	78.5	69.7	83.3	
	48			46.0	74.0	66.2	79.1	
85-3/4	30	114	102	72.4	90.0	90.0	90.0	
	36			67.2	90.0	90.0	90.0	
	42			62.7	90.0	85.9	90.0	
	48			58.8	90.0	81.1	90.0	
	30	120		59.0	90.0	82.6	90.0	
	36			55.0	88.4	77.7	90.0	
	42			51.5	82.8	73.3	87.7	
	48			48.4	77.8	69.4	83.0	
85-3/4	30	120	110-1/2	63.7	90.0	90.0	90.0	
	36			59.0	90.0	85.7	90.0	
	42			55.0	88.4	80.4	90.0	
	48			51.5	82.8	75.7	90.0	

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



1x IN ⁴	Sx IN ³	1x IN ⁴	Sx IN ³
6.570	2.7226	10.6577	3.8057

ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL 1x ALUM + 1x STL X 2.9	14.5467	

1x IN ⁴	Sx IN ³	1x IN ⁴	Sx IN ³
6.7195	2.6757	10.8072	4.4788

ALUMINUM	6.7195	2.6757
STEEL	2.7506	1.224
TOTAL 1x ALUM + 1x STL X 2.9	14.6962	

1x IN ⁴	Sx IN ³	1x IN ⁴	Sx IN ³
6.7195	2.6757	3.7533	1.668

ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL 1x ALUM + 1x STL X 2.9	17.6041	

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Fern*
Miami-Pade Product Control

**DOOR-WINDOWALL
TRANSITION MULLION**

MAR 19 2024



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

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

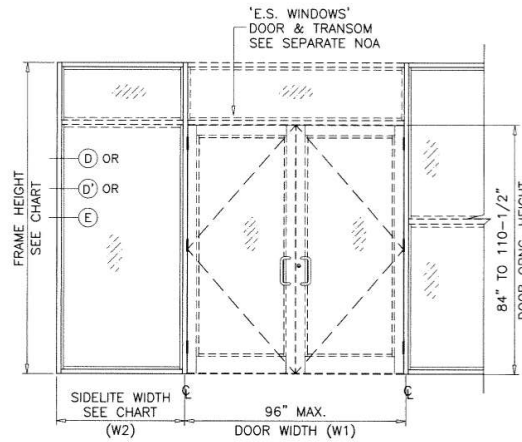
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	2	11-12-20		UPDATED TO 2020 FBC
	3	05-10-21		NO CHANGE THIS SHEET
	4	07-18-23		NO CHANGE THIS SHEET
	5	03-11-24		NO CHANGE THIS SHEET

drawing no. **W07-60**
sheet 6.1 of 12

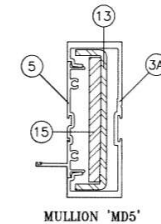
STORE W07-60ES

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	
96	30	96	84	90.0	
	36			90.0	
	42			90.0	
	48			90.0	
	54			90.0	
	60			90.0	
	30	102		90.0	
	36			90.0	
	42			90.0	
	48			90.0	
	54			90.0	
	30			108	90.0
	36	90.0			
	42	90.0			
	48	89.4			
	30	114			90.0
	36				85.5
	42			81.5	
	48			77.8	
	30			120	79.1
	36				75.3
	42	71.8			
	48	68.7			
96	30	102	90		90.0
	36				90.0
	42			90.0	
	48			90.0	
	54			90.0	
	30			108	90.0
	36	90.0			
	42	90.0			
	48	90.0			
	30	114			90.0
	36				89.5
	42			85.1	
	48			81.1	
	30			120	82.1
	36				78.0
	42	74.3			
	48	70.9			

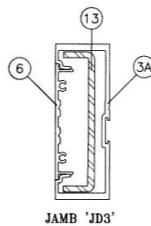
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT. (+) INT. (-)
96	30	108	96	90.0
	36			90.0
	42			90.0
	48			90.0
	30	114		90.0
	36			90.0
	42			89.8
	48			85.3
	30	120		86.1
	36			81.6
	42			77.5
	48			73.9
96	30	114	102	90.0
	36			90.0
	42			90.0
	48			90.0
	30	120		90.0
	36			86.3
	42			81.8
	48			77.7
96	30	120	110-1/2	90.0
	36			90.0
	42			90.0
	48			85.1
96	30	144	108	57.0
	36			54.2
	42			51.6
	48			49.2



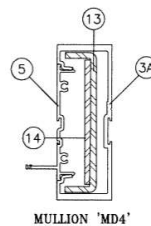
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD5'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT. (+) INT. (-)
76	30	144	108	78.4
	36			73.8
	42			69.7
	48			66.1
84	30			73.1
	36			69.1
	42			65.5
	48			62.3
96	30			66.3
	36			63.0
	42			60.0
	48			57.3



	1x IN"4	5x IN"3
ALUMINUM	6.7195	2.6757
STEEL	4.7506	2.1114
TOTAL	20.3598	
1x ALUM + 1x STL X 2.9		



	1x IN"4	5x IN"3
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL	14.5467	
1x ALUM + 1x STL X 2.9		



	1x IN"4	5x IN"3
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL	17.6041	
1x ALUM + 1x STL X 2.9		

DOOR-WINDOWALL
TRANSITION MULLION

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MAR 19 2024



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX (305) 262-8978
STORE W07-60ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (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
	1	08-03-07	by	description
	2	11-12-20	by	description
	3	05-10-21	by	description
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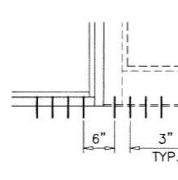
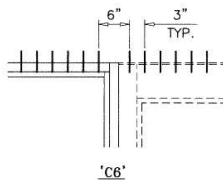
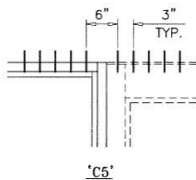
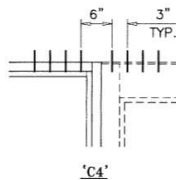
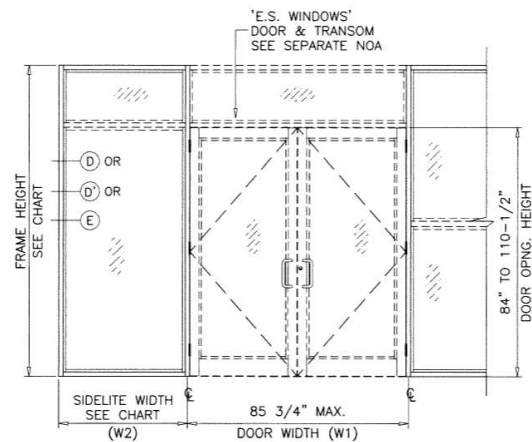
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scale:	-
dr:	TARO
chk:	by:

