



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Mr. Glass Doors & Windows, Inc.**  
7440 NW 66 Street  
Miami, FL 33166

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County 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 "MG-7000" Aluminum Curtain Wall System -- L.M.I.

**APPROVAL DOCUMENT:** Drawing No. W13-44, titled "Series MG-7000 Alum. Curtain Wall System (L.M.I.)", sheets 01 through 04, 04.1, 05 and 06 through 30 of 30, dated 08/17/12, with revision "A" dated 12/03/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control 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, city, state, 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 consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
*11/14/13*

NOA No. 13-0930.12  
Expiration Date: February 14, 2018  
Approval Date: November 21, 2013  
Page 1

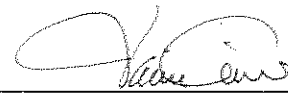
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturers die drawings and sections.
2. Drawing No. **W13-44**, titled "Series MG-7000 Alum. Curtain Wall System (L.M.I.)", sheets 01 through 04, 04.1, 05 and 06 through 30 of 30, dated 08/17/12, with revision "A" dated 12/03/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

**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) 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 Aluminum curtain wall system (single span), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6742**, dated 02/28/12, signed and sealed by Marlin D. Brinson, 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 Aluminum curtain wall system (single span), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6712**, dated 04/06/12, signed and sealed by Marlin D. Brinson, P. E.
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  
along with marked-up drawings and installation diagram of Aluminum curtain wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6602**, dated 10/19/11, signed and sealed by Marlin D. Brinson, P. E.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 13-0930.12  
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**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 Aluminum curtain wall system (twin span), prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-6193**, dated 05/18/11, signed and sealed by Marlin D. Brinson, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 2010**, dated 03/18/12 and 01/31/13, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

**F. STATEMENTS**

1. Statement letter of code compliance, complying with **FBC 2010**, and of no financial interest, issued by Al-Farooq Corporation, dated 05/14/12, signed and sealed by Javad Ahmad, P. E.
2. Private Labeling Agreement document in conformance to Product Control Guidelines dated 09/13/13 and signed by Ulises Senaris.
3. Laboratory compliance letter for Test Reports No.'s **FTL-6742**, dated 02/28/12, **FTL-6712**, dated 04/06/12, **FTL-6602**, dated 10/19/11 and No. **FTL-6193**, dated 05/18/11, all issued by Fenestration Testing Laboratory, Inc., all signed and sealed by Marlin D. Brinson, P. E.
4. Proposal No. **10-0465** issued by Product Control, dated 08/12/10, revised on 08/25/10, signed by Manuel Perez, P. E. and amended on 06/16/11, signed by Jaime D. Gascon, P.E.

**G. OTHER**

1. None.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 13-0930.12  
Expiration Date: February 14, 2018  
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MR. GLASS DOORS & WINDOWS INC.  
 SERIES MG-7000  
 ALUMINUM CURTAINWALL SYSTEM

CURTAIN WALL SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.  
 SHUTTERS ARE NOT REQD.  
 CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT  
 COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE  
 REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC  
 OR BETTER.

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED  
 ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE  
 USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 4 FOR DESIGN LOAD CAPACITY  
 OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND  
 HEIGHT USING CHARTS ON SHEETS 6 & 7 FOR SINGLE SPANS,  
 AND CHARTS ON SHEETS 8 THRU 10 FOR EQUAL MULTIPLE SPANS.
- STEP 4** USING HEAD/SILL ANCHOR DETAILS ON SHEET 5 SELECT  
 ANCHOR OPTION.
- STEP 5** CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS  
 USING CHARTS OR DETAILS ON SHEETS 18 THRU 27.
- STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4  
 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2 & 3	TYPICAL CURTAIN WALL ELEVATION
4	GLASS CAPACITY CHART
4.1	GLAZING DETAILS (SEE NOTE BELOW)
5	HEAD/SILL ANCHOR DETAILS
6 & 7	SINGLE SPAN MULLION CHARTS
8	TWIN SPAN JAMB CAPACITY
9	UN-REINFORCED TWIN SPAN MULLION CAPACITY
10	REINFORCED TWIN SPAN MULLION CAPACITY
11	SINGLE SPAN CORNER MULLION
12	TWIN SPAN CORNER MULLION
13 & 14	VERTICAL AND HORIZONTAL SECTION DETAILS
15	DOOR SUBFRAME DETAILS
16 & 17	CORNER MULLION DETAILS
18 THRU 20	WIND LOAD ANCHOR DETAILS
21 THRU 23	WIND LOAD + DEAD LOAD ANCHOR DETAILS
24 THRU 27	WIND LOAD + DEAD LOAD CORNER MULLION ANCHOR DETAILS
28	EXTRUSION DETAILS
29	BILL OF MATERIALS
30	CORNER CONSTRUCTION DETAILS

NOTE: WHEN SYSTEM IS USED IN AN AREA MORE THAN 30 FEET  
 ABOVE GRADE, THE EXTERIOR LITE OF INSULATED LAMINATED  
 GLASS MUST BE 1/4" TEMPERED GLASS OPTION.

Approved as complying with the  
 Florida Building Code  
 Date: 12/12/2013  
 NOA# 13-0930.12  
 Miami Dade Product Control  
 By: *[Signature]*

LAMINATED GLASS  
 INSUL. LAM. GLASS  
 LARGE MISSILE IMPACT

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 SEP 16 2013

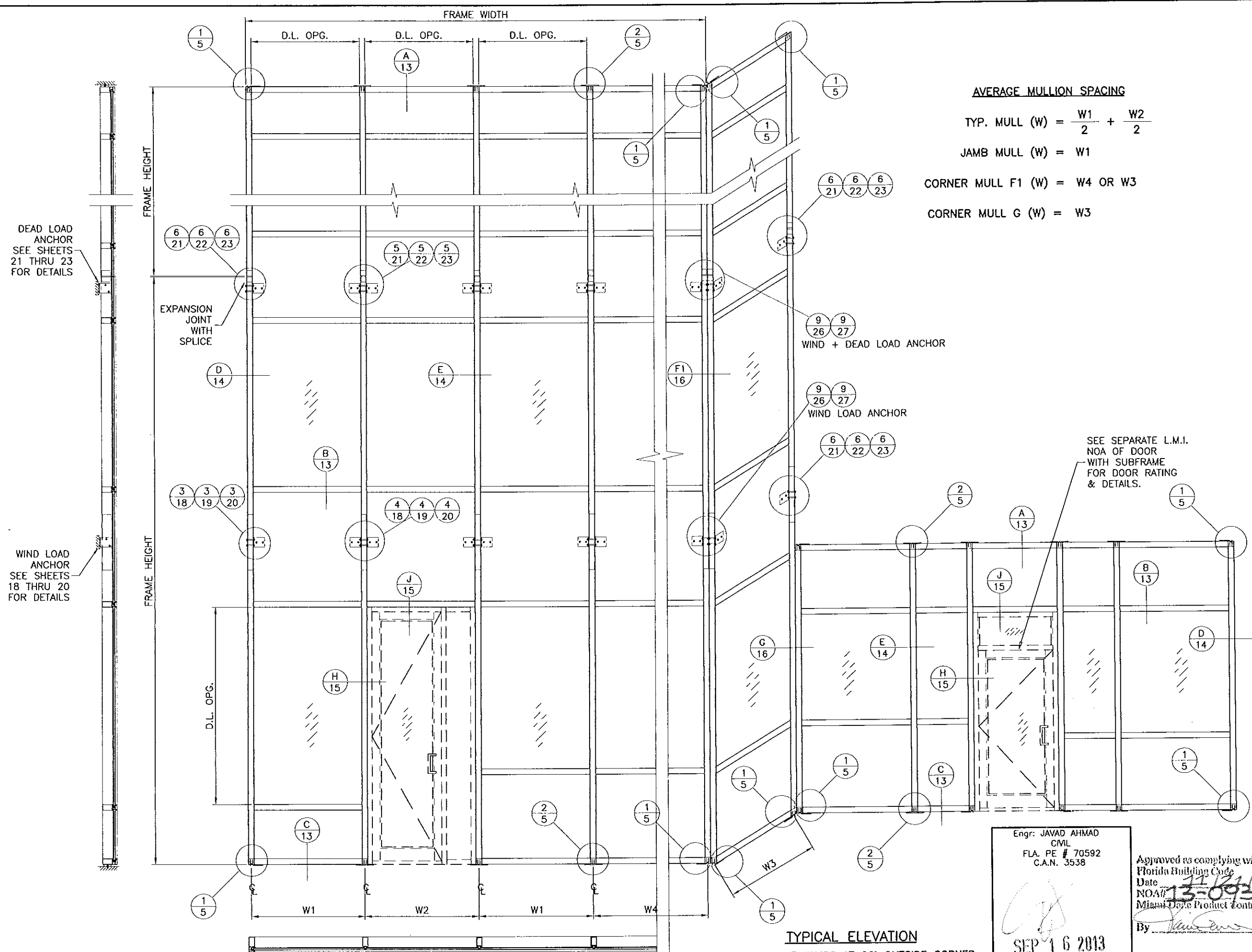
**afC**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
 7440 N.W. 66 STREET  
 MIAMI, FL. 33166  
 TEL. (305) 470-8284 FAX. (305) 470-8285

Revisions:	
no.	date by description

date: 09-16-13  
 scale: -  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W13-44**  
 sheet 1 of 30



**AVERAGE MULLION SPACING**

TYP. MULL (W) =  $\frac{W1}{2} + \frac{W2}{2}$

JAMB MULL (W) = W1

CORNER MULL F1 (W) = W4 OR W3

CORNER MULL G (W) = W3

SEE SEPARATE L.M.I. NOA OF DOOR WITH SUBFRAME FOR DOOR RATING & DETAILS.

DEAD LOAD ANCHOR SEE SHEETS 21 THRU 23 FOR DETAILS

WIND LOAD ANCHOR SEE SHEETS 18 THRU 20 FOR DETAILS

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

Approved as complying with the Florida Building Code  
 Date: 11/24/2013  
 NOA#: 13-0930.12  
 Miami Date Product Control  
 By: *[Signature]*

SEP 16 2013

**TYPICAL ELEVATION**  
 WITH DOUBLE JAMBS AT 90° OUTSIDE CORNER

**afC**

**AL-FAROOQ CORPORATION**  
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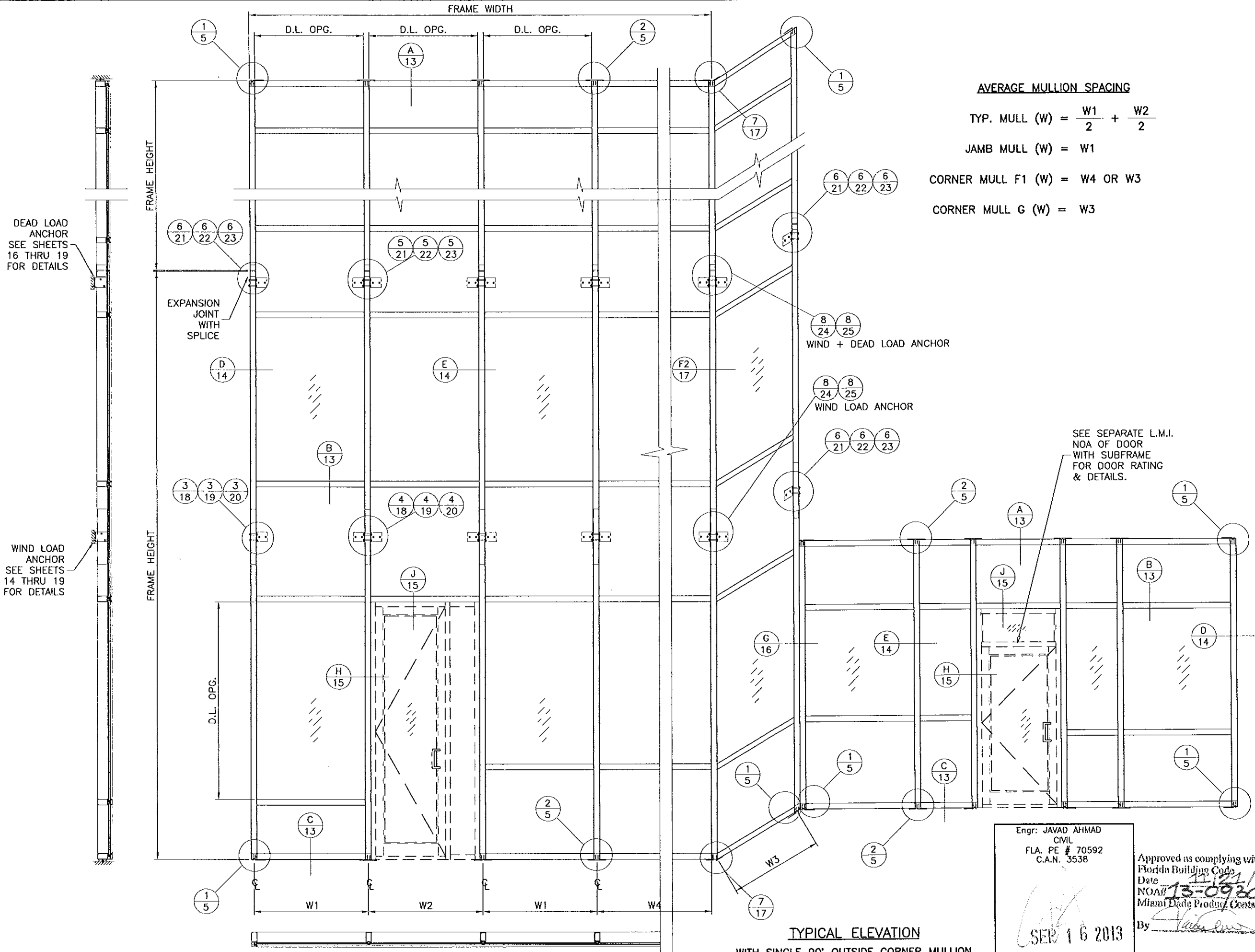
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date: 09-16-13  
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 dr. by: TARIQ  
 chk. by:

drawing no.  
**W13-44**

sheet 2 of 30



**AVERAGE MULLION SPACING**

TYP. MULL (W) =  $\frac{W1}{2} + \frac{W2}{2}$

JAMB MULL (W) = W1

CORNER MULL F1 (W) = W4 OR W3

CORNER MULL G (W) = W3

**TYPICAL ELEVATION**  
WITH SINGLE 90° OUTSIDE CORNER MULLION

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

Approved as complying with the  
Florida Building Code  
Date: 11/21/2013  
NOA# 13-0930, 12  
Miami Trade Product Control

By: *[Signature]*  
SEP 16 2013

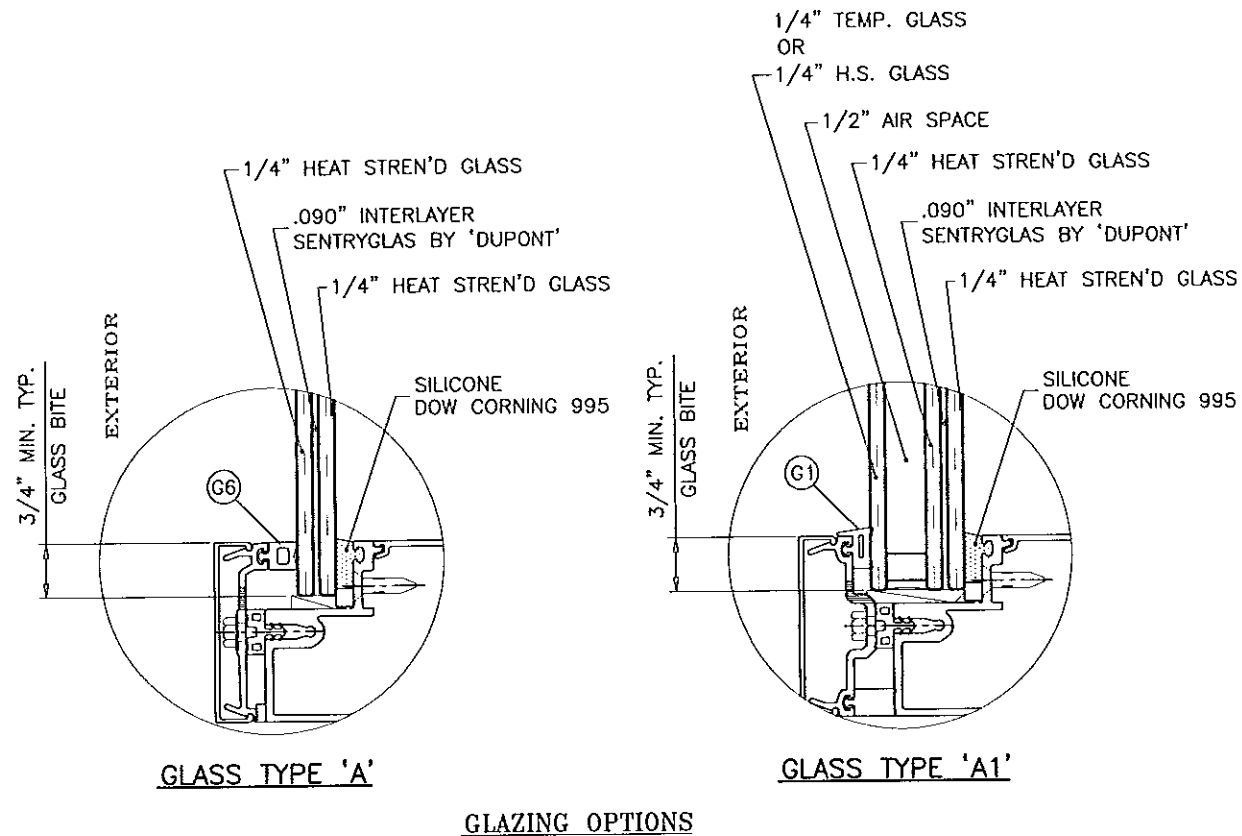
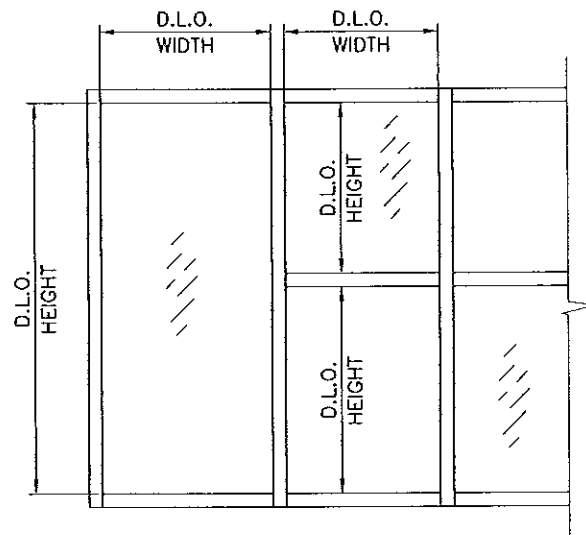
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COMP - ANL W13-44MG

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scale: 1/4"=1'-0"  
dr. by: TARIQ  
chk. by:   
drawing no.  
**W13-44**  
sheet 3 of 30

GLASS LOAD CAPACITY - PSF				
GLASS TYPES 'A' & 'A1'				
NOMINAL DIMS.		MULLION WITH PRESS PLATE	MULLION WITHOUT PRESS PLATE	
			CORNER MULL 13/16" SILICONE	BUTT GLAZE MULL 1" SILICONE
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	90"	100.0	100.0	100.0
39"		100.0	100.0	100.0
42"		100.0	100.0	100.0
45"		100.0	99.6	100.0
48"		100.0	93.6	100.0
51"		100.0	88.3	100.0
54"		100.0	83.6	100.0
57"		100.0	79.3	97.6
60"	100.0	75.5	92.9	
36"	96"	100.0	100.0	100.0
39"		100.0	100.0	100.0
42"		100.0	100.0	100.0
45"		100.0	99.6	100.0
48"		100.0	93.6	100.0
51"		100.0	88.3	100.0
54"		100.0	83.6	100.0
56"		100.0	79.3	97.6
36"	102"	100.0	100.0	100.0
39"		100.0	100.0	100.0
42"		100.0	100.0	100.0
45"		100.0	99.6	100.0
48"		100.0	93.6	100.0
51"		100.0	88.3	100.0
53"		100.0	83.6	100.0
36"		108"	100.0	100.0
39"	100.0		100.0	100.0
42"	100.0		100.0	100.0
45"	100.0		99.6	100.0
48"	100.0		93.6	100.0
50"	100.0		88.3	100.0
36"	114"	100.0	100.0	100.0
39"		100.0	100.0	100.0
42"		100.0	100.0	100.0
45"		100.0	99.6	100.0
47"		100.0	93.6	100.0
36"	120"	100.0	100.0	100.0
39"		100.0	100.0	100.0
42"		100.0	100.0	100.0
45"		100.0	99.6	100.0
36"	126"	100.0	100.0	100.0
39"		100.0	100.0	100.0
42"		100.0	100.0	100.0
36"	132"	100.0	100.0	100.0
39"		100.0	100.0	100.0
36"	138"	100.0	100.0	100.0
39"		100.0	100.0	100.0
36"	144"	100.0	100.0	100.0



NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE BASED ON  
ASTM E1300-09 (3 SEC. GUSTS)  
WHEN SYSTEM IS USED IN AN AREA MORE THAN 30  
FEET ABOVE GRADE, THE EXTERIOR LITE OF INSULATED  
LAMINATED GLASS MUST BE 1/4" TEMPERED GLASS OPTION.

Approved as complying with the  
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Date 11/21/2013  
NOA# 13-0930.12  
Miami Dade Product Control  
by [Signature]

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538  
SEP-16-2013

**af c**  
**AL-FAROOQ CORPORATION**  
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COMP-ANL\WT3-44MG

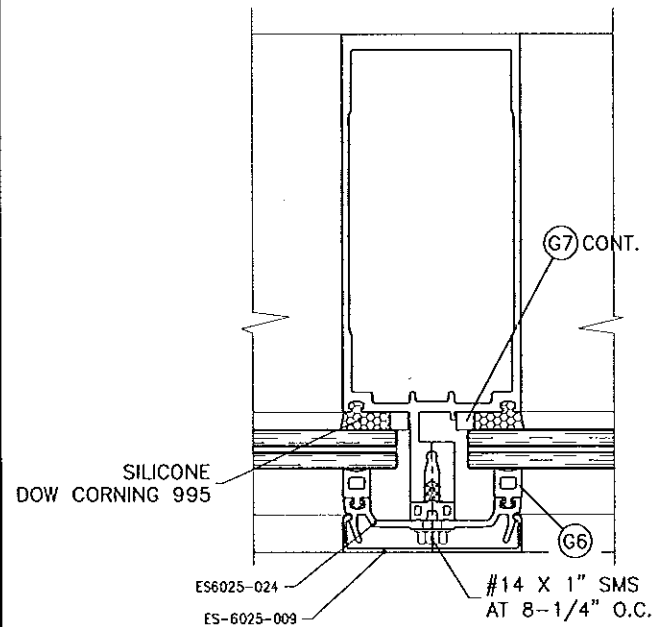
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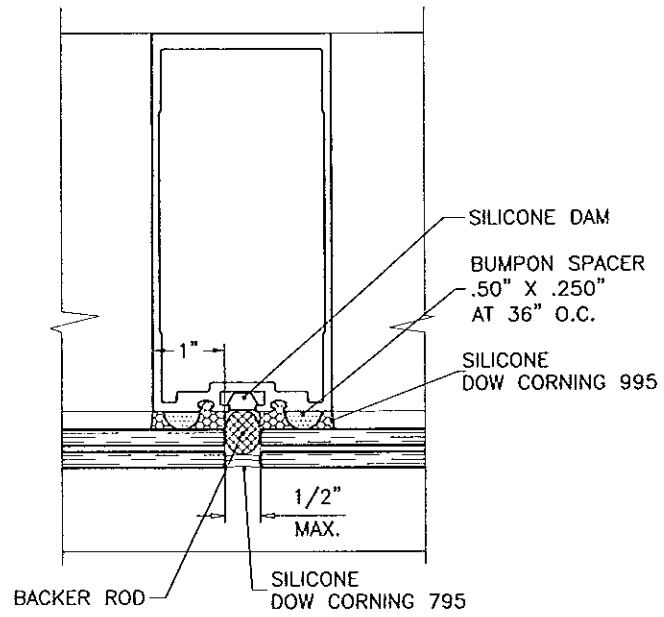
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chk. by:

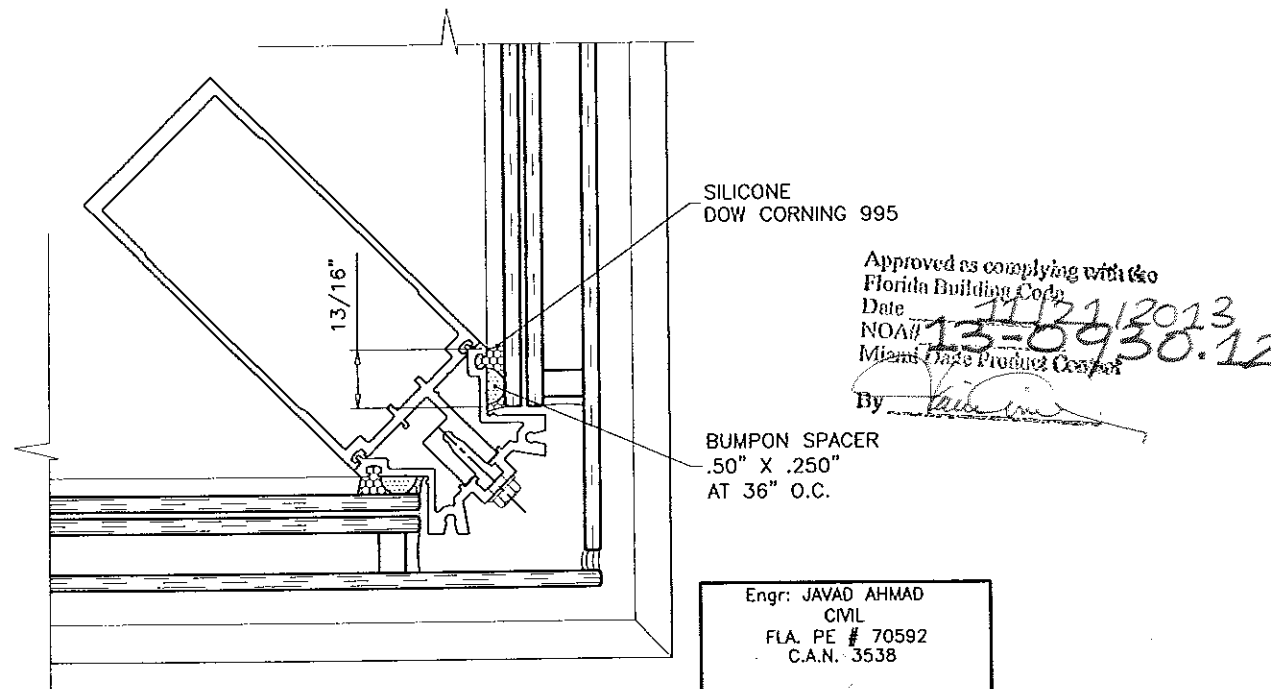
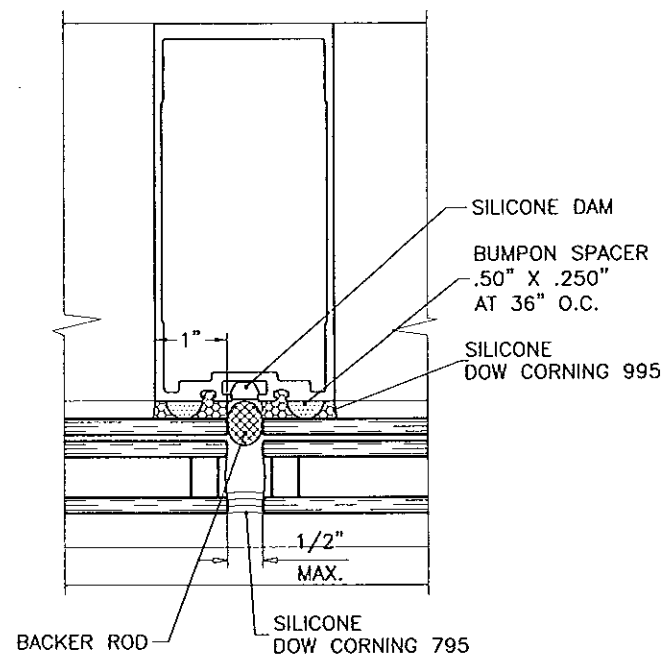
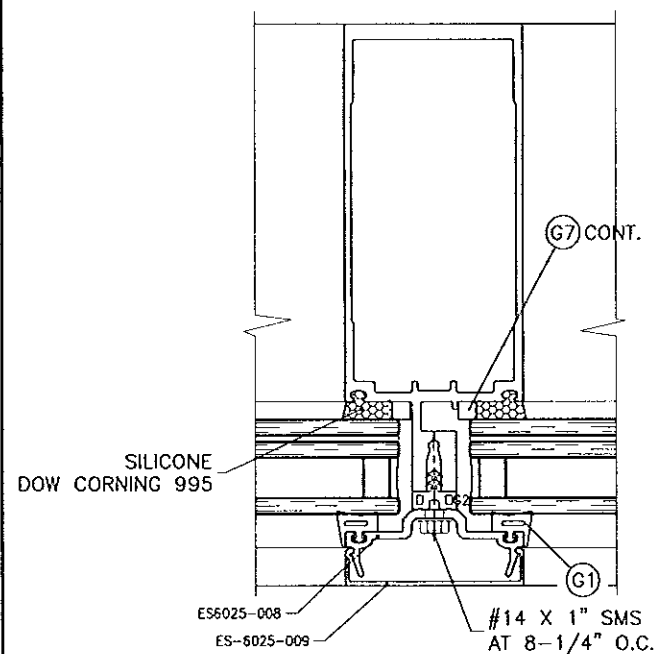
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**W13-44**  
sheet 4 of 30



