



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

ES 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-H340 Thermal" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. W14-39 titled "ES-H340 Thermal Alum Single Hung Wdw. (LMI)", sheets 1 through 9 of 9, dated 10/10/14, with revision A dated 05/21/15, 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, Barranquilla, Colombia S.A., 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 page E-1 and E-2, as well as approval document mentioned above.

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



MP
6/17/15

NOA No. 15-0129.12
Expiration Date: June 25, 2020
Approval Date: June 25, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W14-39**, titled "ES-H340 Thermal Alum Single Hung Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 10/10/14, with revision A dated 05/21/15, 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) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94along with marked-up drawings and installation diagram of model ES-H340 aluminum single hung windows, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-7607**, dated 06/12/14, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 10/30/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. 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.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0129.12

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E. MATERIAL CERTIFICATIONS (CONTINUED)

3. Test report No. **ATI-60520.02-106-18**, prepared by Architectural Testing, Inc., dated 11/09/06, with revision date 11/29/06, issued to **Ensinger, Inc.**, for their **Tecatherm® 66GF insulbar material** comprised of Polyamide 66 with 25% glass fibers, per **ASTM G 155-00ae1**, "Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of /Non-Metallic Materials", per **ASTM D638-03** "Standard Test Methods for Tensile Properties of Plastics", for exposed & unexposed sample per Xenon Arc after 4500 Hours, **ASTM D635-98** "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position", **ASTM D1929-96** (2000)e01 "Standard Test Method for Determining Ignition Properties of Plastics" and **ASTM D2843-99** "Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics" and **ASTM D2843-99** "Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E.
4. Standard Material Values Data Sheet from **Ensinger** for "**Tecatherm 66 GF** Polyimide 66 with 25% glass fibers, black- Mechanical Properties and Thermal Properties.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated October 30, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Testing proposal issued by the Product Control Section, dated 04/15/13, signed by Jaime Gascon, P.E., Product Control Supervisor.