drawing no.
W07-60
sheet 6.2 of 12

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	96	84	89.6	90.0	90.0
	36			85.0	90.0	90.0
	42			80.8	90.0	90.0
	48			77.0	90.0	90.0
	54			73.6	90.0	90.0
	60			70.4	88.0	90.0
	30	102		86.0	90.0	90.0
	36			81.5	90.0	90.0
	42			77.4	90.0	90.0
	48			73.8	90.0	90.0
	54	108		70.4	88.0	90.0
	30			82.7	90.0	90.0
	36			78.3	90.0	90.0
	42			74.3	90.0	90.0
	48	114		70.8	88.4	90.0
	30			79.7	90.0	90.0
	36			75.4	90.0	90.0
	42			71.5	89.4	90.0
	48	120		68.0	85.0	90.0
	30			76.9	90.0	90.0
36	72.6		90.0	90.0		
42	68.9		86.1	90.0		
48		65.4	81.8	90.0		
85-3/4	30	102	90	84.1	90.0	90.0
	36			79.7	90.0	90.0
	42			75.8	90.0	90.0
	48			72.3	90.0	90.0
	54			69.1	86.4	90.0
	30	108		80.9	90.0	90.0
	36			76.7	90.0	90.0
	42			72.9	90.0	90.0
	48			69.4	86.8	90.0
	30	114		78.0	90.0	90.0
	36			73.9	90.0	90.0
	42			70.1	87.7	90.0
	48			66.8	83.5	90.0
	30	120		75.3	90.0	90.0
	36			71.2	89.1	90.0
	42			67.6	84.5	90.0
48	64.3		80.4	90.0		

DOOR MULLION HEAD ANCHOR LOAD CAPACITY – PSF								
NOMINAL DIMS.				'C4'	'C5'	'C6'		
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	INT.(+) EXT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)		
85–3/4	30	108	96	79.2	90.0	90.0		
	36			75.1	90.0	90.0		
	42			71.5	89.3	90.0		
	48			68.1	85.2	90.0		
	30	114		76.4	90.0	90.0		
	36			72.4	90.0	90.0		
	42			68.8	86.0	90.0		
	48			65.6	82.0	90.0		
	30	120		73.8	90.0	90.0		
	36			69.9	87.4	90.0		
	42			66.4	83.0	90.0		
	48			63.2	79.0	90.0		
85–3/4	30	114	102	74.9	90.0	90.0		
	36			71.0	88.8	90.0		
	42			67.6	84.5	90.0		
	48			64.4	80.5	90.0		
	30	120		72.4	90.0	90.0		
	36			68.6	85.7	90.0		
	42			65.2	81.5	90.0		
	48			62.1	77.7	90.0		
	85–3/4	30		120	110–1/2	70.4	88.0	90.0
		36				66.8	83.5	90.0
		42				63.6	79.5	90.0
		48				60.7	75.9	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



'C4' AT SILL ALL CASES

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Perez*
Miami-Dade Product Control

TRANSITION MULLION ANCHORS



MAR 19 2024

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 8000 ALUM WINDOW WALL SYSTEM (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
0	11.12.20		UPDATED TO 2020 FBC
1	05.10.21		NO CHANGE THIS SHEET
2	07.18.23		NO CHANGE THIS SHEET
3	03.11.24		NO CHANGE THIS SHEET

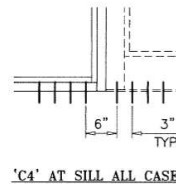
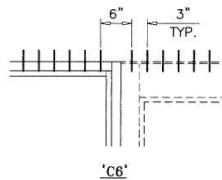
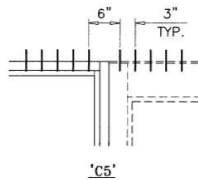
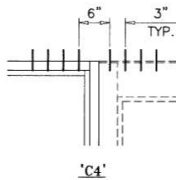
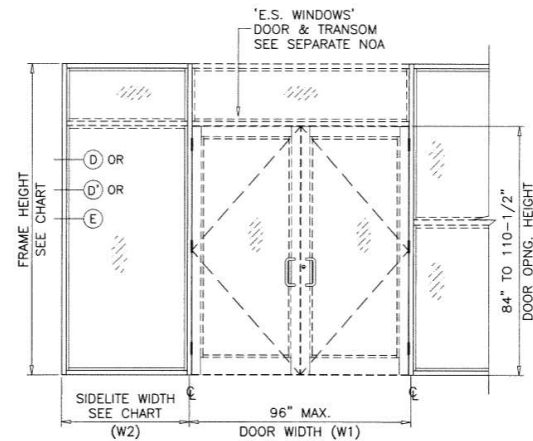
date: 08-03-07
scale: -
dr. by: TARO
chk. by:

drawing no. **W07-60**
sheet 7 of 12

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
96	30	96	84	82.4	90.0	90.0
	36			78.5	90.0	90.0
	42			74.9	90.0	90.0
	48			71.7	89.6	90.0
	54			68.7	85.8	90.0
	60			65.9	82.4	90.0
	30	102		79.2	90.0	90.0
	36			75.3	90.0	90.0
	42			71.8	89.8	90.0
	48			68.7	85.8	90.0
	54	108		65.8	82.2	90.0
	30			76.2	90.0	90.0
	36			72.4	90.0	90.0
	42			69.0	86.3	90.0
	48	114		65.9	82.4	90.0
	30			73.4	90.0	90.0
	36			69.8	87.2	90.0
	42			66.4	83.0	90.0
	48	120		63.4	79.2	90.0
	30			70.9	88.6	90.0
	36			67.3	84.1	90.0
	42			64.0	80.0	90.0
	48	90		61.0	76.3	90.0
96	30		77.3	90.0	90.0	
	36		73.7	90.0	90.0	
	42		70.3	87.9	90.0	
	48		67.3	84.1	90.0	
	54		64.5	80.6	90.0	
	30		108	74.5	90.0	90.0
	36			70.9	88.6	90.0
	42			67.6	84.5	90.0
	48			64.6	80.8	90.0
	30		114	71.8	89.8	90.0
	36			68.3	85.4	90.0
	42			65.1	81.4	90.0
	48			62.2	77.7	90.0
	30		120	69.4	86.7	90.0
	36			65.9	82.4	90.0
	42			62.8	78.5	90.0
	48	59.9		74.9	89.9	

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
96	30	108	96	72.8	90.0	90.0
	36			69.4	86.7	90.0
	42			66.3	82.8	90.0
	48			63.4	79.2	90.0
	30	114		70.3	87.9	90.0
	36			66.9	83.7	90.0
	42			63.8	79.8	90.0
	48			61.0	76.3	90.0
	30	120		68.0	84.9	90.0
	36			64.6	80.8	90.0
	42			61.6	77.0	90.0
	48			58.9	73.6	88.3
96	30	114	102	68.8	86.1	90.0
	36			65.6	82.0	90.0
	42			62.6	78.3	90.0
	48			59.9	74.9	89.9
	30	120		66.6	83.2	90.0
	36			63.4	79.2	90.0
	42			60.5	75.6	90.0
	48			57.8	72.3	86.7
96	30	120	110-1/2	64.7	80.9	90.0
	36			61.7	77.1	90.0
	42			58.9	73.7	88.4
	48			56.4	70.5	84.6
96	30	144	108	57.8	72.3	86.7
	36			54.9	68.7	82.4
	42			52.3	65.4	78.5
	48			49.9	62.4	74.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