HEAVY MULLION WITH PRESS PLATE



BUTT GLAZED MULLION WITHOUT PRESS PLATE 1" SILICONE



CORNER MULLION WITHOUT PRESS PLATE 13/16" SILICONE

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

SEP 16 2013

**afc**  
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revisions:	no	date	by	description

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

drawing no.  
**W13-44**

sheet 4, of 30





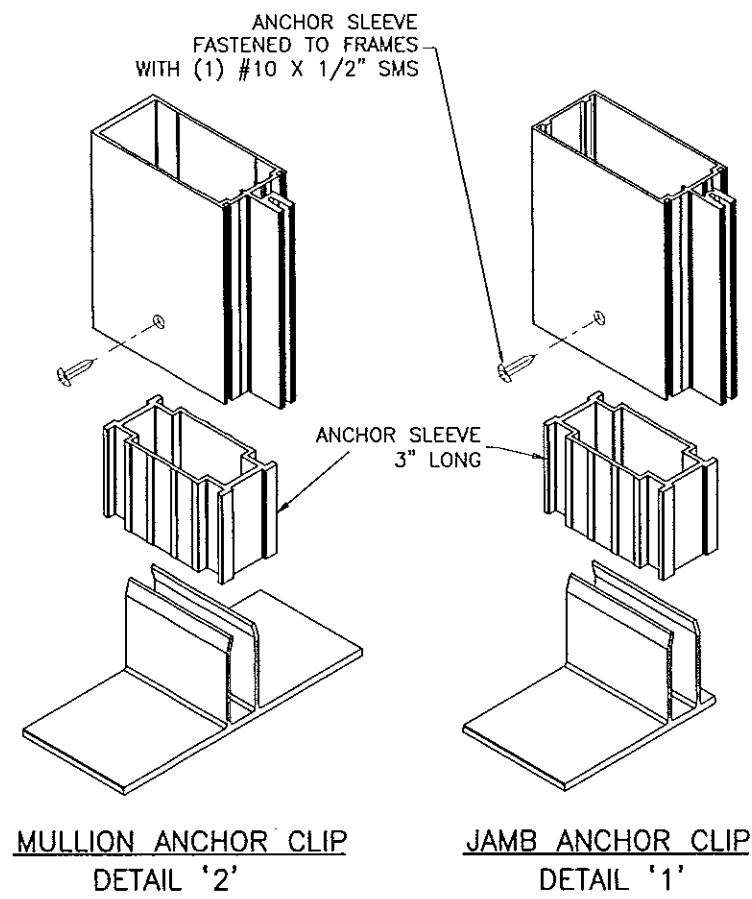
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 chk. by:

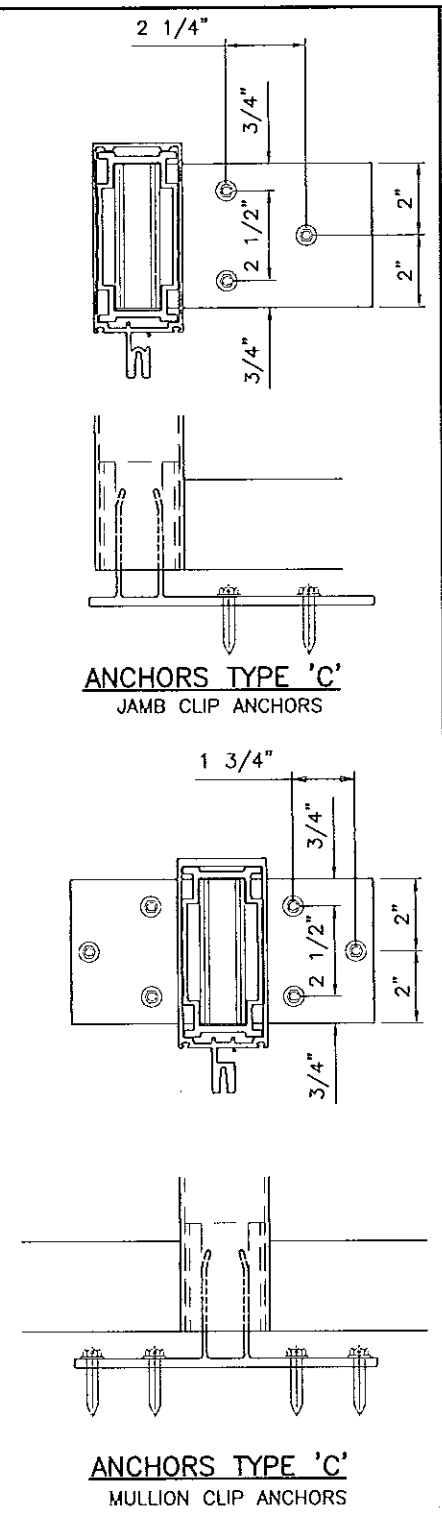
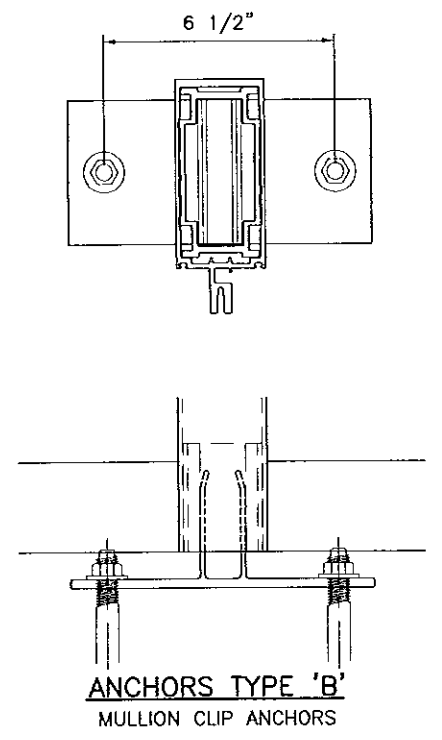
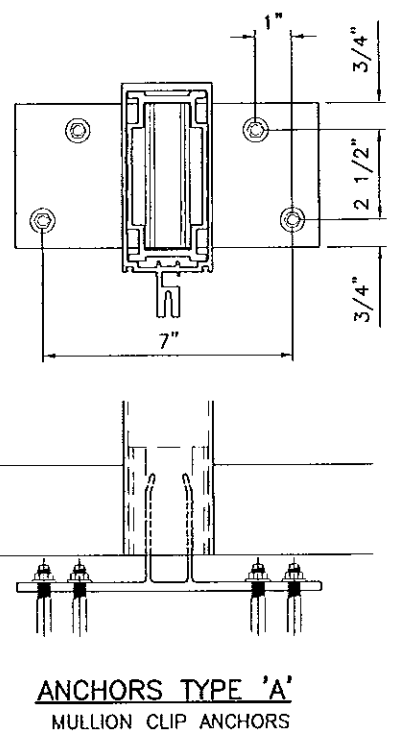
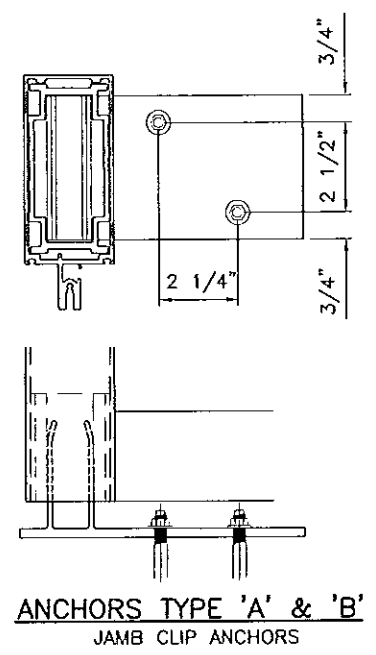
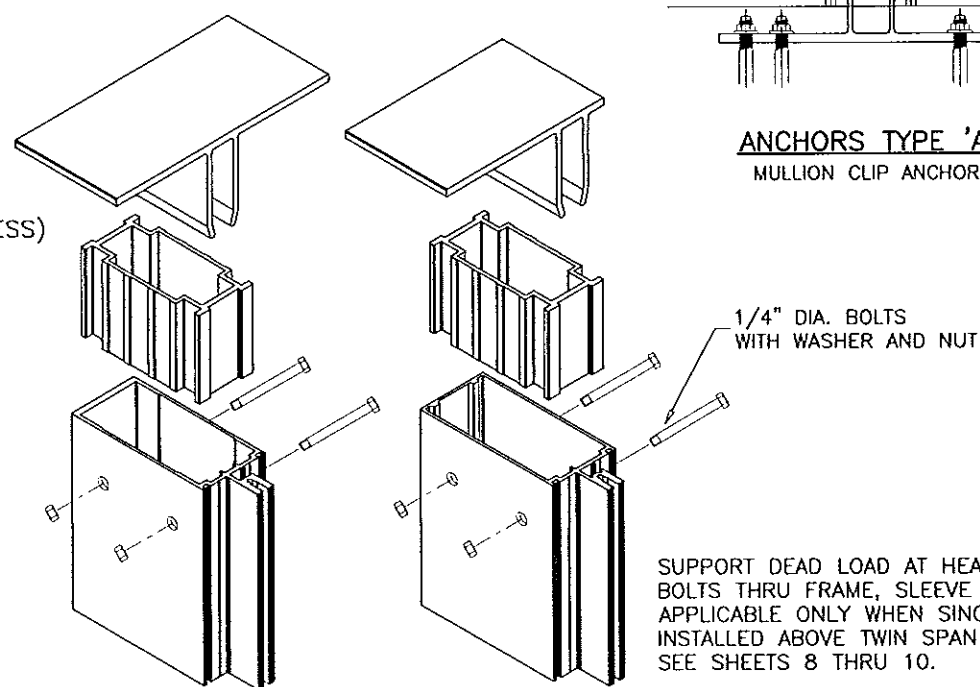
drawing no.  
**W13-44**  
 sheet 5 of 30



**ANCHOR 'A'**  
 DIRECTLY INTO CONCRETE  
 3/8" DIA. KWIK BOLT-3 EXPANSION ANCHOR  
 (2) PER SIDE  
 WITH 2-1/2" MIN. EMBED INTO CONCRETE.  
 3" MIN. EDGE DIST.  
 2-1/2" MIN. SPACING

**ANCHOR 'B'**  
 DIRECTLY INTO CONCRETE  
 1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR  
 (1) PER SIDE  
 WITH 3-1/2" MIN. EMBED INTO CONCRETE.  
 3-3/4" MIN. EDGE DIST.  
 6-1/2" MIN. SPACING

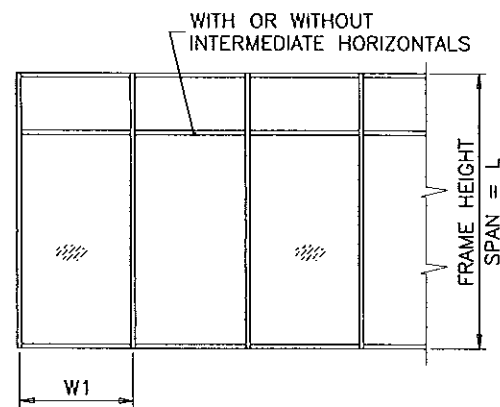
**ANCHOR 'C'**  
 INTO METAL STRUCTURES (STEEL 1/4" MIN. THICKNESS)  
 5/16" DRIL-FLEX SELF DRILLING SCREWS  
 (3) PER SIDE  
 1/2" MIN. EDGE DIST.  
 3/4" MIN. SPACING



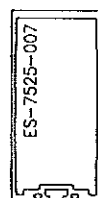
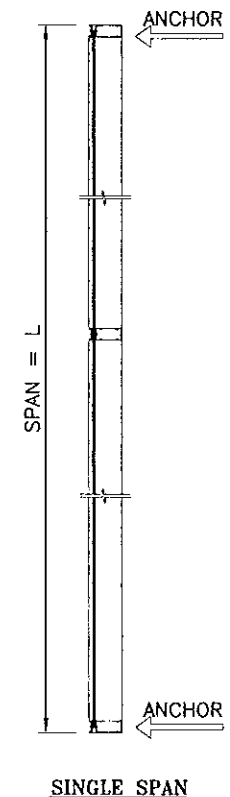
Approved as complying with the Florida Building Code  
 Date: 11/21/2013  
 NOAH 13-0930.12  
 Miami Dade Product Control  
 By: *[Signature]*

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 SEP 16 2013

JAMB LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZONTALS				JAMB LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'	NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	90"	100.0	100.0	36"	120"	-	100.0
39"		100.0	100.0	39"		-	100.0
42"		100.0	100.0	42"		-	100.0
45"		100.0	100.0	45"		-	100.0
48"		100.0	100.0	48"		-	100.0
51"		100.0	100.0	51"		-	100.0
54"		100.0	100.0	54"		-	100.0
57"		100.0	100.0	57"		-	100.0
60"	100.0	100.0	60"	-	100.0		
36"	96"	100.0	100.0	36"	126"	-	100.0
39"		100.0	100.0	39"		-	100.0
42"		100.0	100.0	42"		-	100.0
45"		100.0	100.0	45"		-	100.0
48"		100.0	100.0	48"		-	100.0
51"		100.0	100.0	51"		-	100.0
54"		100.0	100.0	54"		-	100.0
57"		100.0	100.0	57"		-	100.0
60"	100.0	100.0	60"	-	98.8		
36"	99-3/4"	100.0	100.0	36"	132"	-	100.0
39"		100.0	100.0	39"		-	100.0
42"		100.0	100.0	42"		-	100.0
45"		100.0	100.0	45"		-	100.0
48"		100.0	100.0	48"		-	100.0
51"		100.0	100.0	51"		-	100.0
54"		100.0	100.0	54"		-	98.9
57"		100.0	100.0	57"		-	93.7
60"	100.0	100.0	60"	-	89.0		
36"	102"	-	100.0	36"	138"	-	100.0
39"		-	100.0	39"		-	100.0
42"		-	100.0	42"		-	100.0
45"		-	100.0	45"		-	100.0
48"		-	100.0	48"		-	97.4
51"		-	100.0	51"		-	91.7
54"		-	100.0	54"		-	86.6
57"		-	100.0	57"		-	82.0
60"	-	100.0	60"	-	77.9		
36"	108"	-	100.0	36"	144"	-	100.0
39"		-	100.0	39"		-	100.0
42"		-	100.0	42"		-	98.0
45"		-	100.0	45"		-	91.5
48"		-	100.0	48"		-	85.7
51"		-	100.0	51"		-	80.7
54"		-	100.0	54"		-	76.2
57"		-	100.0	57"		-	72.2
60"	-	100.0	60"	-	68.6		
36"	114"	-	100.0	36"	150"	-	100.0
39"		-	100.0	39"		-	93.4
42"		-	100.0	42"		-	86.7
45"		-	100.0	45"		-	80.9
48"		-	100.0	48"		-	75.9
51"		-	100.0	51"		-	71.4
54"		-	100.0	54"		-	67.4
57"		-	100.0	57"		-	63.9
60"	-	100.0	60"	-	60.7		

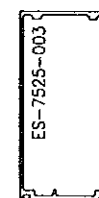


WIDTH (W) = W1  
AT FRAME JAMB



JAMB 'J1'

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
8.8201	3.3166



JAMB 'J2'

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
10.0003	2.9374

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOA# 13-0930.12  
Miami-Dade Product Center  
By [Signature]

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
[Signature]  
SEP 16 2013

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP - ANL \ W13-44MG

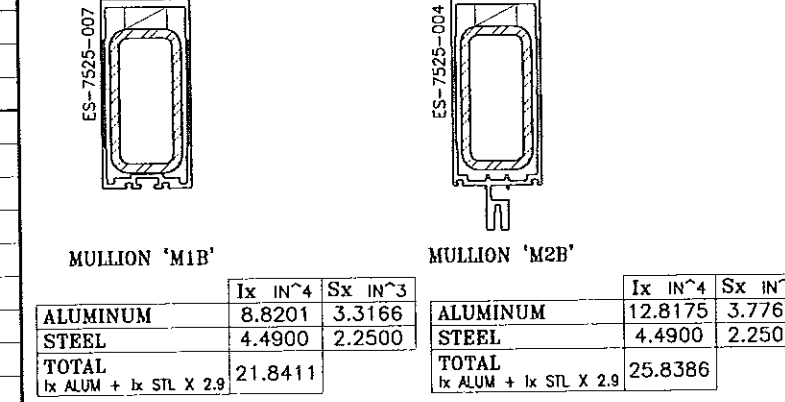
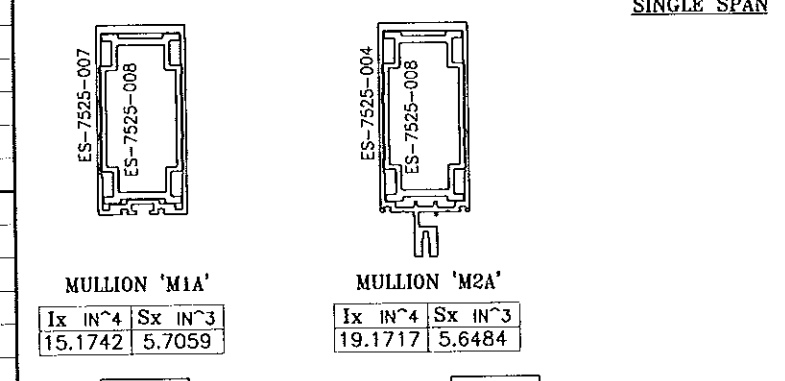
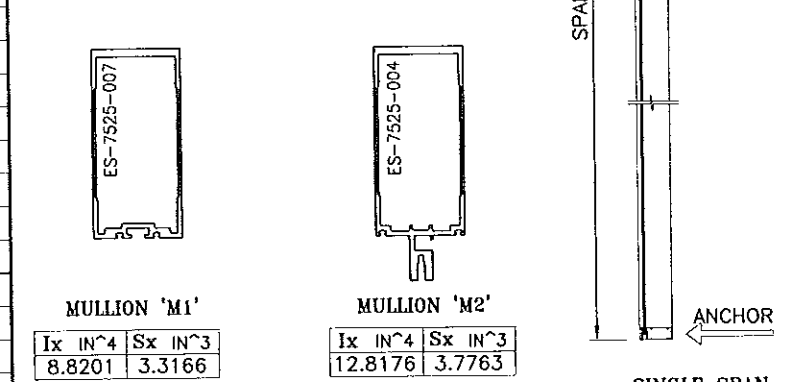
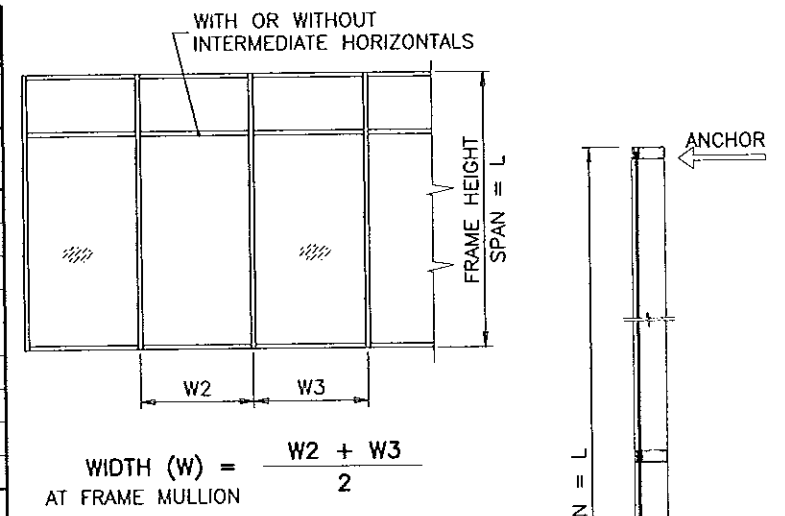
SERIES MC-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no	date	description

date: 09-16-13  
scale: -  
dr. by: TARIO  
chk. by:  
drawing no.  
**W13-44**  
sheet 6 of 30

MULLION LOAD CAPACITY - PSF SINGLE SPANS WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'	MULLION 'M1A'	MULLION 'M2A'	MULLION 'M1B'	MULLION 'M2B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	90"	100.0	100.0	100.0	100.0	100.0	100.0
39"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
45"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
51"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
57"		100.0	100.0	100.0	100.0	100.0	100.0
60"	100.0	100.0	100.0	100.0	100.0	100.0	
36"	96"	100.0	100.0	100.0	100.0	100.0	100.0
39"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
45"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
51"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
57"		100.0	100.0	100.0	100.0	100.0	100.0
60"	98.2	100.0	100.0	100.0	100.0	100.0	
36"	99-3/4"	100.0	100.0	100.0	100.0	100.0	100.0
39"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
45"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
51"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
57"		95.4	100.0	100.0	100.0	100.0	100.0
60"	90.6	100.0	100.0	100.0	100.0	100.0	
36"	102"	100.0	100.0	100.0	100.0	100.0	100.0
39"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
45"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
51"		100.0	100.0	100.0	100.0	100.0	100.0
54"		94.6	100.0	100.0	100.0	100.0	100.0
57"		89.6	100.0	100.0	100.0	100.0	100.0
60"	85.1	97.2	100.0	100.0	100.0	100.0	
36"	108"	100.0	100.0	100.0	100.0	100.0	100.0
39"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
45"		95.6	100.0	100.0	100.0	100.0	100.0
48"		89.6	100.0	100.0	100.0	100.0	100.0
51"		84.3	100.0	100.0	100.0	100.0	100.0
54"		79.7	95.8	100.0	100.0	100.0	100.0
57"		75.5	90.7	100.0	100.0	100.0	100.0
60"	71.7	86.2	100.0	100.0	100.0	100.0	
36"	114"	100.0	100.0	100.0	100.0	100.0	100.0
39"		93.8	100.0	100.0	100.0	100.0	100.0
42"		87.1	100.0	100.0	100.0	100.0	100.0
45"		81.3	100.0	100.0	100.0	100.0	100.0
48"		76.2	96.2	100.0	100.0	100.0	100.0
51"		71.7	90.5	100.0	100.0	100.0	100.0
54"		67.7	85.5	100.0	100.0	100.0	100.0
57"		64.2	81.0	100.0	100.0	100.0	100.0
60"	61.0	76.9	100.0	100.0	100.0	100.0	

MULLION LOAD CAPACITY - PSF SINGLE SPANS WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'	MULLION 'M1A'	MULLION 'M2A'	MULLION 'M1B'	MULLION 'M2B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	120"	87.1	100.0	100.0	100.0	100.0	100.0
39"		80.4	100.0	100.0	100.0	100.0	100.0
42"		74.7	98.6	100.0	100.0	100.0	100.0
45"		69.7	92.1	100.0	100.0	100.0	100.0
48"		65.3	86.3	100.0	100.0	100.0	100.0
51"		-	81.2	100.0	100.0	100.0	100.0
54"		-	76.7	99.9	100.0	100.0	100.0
57"		-	72.7	94.7	100.0	100.0	100.0
60"	-	69.0	89.9	100.0	100.0	100.0	
36"	126"	75.3	100.0	100.0	100.0	100.0	100.0
39"		69.5	96.3	100.0	100.0	100.0	100.0
42"		64.5	89.5	100.0	100.0	100.0	100.0
45"		60.2	83.5	100.0	100.0	100.0	100.0
48"		-	78.3	97.1	100.0	100.0	100.0
51"		-	73.7	91.4	100.0	100.0	100.0
54"		-	69.6	86.3	100.0	100.0	100.0
57"		-	65.9	81.8	100.0	100.0	100.0
60"	-	62.6	-	95.4	100.0	100.0	
36"	132"	65.4	95.1	100.0	100.0	100.0	100.0
39"		60.4	87.8	100.0	100.0	100.0	100.0
42"		56.1	81.5	96.5	100.0	100.0	100.0
45"		52.4	76.1	90.1	100.0	100.0	100.0
48"		-	71.3	84.4	100.0	100.0	100.0
51"		-	67.1	79.5	100.0	100.0	100.0
54"		-	63.4	75.1	94.8	100.0	100.0
57"		-	60.1	-	89.8	100.0	100.0
60"	-	57.1	-	85.4	97.2	95.1	
36"	138"	57.3	83.2	98.5	100.0	100.0	100.0
39"		52.9	76.8	91.0	100.0	100.0	100.0
42"		49.1	71.3	84.5	100.0	100.0	100.0
45"		-	66.6	78.8	99.6	100.0	100.0
48"		-	62.4	73.9	93.4	100.0	100.0
51"		-	58.8	69.6	87.9	100.0	100.0
54"		-	55.5	65.7	83.0	94.6	100.0
57"		-	52.6	-	78.6	89.6	95.7
60"	-	49.9	-	74.7	85.1	91.0	
36"	144"	50.4	73.3	86.7	100.0	100.0	100.0
39"		46.5	67.6	80.1	100.0	100.0	100.0
42"		-	62.8	74.3	93.9	100.0	100.0
45"		-	58.6	69.4	87.7	99.9	100.0
48"		-	54.9	65.0	82.2	93.6	100.0
51"		-	51.7	61.2	77.3	88.1	100.0
54"		-	48.8	-	73.1	83.2	96.6
57"		-	46.3	-	69.2	78.8	90.5
60"	-	44.0	-	65.7	-	85.0	
36"	150"	44.6	64.8	76.7	96.9	100.0	100.0
39"		41.2	59.8	70.8	89.5	100.0	100.0
42"		-	55.6	65.8	83.1	94.7	100.0
45"		-	51.9	61.4	77.6	88.4	100.0
48"		-	48.6	57.5	72.7	82.8	98.0
51"		-	45.8	-	68.4	78.0	92.2
54"		-	43.2	-	64.6	73.6	87.1
57"		-	40.9	-	61.2	-	82.5
60"	-	38.9	-	58.2	-	78.4	