G. OTHERS

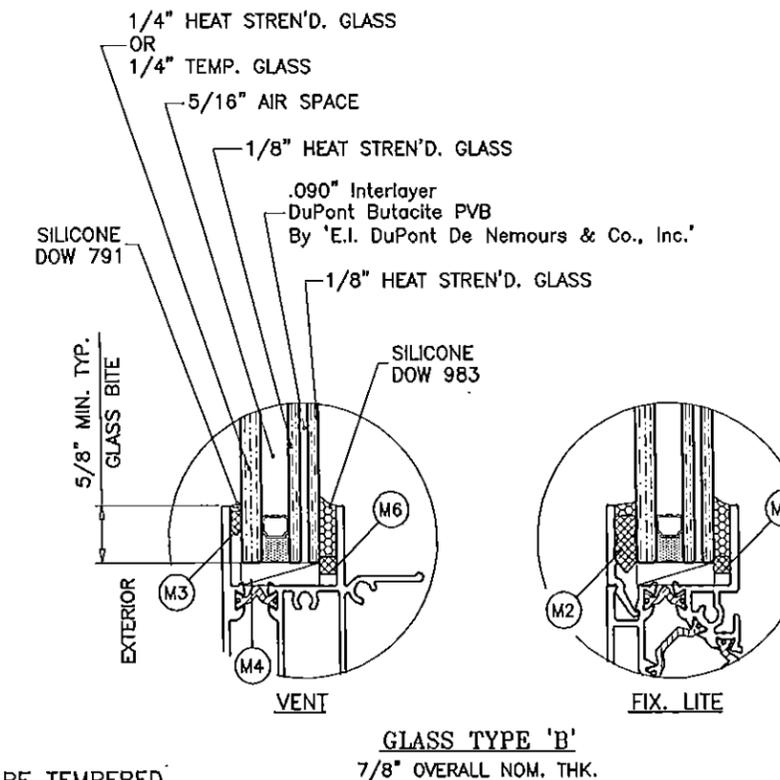
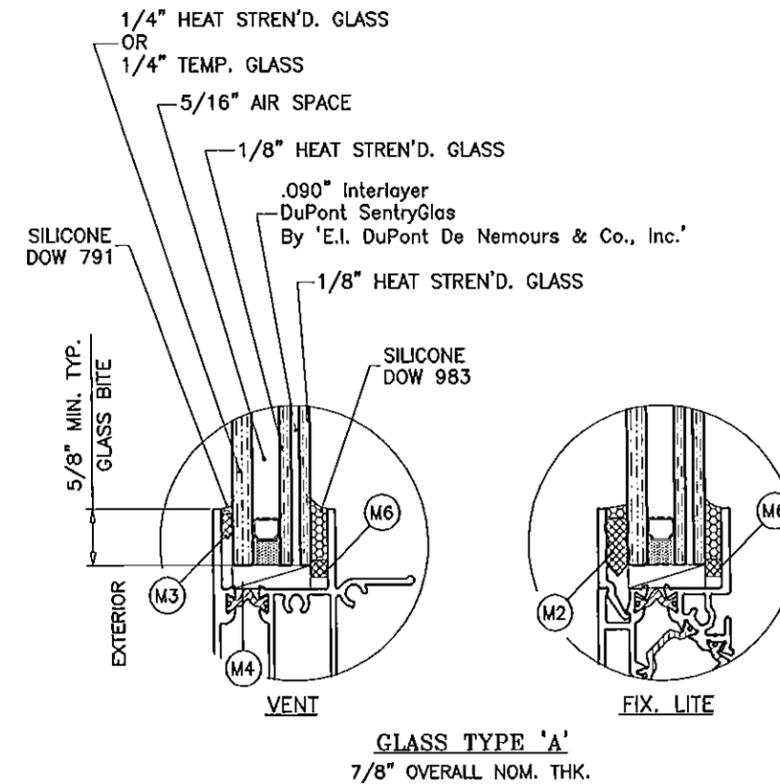
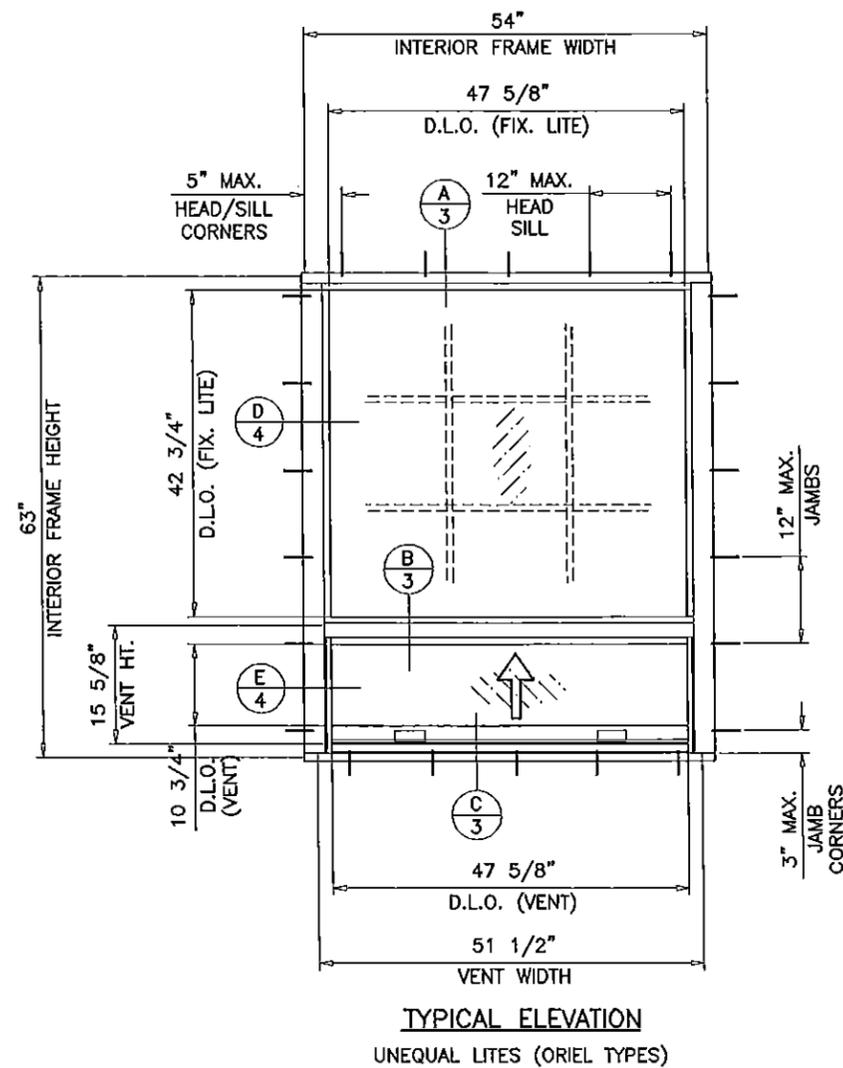
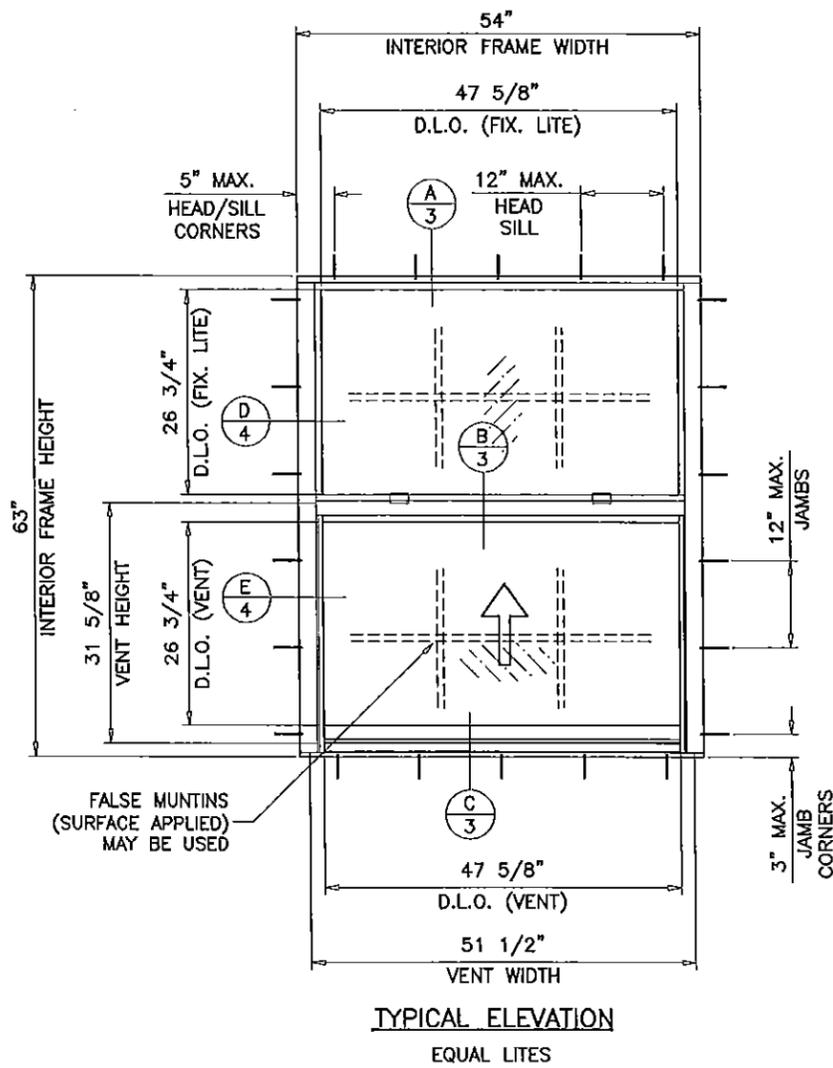
1. None.


Manuel Perez, P.E.
Product Control Examiner

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NOTE:
TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPES 'A' & 'B' MUST BE TEMPERED.

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

**ES-H340 (L.M.I.)
THERMAL ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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.