TRANSITION MULLION ANCHORS

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Perez*
Miami-Dade Product Control

MAR 19 2024



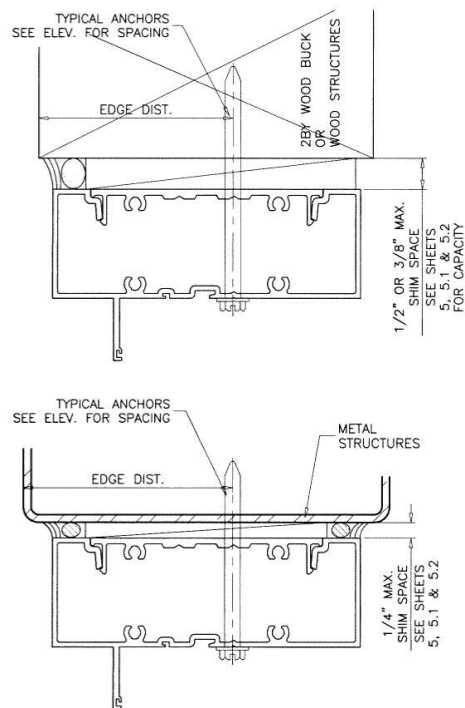
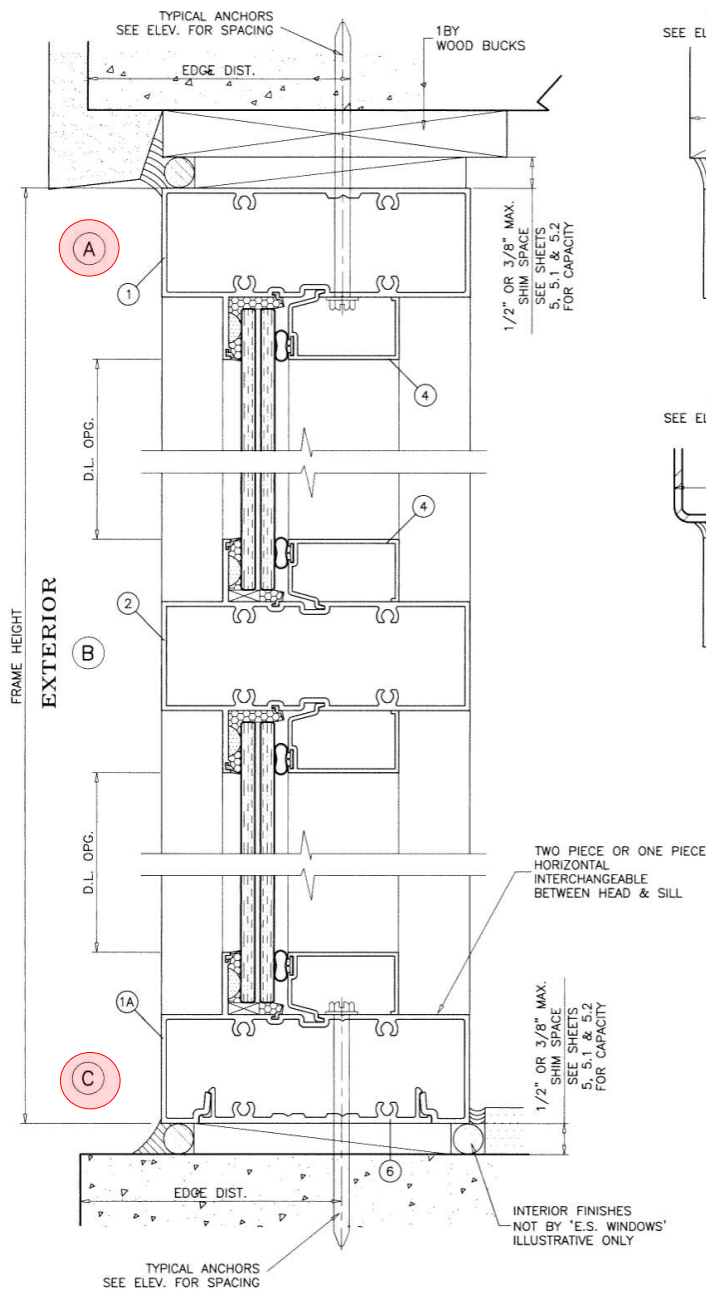
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX (305) 262-6978
STORE W07-G0ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)
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3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	no.	date	description
	1	08-03-07	by description
	2	11-12-20	UPDATED TO 2020 FBC
	3	05-10-21	NO CHANGE THIS SHEET
	4	07-18-23	NO CHANGE THIS SHEET
	5	03-11-24	NO CHANGE THIS SHEET

date: 08-03-07
scale: -
dr: TARIO
chk: by:

drawing no. **W07-60**
sheet 7.1 of 12



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C' - 5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'D' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)
 INTO METAL STRUCTURES (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.

PRODUCT REVISED
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Miami-Dade Product Control

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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