REINF. LENGTH = MULL LENGTH - 6"

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOA# 13-0930-12  
Miami-Dade Product Control

SEP 16 2013

date: 09-16-13  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
W13-44  
sheet 7 of 30

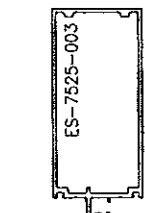
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8400 FAX. (305) 262-6978  
COMP-ANL W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
MR. GLASS DOORS & WINDOWS INC.  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:  
no date by description

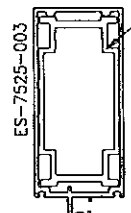
JAMB LOAD CAPACITY - PSF TWIN SPANS			
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'
AVG. MULL SPACING	SPAN = L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	108"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		100.0	100.0
54"		100.0	100.0
60"	100.0	100.0	
36"	114"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		100.0	100.0
54"		100.0	100.0
60"	100.0	100.0	
36"	120"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		100.0	100.0
54"		100.0	100.0
60"	100.0	100.0	
36"	126"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		100.0	100.0
54"		100.0	100.0
60"	100.0	100.0	
36"	132"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		100.0	100.0
54"		100.0	100.0
60"	97.1	100.0	
36"	138"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		100.0	100.0
54"		98.7	100.0
60"	88.8	100.0	
36"	144"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		94.0	100.0
50"		97.9	100.0
54"		90.7	100.0
60"	81.6	94.2	
36"	150"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		94.0	100.0
50"		90.2	100.0
54"		83.6	96.8

JAMBS TWIN SPAN TABLES



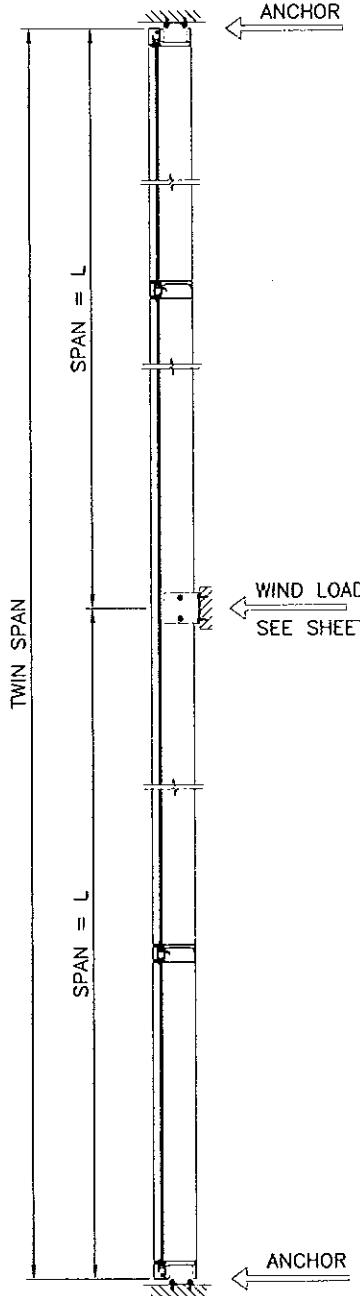
JAMB 'J1'

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
10.0003	2.9374

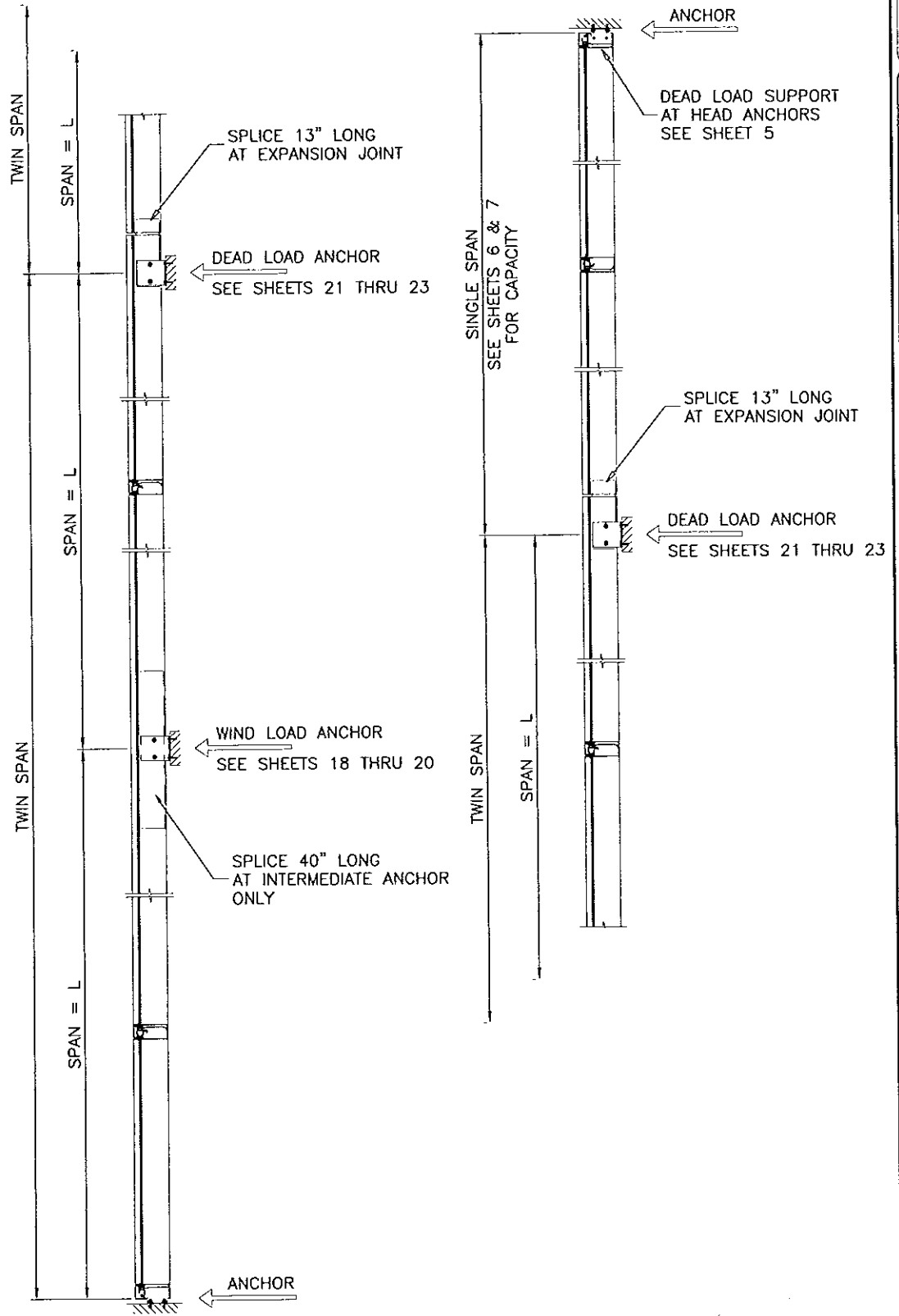


JAMB 'J2'

ES-7525-008  
40" LONG  
AT INTERMEDIATE ANCHORS



TWO SPAN




MULTIPLE SPANS

NOTE:  
THIS TABLE IS APPLICABLE FOR TWIN SPANS  
FOR SINGLE SPAN CAPACITY SEE TABLES ON SHEETS 6 & 7.

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOA# 13-0930.12  
Miami Date Product Control  
By [Signature]

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
[Signature]  
SEP 6 2013



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL W13-44MG

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SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL (305) 470-8284 FAX (305) 470-8285

---

no	date	description

---

date: 09-16-13	scale: -	dr. by: TARIQ	chk. by:
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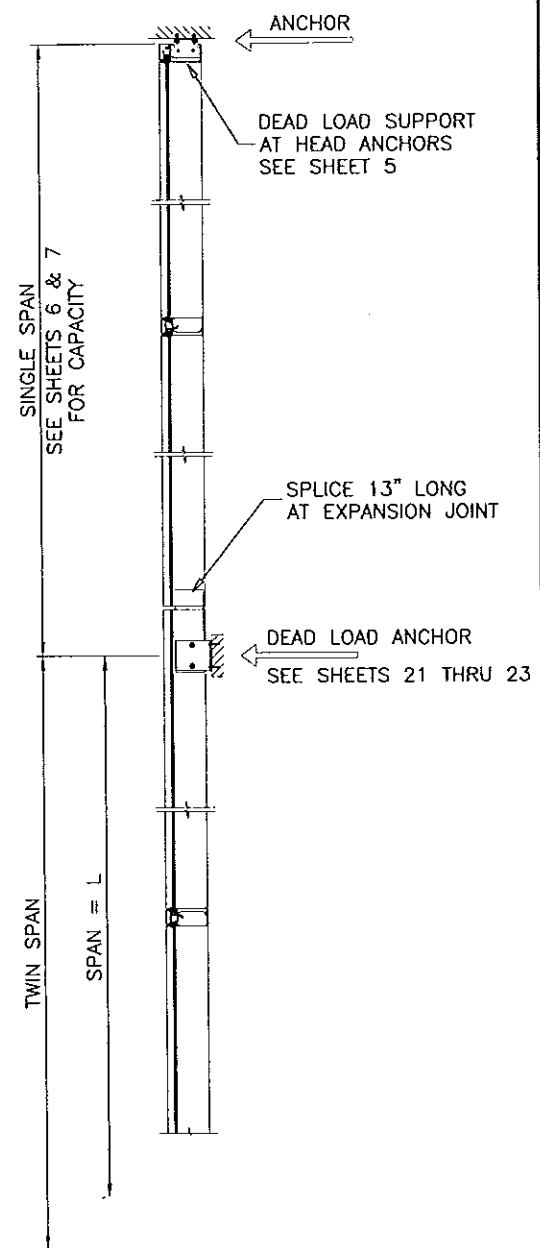
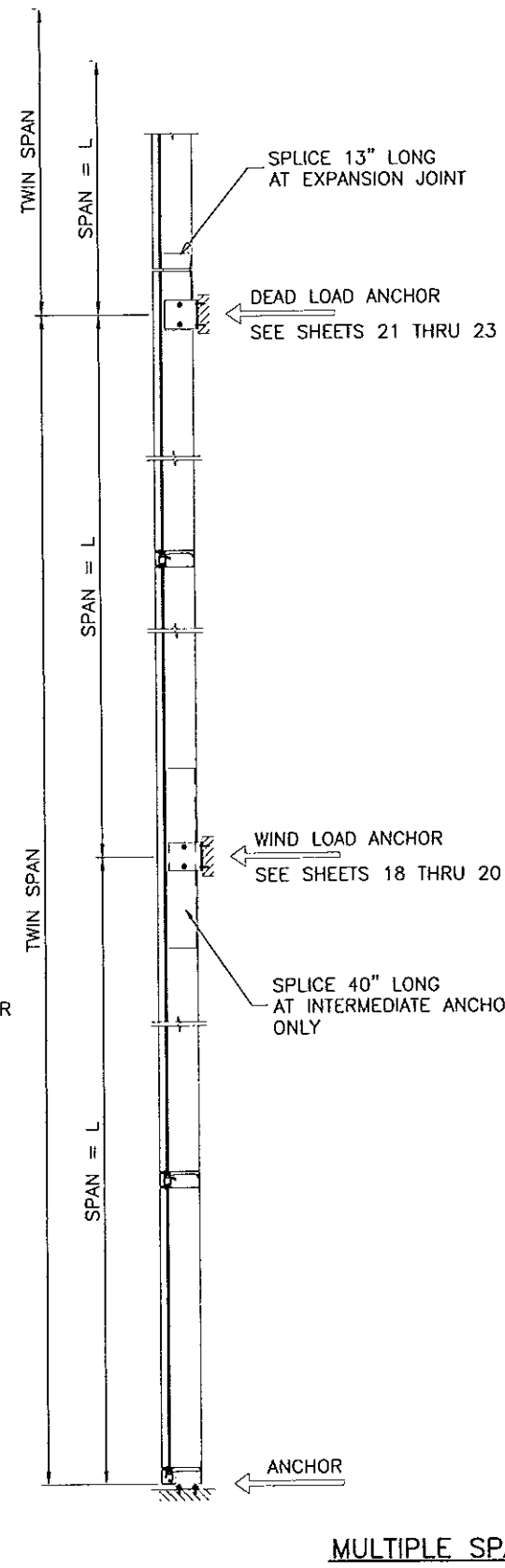
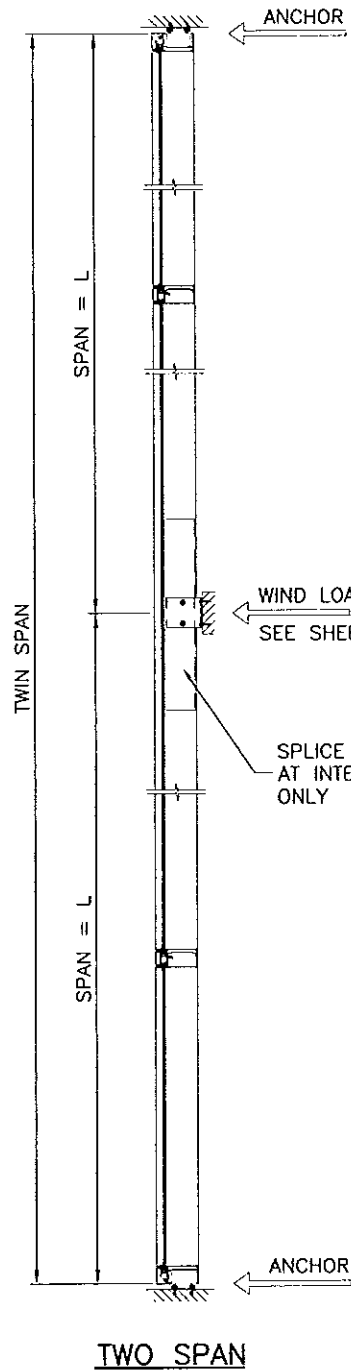
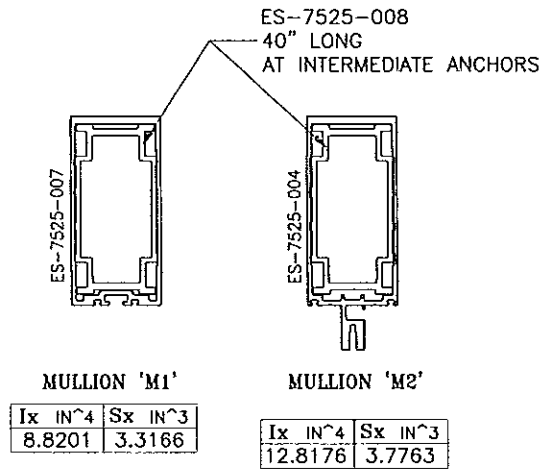
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drawing no.  
**W13-44**

sheet 8 of 30

MULLION LOAD CAPACITY - PSF TWIN SPANS			
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'
AVG. MULL SPACING	SPAN = L	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	108"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		-	100.0
54"		-	100.0
60"	-	-	94.4
36"	114"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
50"		-	100.0
54"		-	99.4
60"	-	-	89.4
36"	120"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		99.9	100.0
50"		-	100.0
54"		-	94.5
60"	-	-	85.0
36"	126"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		-	100.0
50"		-	100.0
54"		-	90.0
60"	-	-	81.0
36"	132"	100.0	100.0
40"		100.0	100.0
42"		100.0	100.0
48"		-	100.0
50"		-	96.7
54"		-	86.0
60"	-	-	77.4
36"	138"	100.0	100.0
40"		100.0	100.0
42"		-	100.0
48"		-	100.0
50"		-	92.6
54"		-	82.3
60"	-	-	74.0
36"	144"	100.0	100.0
40"		100.0	100.0
42"		-	100.0
48"		-	100.0
50"		-	88.8
54"		-	78.9
60"	-	-	71.0
36"	150"	100.0	100.0
40"		-	100.0
42"		-	100.0
48"		-	94.1
50"		-	82.3
54"		-	73.2

UN-REINFORCED MULLION TWIN SPAN TABLES



NOTE:  
THIS TABLE IS APPLICABLE FOR TWIN SPANS  
FOR SINGLE SPAN CAPACITY SEE TABLES ON SHEETS 6 & 7.

Approved as complying with the  
Florida Building Code  
Date: 11/21/2013  
NOA# 13-0930.12  
Miami Date Product Control  
By: [Signature]

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

SEP 16 2013

**afcc**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-44MG

SERIES MG-7000 ALUM. CURTAIN WALL SYSTEM (L.M.I.)

**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no	date	by	description

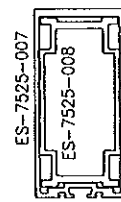
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scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**W13-44**

sheet 9 of 30

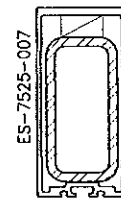
MULLION LOAD CAPACITY - PSF TWIN SPANS				
NOMINAL DIMS.		MULLION 'M1A'	MULLION 'M1B'	MULLION 'M2B'
AVG. MULL SPACING	SPAN = L	EXT. (+) INT.(-)	EXT. (+) INT.(-)	EXT. (+) INT.(-)
36"	108"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
50"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"	100.0	100.0	100.0	
36"	114"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
50"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"	99.7	100.0	100.0	
36"	120"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
50"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"	94.7	100.0	100.0	
36"	126"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
50"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"	-	100.0	100.0	
36"	132"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
50"		100.0	100.0	100.0
54"		100.0	100.0	100.0
60"	-	100.0	100.0	
36"	138"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
50"		98.8	100.0	100.0
54"		-	100.0	100.0
60"	-	100.0	100.0	
36"	144"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		98.7	100.0	100.0
50"		94.7	100.0	100.0
54"		-	100.0	100.0
60"	-	96.1	100.0	
36"	150"	100.0	100.0	100.0
40"		100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		91.3	100.0	100.0
50"		-	100.0	100.0
54"		-	98.8	100.0

REINFORCED MULLION TWIN SPAN TABLES



MULLION 'M1A'

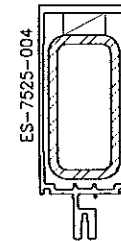
Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
15.1742	5.7059



MULLION 'M1B'

	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	8.8201	3.3166
STEEL	4.4900	2.2500
TOTAL lx ALUM + lx STL X 2.9	21.8411	

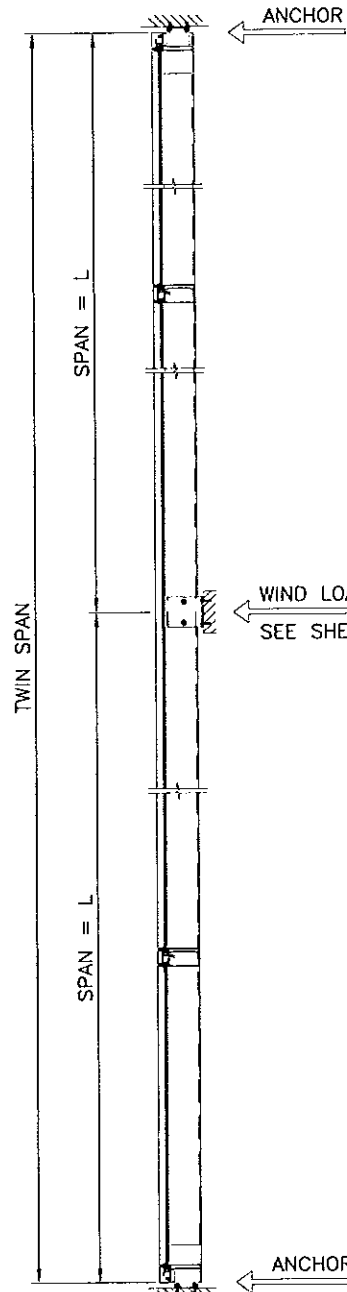
REINF. LENGTH = MULL LENGTH-6"



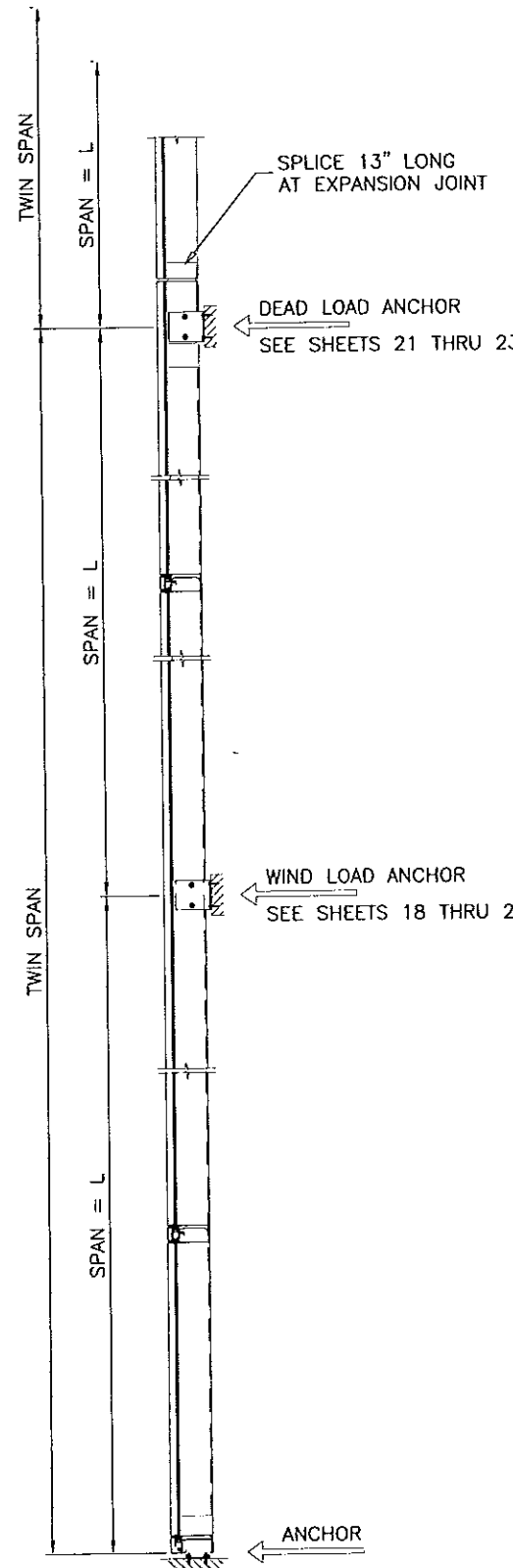
MULLION 'M2B'

	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	12.8175	3.7763
STEEL	4.4900	2.2500
TOTAL lx ALUM + lx STL X 2.9	25.8386	

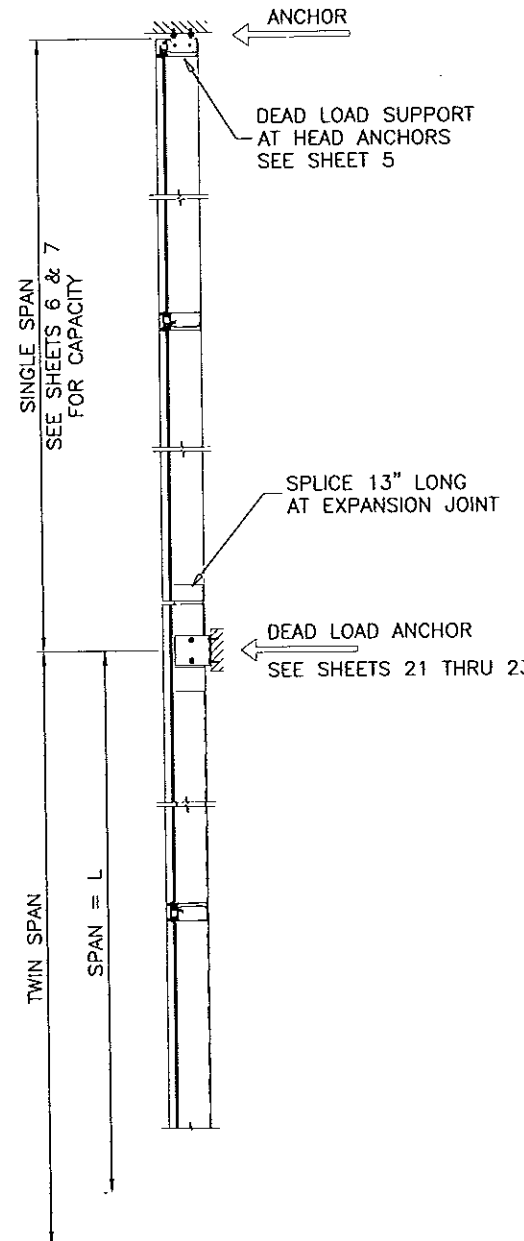
REINF. LENGTH = MULL LENGTH-6"



TWO SPAN



MULTIPLE SPANS



Approved as complying with the Florida Building Code  
 Date 11/21/2013  
 NOA# 13-0930.12  
 Miami Code Product Control  
 By *[Signature]*

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 SEP 16 2013

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL (305) 264-8100 FAX (305) 262-6978  
 COMP-ANL W13-44MG

---

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
 7440 N.W. 66 STREET  
 MIAMI, FL. 33166  
 TEL (305) 470-8284 FAX (305) 470-8285

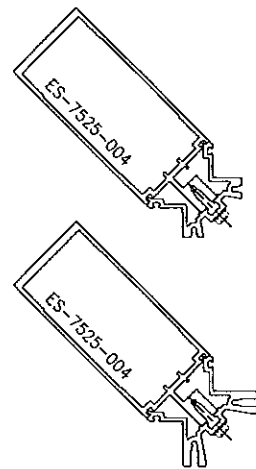
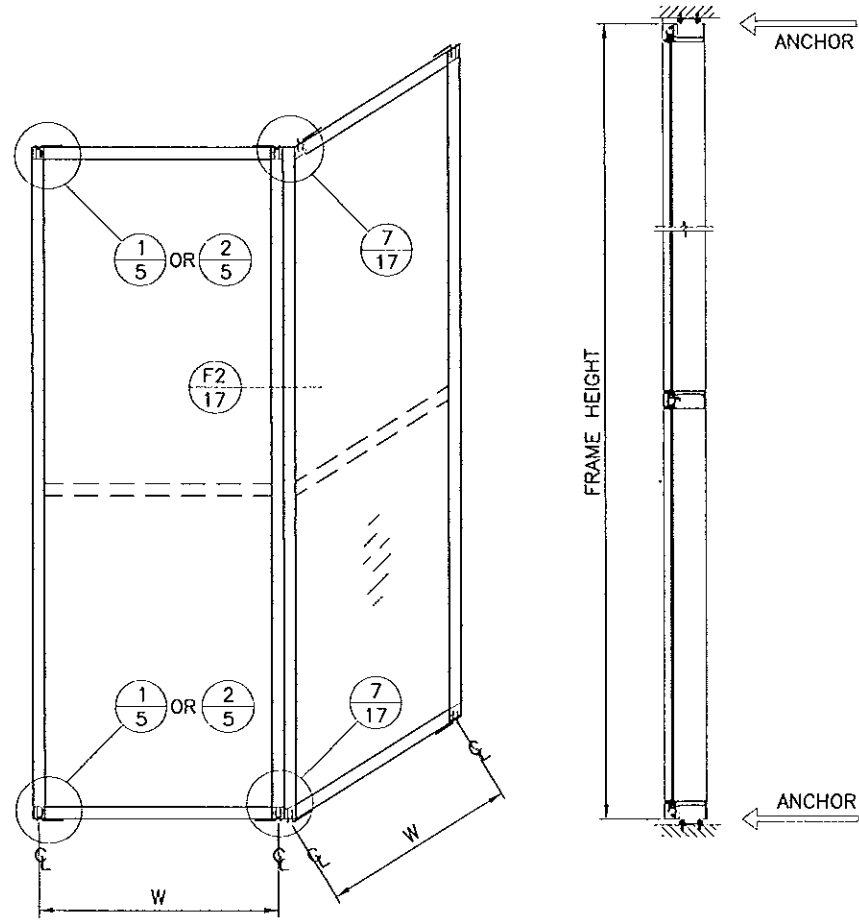
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revisions:	no	date	by	description