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

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

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

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

MAY 27 2015

Approved as complying with the
Florida Building Code
Date: June 25, 2015
NOAH# 15-0124.12
Miami Dade Product Control

By: *Manuel Perez*

af c
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COMP-ANL\W14-39ESW

ES-H340 THERMAL ALUM SINGLE HUNG WDW. (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	description
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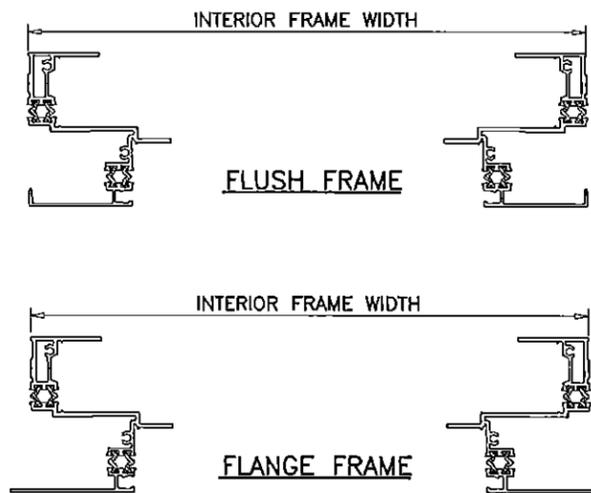
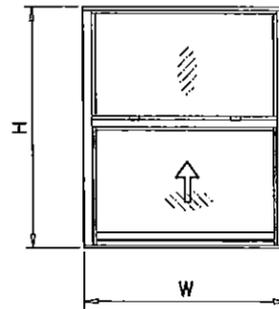
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dr. by:	HAMID
chk. by:	

drawing no.	W14-39
sheet	1 of 9

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18-1/8"	25" (3)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		37-3/8" (4)	80.0
25-1/2"	80.0		90.0
31"	80.0		90.0
36"	80.0		90.0
39"	80.0		90.0
43"	80.0		90.0
47"	80.0		90.0
52-1/8"	80.0		90.0
54"	80.0		90.0
18-1/8"	49-5/8" (5)		80.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	90.0
18-1/8"		55" (5)	80.0
25-1/2"	80.0		90.0
31"	80.0		90.0
36"	80.0		90.0
39"	80.0		90.0
43"	80.0		90.0
47"	80.0		90.0
52-1/8"	80.0		90.0
54"	80.0		90.0
18-1/8"	62" (6)		80.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"		80.0	90.0
47"		80.0	90.0
52-1/8"		80.0	90.0
54"		80.0	88.9
18-1/8"		69" (7)	80.0
25-1/2"	80.0		90.0
31"	80.0		90.0
36"	80.0		90.0
39"	80.0		90.0
43"	80.0		90.0
47"	80.0		90.0
52-1/8"	80.0		90.0
54"	80.0		88.9

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18-1/8"	73-1/4" (7)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"	80.0	90.0	
18-1/8"	75" (7)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0
43"	80.0	90.0	
18-1/8"	81" (8)	80.0	90.0
25-1/2"		80.0	90.0
31"		80.0	90.0
36"		80.0	90.0
39"		80.0	90.0

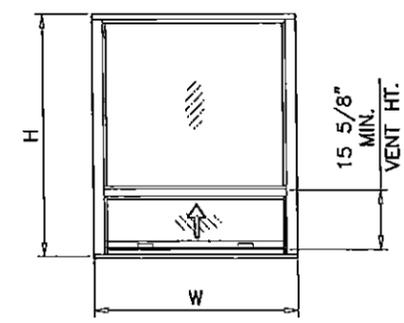
* NUMBER IN PARENTHESIS INDICATE MIN. NO. OF ANCHORS PER JAMB.



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

UNEQUAL LITES (ORIEL TYPE) WDWS. DESIGN LOAD CAPACITY - PSF				
INTERIOR FRAME DIMS.		GLASS TYPES 'A' & 'B'		
WIDTH	HEIGHT	EXT.(+)	INT.(-)	
18-1/8"	49-5/8" (5)	80.0	90.0	
25-1/2"		80.0	90.0	
31"		80.0	90.0	
36"		80.0	90.0	
39"		80.0	90.0	
43"		80.0	90.0	
47"		80.0	90.0	
52-1/8"		80.0	90.0	
54"		80.0	90.0	
18-1/8"		55" (5)	80.0	90.0
25-1/2"	80.0		90.0	
31"	80.0		90.0	
36"	80.0		90.0	
39"	80.0		90.0	
43"	80.0		90.0	
47"	80.0		90.0	
52-1/8"	80.0		90.0	
54"	80.0		90.0	
18-1/8"	62" (6)		80.0	90.0
25-1/2"		80.0	90.0	
31"		80.0	90.0	
36"		80.0	90.0	
39"		80.0	90.0	
43"		80.0	90.0	
47"		80.0	90.0	
52-1/8"		80.0	90.0	
54"		80.0	88.9	
18-1/8"		69" (7)	80.0	90.0
25-1/2"	80.0		90.0	
31"	80.0		90.0	
36"	80.0		90.0	
39"	80.0		90.0	
43"	80.0		90.0	
47"	80.0		90.0	
52-1/8"	80.0		90.0	
54"	80.0		88.9	
18-1/8"	73-1/4" (7)		80.0	90.0
25-1/2"		80.0	90.0	
31"		80.0	90.0	
36"		80.0	90.0	
39"		80.0	90.0	
43"		80.0	90.0	
18-1/8"		75" (7)	80.0	90.0
25-1/2"			80.0	90.0
31"			80.0	90.0
36"			80.0	90.0
39"	80.0		90.0	
43"	80.0		90.0	
18-1/8"	81" (8)		80.0	90.0
25-1/2"			80.0	90.0
31"			80.0	90.0
36"			80.0	90.0
39"		80.0	90.0	

* NUMBER IN PARENTHESIS INDICATE MIN. NO. OF ANCHORS PER JAMB.



Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538
MAY 27 2015

Approved as complying with the
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NOA# 15-0129.12
Miami Dade Product Control
By: *Manuel Perez*

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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TEL. (305) 262-6978 FAX. (305) 264-8100
COMP-ANL W14-39ESW

ES-H340 THERMAL ALUM SINGLE HUNG WDWS. (L.M.I.)