MAR 19 2024



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 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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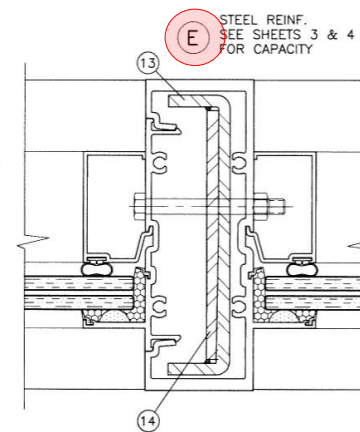
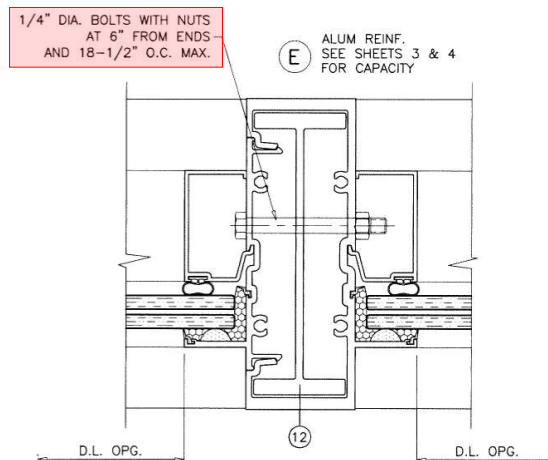
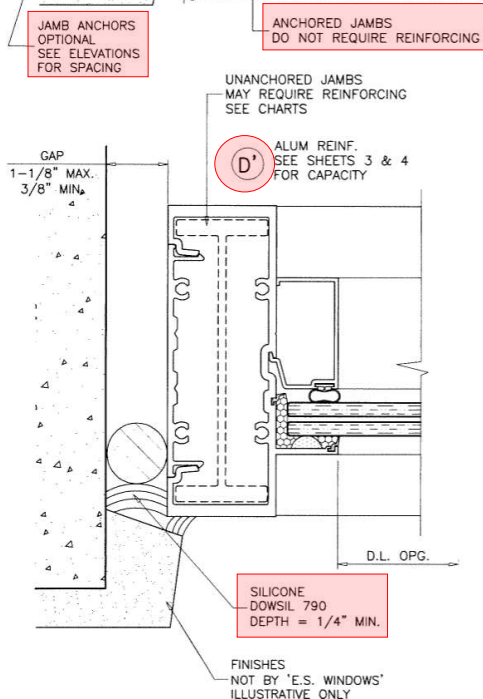
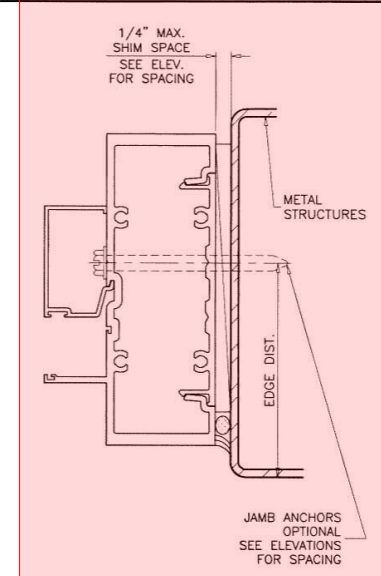
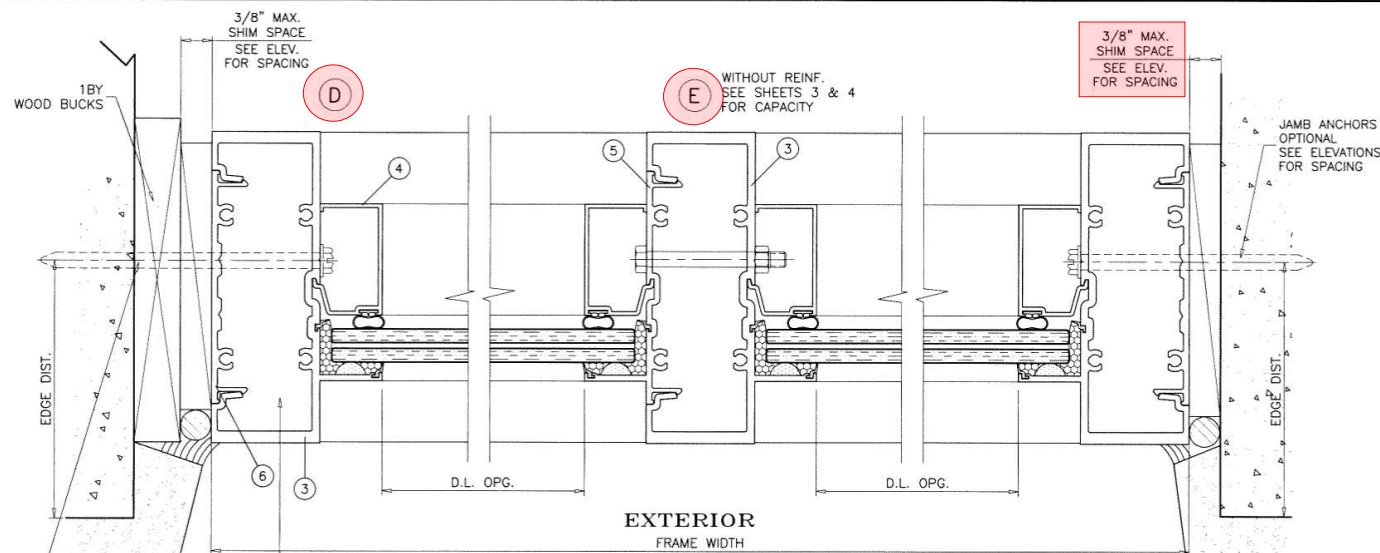
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

no.	date	by	description
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1	05/10/21		NO CHANGE THIS SHEET
1	07/18/23		NO CHANGE THIS SHEET
2	03/11/24		NO CHANGE THIS SHEET

date: 08-03-07
 scale: 1/2" = 1"
 dr. by: TARO
 chk. by:

drawing no.
W07-60

sheet 8 of 12



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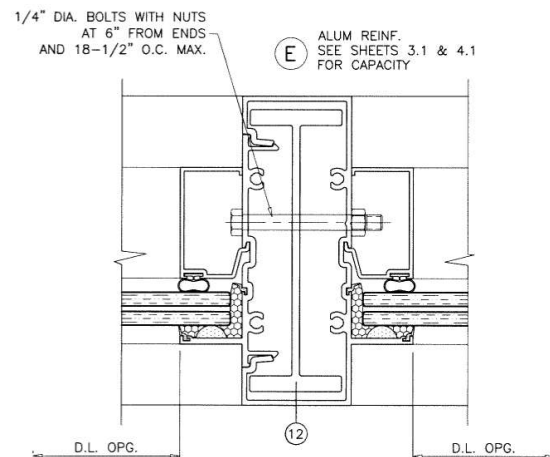
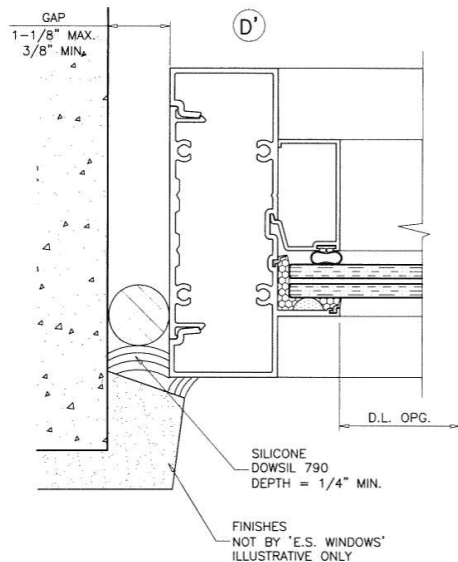
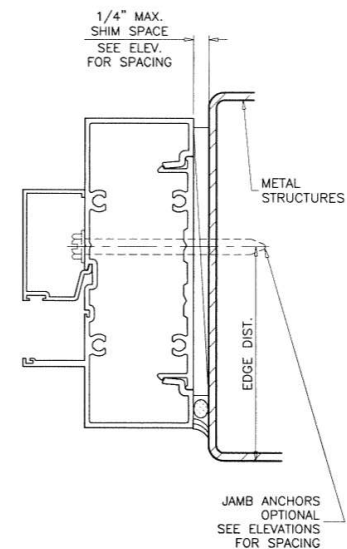
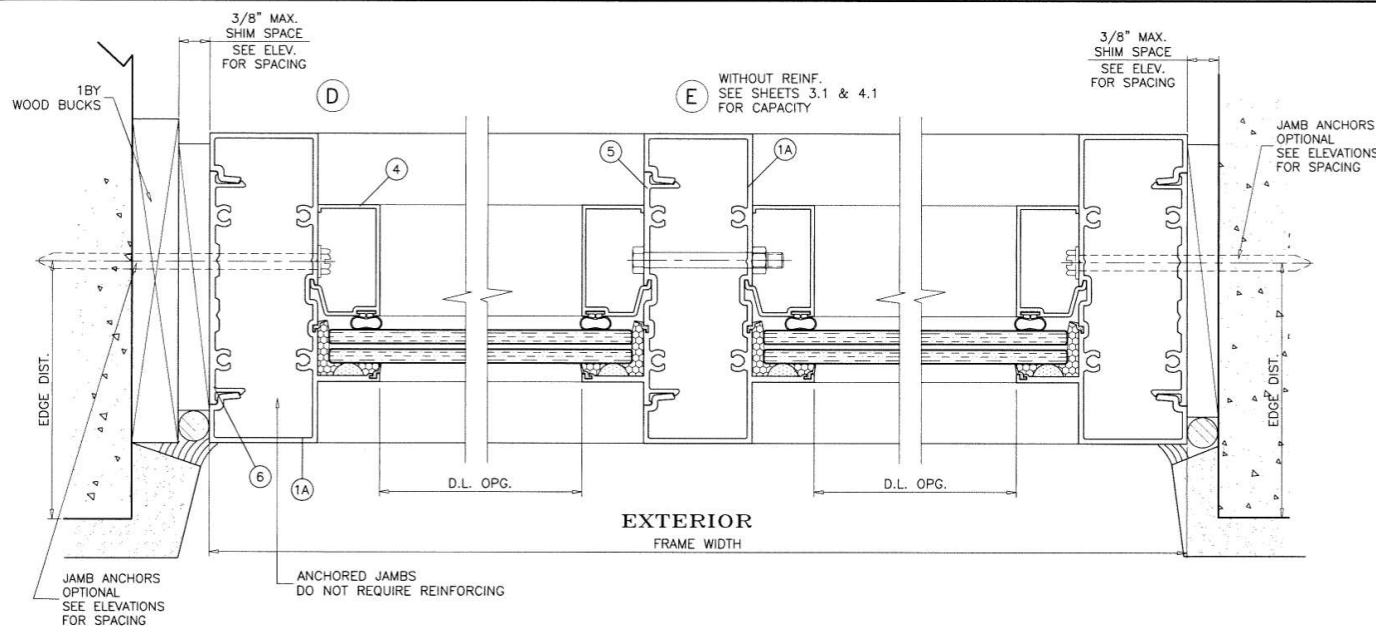
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 dr: TARIQ
 ch: by