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date: 09-16-13  
 scale: -  
 dr. by: TARIQ  
 chk. by:   
 drawing no. **W13-44**  
 sheet 10 of 30

**CORNER MULLION W/O REINFORCING**  
**SINGLE SPAN WITH OR WITHOUT HORIZONTAL**

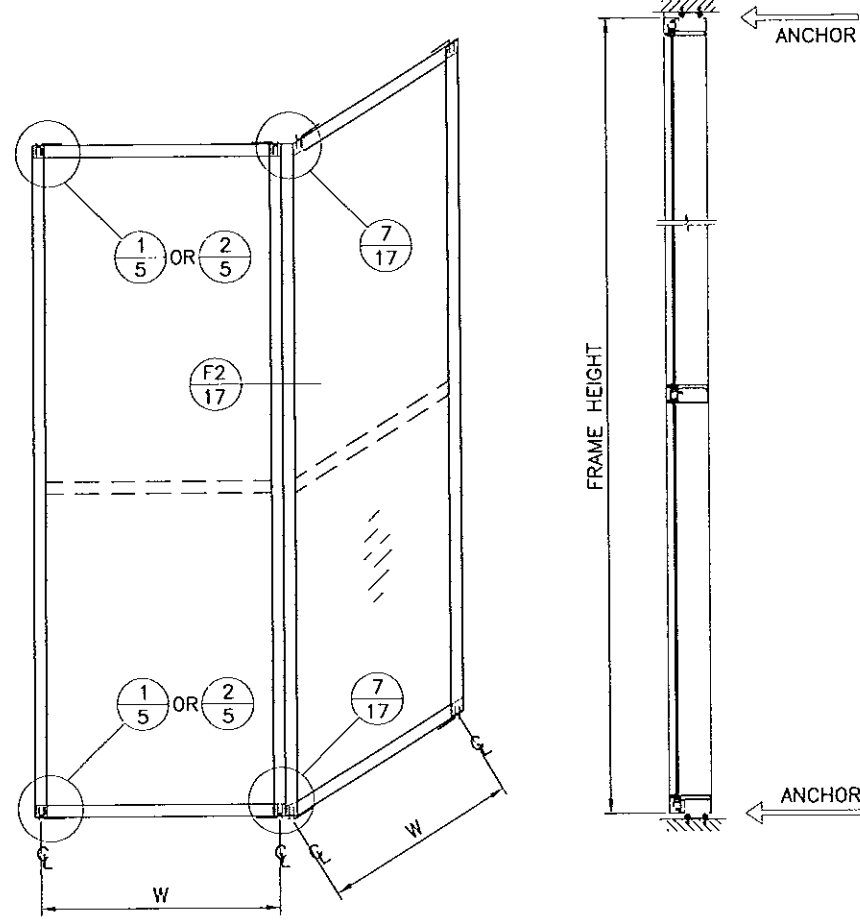


CORNER MULLION

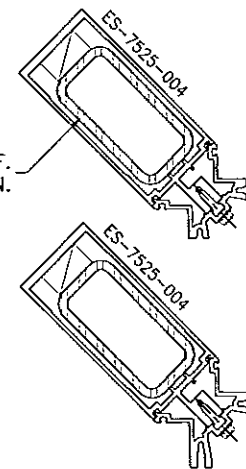
WIDTH-W INCHES	FRAME HEIGHT INCHES	DESIGN LOAD CAPACITY PSF
42	120	97.1
48	120	85.0
54	120	75.5
60	120	68.0

**NOTE:**  
 USE 'F' ANCHOR CLIP DETAIL ① AT JAMB AND  
 'T' ANCHOR CLIP DETAIL ② AT MULLION

**CORNER MULLION WITH REINFORCING**  
**SINGLE SPAN WITH OR WITHOUT HORIZONTAL**



STEEL TUBE REINF.  
 LENGTH = FRAME HT. - 6 IN.



CORNER MULLION  
 W/ STEEL REINF.

WIDTH-W INCHES	FRAME HEIGHT INCHES	DESIGN LOAD CAPACITY PSF
48	150	100.0
52	150	100.0
60	150	93.0
60	144	100.0

Approved as complying with the  
 Florida Building Code  
 Date 11/21/2013  
 NOAH 13-0930.12  
 Miami Dade Product Control  
 By *[Signature]*

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 SEP 16 2013

**afC**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL (305) 264-8100 FAX (305) 262-6978  
 COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
 7440 N.W. 66 STREET  
 MIAMI, FL. 33166  
 TEL (305) 470-8284 FAX (305) 470-8285

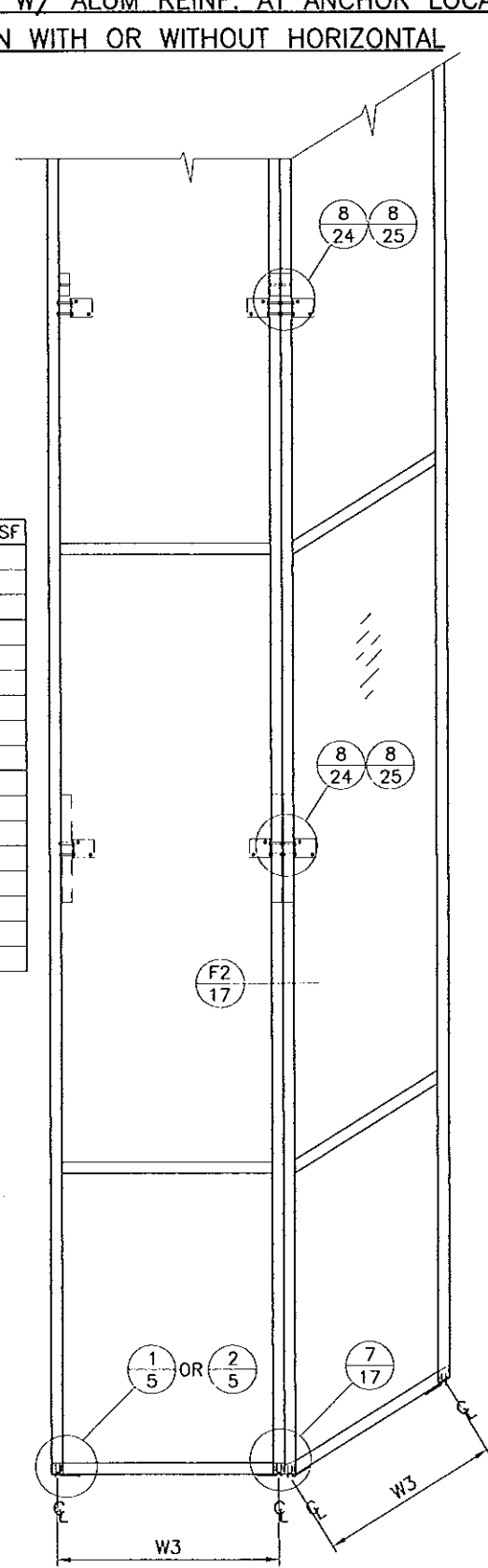
no	date	by	description

date: 09-16-13  
 scale: -  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W13-44**  
 sheet 11 of 30

CORNER MULLION W/ ALUM REINF. AT ANCHOR LOCATION  
TWIN SPAN WITH OR WITHOUT HORIZONTAL

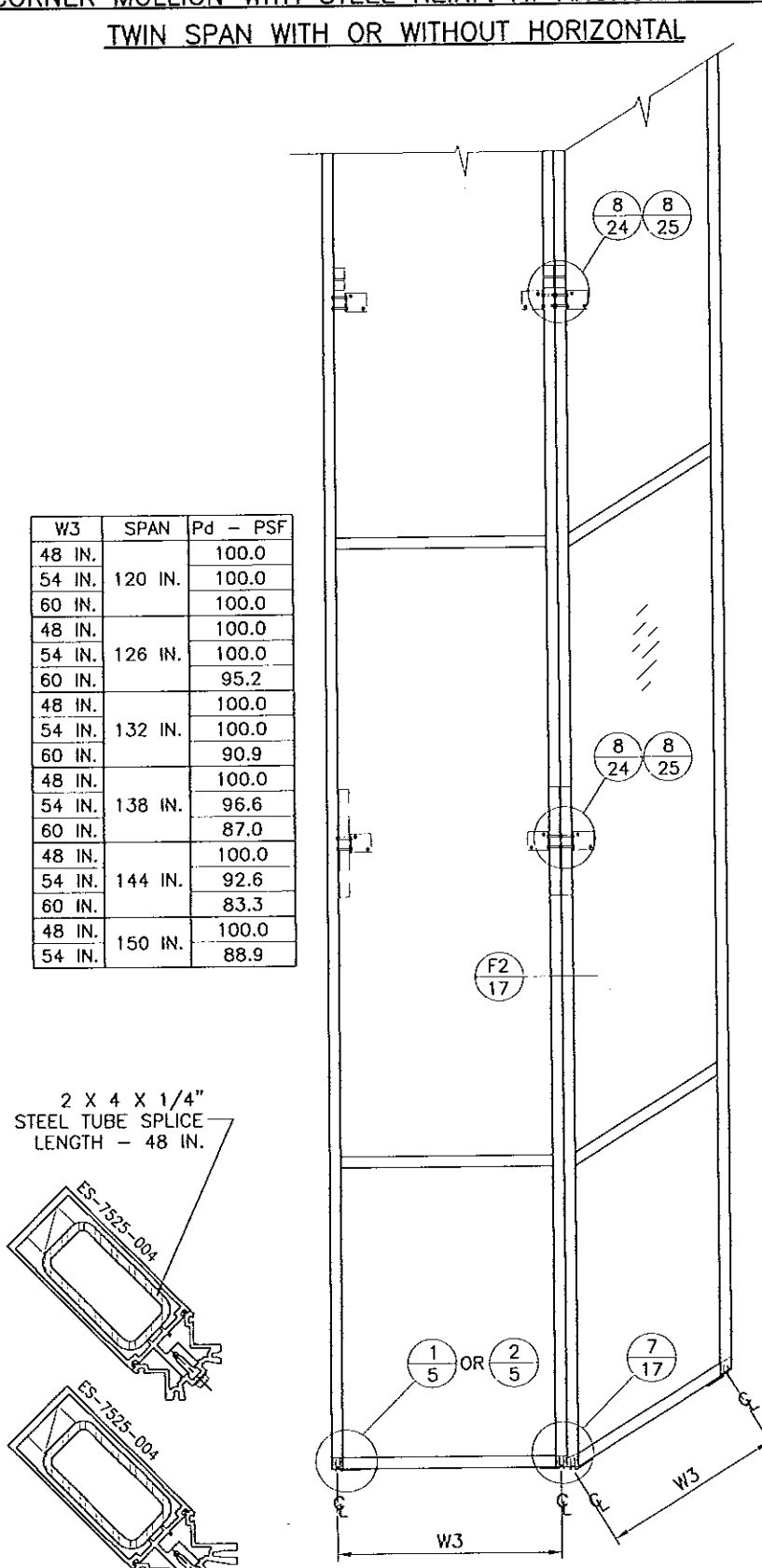
W3	SPAN	Pd - PSF
48 IN.		100.0
54 IN.	120 IN.	88.9
60 IN.		80.0
48 IN.	126 IN.	95.2
54 IN.		84.7
60 IN.		76.2
48 IN.	132 IN.	90.9
54 IN.		80.8
60 IN.		72.7
48 IN.	138 IN.	87.0
54 IN.		77.3
60 IN.		69.6
48 IN.	144 IN.	83.3
54 IN.		74.1
60 IN.		66.7
48 IN.	150 IN.	80.0
54 IN.		71.1



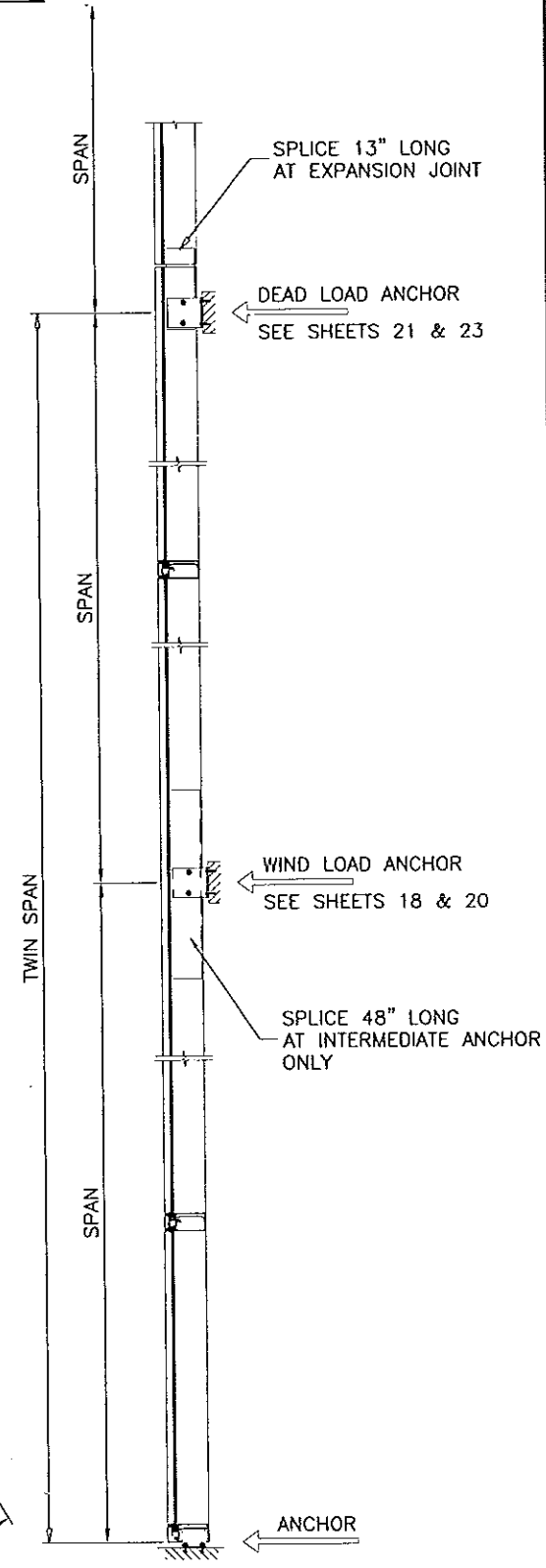
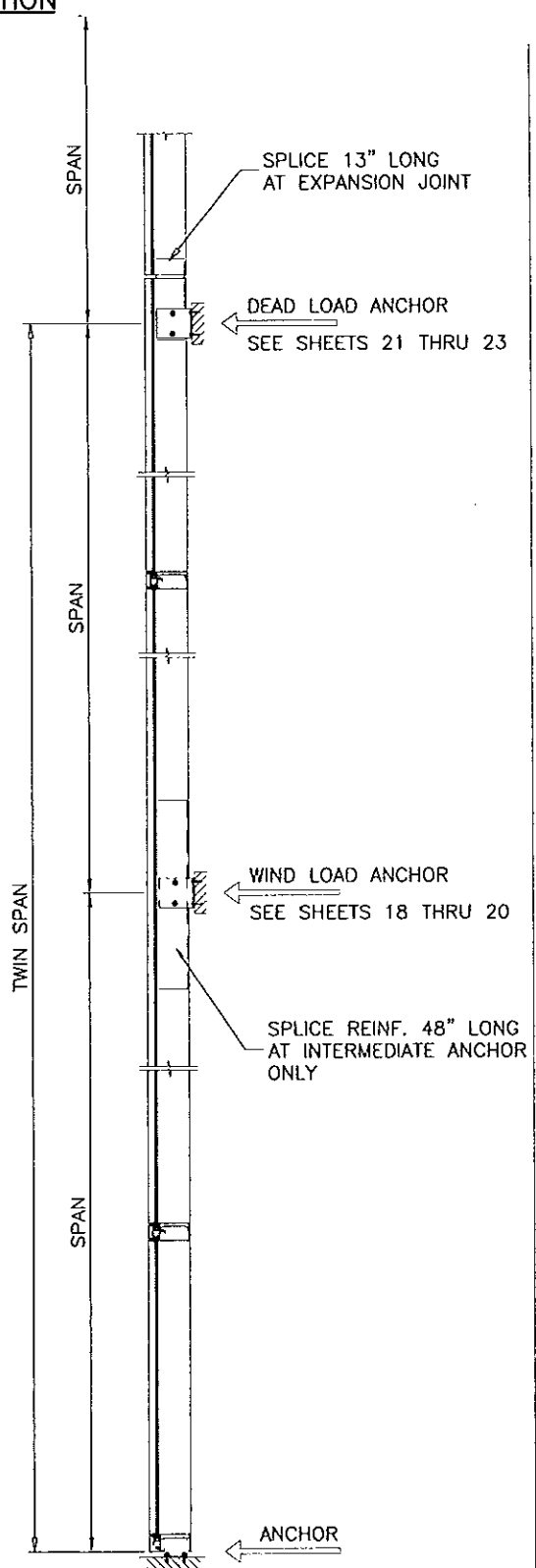
CORNER MULLION W/ ALUM REINF.

CORNER MULLION WITH STEEL REINF. AT ANCHOR LOCATION  
TWIN SPAN WITH OR WITHOUT HORIZONTAL

W3	SPAN	Pd - PSF
48 IN.		100.0
54 IN.	120 IN.	100.0
60 IN.		100.0
48 IN.	126 IN.	100.0
54 IN.		100.0
60 IN.		95.2
48 IN.	132 IN.	100.0
54 IN.		100.0
60 IN.		90.9
48 IN.	138 IN.	100.0
54 IN.		96.6
60 IN.		87.0
48 IN.	144 IN.	100.0
54 IN.		92.6
60 IN.		83.3
48 IN.	150 IN.	100.0
54 IN.		88.9



CORNER MULLION W/ STEEL REINF.



NOTE:  
USE 'F' ANCHOR CLIP DETAIL (1) AT JAMB AND  
'T' ANCHOR CLIP DETAIL (2) AT MULLION

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOAH 13-0930.12  
Miami Code Product Control  
By *[Signature]*

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
SEP 16 2013

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANLW13-44MG

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SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

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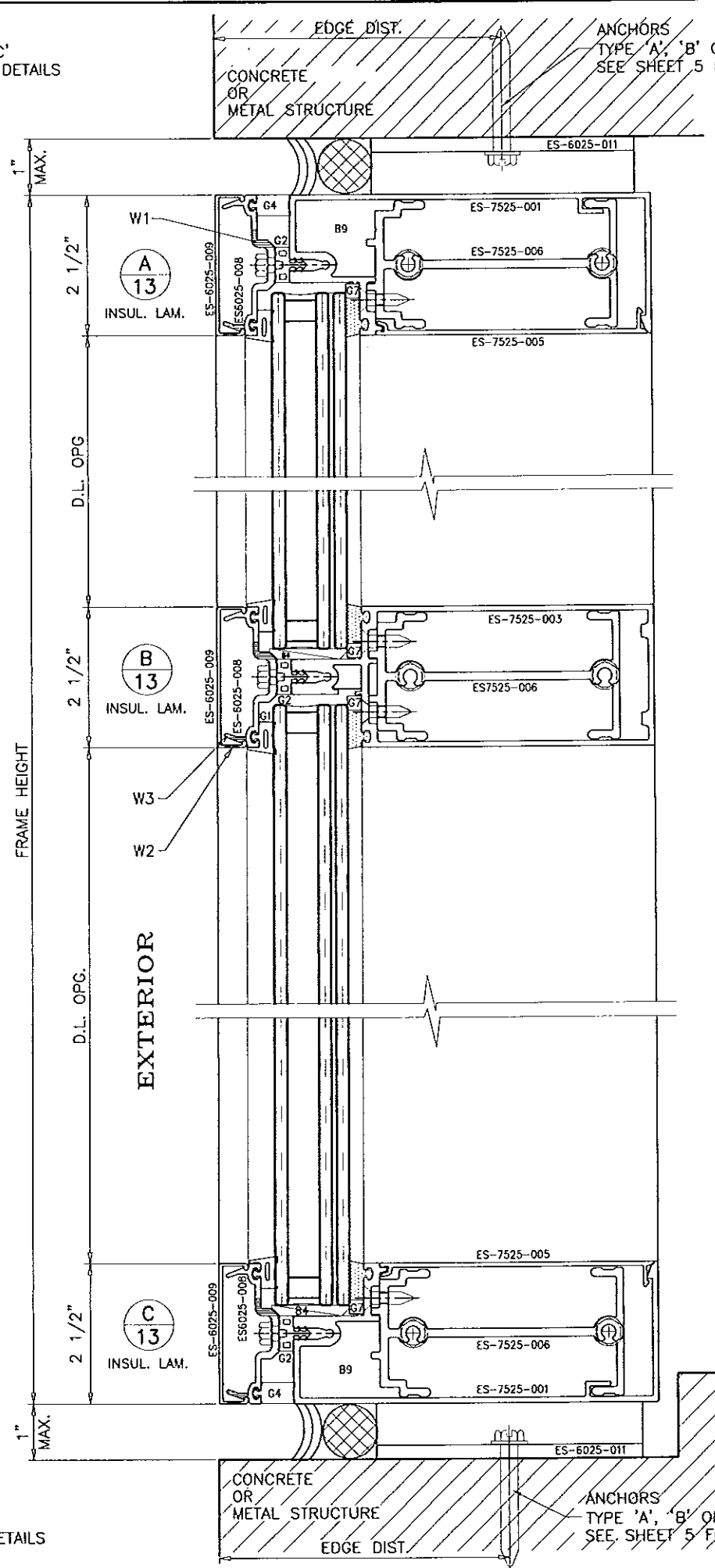
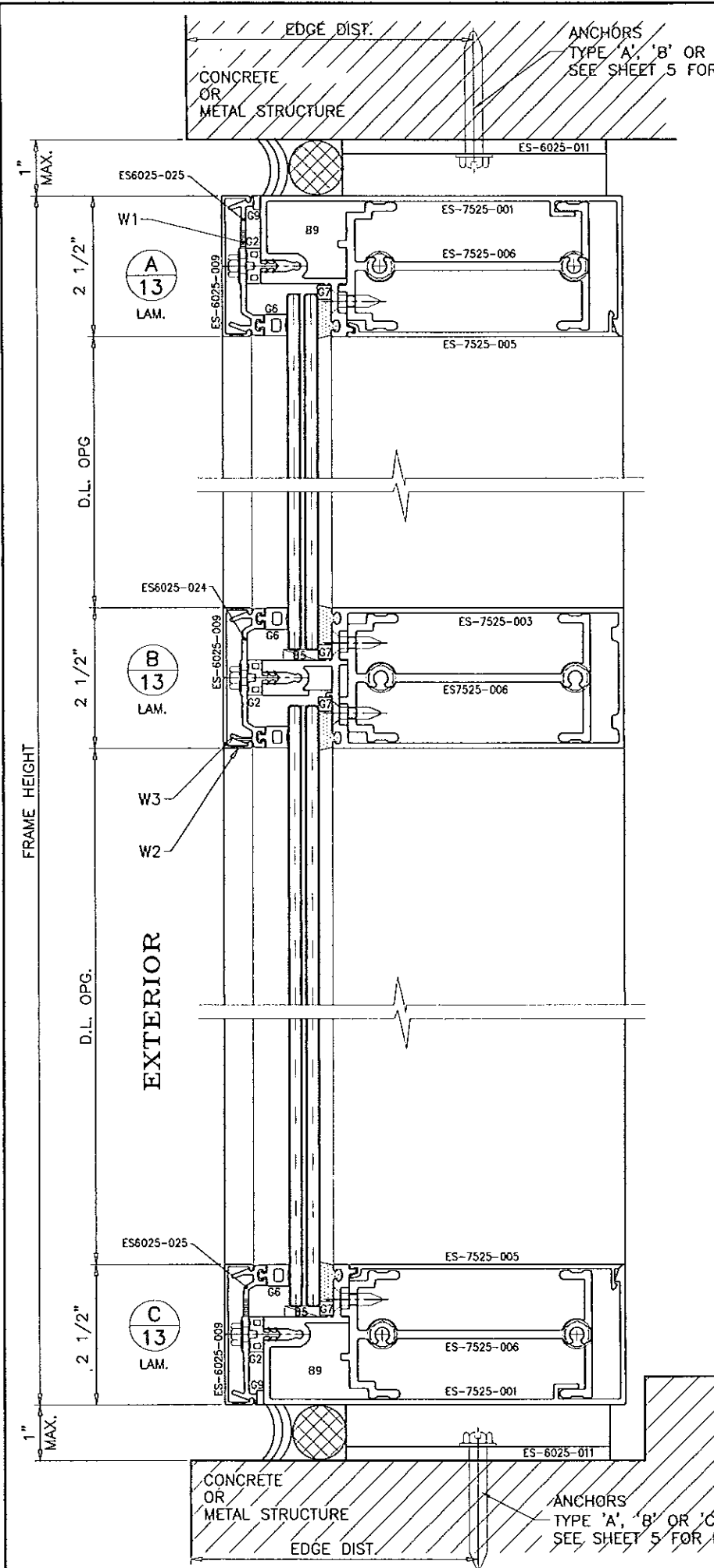
no	date	description

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date: 09-16-13  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**W13-44**  
sheet 12 of 30



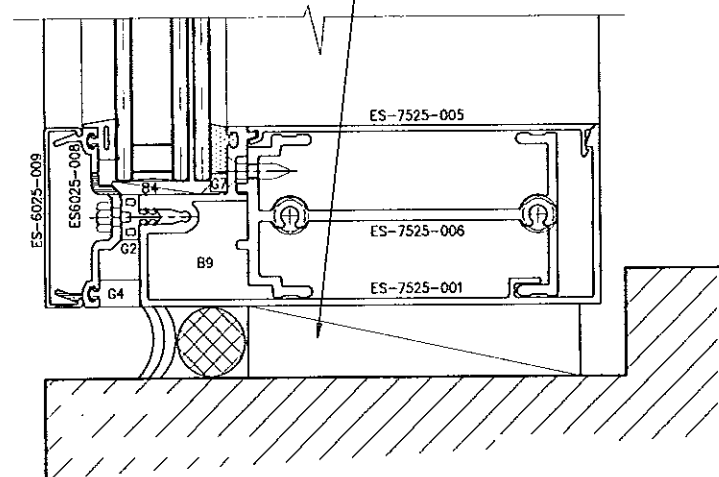


CONCRETE AND METAL STRUCTURE NOT BY MR. GLASS  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**WEEPHOLES:**

- W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.  
AT 1/3 POINTS FROM VERTICALS
- W2 = 1/4" DIA. WEEP HOLES THREE PER LITE  
AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.
- W3 = 1/2" WIDE WEEP NOTCH THREE PER LITE  
AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.