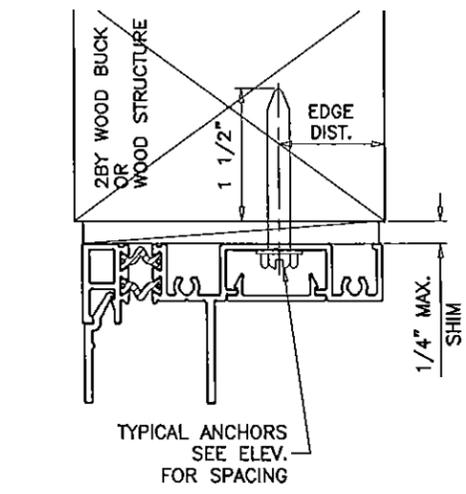
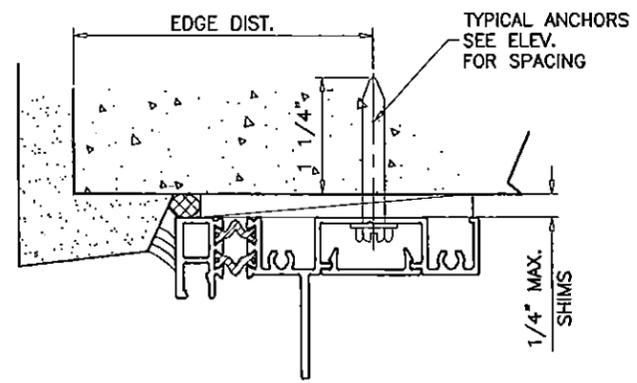
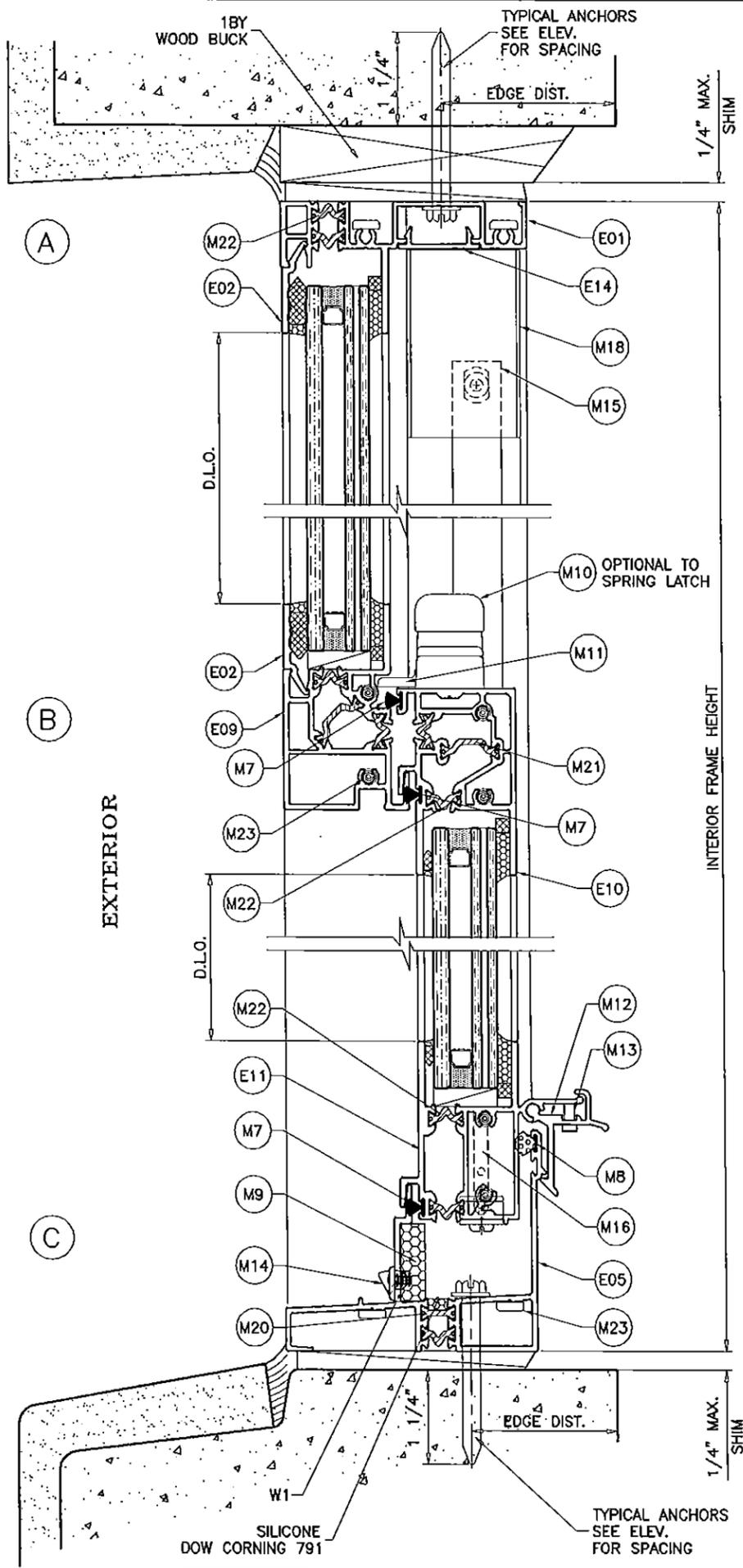
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NO.	DATE	DESCRIPTION
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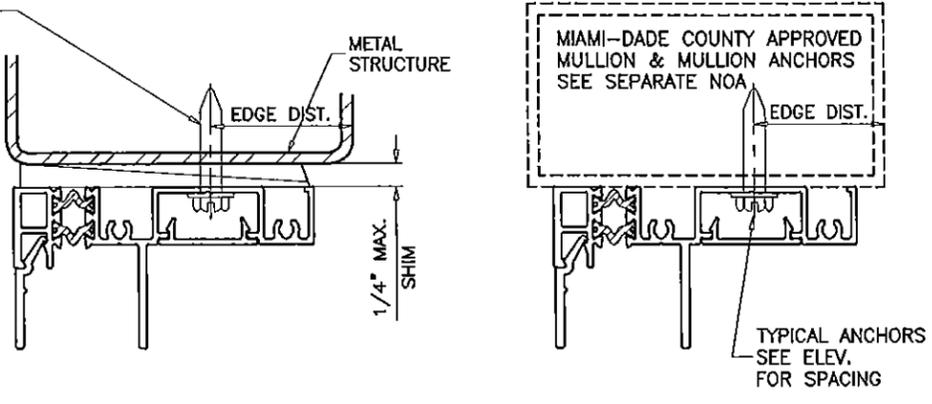
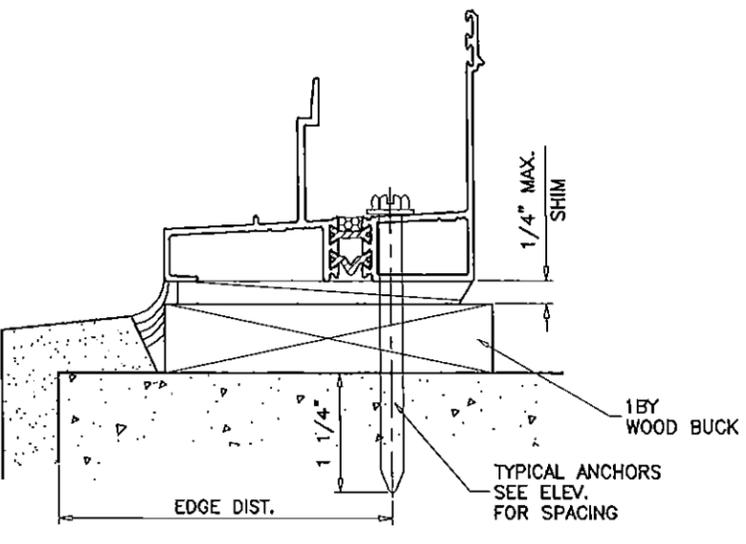
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dr. by: HAMID
chk. by:

drawing no.
W14-39

Sheet 2 of 9



WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



- TYPICAL ANCHORS:** SEE ELEV. FOR SPACING
- 1/4" DIA. CRETE-FLEX SS4 BY 'ELCO' (Fu=190 KSI, Fy=127 KSI)
 - 1/4" DIA. ULTRACON SS4 410 BY 'ELCO' (Fu=190 KSI, Fy=164 KSI)
 - 1/4" DIA. AGGRE-GATOR 300 BY 'ELCO' (Fu=95 KSI, Fy=57 KSI)
 - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
- INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
- THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)
- DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

- 1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'ELCO'
 - 1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'ELCO' (GRADE 5 CRS)
- INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
- INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

- ANCHOR EDGE DISTANCES**
- INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 - INTO WOOD STRUCTURE = 1" MIN.
 - INTO METAL STRUCTURE = 3/4" MIN.
- WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPHOLES:
W1 = 1-7/8" X 1/4" WEEPHOLES AT 6-1/2" FROM EACH END

Engr: JAVAD AHMAD
CIVIL
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C.A.N. 3538

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NOA# 15-0174.12
Miami Dade Product Control
By Manuel Perez

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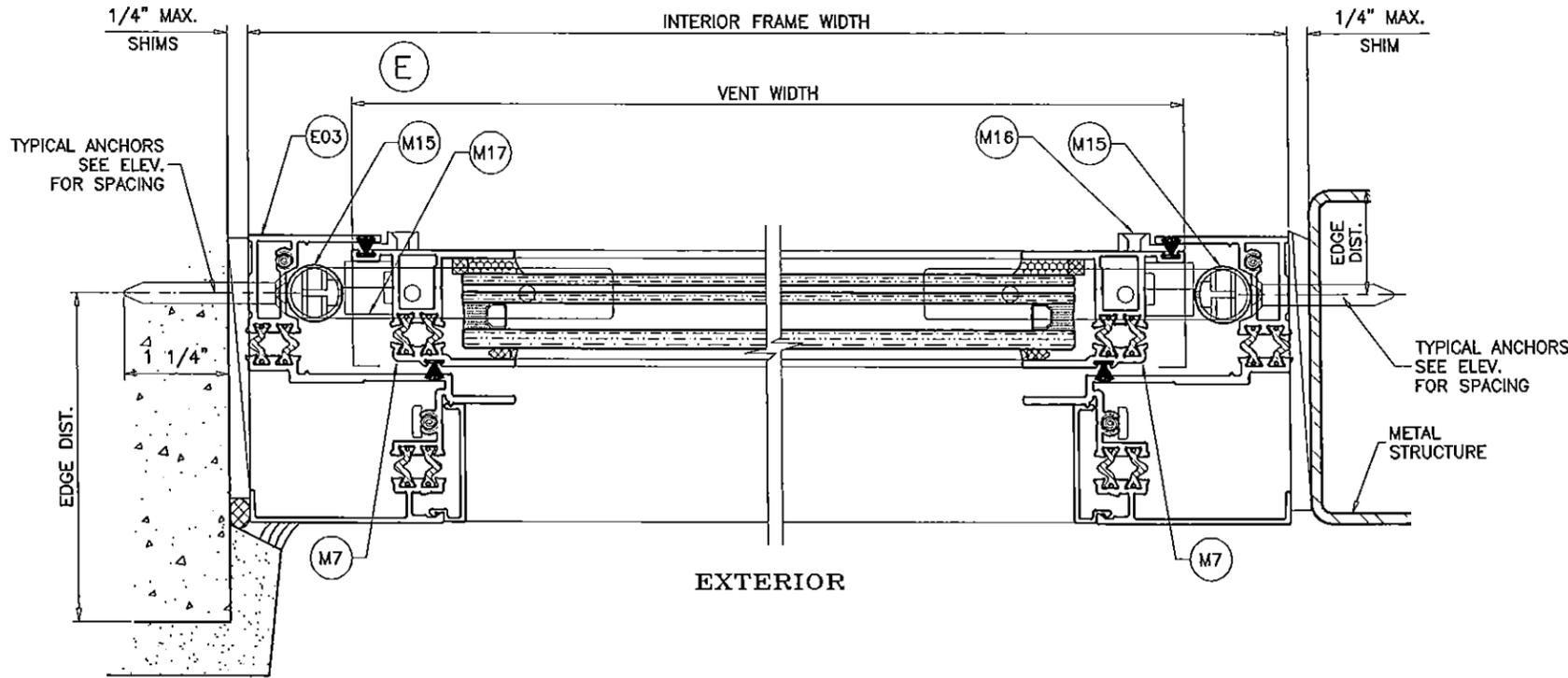
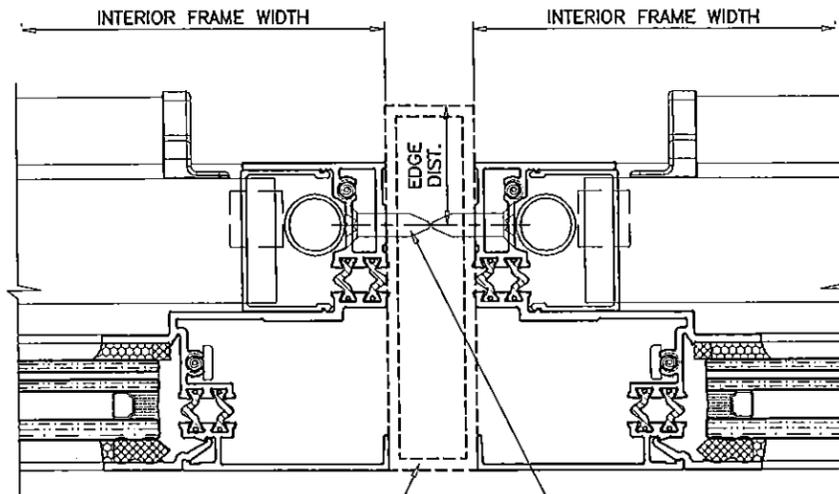
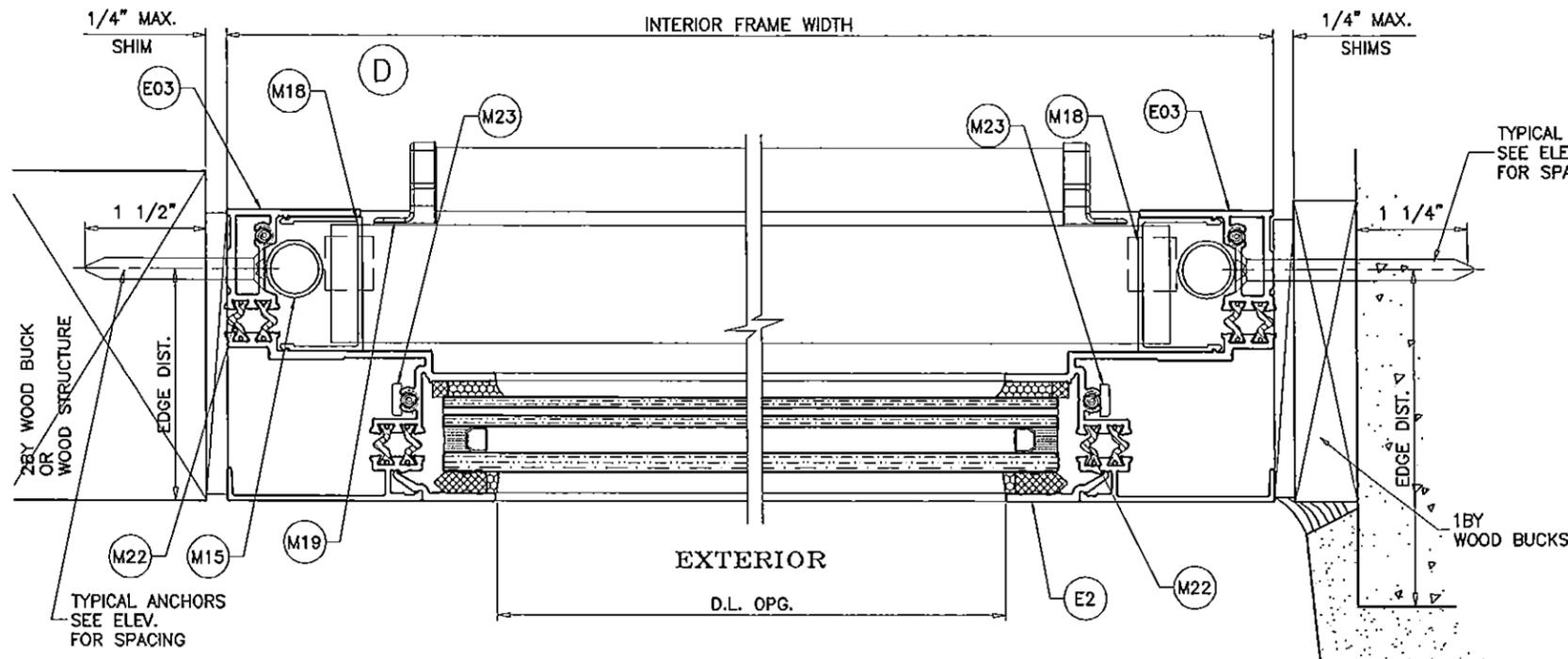
NO	DATE	BY	DESCRIPTION
A	05.21.15		REV. PER PER COMMENTS

Revisions:

date: 10-10-14
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W14-39

sheet 3 of 9



MIAMI-DADE COUNTY APPROVED MULLION SEE SEPARATE NOA

TYPICAL ANCHORS SEE ELEV. FOR SPACING

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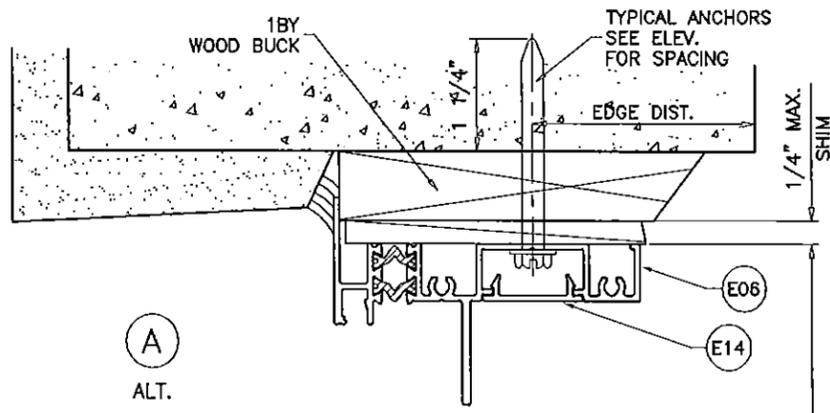
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 TEL (305) 638-5151 FAX (305) 638-5158