drawing no. **W07-60**
 sheet 9 of 12



PRODUCT REVISED

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9360 SUNSET DRIVE, SUITE 220
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revisions:	no	date	by	description
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J	03.11.24	NO CHANGE THIS SHEET	chk. by:	

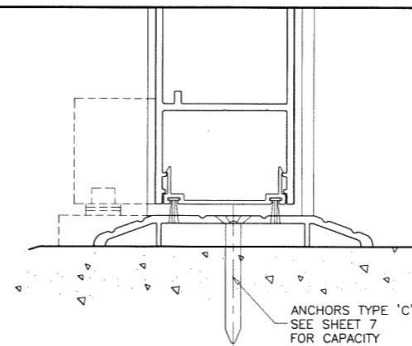
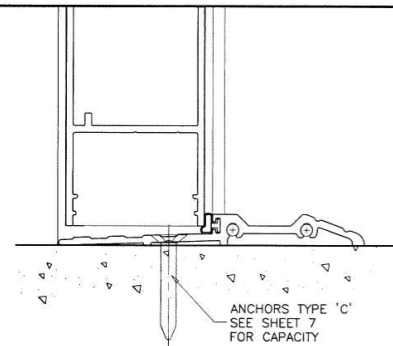
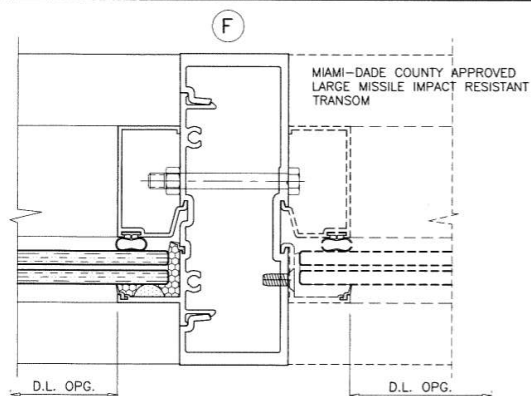
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drawing no. **W07-60**

sheet 9.1 of 12

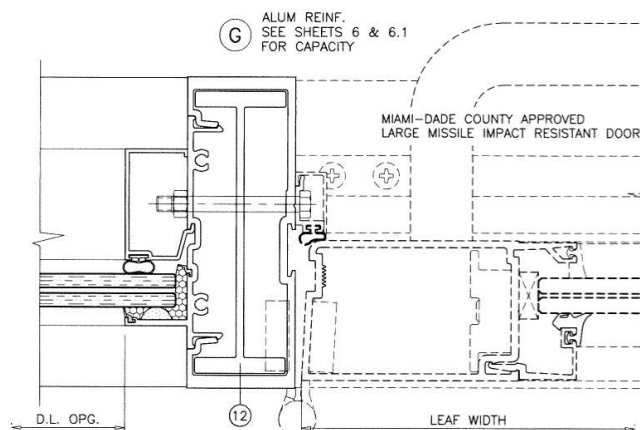
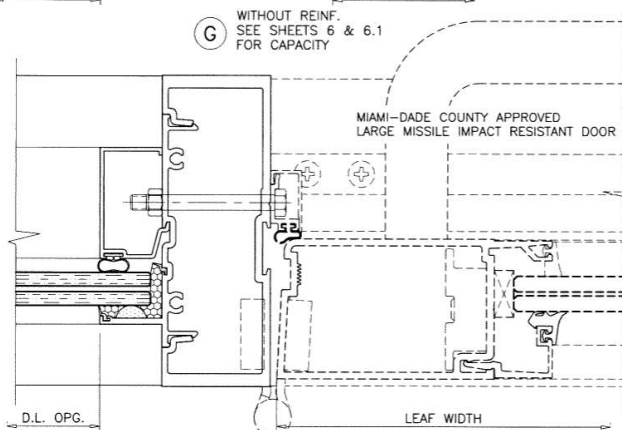
STORE W07-60ES