LOAD BEARING SHIMS  
AT EACH SIDE OF CLIPS  
REQD. WHERE SPACE OF 1/16"  
OR GREATER OCCURS.  
MAX. SHIM STACK TO BE 1"



Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

SEP 16 2013

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Florida Building Code  
Date: 12/12/2013  
NOAH  
Miami Date Product Control  
By: [Signature]

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP - ANL W13-44MG

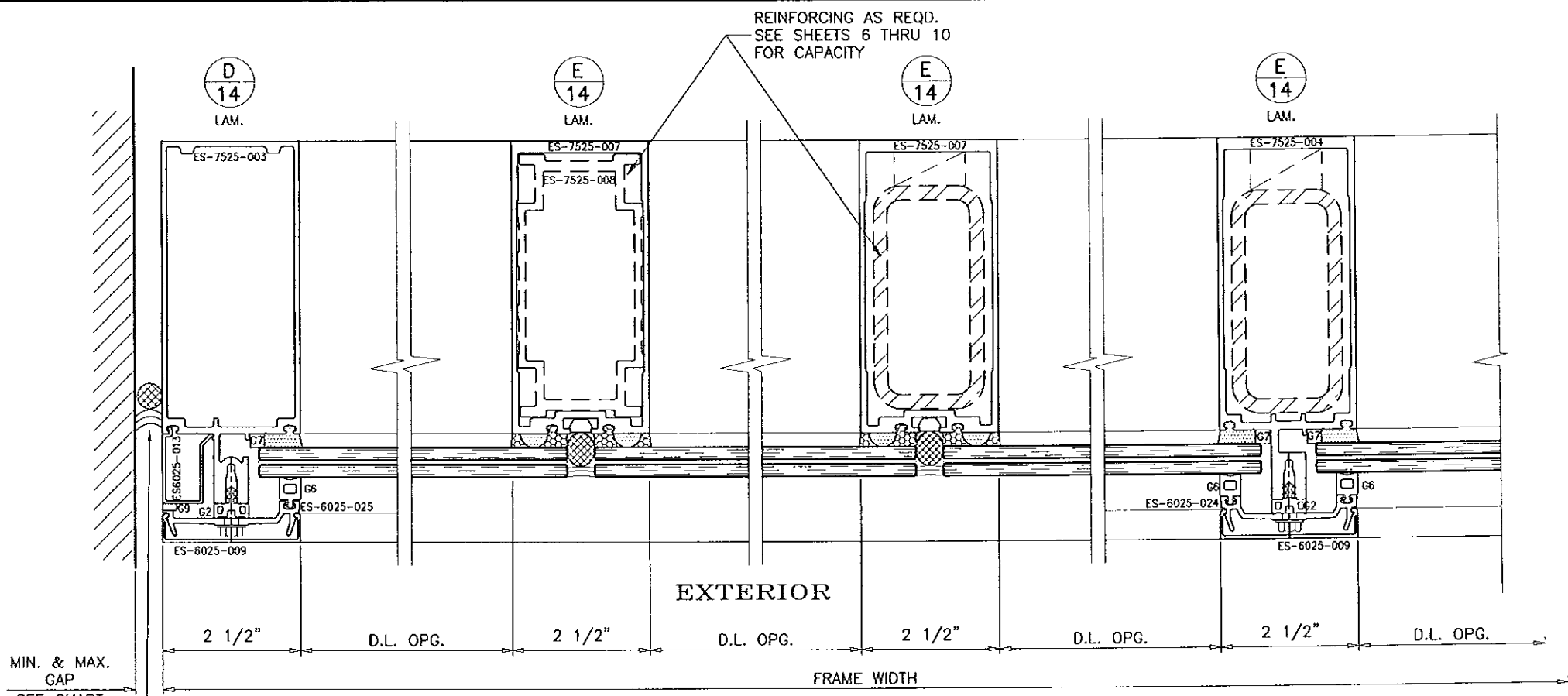
SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)

**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no	date	by	description

date: 09-16-13  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by: [Signature]

drawing no.  
**W13-44**  
sheet 13 of 30

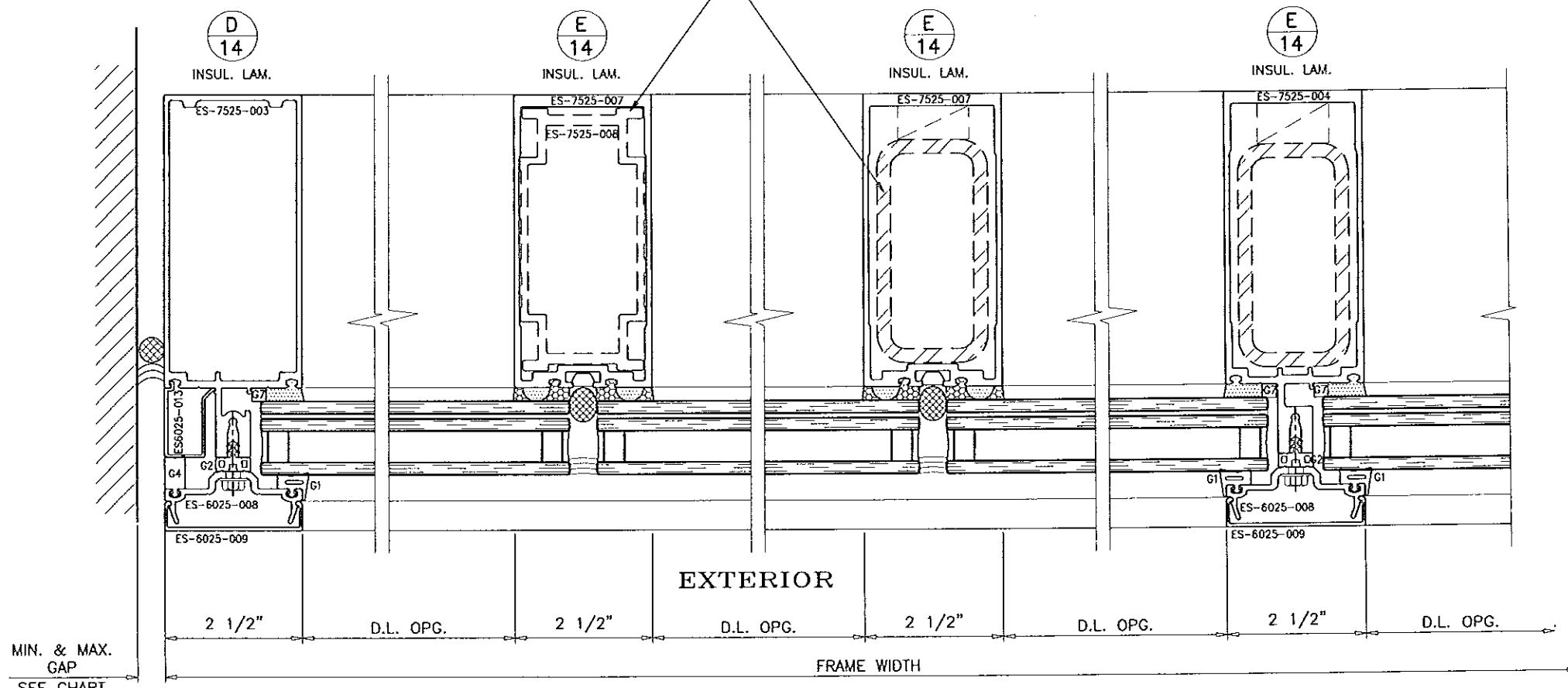


MIN. & MAX. GAP  
SEE CHART

SILICONE  
DOW CORNING 790  
DEPTH = 3/8" MIN.

REINFORCING AS REQD.  
SEE SHEETS 6 THRU 10  
FOR CAPACITY

REINFORCING AS REQD.  
SEE SHEETS 6 THRU 10  
FOR CAPACITY



MIN. & MAX. GAP  
SEE CHART

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	1"
96"	5/16"	1"
108"	11/32"	1"
120"	3/8"	1"
132"	7/16"	1"
144"	15/32"	1"
150"	1/2"	1"

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

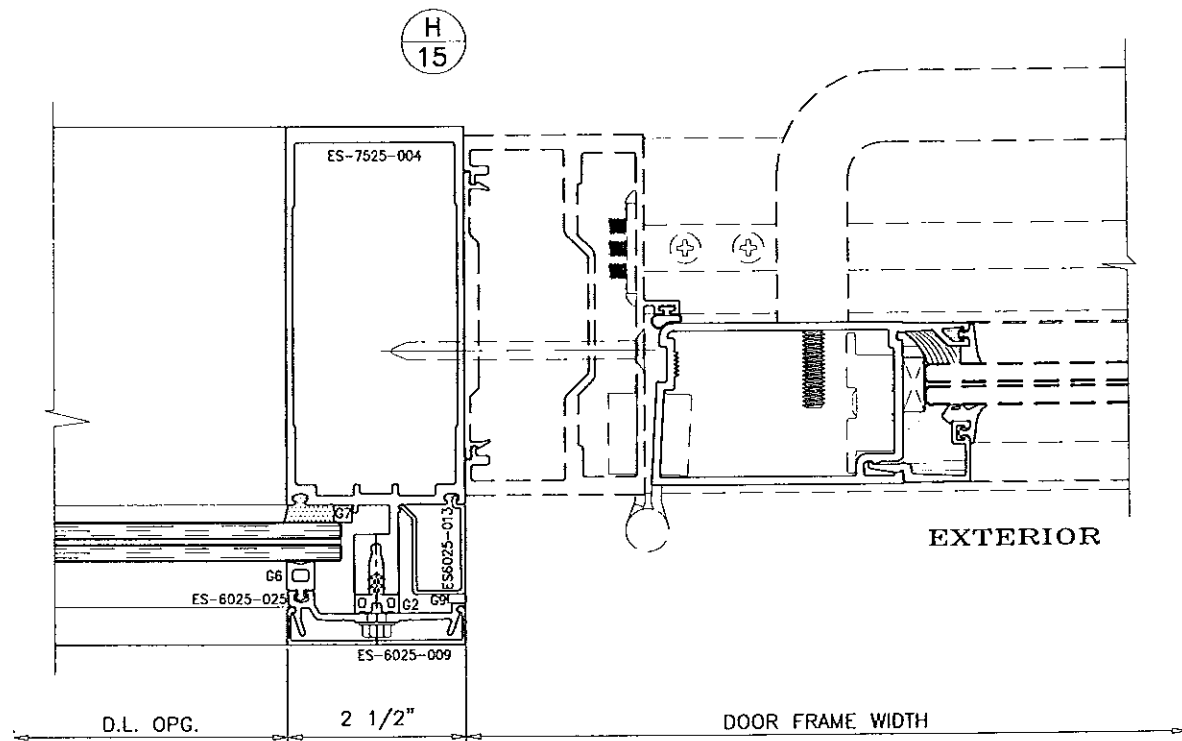
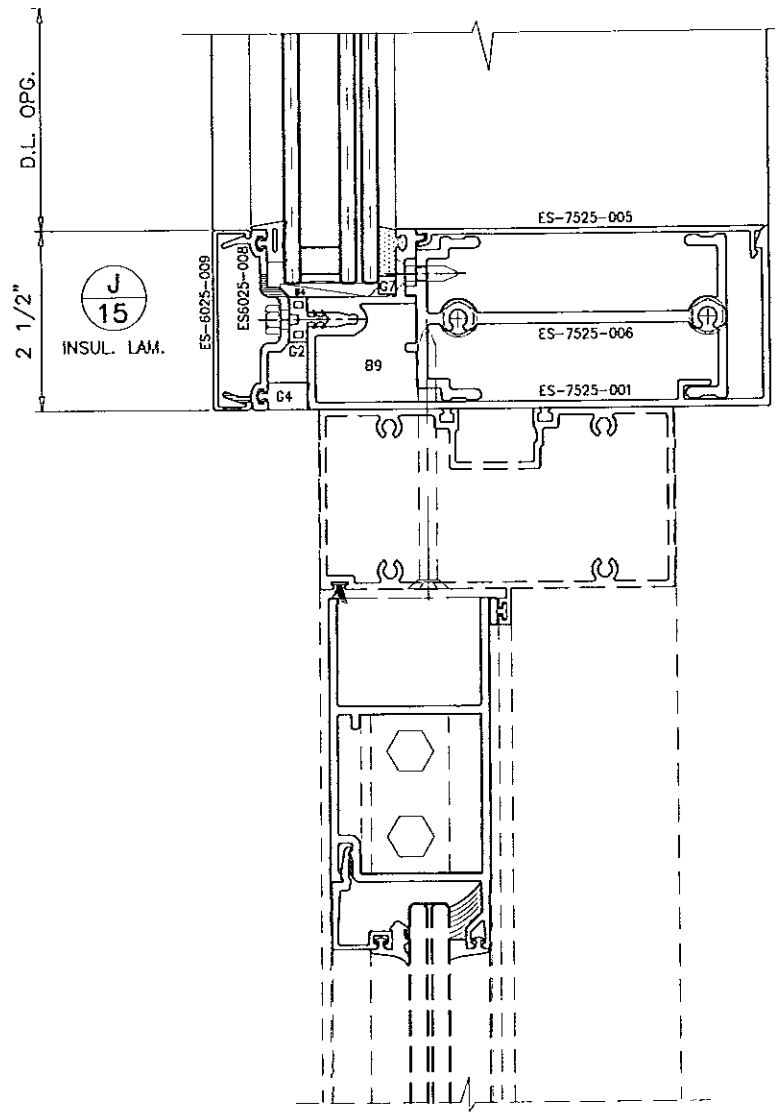
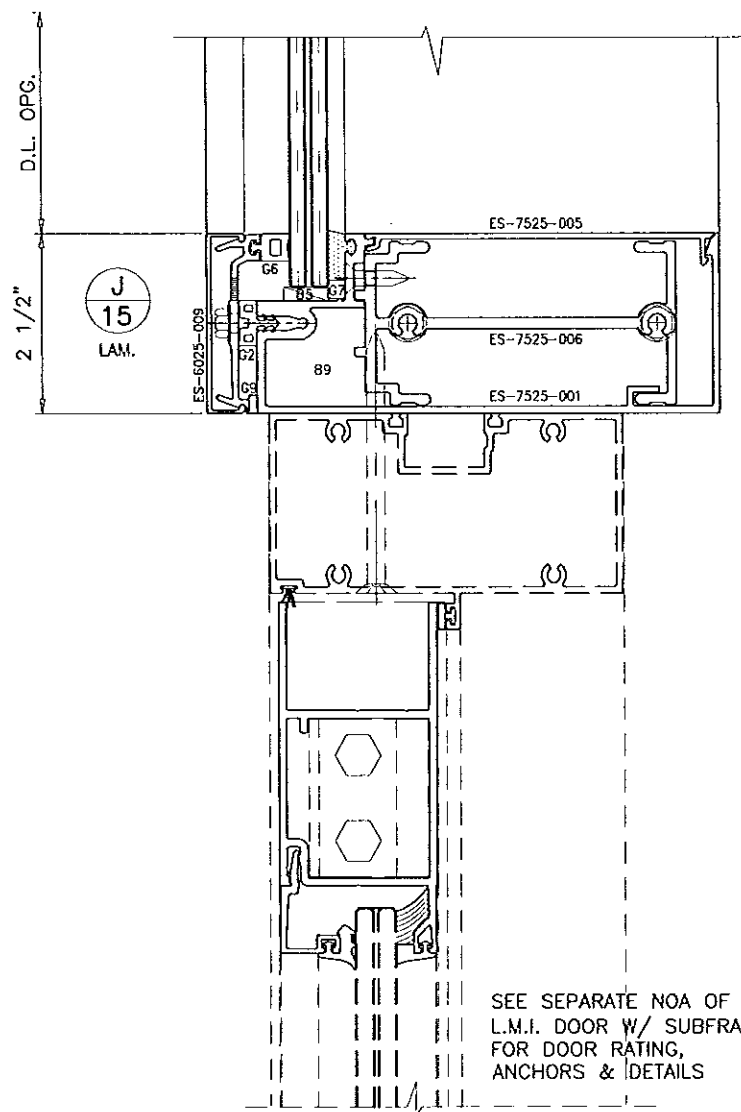
Approved as complying with the Florida Building Code  
Date 11/21/2013  
NOA# 13-0930.12  
Miami Dade Product Control  
By *[Signature]*

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*[Signature]*  
SEP 16 2013

**afc**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no.	date	by	description
date:	09-16-13	scale:	3/8" = 1"	dr. by:
				TARIQ
			chk. by:	
drawing no.				
W13-44				
sheet 14 of 30				



CONCRETE AND METAL STRUCTURE NOT BY MR. GLASS  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Approved as complying with the  
Florida Building Code  
Date: 12/24/2013  
NOA# 13-0930.12  
Miami Dade Product Control  
By: *[Signature]*

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538  
SEP 16 2013

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
12395 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL W13-44MG

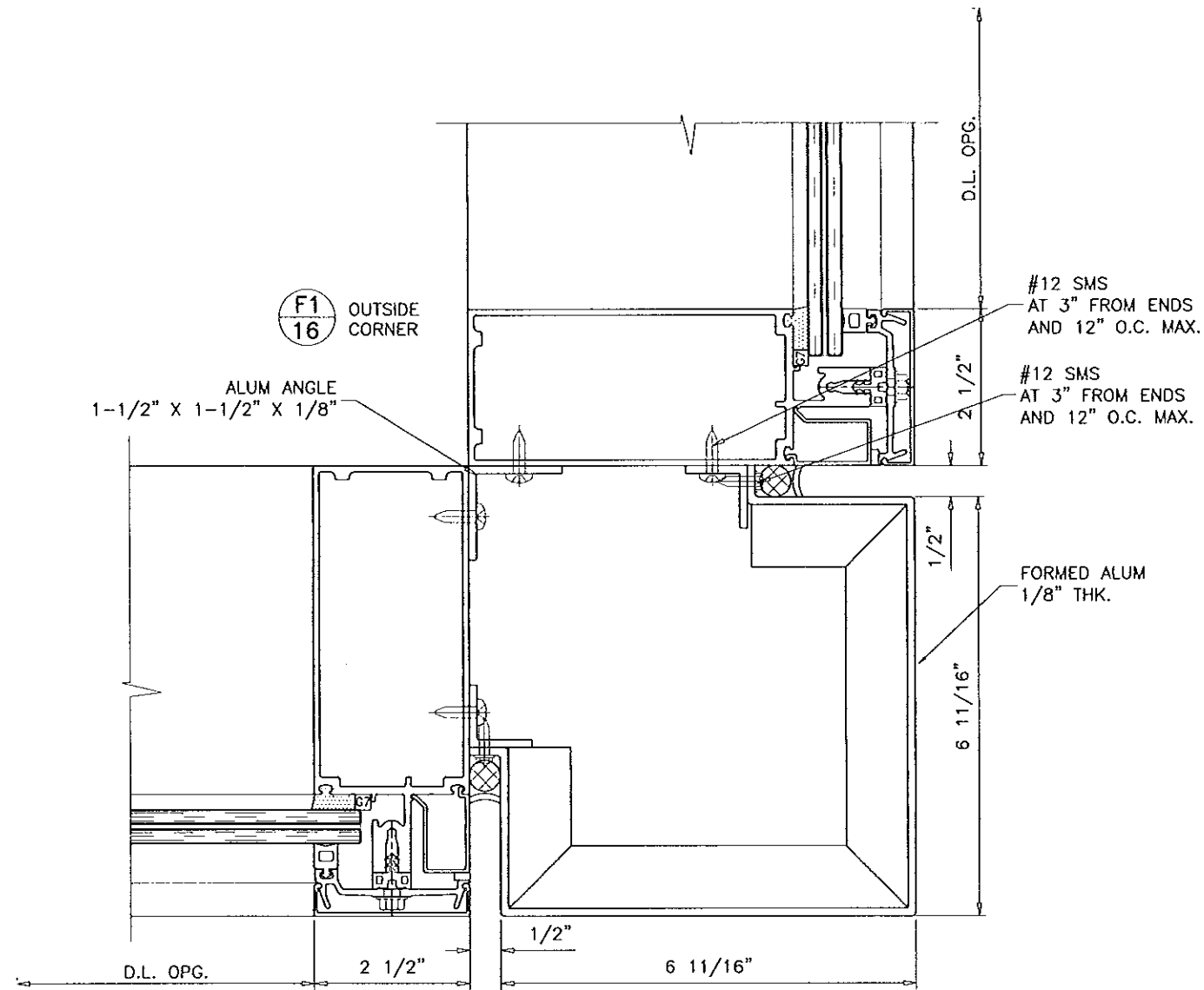
SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no	date	by	description

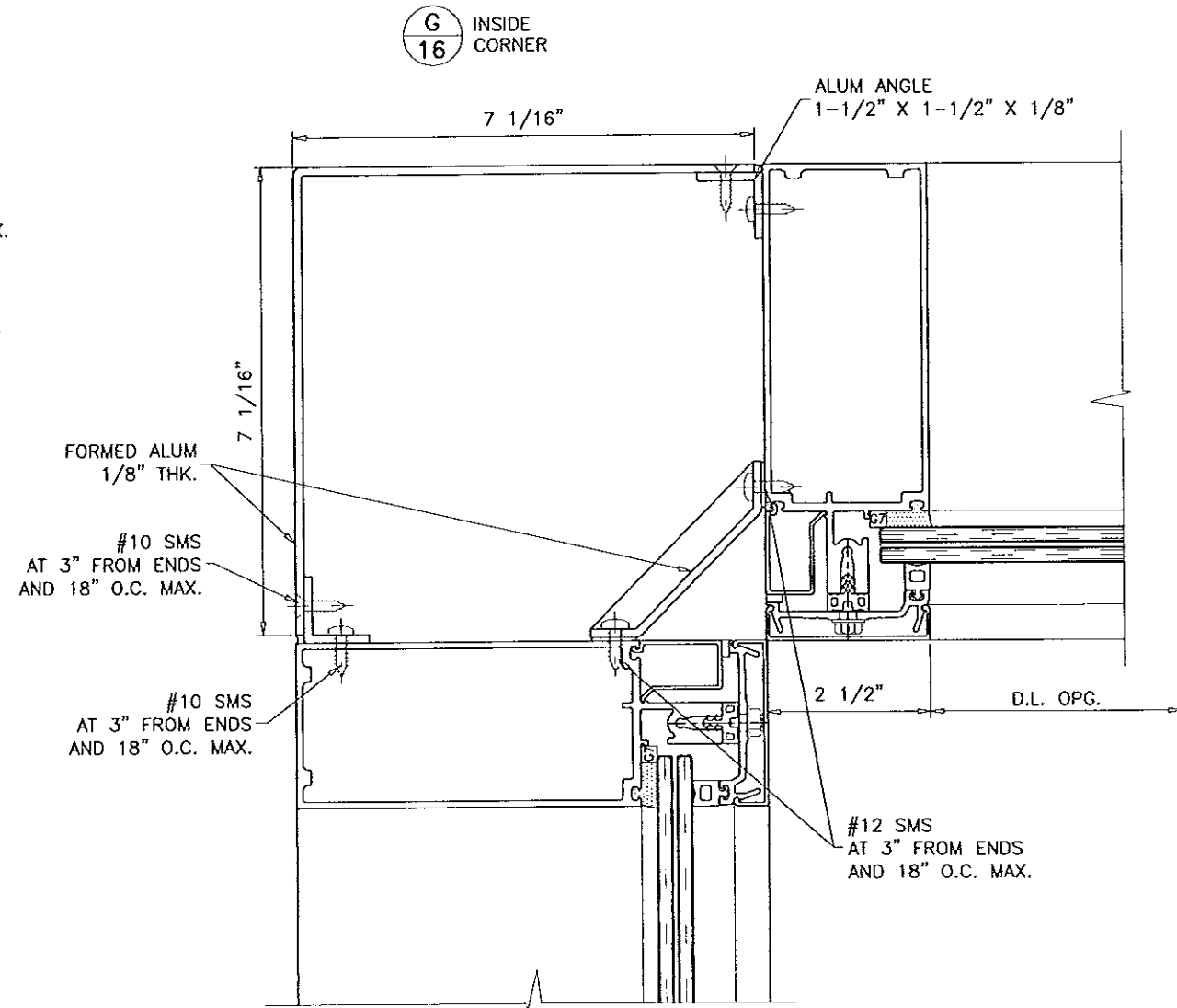
date: 09-16-13  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W13-44**

sheet 15 of 30



FOR MULLION CAPACITY  
SINGLE SPAN SEE SHEET 6  
TWIN SPANS SEE SHEET 8



FOR MULLION CAPACITY  
SINGLE SPAN SEE SHEET 6  
TWIN SPANS SEE SHEET 8

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOAH 13-0930.12  
Miami Dade Product Control  
By *[Signature]*

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*[Signature]*  
SEP 16 2013

af c

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

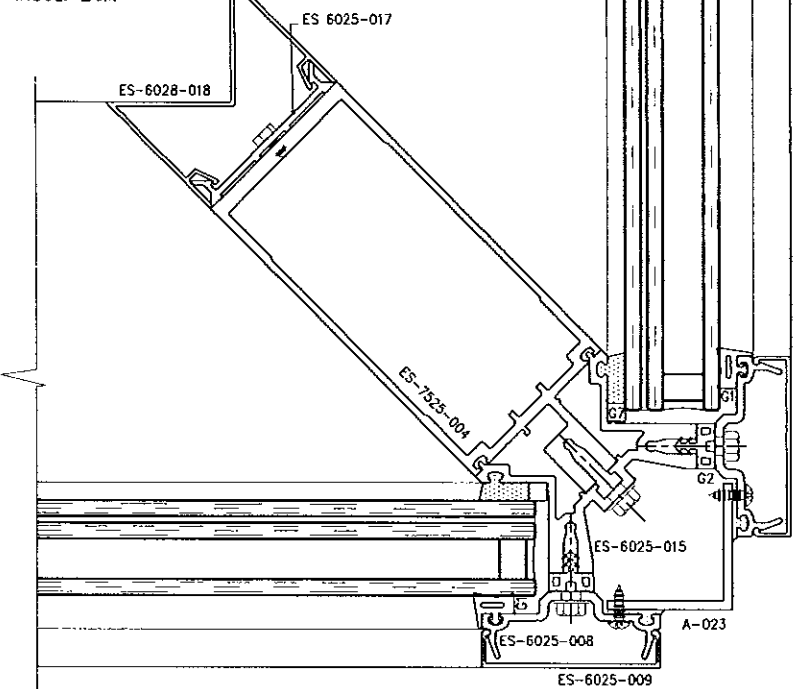
revisions:	
no	date by description

date: 09-16-13  
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dr. by: TARIQ  
chk. by:

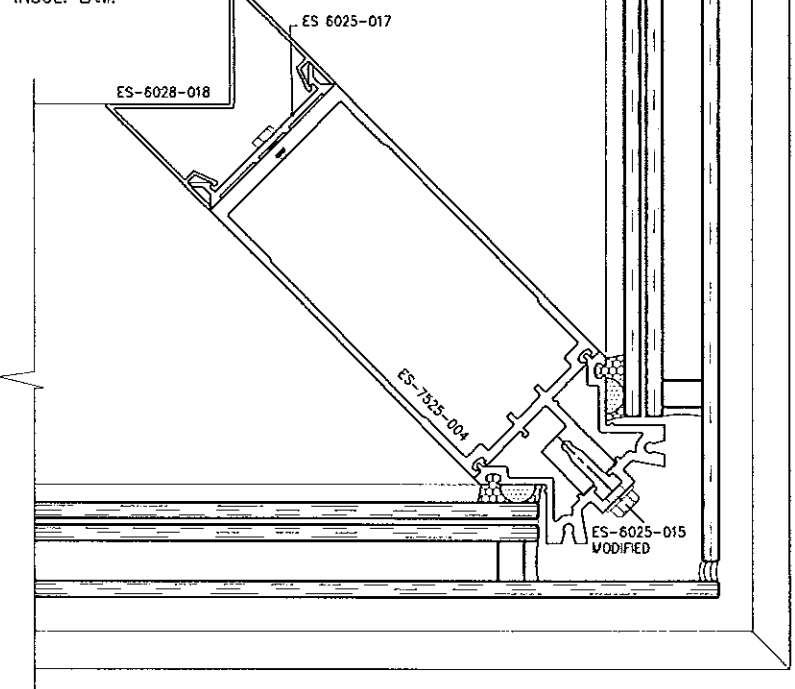
drawing no.  
W13-44

sheet 16 of 30

F2  
17  
OUTSIDE  
CORNER  
INSUL. LAM.