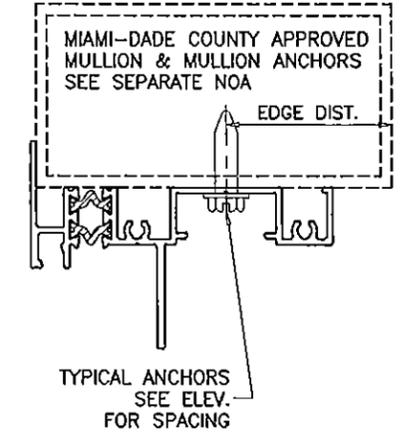
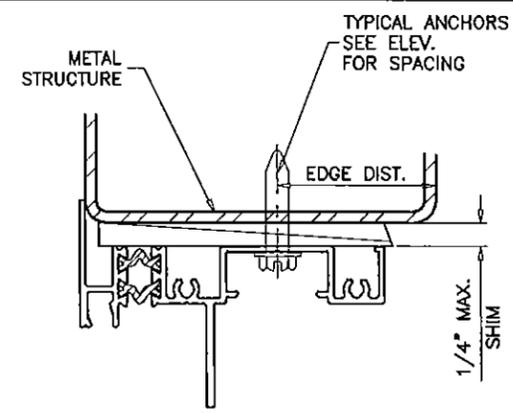
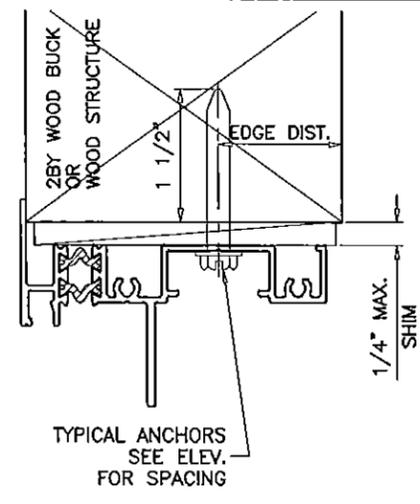
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 chk. by:

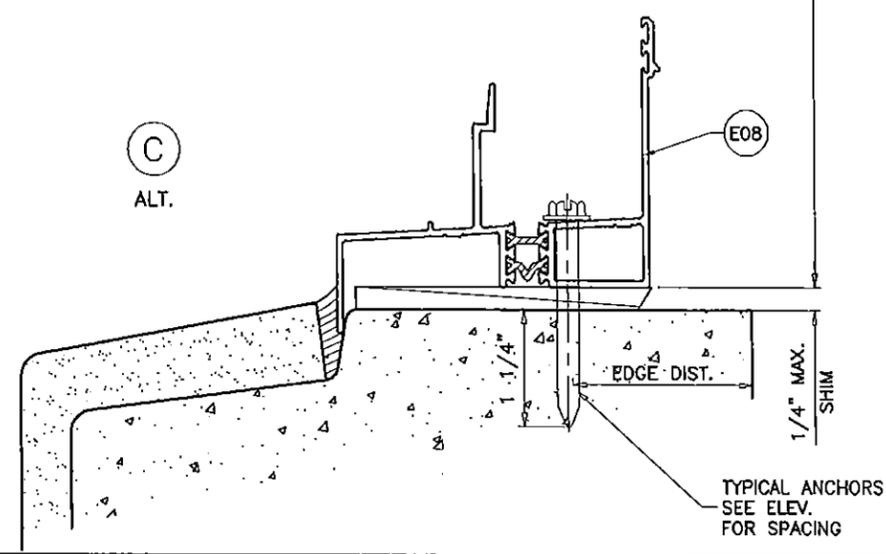
drawing no.
W14-39
 sheet 4 of 9



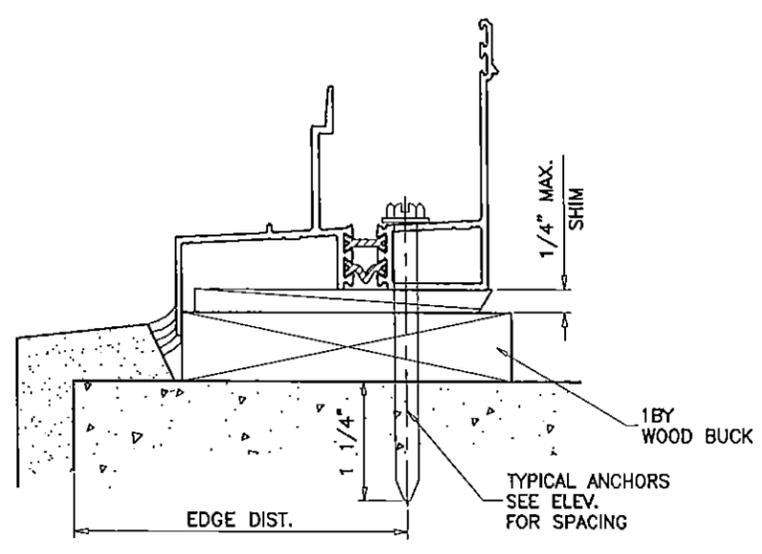
A
ALT.



INTERIOR FRAME HEIGHT



C
ALT.