G WITHOUT REINF.
SEE SHEETS 6 & 6.1
FOR CAPACITY

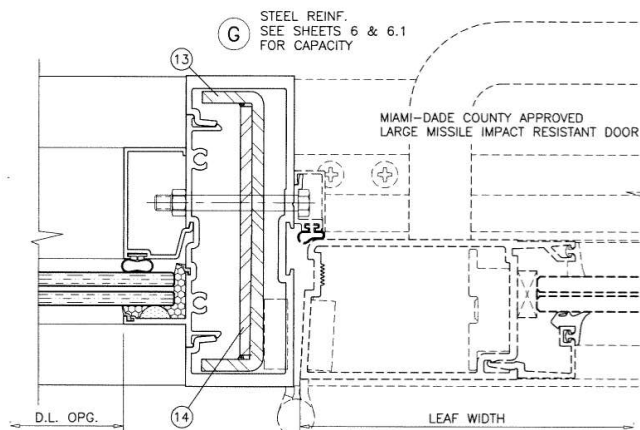
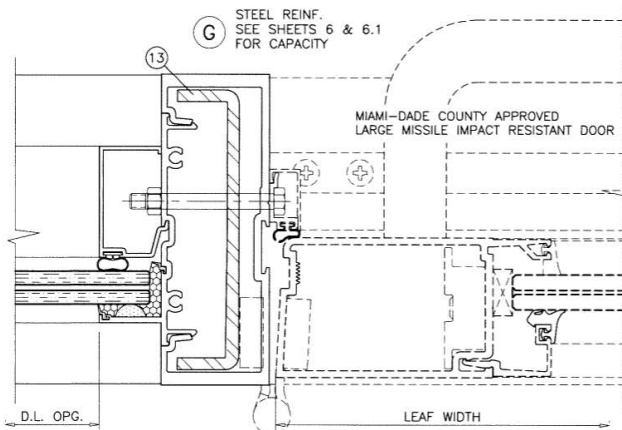
G ALUM REINF.
SEE SHEETS 6 & 6.1
FOR CAPACITY

SEE SEPARATE NOA FOR DESIGN LOAD
CAPACITY OF DOORS AND DOOR ANCHORS.
LOWER VALUES FROM DOORS NOA
OR STOREFRONT SYSTEM CAPACITY CHARTS
WILL APPLY TO ENTIRE SYSTEM.



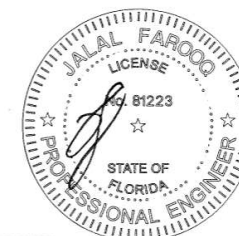
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SEE SHEETS 6 & 6.1
FOR CAPACITY

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SEE SHEETS 6 & 6.1
FOR CAPACITY



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Miami-Dade Product Control

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MIAMI, FLORIDA 33173 (C.A.N. 3538)
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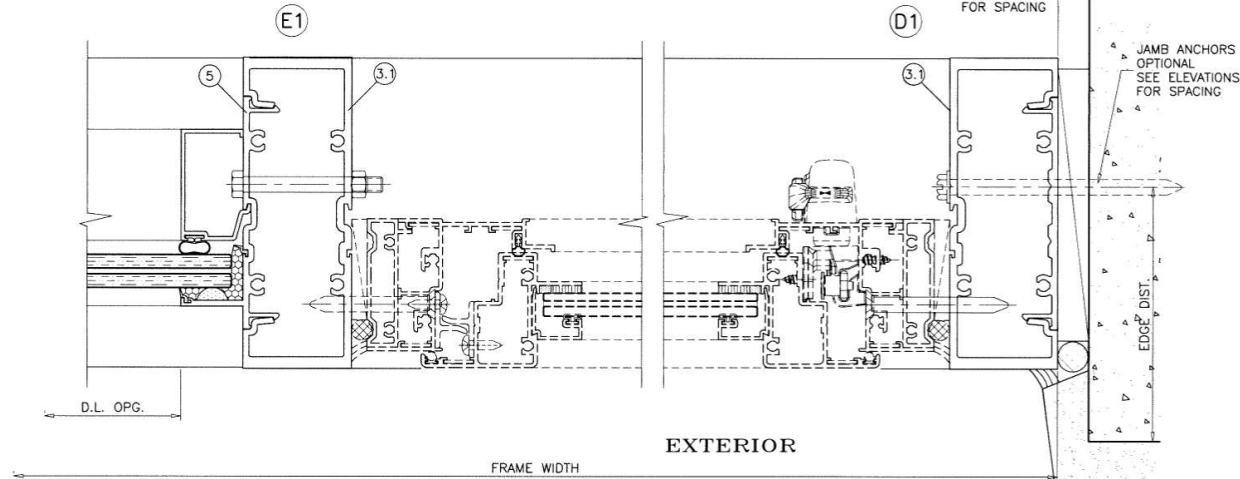
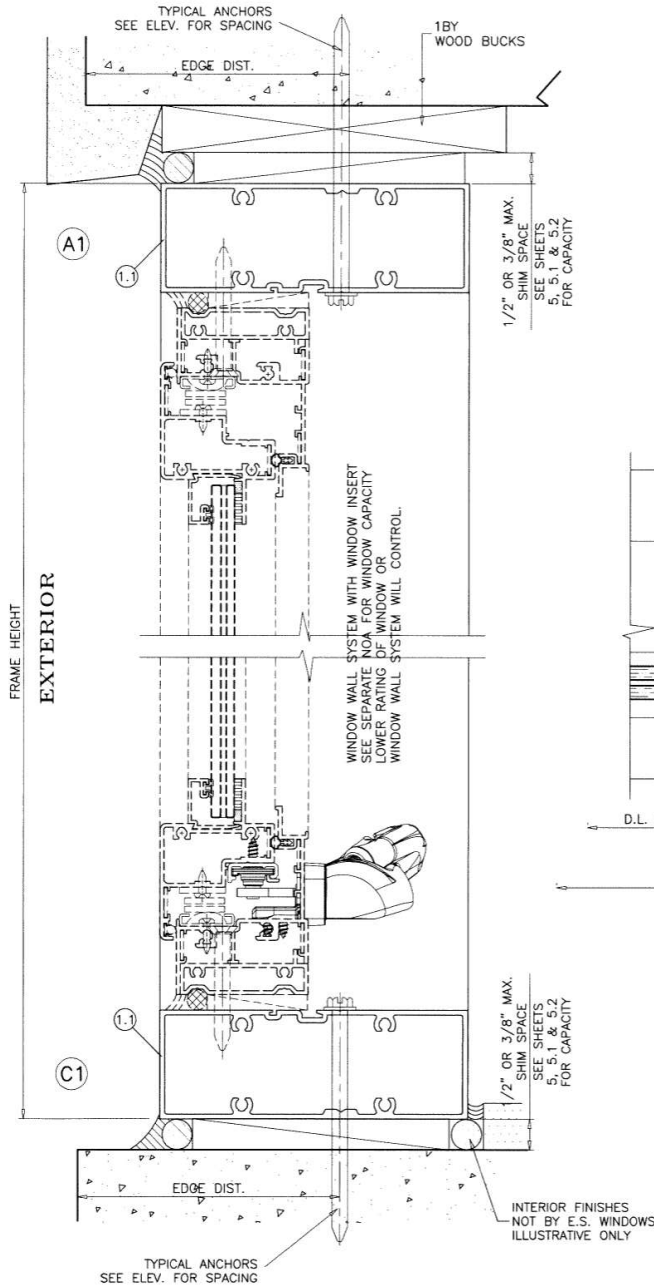
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revisions:	no.	date	by	description
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	J	03.11.24		NO CHANGE THIS SHEET