F2  
17  
OUTSIDE  
CORNER  
INSUL. LAM.



FOR MULLION CAPACITY  
SINGLE SPAN SEE SHEET 11  
TWIN SPANS SEE SHEET 12

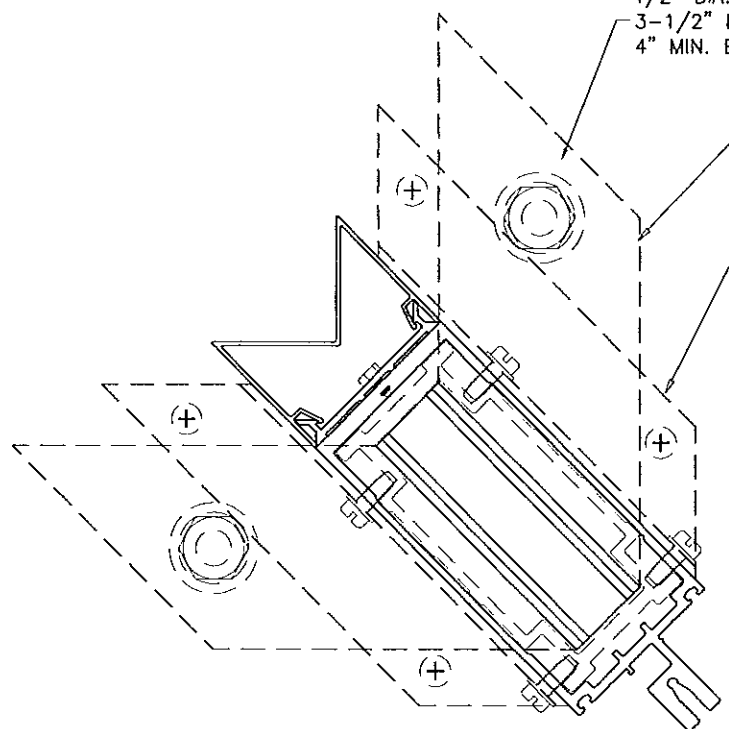
1/2" DIA. KWIK BOLTS  
3-1/2" MIN. CONC. EMBED  
4" MIN. EDGE DIST.

'T' CLIP

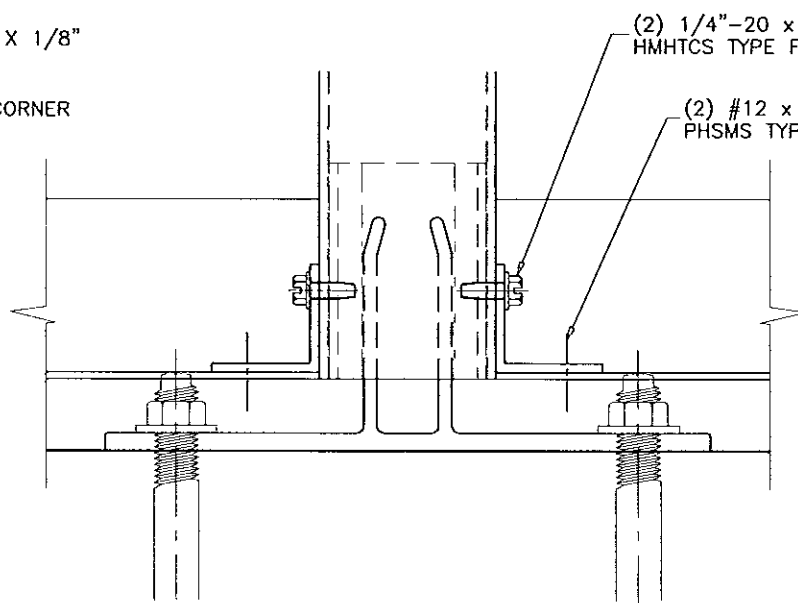
1-1/2" X 1-1/2" X 1/8"  
ALUM ANGLE  
7-13/16" LONG  
MITERED FOR 90° CORNER

(2) 1/4"-20 x 5/8"  
HMHTCS TYPE F

(2) #12 x 1/2"  
PHSMS TYPE AB



CORNER MULLION ANCHORS  
HEAD/SILL  
DETAIL '7'



CORNER MULLION ANCHORS  
FRONT VIEW

Approved as complying with the  
Florida Building Code  
Date 12/24/2013  
NOA# 13-0930.12  
Miami Dade Product Control  
By *[Signature]*

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538

SEP 16 2013

afc

AL-FAROOQ CORPORATION  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)

MR. GLASS DOORS & WINDOWS INC.  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:  
no. date by description

date: 09-16-13  
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

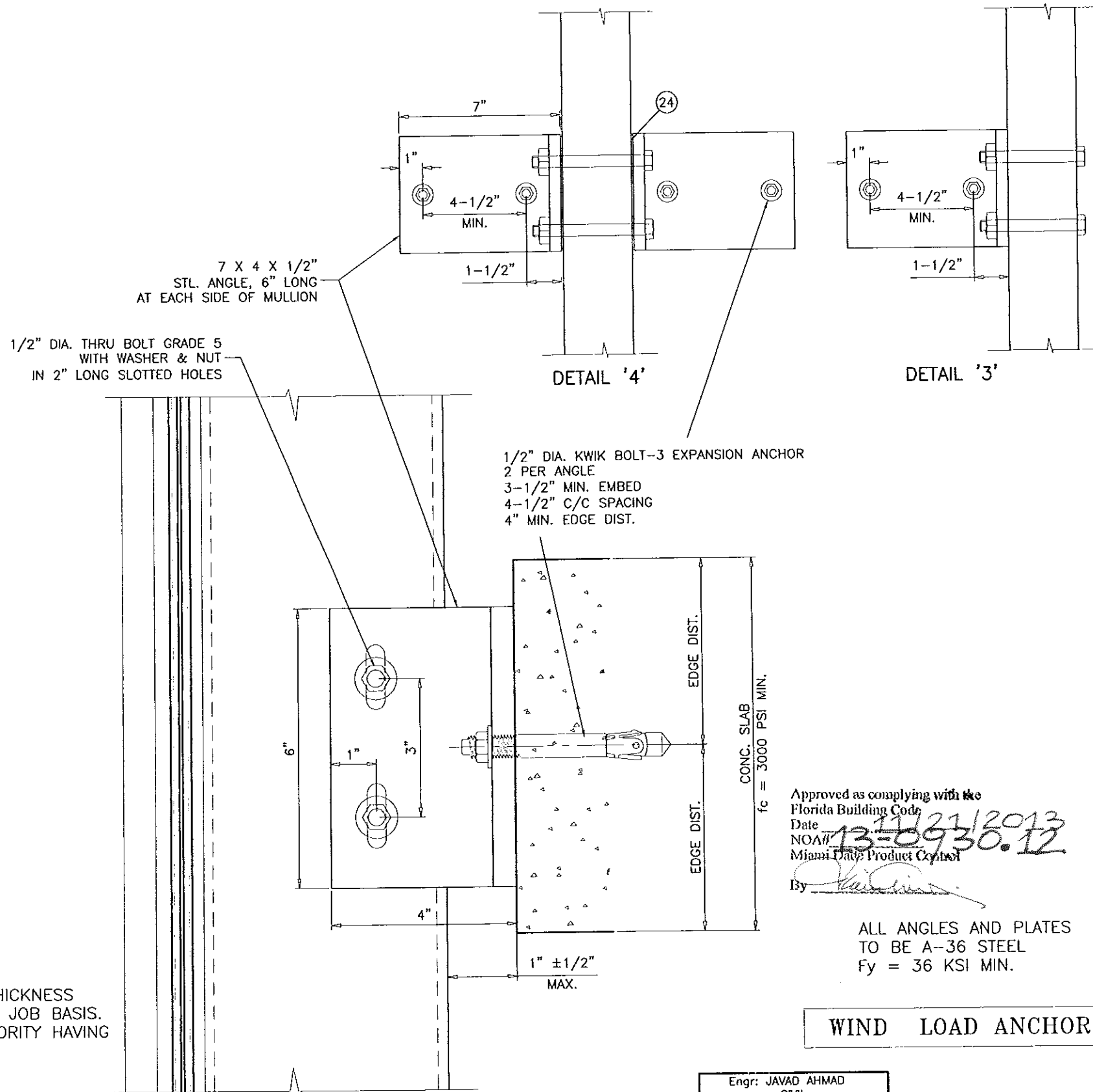
drawing no.  
W13-44

sheet 17 of 30

COMP-ANL\W13-44MG

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(--)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
30"	108"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		90.1
30"	114"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		94.8
60"		85.3
30"	120"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		90.1
60"		81.1
30"	126"	100.0
36"		100.0
42"		100.0
48"		96.5
54"		85.8
60"		77.2
30"	132"	100.0
36"		100.0
42"		100.0
48"		92.1
54"		81.9
60"		73.7
30"	138"	100.0
36"		100.0
42"		100.0
48"		88.1
54"		78.3
60"		70.5
30"	144"	100.0
36"		100.0
42"		96.5
48"		84.4
54"		75.0
60"		67.5
30"	150"	100.0
36"		100.0
42"		92.6
48"		81.1
54"		72.0

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.



**INTERMEDIATE ANCHORS**  
DETAIL '4' AT CENTER MULLION  
DETAIL '3' AT JAMB MULLION  
**ANCHORS INTO CONCRETE**

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
  
SEP 16 2013

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOA# 13-0930-12  
Miami Date Product Control  
By [Signature]  
  
ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

**WIND LOAD ANCHOR**

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

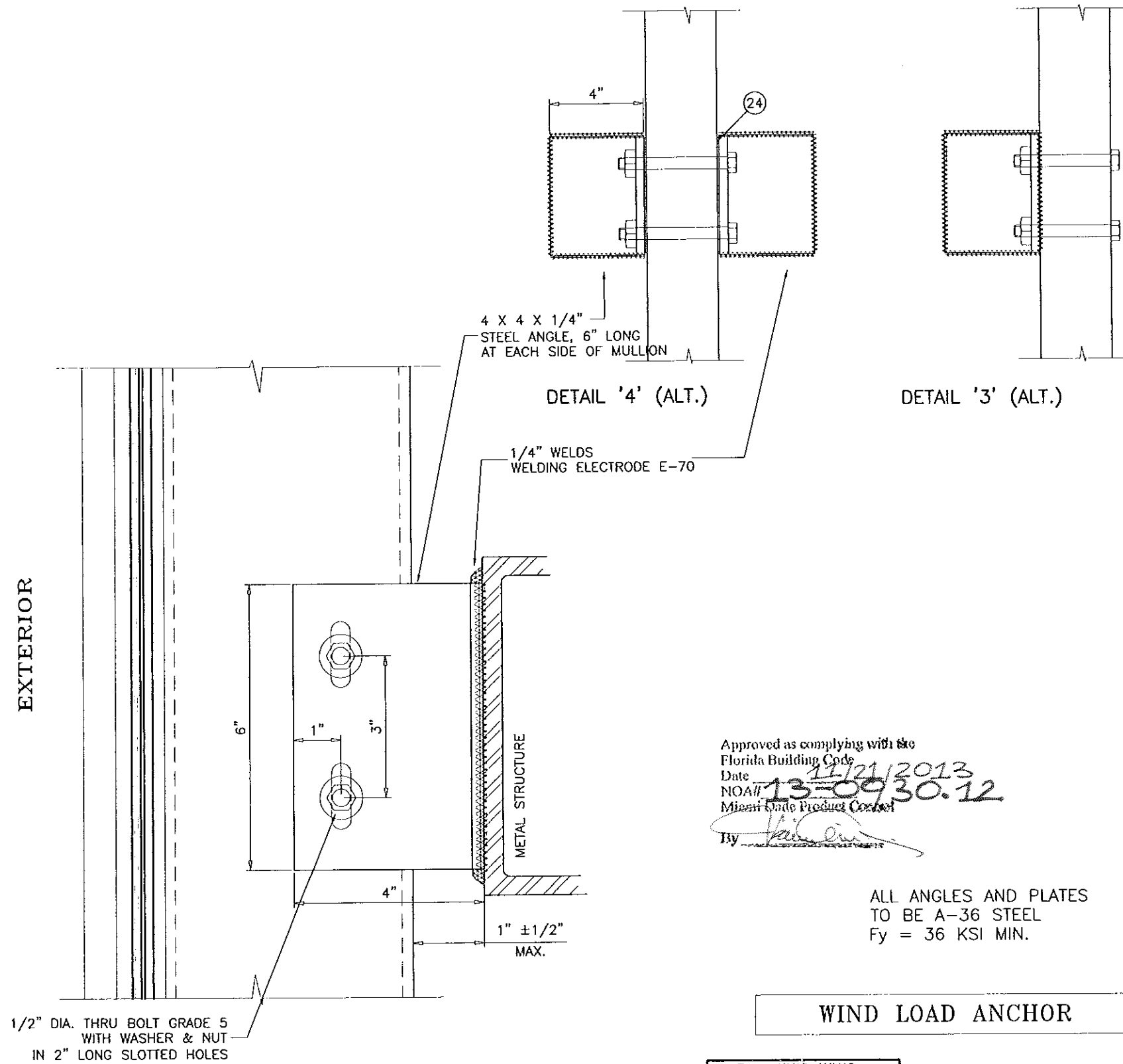
no	date	by	description

date: 09-16-13  
scale: 3/8" = 1"  
dr. by: TARIO  
chk. by: [Signature]

drawing no.  
**W13-44**  
sheet 18 of 30

MAX. DESIGN LOAD = 100 PSF

EXTERIOR



Approved as complying with the  
 Florida Building Code  
 Date 11/21/2013  
 NOA# 13-0930.12  
 Miami Code Product Control  
 By [Signature]

ALL ANGLES AND PLATES  
 TO BE A-36 STEEL  
 Fy = 36 KSI MIN.

**WIND LOAD ANCHOR**

**INTERMEDIATE ANCHORS**  
 DETAIL '4' ALT. AT CENTER MULLION  
 DETAIL '3' ALT. AT JAMB MULLION

**ANCHORS INTO METAL STRUCTURES**  
 COMMERCIAL STEEL - 1/4" MIN. THICKNESS

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

[Signature]  
 SEP 16 2013



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
 7440 N.W. 66 STREET  
 MIAMI, FL. 33166  
 TEL. (305) 470-8284 FAX. (305) 470-8285

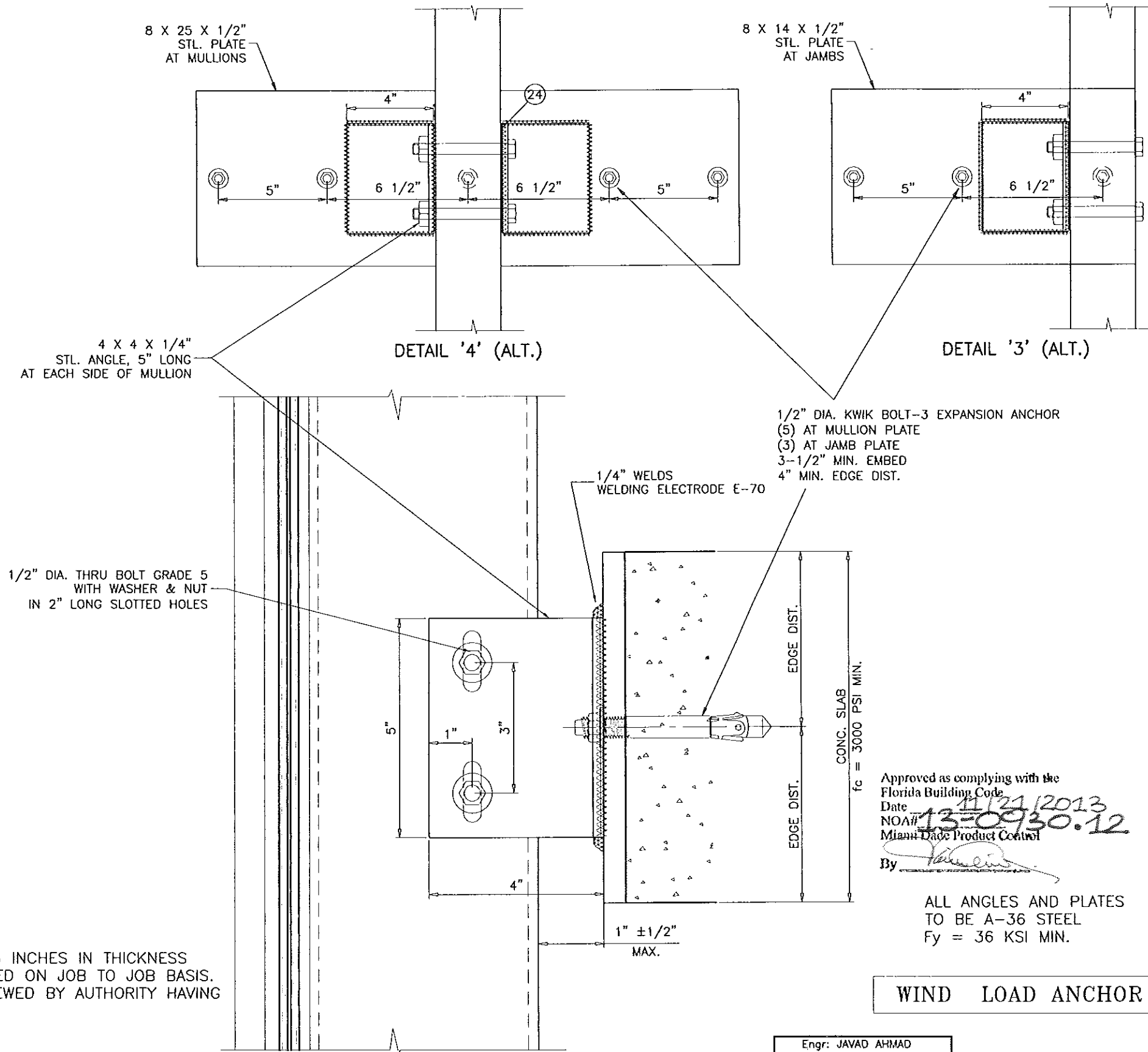
Revisions:	
no	date by description

date: 09-16-13  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W13-44**

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
30"	108"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
30"	114"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
30"	120"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
30"	126"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
30"	132"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		98.8
30"	138"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		94.5
30"	144"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		90.5
30"	150"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.6

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.

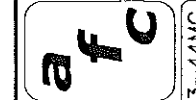


INTERMEDIATE ANCHORS  
DETAIL '4' AT CENTER MULLION  
DETAIL '3' AT JAMB MULLION  
ANCHORS INTO CONCRETE

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
SEP 16 2013

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOAH 13-0930.12  
Miami Dade Product Control  
By [Signature]  
ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

WIND LOAD ANCHOR



AL-FAROOQ CORPORATION  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
MR. GLASS DOORS & WINDOWS INC.  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL (305) 470-8284 FAX (305) 470-8285

revisions:	no	date	by	description

date: 09-16-13  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
W13-44  
sheet 20 of 30

COMP-ANL\W13-44MG



MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
30"	108"	100.0
36"		100.0
42"		100.0
48"		98.9
54"		87.9
60"	79.1	
30"	114"	100.0
36"		100.0
42"		100.0
48"		93.7
54"		83.3
60"	75.0	
30"	120"	100.0
36"		100.0
42"		100.0
48"		89.0
54"		79.1
60"	71.2	
30"	126"	100.0
36"		100.0
42"		96.9
48"		84.8
54"		75.3
60"	67.8	
30"	132"	100.0
36"		100.0
42"		92.5
48"		80.9
54"		71.9
60"	64.7	
30"	138"	100.0
36"		100.0
42"		88.5
48"		77.4
54"		68.8
60"	61.9	
30"	144"	100.0
36"		98.9
42"		84.8
48"		74.2
54"		65.9
60"	59.3	
30"	150"	100.0
36"		94.9
42"		81.4
48"		71.2
54"		63.1

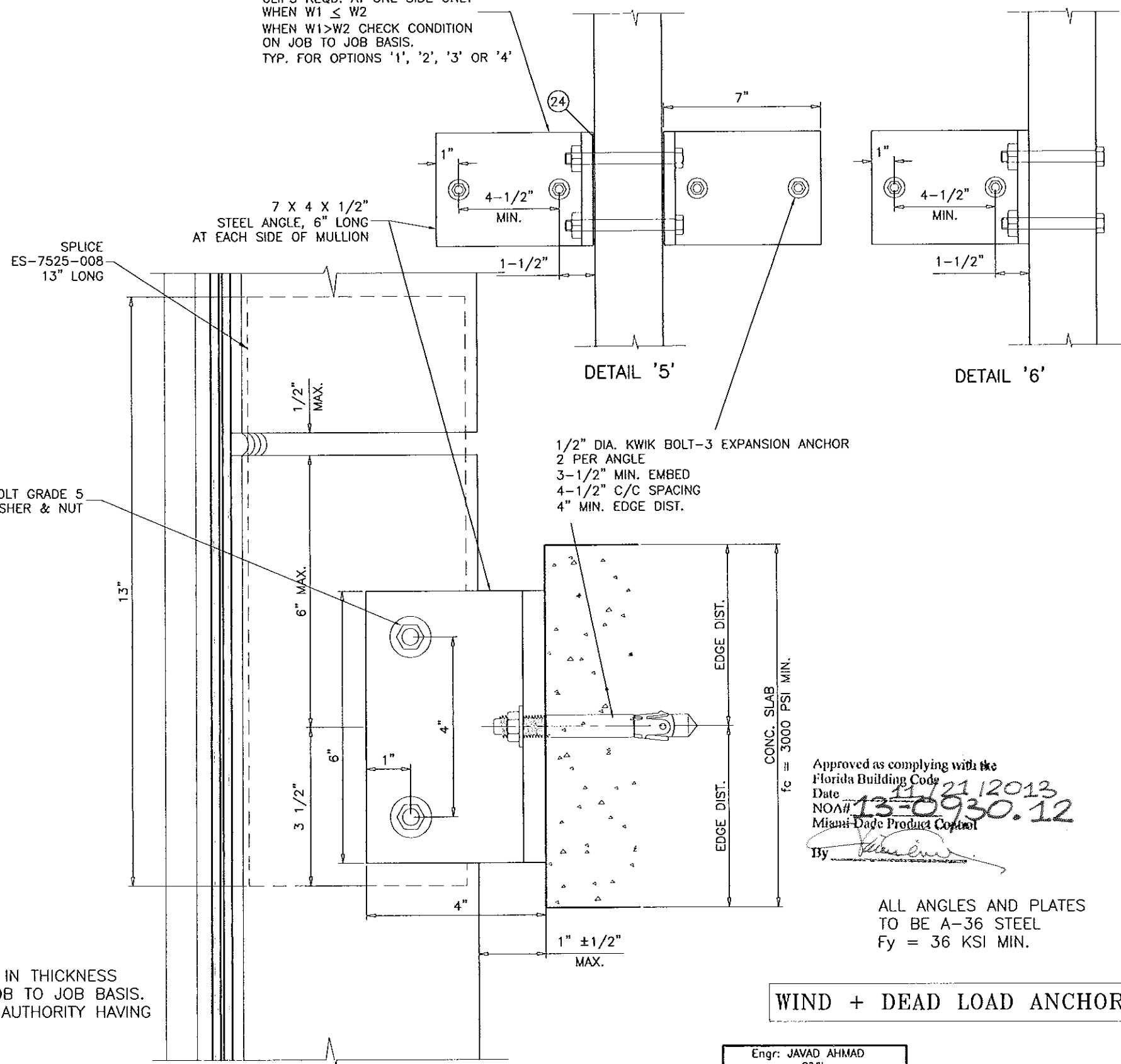
NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.

1/2" DIA. THRU BOLT GRADE 5  
WITH WASHER & NUT

SPLICE  
ES-7525-008  
13" LONG

INTERMEDIATE ANCHORS AT JAMB  
CLIPS REQD. AT ONE SIDE ONLY  
WHEN W1 ≤ W2  
WHEN W1 > W2 CHECK CONDITION  
ON JOB TO JOB BASIS.  
TYP. FOR OPTIONS '1', '2', '3' OR '4'

7 X 4 X 1/2"  
STEEL ANGLE, 6" LONG  
AT EACH SIDE OF MULLION



Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOAH# 13-0930.12  
Miami-Dade Product Control  
By [Signature]

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

**WIND + DEAD LOAD ANCHOR**

**INTERMEDIATE ANCHORS**  
DETAIL '5' AT CENTER MULLION  
DETAIL '6' AT JAMB MULLION  
**ANCHORS INTO CONCRETE**

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
SEP 16 2013

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL\W13-44MG

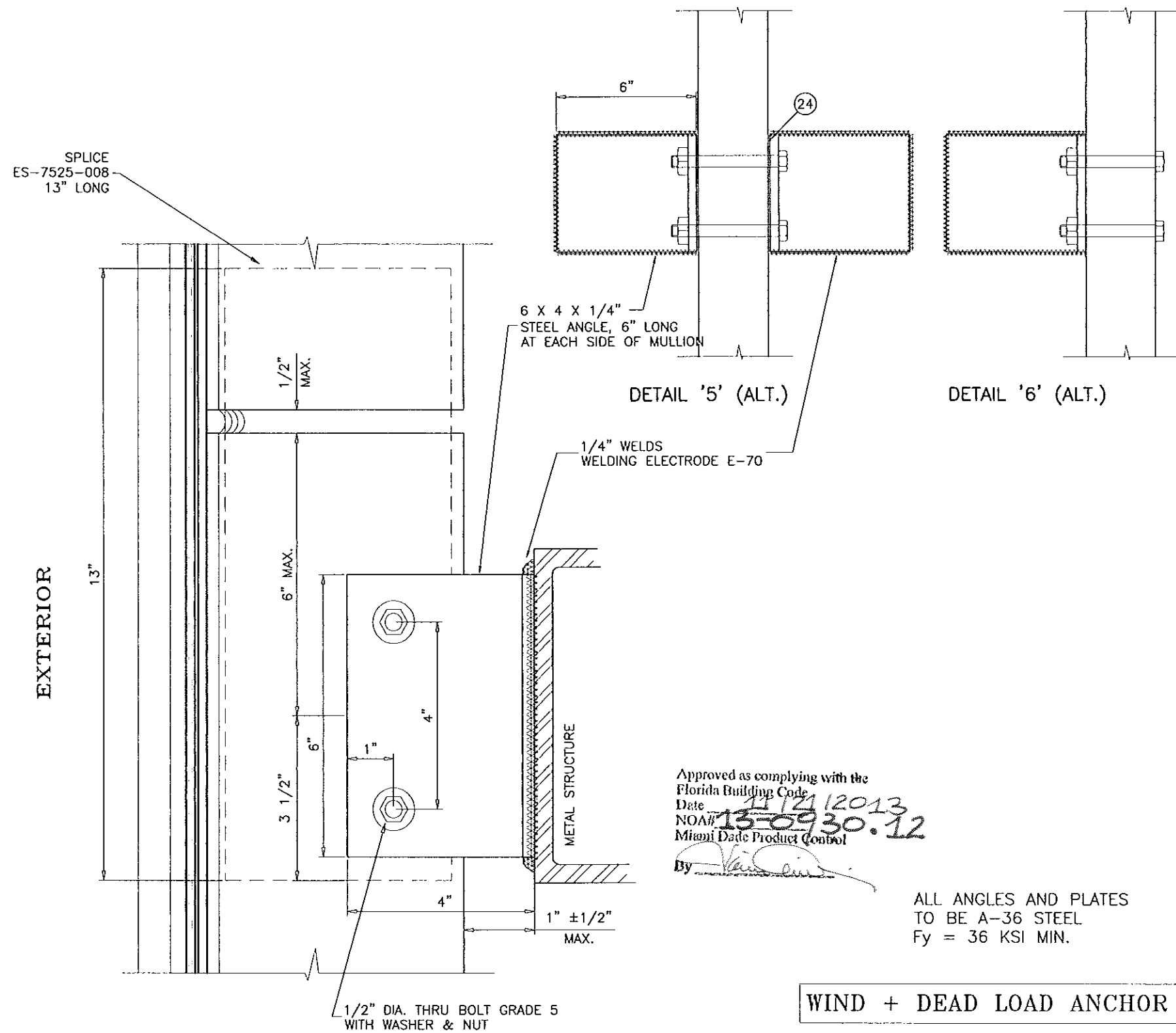
SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no	date	by	description

date: 09-16-13  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W13-44**  
sheet 21 of 30

MAX. DESIGN LOAD = 100 PSF



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 Florida Building Code  
 Date 11/21/2013  
 NOA# 13-0930.12  
 Miami Dade Product Control  
 By [Signature]

ALL ANGLES AND PLATES  
 TO BE A-36 STEEL  
 Fy = 36 KSI MIN.

WIND + DEAD LOAD ANCHOR

**INTERMEDIATE ANCHORS**  
 DETAIL '5' (ALT.) AT CENTER MULLION  
 DETAIL '6' (ALT.) AT JAMB MULLION  
**ANCHORS INTO METAL STRUCTURES**  
 COMMERCIAL STEEL - 1/4" MIN. THICKNESS

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
[Signature]  
 SEP 16 2013

**af c**

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)

**MR. GLASS DOORS & WINDOWS INC.**  
 7440 N.W. 66 STREET  
 MIAMI, FL. 33166  
 TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no	date	by	description

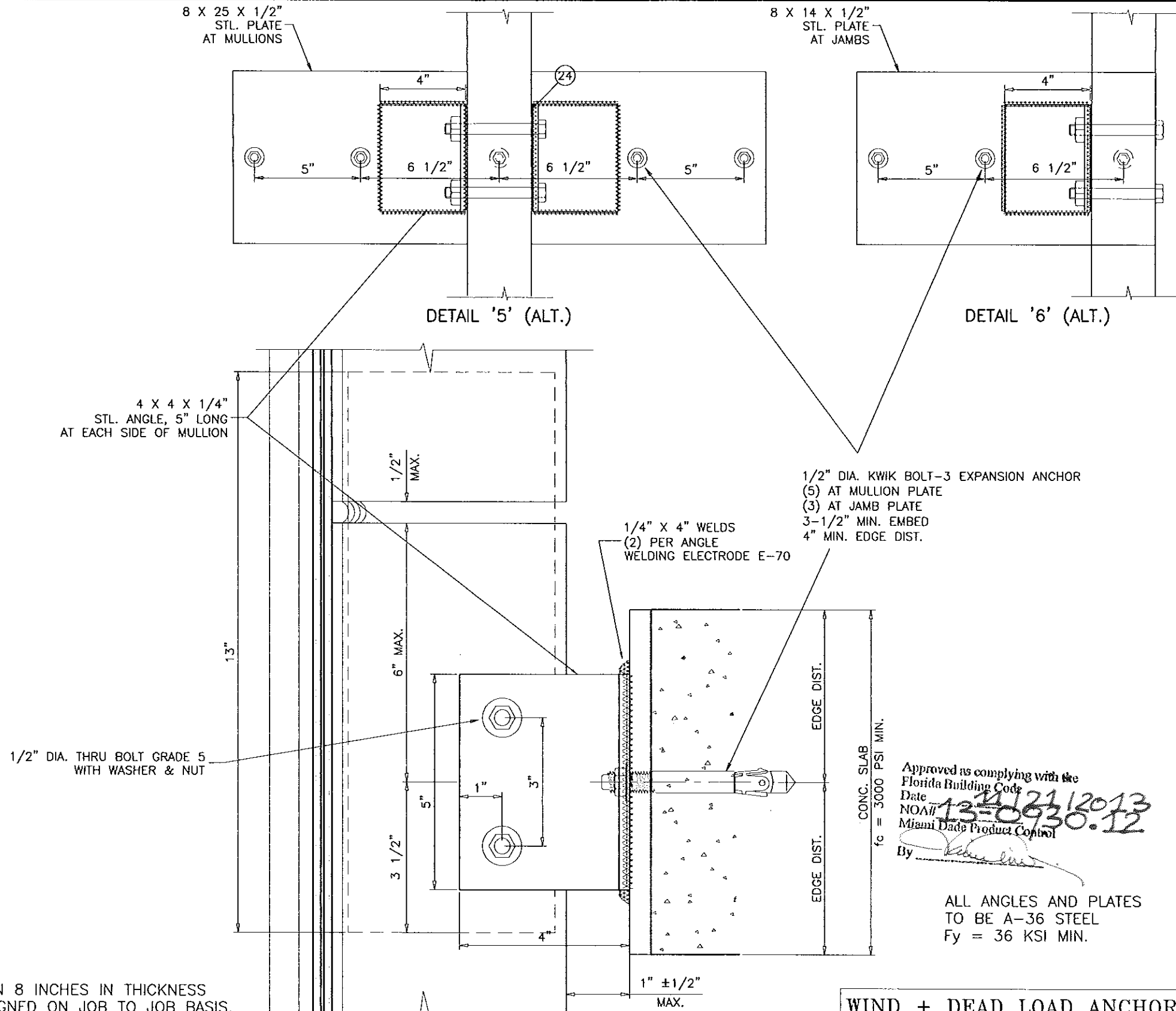
date: 09-16-13  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W13-44**

sheet 22 of 30

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
30"	108"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
30"	114"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		95.7
30"	120"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		90.9
30"	126"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		86.6
30"	132"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		97.6
60"		82.7
30"	138"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		93.4
60"		79.1
30"	144"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		89.5
60"		75.8
30"	150"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		90.0

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.



**INTERMEDIATE ANCHORS**  
DETAIL '5' AT CENTER MULLION  
DETAIL '6' AT JAMB MULLION  
**ANCHORS INTO CONCRETE**

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
SEP 16 2013

**WIND + DEAD LOAD ANCHOR**

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOA# 13-0930.12  
Miami Dade Product Control  
By [Signature]

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

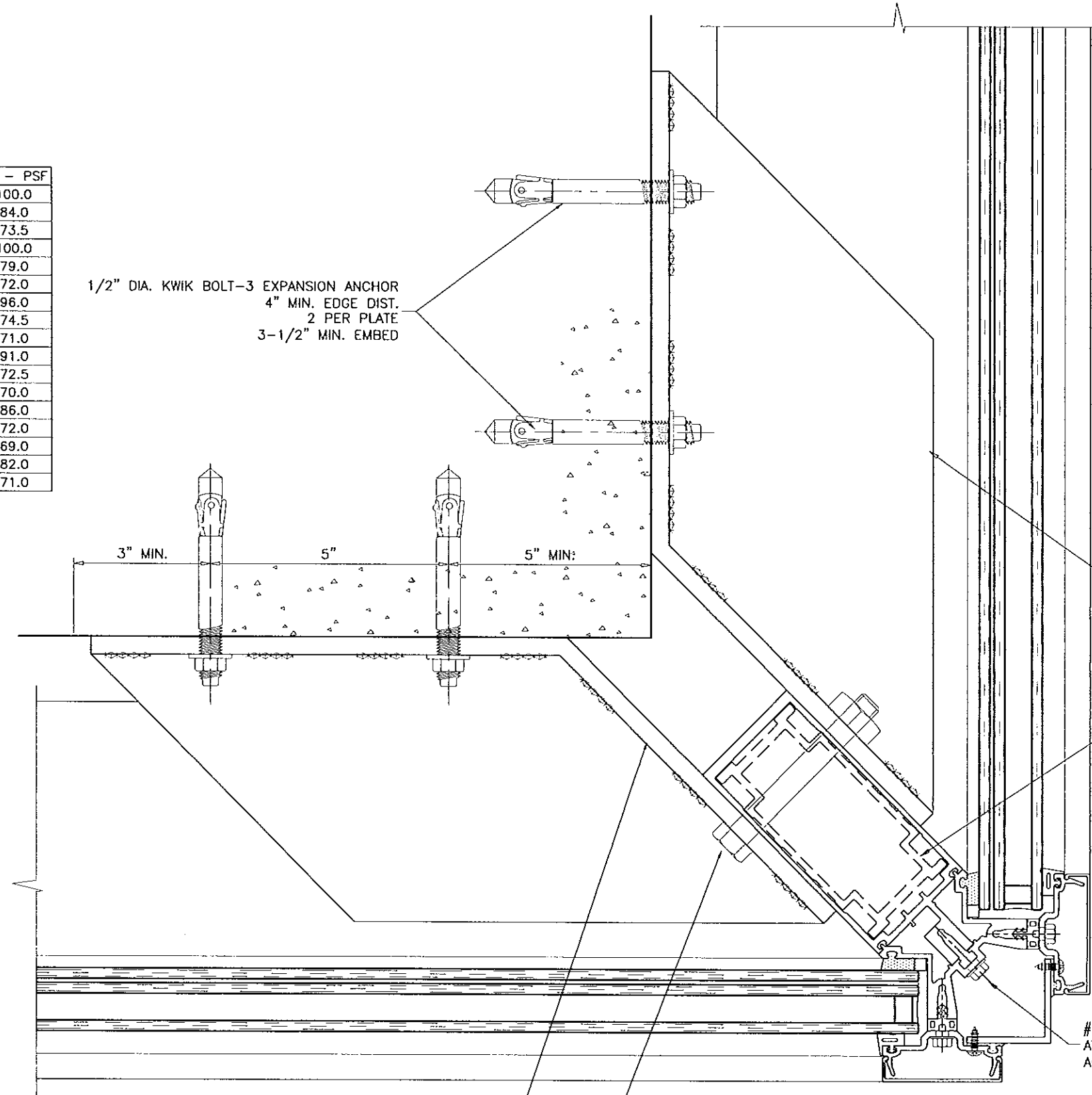
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no.	date	description

date: 09-16-13	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. W13-44			
sheet 23 of 30			

WIDTH-W3	SPAN	Pd - PSF
48 IN.		100.0
54 IN.	120 IN.	84.0
60 IN.		73.5
48 IN.		100.0
54 IN.	126 IN.	79.0
60 IN.		72.0
48 IN.		96.0
54 IN.	132 IN.	74.5
60 IN.		71.0
48 IN.		91.0
54 IN.	138 IN.	72.5
60 IN.		70.0
48 IN.		86.0
54 IN.	144 IN.	72.0
60 IN.		69.0
48 IN.		82.0
54 IN.	150 IN.	71.0



1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR  
4" MIN. EDGE DIST.  
2 PER PLATE  
3-1/2" MIN. EMBED

3" MIN. 5" 5" MIN.

10 X 8 X 3/8"  
STEEL BENT PLATE, 8" LONG  
AT EACH SIDE OF MULLION

(2) 1/2" DIA. THRU BOLT GRADE 5  
WITH WASHER & NUT  
5" C/C SPACING  
IN ROUND HOLES AT DEAD LOAD ANCHORS  
IN 2" LONG SLOTTED HOLES AT WIND LOAD ANCHORS

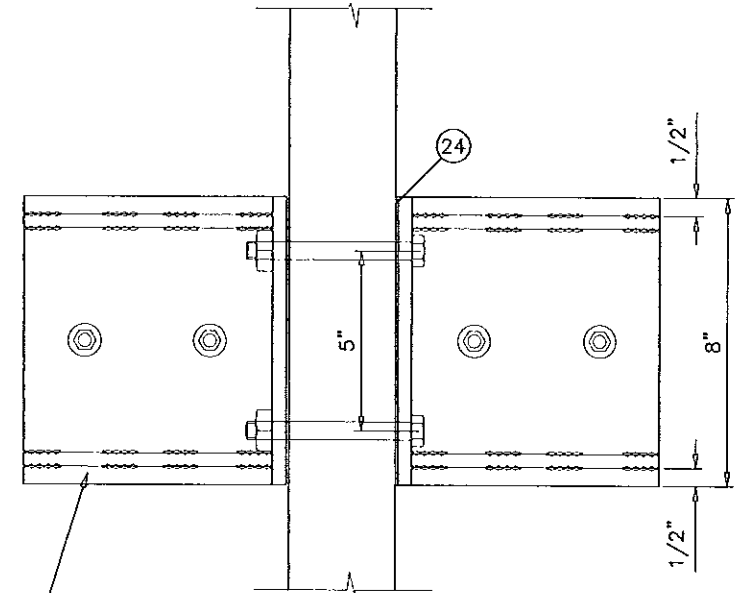
(2) 3/8" THK. GUSSET PLATES  
ATTACHED TO BENT PLATE  
W/ 1/4" X 1" WELDS AT 3" O.C. BOTH SIDES  
WELDING ELECTRODE E-70

ALUM OR STEEL REINF.  
48" LONG  
AT ANCHOR LOCATION

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

#12 SMS  
AT 3" FROM ENDS  
AND 9" O.C. MAX.



CORNER MULLION  
FRONT VIEW

CORNER MULLION ANCHORS  
DEAIL '8'

ANCHORS INTO CONCRETE

WIND LOAD ANCHOR  
WIND + DEAD LOAD ANCHOR

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOA# 13-0930-12  
Miami Dade Product Control  
By [Signature]

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

SEP 16 2013

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-44MG

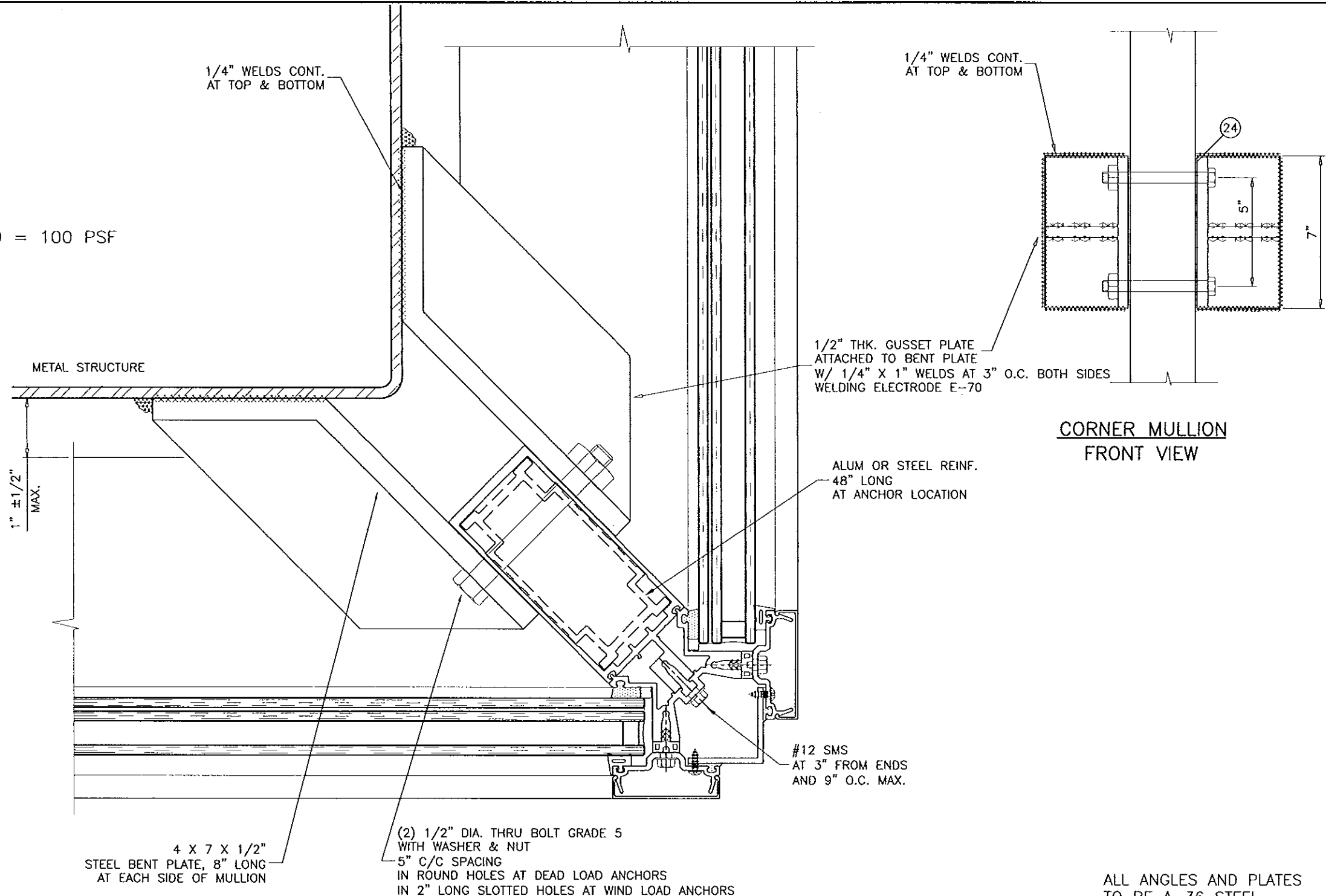
SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no.	date	by	description

date: 09-16-13  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by: [Signature]

drawing no.  
**W13-44**  
sheet 24 of 30

MAX. DESIGN LOAD = 100 PSF



**CORNER MULLION ANCHORS  
DETAIL '8' (ALT.)**

**ANCHORS INTO METAL STRUCTURES  
1/4" MIN. THICKNESS STEEL**

**WIND LOAD ANCHOR**

**WIND + DEAD LOAD ANCHOR**

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

Approved as complying with the  
Florida Building Code  
Date 11/21/2013  
NOAH 13-0938.12  
Miami Dade Product Control

By [Signature]

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
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COMP-ANL\W13-44MG

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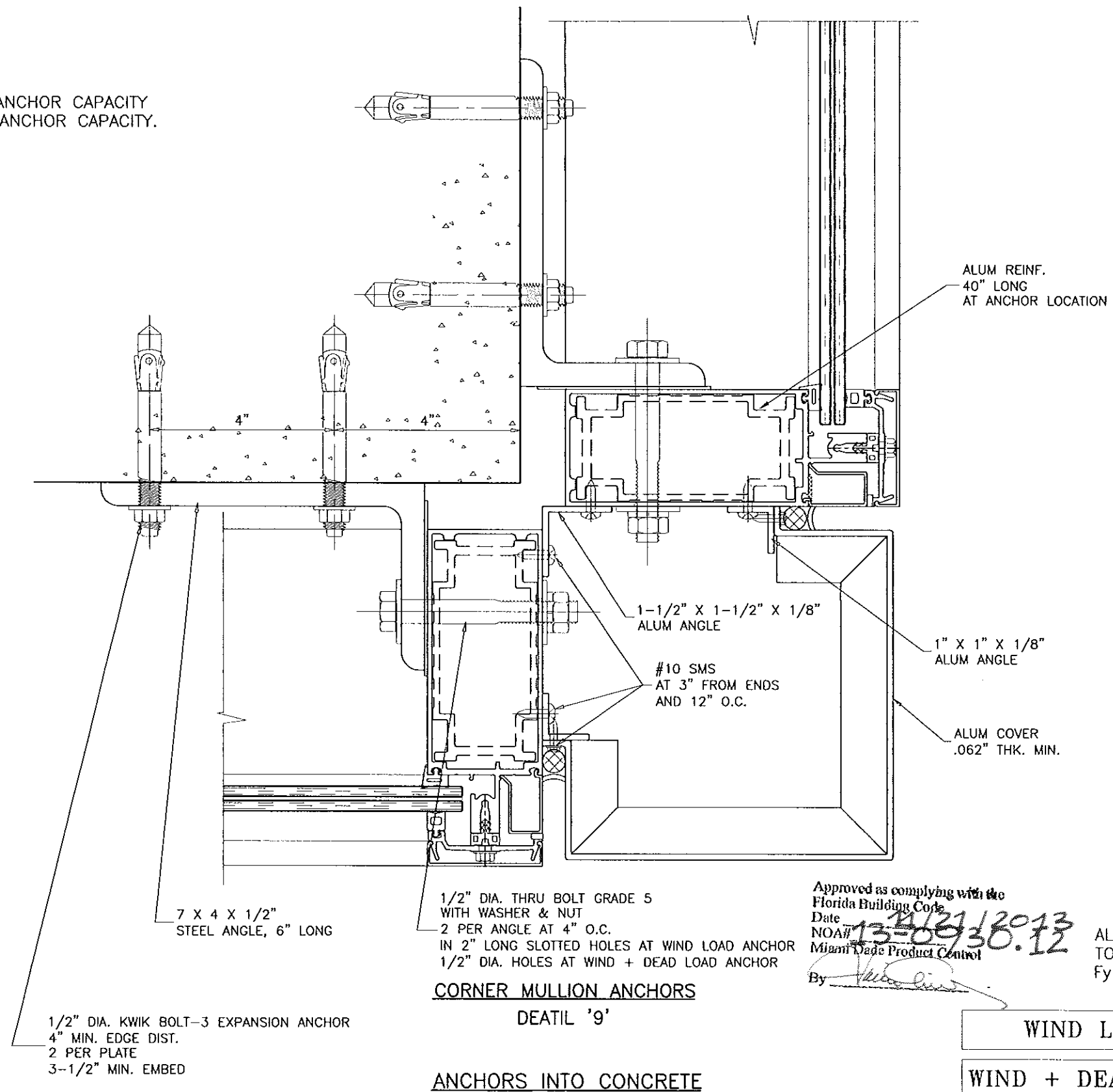
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drawing no.  
**W13-44**

sheet 25 of 30

SEE CHART ON SHEET 18 FOR WIND LOAD ANCHOR CAPACITY  
AND CHART ON SHEET 21 FOR DEAD LOAD ANCHOR CAPACITY.



1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR  
4" MIN. EDGE DIST.  
2 PER PLATE  
3-1/2" MIN. EMBED

1/2" DIA. THRU BOLT GRADE 5  
WITH WASHER & NUT  
2 PER ANGLE AT 4" O.C.  
IN 2" LONG SLOTTED HOLES AT WIND LOAD ANCHOR  
1/2" DIA. HOLES AT WIND + DEAD LOAD ANCHOR

**CORNER MULLION ANCHORS**  
DEAIL '9'

**ANCHORS INTO CONCRETE**

ALUM REINF.  
40" LONG  
AT ANCHOR LOCATION

1-1/2" X 1-1/2" X 1/8"  
ALUM ANGLE

#10 SMS  
AT 3" FROM ENDS  
AND 12" O.C.

1" X 1" X 1/8"  
ALUM ANGLE

ALUM COVER  
.062" THK. MIN.

7 X 4 X 1/2"  
STEEL ANGLE, 6" LONG

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ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

**WIND LOAD ANCHOR**

**WIND + DEAD LOAD ANCHOR**

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.

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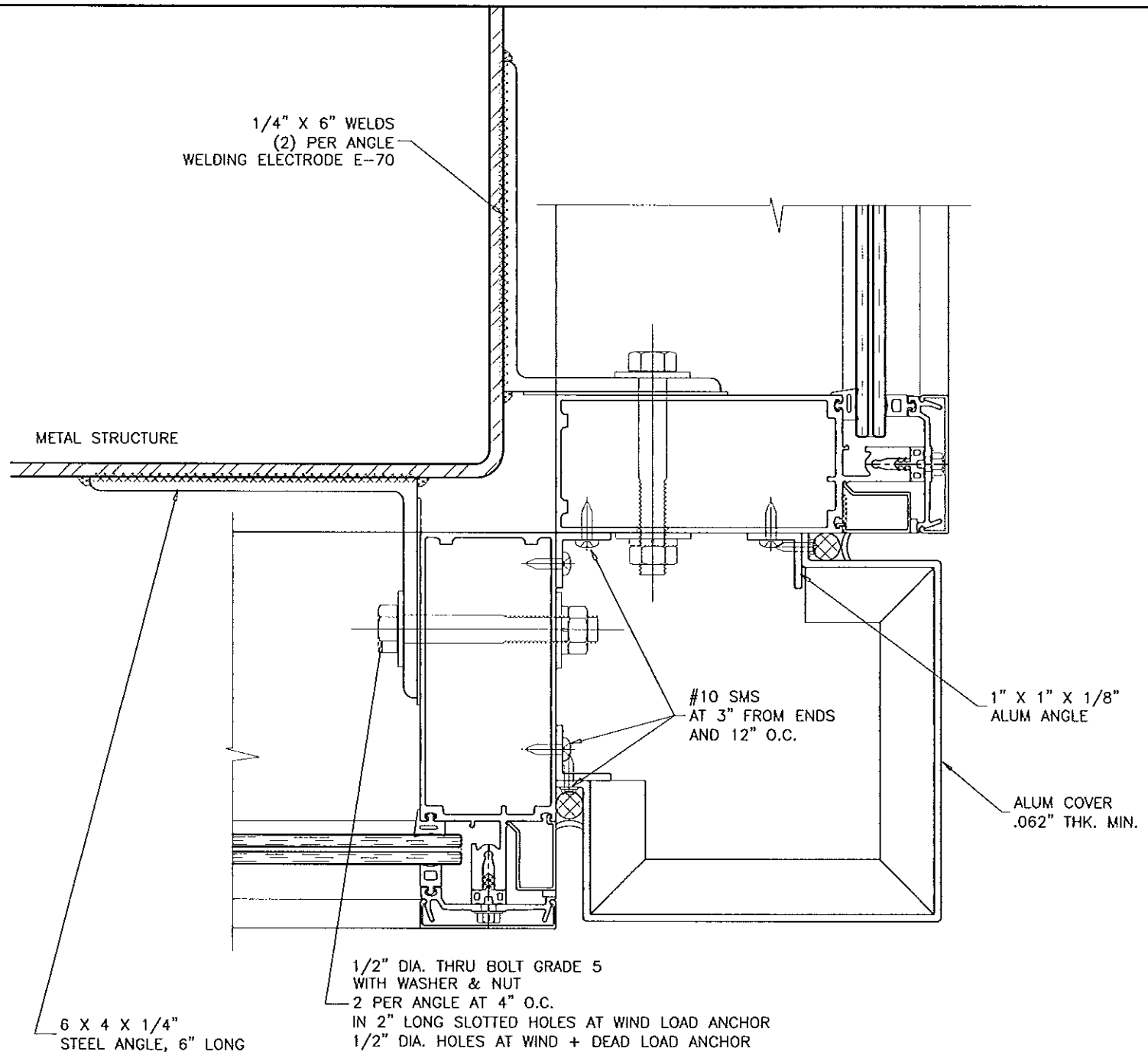
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**W13-44**

sheet 26 of 30

MAX. DESIGN LOAD = 100 PSF



**CORNER MULLION ANCHORS  
DETAIL '9' (ALT.)**

**ANCHORS INTO METAL STRUCTURES  
1/4" MIN. THICKNESS STEEL**

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

- WIND LOAD ANCHOR
- WIND + DEAD LOAD ANCHOR

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Miami Date Product Control  
By [Signature]