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dr. by: TARG
chk. by:

drawing no.
W07-60

sheet 10 of 12



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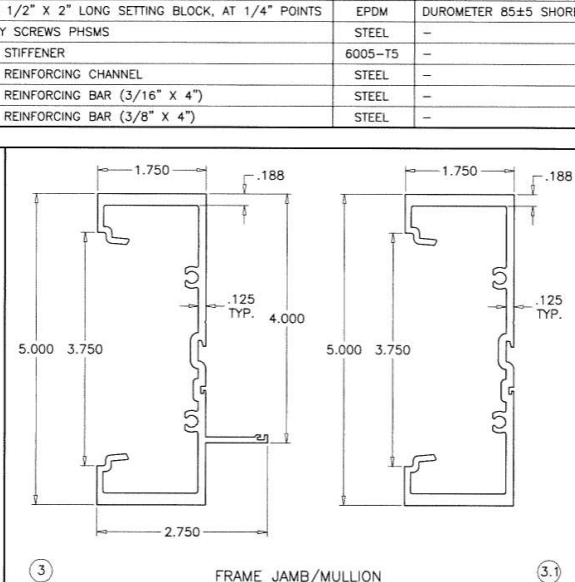
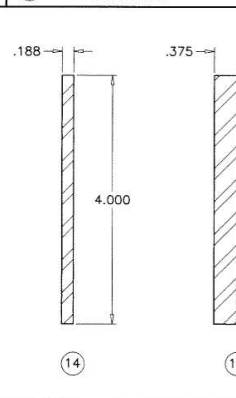
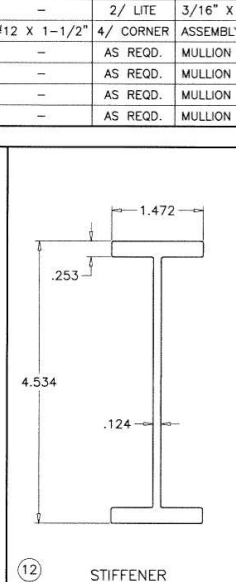
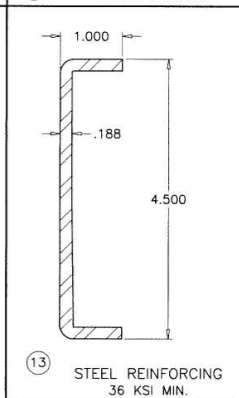
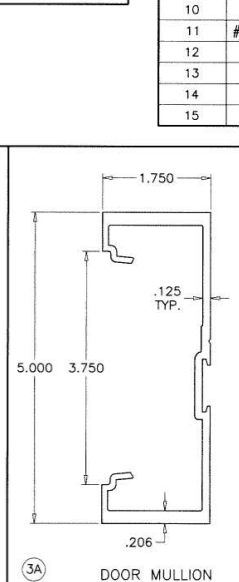
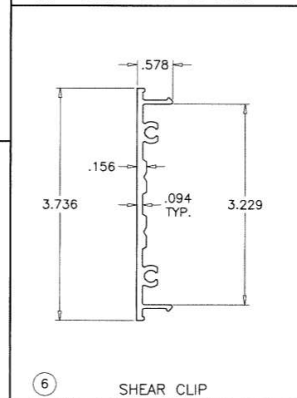
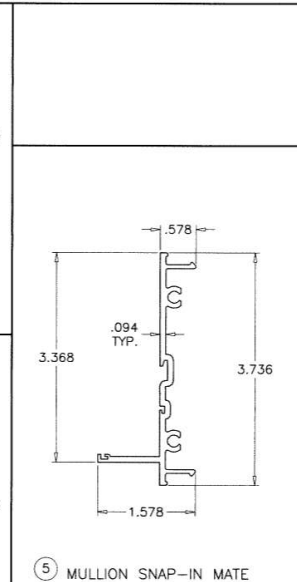
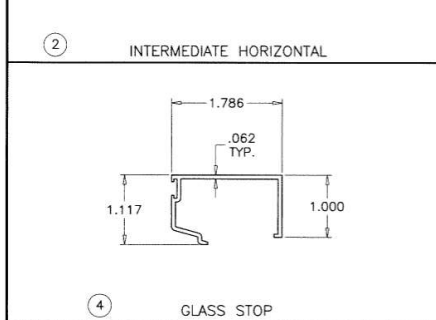
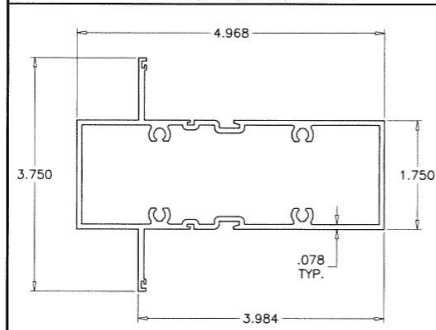
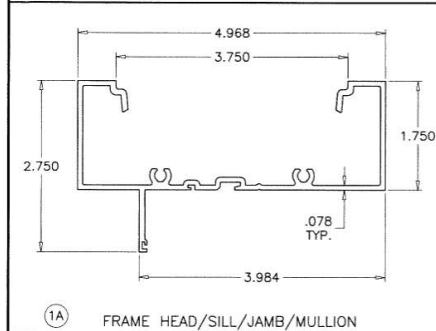
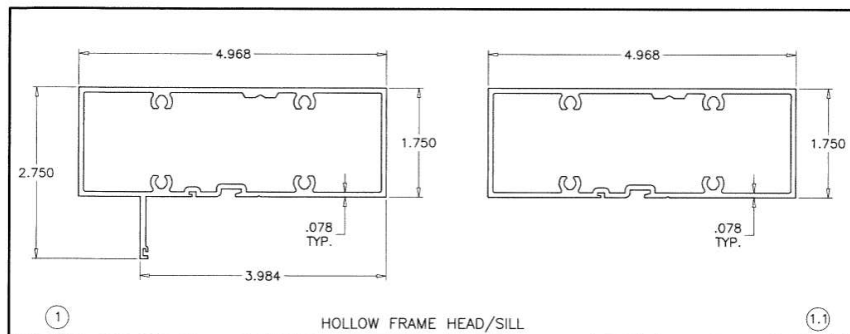


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STORE W07-60ES

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Revisions:	
no	description
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100	03.11.24

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dr: by: TARIQ
chk: by:
drawing no.
W07-60
sheet 10.1 of 12