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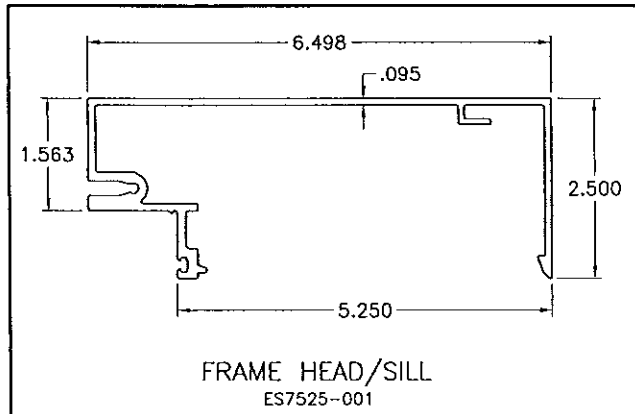
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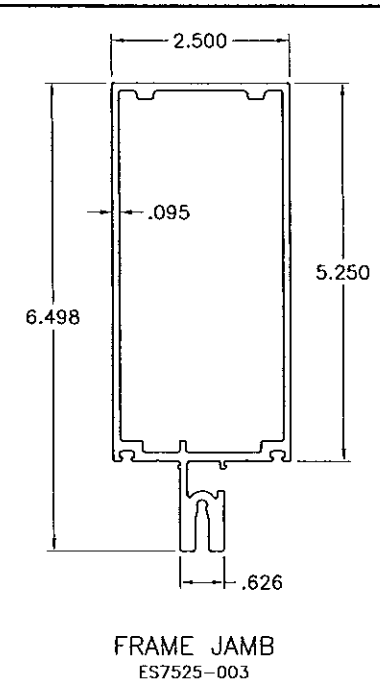
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**W13-44**

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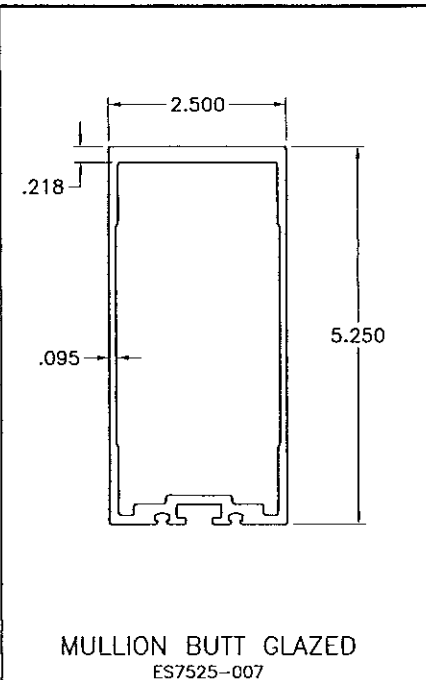
sheet 27 of 30



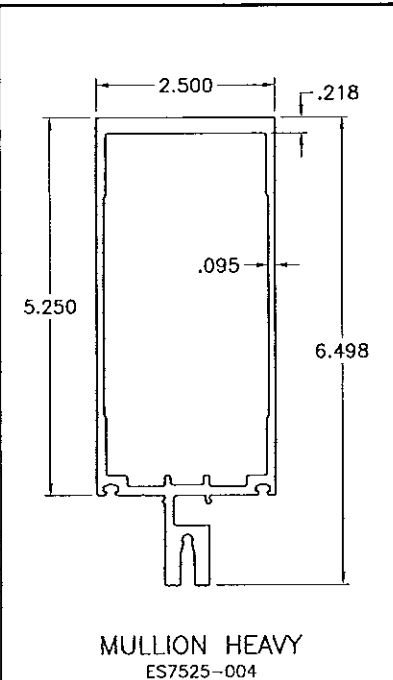
FRAME HEAD/SILL  
ES7525-001



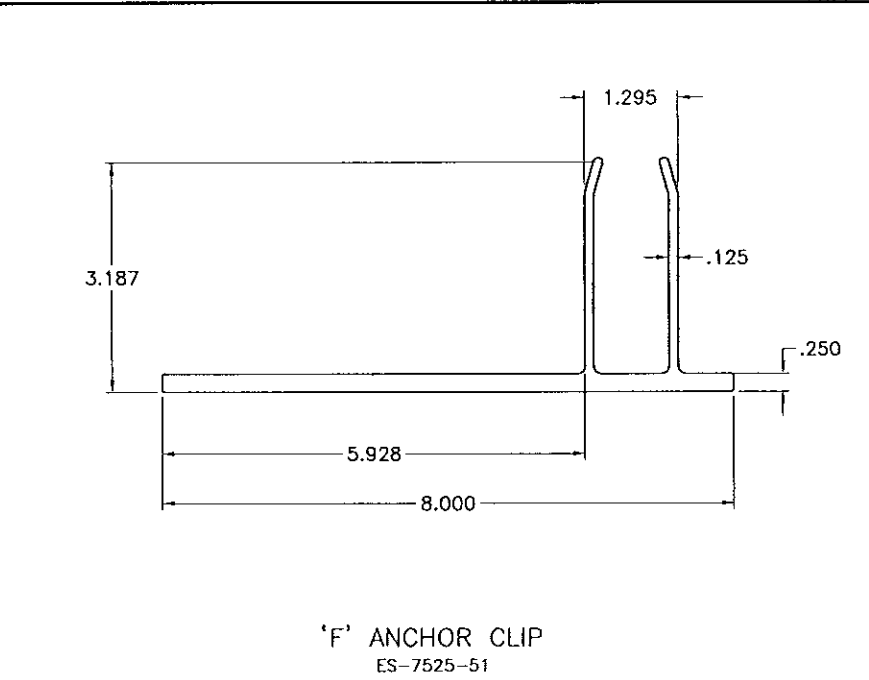
FRAME JAMB  
ES7525-003



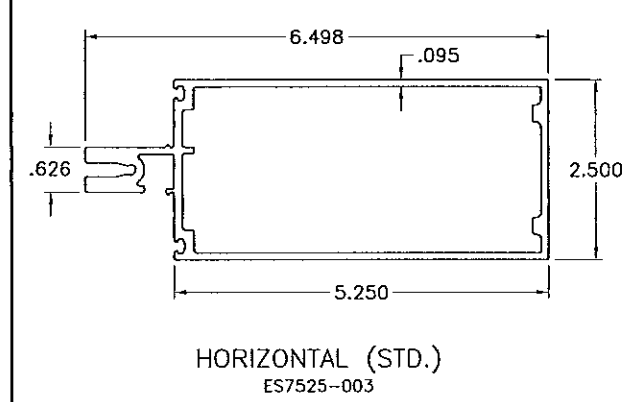
MULLION BUTT GLAZED  
ES7525-007



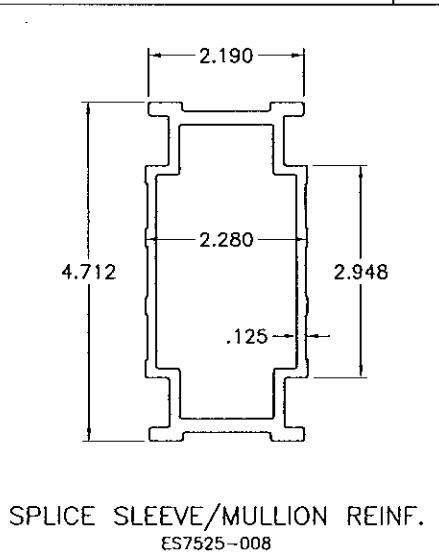
MULLION HEAVY  
ES7525-004



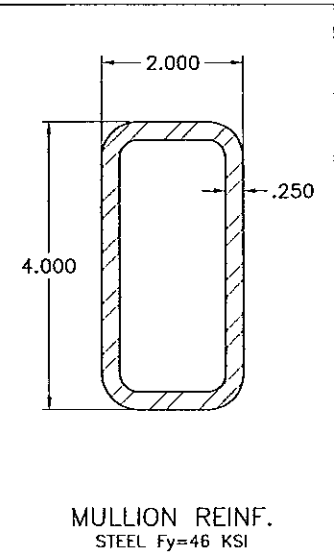
'F' ANCHOR CLIP  
ES-7525-51



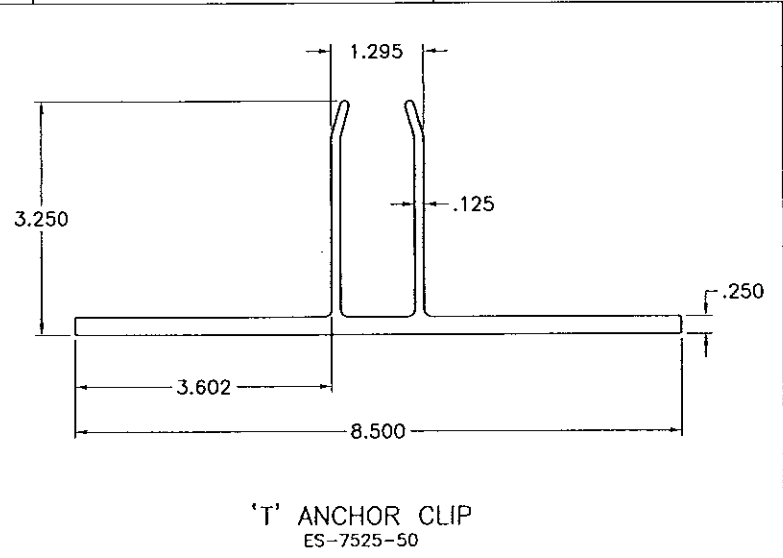
HORIZONTAL (STD.)  
ES7525-003



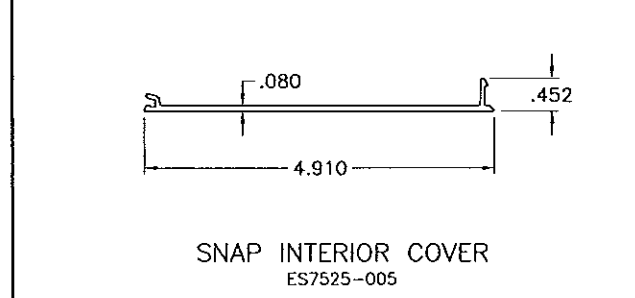
SPLICE SLEEVE/MULLION REINF.  
ES7525-008



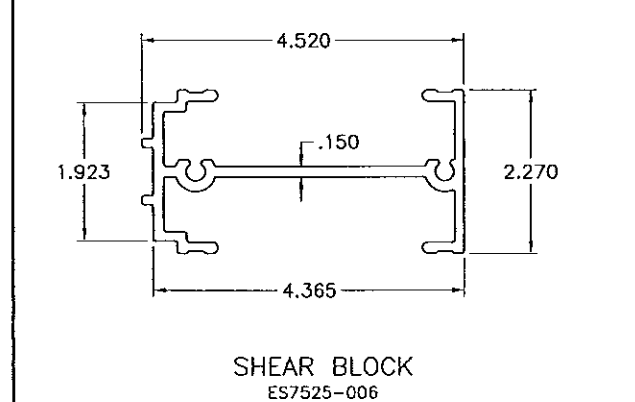
MULLION REINF.  
STEEL Fy=46 KSI



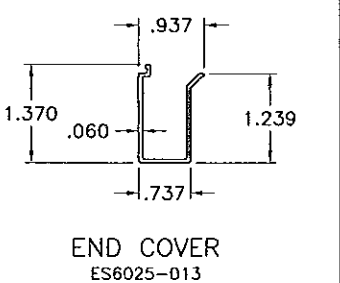
'T' ANCHOR CLIP  
ES-7525-50



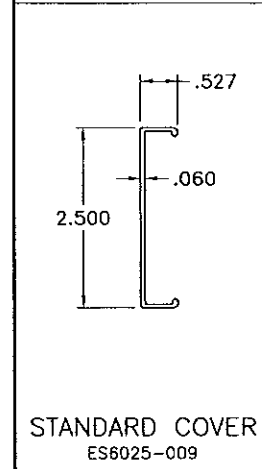
SNAP INTERIOR COVER  
ES7525-005



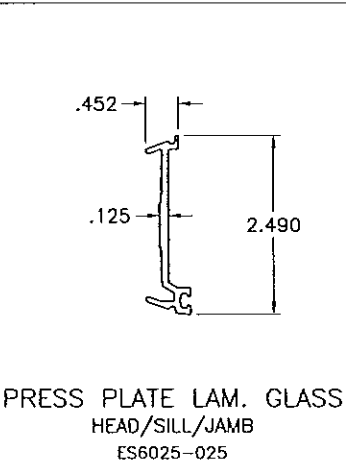
SHEAR BLOCK  
ES7525-006



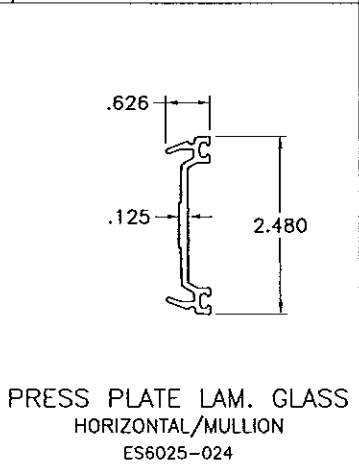
END COVER  
ES6025-013



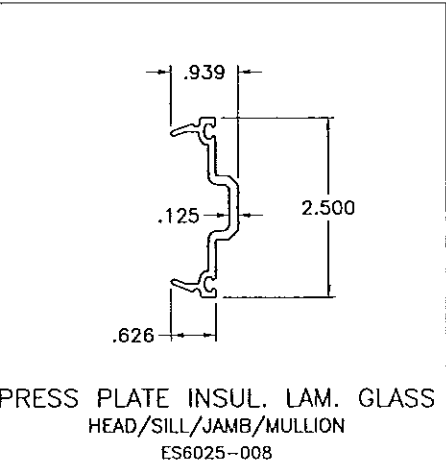
STANDARD COVER  
ES6025-009



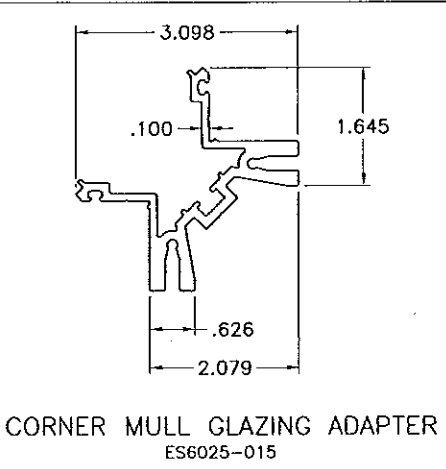
PRESS PLATE LAM. GLASS  
HEAD/SILL/JAMB  
ES6025-025



PRESS PLATE LAM. GLASS  
HORIZONTAL/MULLION  
ES6025-024



PRESS PLATE INSUL. LAM. GLASS  
HEAD/SILL/JAMB/MULLION  
ES6025-008



CORNER MULL GLAZING ADAPTER  
ES6025-015

Approved as complying with the  
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NOA# 13-0930.12  
Miami-Dade Product Control  
By [Signature]

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CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
[Signature]  
SEP 16 2013

**af c**  
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1235 S.W. 87 AVE  
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COMP-ANL\W13-44MG

SERIES MG-7000 ALUM CURTAIN WALL SYSTEM (L.M.I.)  
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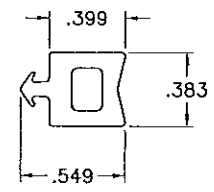
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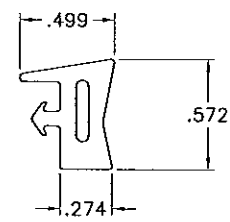
drawing no.  
**W13-44**  
sheet 28 of 30



ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-7525-001	HEAD	6063-T5	
2	ES-7525-001	SILL	6063-T5	
3	ES-7525-003	JAMB	6063-T6	
4	ES-7525-003	MULLION STD.	6063-T6	
5	ES-7525-003	HORIZONTAL STD.	6063-T6	
6	ES-7525-002	OPEN HORIZONTAL	6063-T6	
7	ES-7525-004	VERTICAL MULLION HEAVY	6063-T6	
8	ES-7525-005	SNAP INTERIOR COVER (HEAD / SILL / HORIZONTAL)	6063-T5	
9	ES-7525-006	SHEAR BLOCK	6063-T5	1 1/4" LG.
10	ES-7525-007	ALT. VERTICAL MULLION BUTT GLAZED	6063-T6	
11	ES-7525-008	SPLICE SLEEVE	6063-T6	6" LG.
11A	ES-7525-008	SPLICE SLEEVE AS MID-ANCHOR REINF.	6063-T6	40" LG.
11B	ES-7525-008	SPLICE SLEEVE AS MULLION REINF	6063-T6	MULLION LG. -6"
11C	ES-7525-008	SPLICE SLEEVE AS ANCHOR SLEEVE	6063-T6	3" LG.
12	ES-6025-008	DEEP PRESSURE PLATE	6063-T5	1 5/16" GLASS
13	ES-6025-009	STANDARD COVER	6063-T5	
14	ES-6025-010	JAMB END ANCHOR	6063-T5	4 3/4" LG.
15	ES-6025-011*	MULLION END ANCHOR	6063-T5	* MODIFIED (4" LG.)
15A	ES-6025-011*	CORNER END ANCHOR	6063-T5	* MODIFIED (SEE DET.)
16	ES-6025-013	POCKET FILLER	6063-T5	
17	ES-6025-015	90° ADAPTER	6063-T6	
18	ES-6025-017	90° INTERIOR ADAPTER	6063-T5	
19	ES-6025-018	90° INTERIOR COVER	6063-T5	
20	AL-019	SHEAR BLOCK FOR 90° OUTSIDE CORNER	6063-T5	LEFT & RIGHT (1 1/2" x 1 1/2" x 1/8")
21	AL-023	EXTERIOR COVER - 90° OUTSIDE CORNER	6063-T5	LEFT & RIGHT (1 3/4" x 1 3/4" x 1/8")
22	ES-6025-G01	INTERIOR / EXTERIOR GASKET	EPDM	
23	ES-6025-G02	ISOLATOR	EPDM	
24	ES-6025-G04	SPACER AT JAMB	EPDM	1 5/16" GLASS
25	ES-6025-G05	INTERIOR SPACER FOR SILICONE BUTT GLAZE	SILICONE **	**OR SILICONE COMPATIBLE EPDM 70 DURO.
26	ES-6025-G07	POLYURETHANE TAPE (ADHESIVE 1 SIDE)	POLYURETHANE	1/4" x 1/4" REF: NORTON V-2100
27	ES-6025-B04	SETTING BLOCK	EPDM	4" LONG. ADHESIVE 1 SIDE (FOR 1 5/16" GL.)
28	ES-6025-B07	JOINT PLUG EXTENSION	FOAM	
29	ES-6025-B08	JOINT PLUG FOR BUTT GLAZING	EPDM	
30	ES-6025-B09	END PLUG	FOAM	3/4" LONG. (CANT: 2/HEAD + 2/SILL)
31	ES-6025-B10	JOINT PLUG	FOAM	1 5/16" GLASS
32	ES-6025-C02	MULLION END CAP	ALUM. SHEET	1 5/16" GLASS
33	ES-6025-C05	90° OUTSIDE CORNER MULLION END CAP	ALUM. SHEET	1 5/16" GLASS
34	ES-6025-M01	STD. FLOOR ANCHOR WIND LOAD	PAINTED ST.	4" x 4" x 1/4" ANGLE, 5" LONG.
34A	ES-6025-M02	STD. FLOOR ANCHOR DEAD LOAD	PAINTED ST.	4" x 4" x 1/4" ANGLE, 5" LONG.
35	ES-6025-M16	90° CORNER FLOOR ANCHOR DEAD LOAD	PAINTED ST.	FORMED STEEL ANGLE, 5" LONG.
36	--	HEAVY REINFORCEMENT	STEEL	TS 4" X 2" X 1/4"
37	ES-6025-M03	ANCHOR METAL SEPARATOR	NYLON SHEET	1/FLOOR ANCHOR
38	F4	#8 x 1/2" PHSMS	ST.	FOR ATTACH MULLION END CAP
39	F6	#12 x 3/4" FHSMS	ST. ST.	FOR ATTACH HORIZONTAL TO SHEAR BLOCK
40	F7	1/4" - 20 x 1 1/2" HH TYPE "F"	ST. ST.	FOR ATTACH SHEAR BLOCK TO VERTICAL
41	F8	1/4" - 20 x 1/2" HH TYPE "F"	ST. ST.	FOR ATTACH SHEAR BLOCK TO VERT. COR.
42	F9	H80LT 1/2" - 20 x 4" HWHMS	ST. ST.	FOR ATTACH FLOOR ANCHOR TO VERTICAL
43	F10	1/4" x 1" HWH TYPE AB PT.	ST. ST.	FOR ATTACH PRESSURE PLATE
44	F11	1/2" PLAIN FLAT WASHER	ST. ST.	FLOOR ANCHOR ASSEMBLY
45	F12	1/2" LOCK WASHER	ST. ST.	FLOOR ANCHOR ASSEMBLY
46	F13	1/2" - 20 HEX BOLT NUT HHMS	ST. ST.	FLOOR ANCHOR ASSEMBLY
47	F14	#10 x 3/8" HH TYPE F	ST. ST.	90° INTERIOR COVER
48	--	SILICONE DOW 795	SILICONE	FOR PERIMETER & WEATHER SEALS
49	--	SILICONE DOW 995	SILICONE	FOR STRUCTURAL JOINTS
50	ES-6025-G06	EXTERIOR GLAZING GASKET (LAM. GLASS)	EPDM	-
51	--	BUMPON SPACER	SILICONE	-
52	ES-7525-50	'T' ANCHOR CLIP	6005-T5	-
53	ES-7525-51	'F' ANCHOR CLIP	6005-T5	-



EXT. GLAZING GASKET  
G6 (LAMINATED GLASS)



EXT. GLAZING GASKET  
G1 (INSUL. LAM. GLASS)

DENSE RUBBER EXTRUSIONS BY 'TREMCO'  
SCALE 1:1  
HARDNESS = 68-71 SHORE A  
TENSILE STRENGTH (BREAK) = 1810-1925 PSI  
ELONGATION AT BREAK = 350-530%  
TEAR STRENGTH = 143-209 LBF/IN

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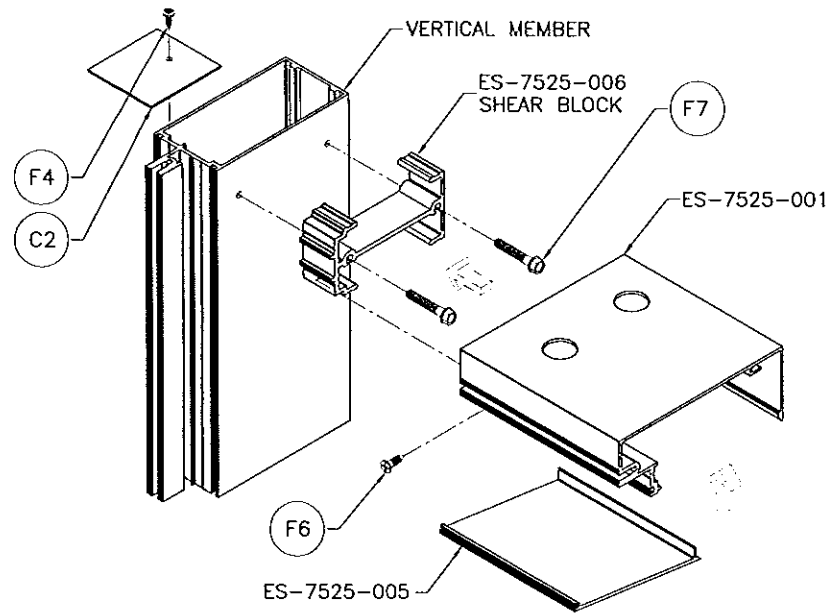
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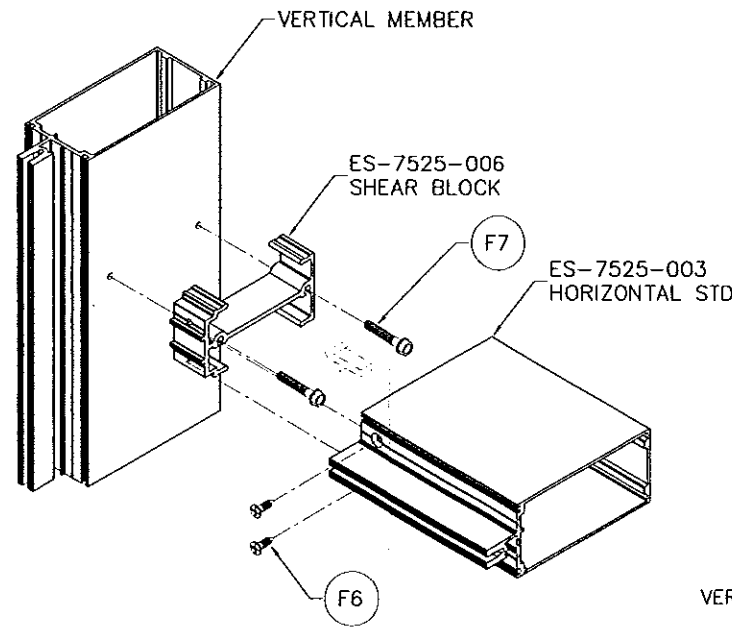
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**W13-44**  
sheet 29 of 30

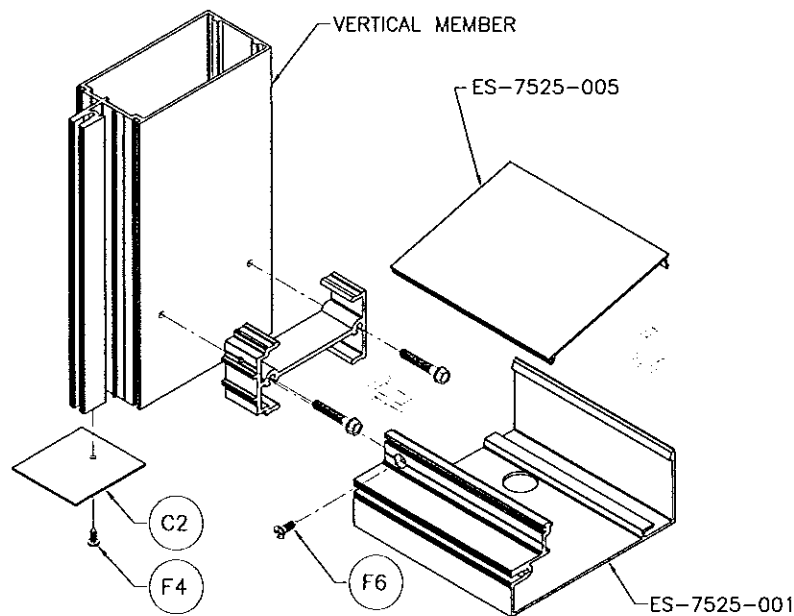
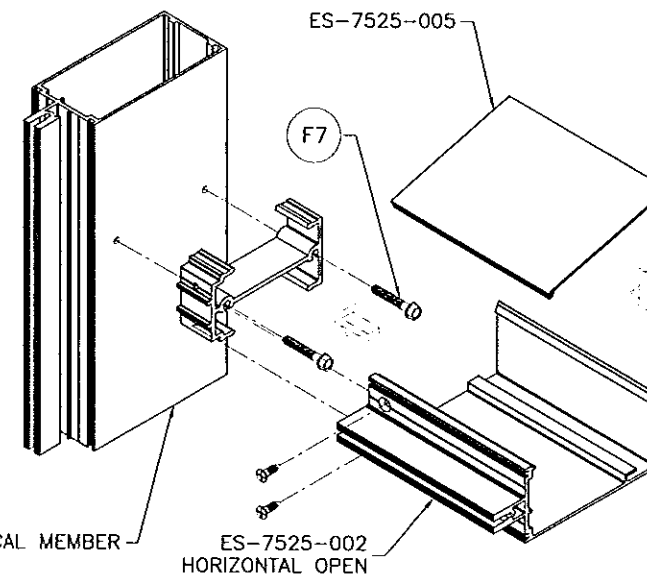
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Miami Dade Product Control  
By: *[Signature]*



FRAME TOP CORNER



FRAME HORIZONTAL CORNERS



FRAME BOTTOM CORNER

Approved as complying with the  
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Date 12/12/2013  
NOA# 13-0730.12  
Miami Code Product Control  
By [Signature]

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