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES8005	AS REQD.	HOLLOW FRAME HEAD/SILL	6005-T5	-
1.1	ES8005	AS REQD.	HOLLOW FRAME HEAD/SILL (TRIMMED)	6005-T5	-
1A	ES8007	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
2	ES8004	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	ES8001	AS REQD.	FRAME JAMB/MULLION	6005-T5	-
3.1	ES8001	AS REQD.	FRAME JAMB/MULLION (TRIMMED)	6005-T5	-
3A	ES8012	AS REQD.	DOOR MULLION	6005-T5	-
4	ES8006	AS REQD.	GLASS STOP	6063-T5	-
5	ES8002	AS REQD.	MULLION SNAP-IN MATE	6005-T5	-
6	ES8003	AS REQD.	SHEAR CLIP	6005-T5	-
7	-	AS REQD.	INTERIOR BULB GASKET	VINYL	-
8	ES8009	AS REQD.	SILICONE STOP	VINYL	-
8A	ES-8011A	AS REQD.	1/4" BUTTON BUMPER SPACER	SILICONE	DUROMETER 85±5 SHORE A
9	-	-	FRAME JAMB/MULLION	-	-
10	-	2/ LITE	3/16" X 1/2" X 2" LONG SETTING BLOCK, AT 1/4" POINTS	EPDM	DUROMETER 85±5 SHORE A
11	#12 X 1-1/2"	4/ CORNER	ASSEMBLY SCREWS PHSMS	STEEL	-
12	-	AS REQD.	MULLION STIFFENER	6005-T5	-
13	-	AS REQD.	MULLION REINFORCING CHANNEL	STEEL	-
14	-	AS REQD.	MULLION REINFORCING BAR (3/16" X 4")	STEEL	-
15	-	AS REQD.	MULLION REINFORCING BAR (3/8" X 4")	STEEL	-

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NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Manuel Jara*
Miami-Dade Product Control

MAR 19 2024

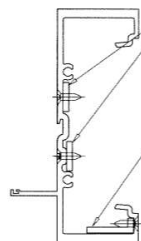
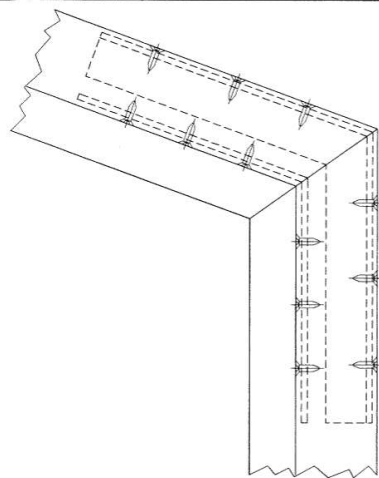


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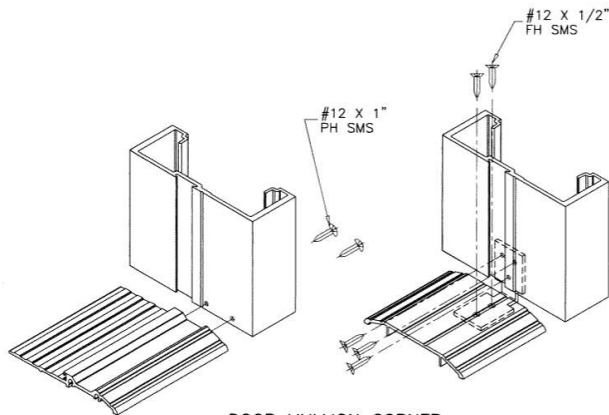
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drawing no. **W07-60**
sheet 11 of 12



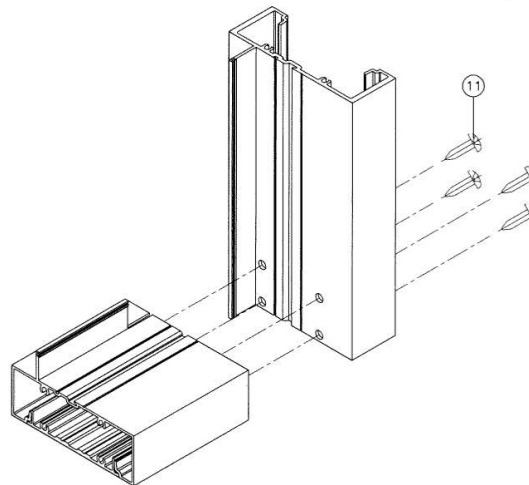
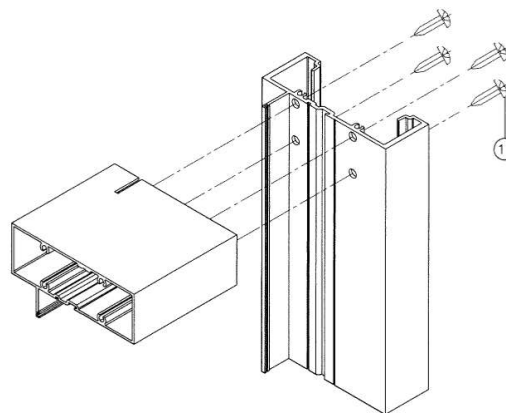
5/8" X 1/8"
ALUM PLATE
BENT TO MATCH JOINT
SECURED WITH #8 SMS
(3) PER SIDE OF JOINT

5/16 X 1 X 1/8"
ALUM ANGLE
BENT TO MATCH JOINT
SECURED WITH #8 SMS
(3) PER SIDE OF JOINT

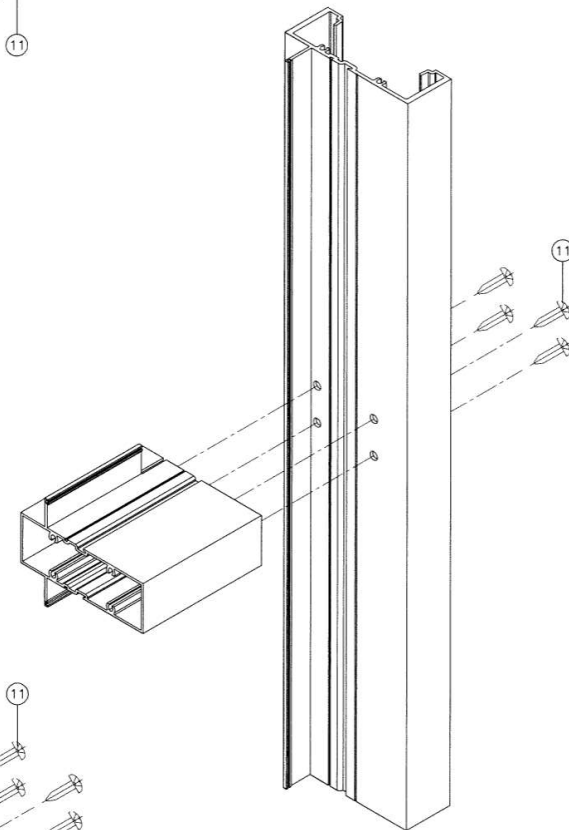
CIRCULAR OR ANGLED CORNERS



DOOR MULLION CORNER



RECT. OR SQUARE CORNERS



HORIZONTAL CORNER

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**

Expiration Date: **04/03/2028**

By: *Manuel Torres*
Miami-Dade Product Control

MAR 19 2024



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
STORE W07-60ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX (305) 638-5158

no	date	by	description
1	08-03-07	G	11.12.20
2	05-10-21	H	NO CHANGE THIS SHEET
3	07-18-23	I	NO CHANGE THIS SHEET
4	03-11-24	J	NO CHANGE THIS SHEET

date:	08-03-07
scale:	-
dr:	TARQ
chk:	by:

drawing no.
W07-60

sheet 12 of 12