INSTALLATION DETAILS WITH FLANGE FRAMES

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 13538

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Miami Dade Product Control
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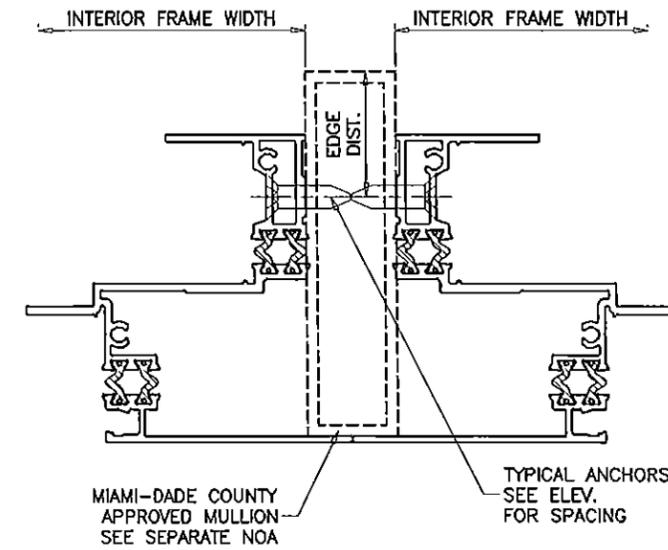
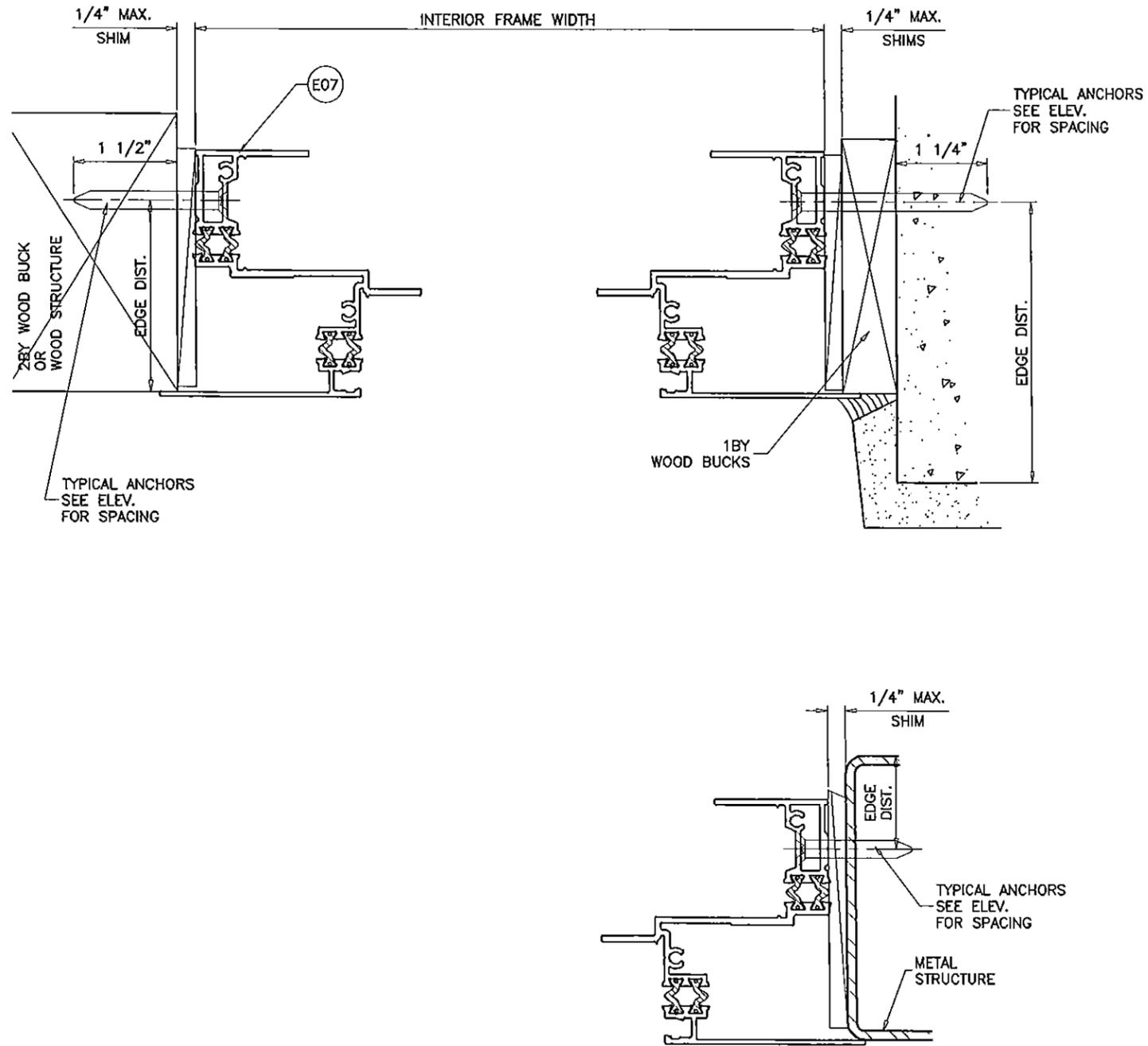
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL/W14-39ESW

ES-H340 THERMAL ALUM SINGLE HUNG WDW. (L.M.I.)
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NO	DATE	BY	DESCRIPTION
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W14-39
sheet 5 of 9



INSTALLATION DETAILS WITH FLANGE FRAMES

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

MAY 27 2015

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afc
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REVISIONS:

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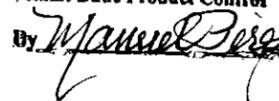
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-H340-501	1	FLUSH FRAME HEAD	6063-T6	-
E02	ES-H340-003	4/ LITE	GLASS STOP	6063-T6	-
E03	ES-H340-505	2	FLUSH FRAME JAMB	6063-T6	-
E04	ES-H340-007	AS REQD.	SCREEN ADAPTER/COVER	6063-T5	-
E05	ES-H340-503	1	FLUSH FRAME SILL	6063-T6	-
E06	ES-H340-502	1	FLANGE FRAME HEAD	6063-T6	-
E07	ES-H340-506	2	FLANGE FRAME JAMB	6063-T6	-
E08	ES-H340-504	1	FLANGE FRAME SILL	6063-T6	-
E09	ES-H340-507	1	FIXED INTERLOCK	6063-T6	-
E10	ES-H340-508	1	VENT INTERLOCK	6063-T6	-
E11	ES-H340-509	1	BOTTOM RAIL	6063-T6	-
E12	ES-H340-510	2	JAMB STILE	6063-T6	-
E13	ES-H340-021	-	JAMB TRIM	6063-T5	-
E14	ES-9502	AS REQD.	HEAD FRAME COVER	6063-T5	-
M2	ES-H340-G02	AS REQD.	EXTERIOR GLAZING WEDGE (FIX. LITE)	EPDM	DUROMETER 60±5 SHORE A
M3	ES-H340-G03	AS REQD.	EXTERIOR GLAZING WEDGE (VENT)	EPDM	DUROMETER 60±5 SHORE A
M4	ES-21-B04A	AS REQD.	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
M6	-	AS REQD.	INTERIOR GLAZING TAPE	POLYURETHANE	THERMALBOND
M7	W23241NK	AS REQD.	PILE W'STRIPPING	-	-
M8	Q300T190	AS REQD.	Q-LONG W'STRIPPING	-	-
M9	WPSA	1/ WEEP	FOAM PAD, 2" X 1" X 5/8"	FOAM	OPEN CELL
M10	3032	2/ VENT	SWEEP LOCK	DIE CAST ALUM.	-
M11	ES1050-PL1	-	SWEEP LOCK FLAT BOLT	ST. STEEL	-
M12	SK08-4000.000	-	VENT LATCH INTERLOCK	DIE CAST ALUM	-
M13	ES-1012	-	LATCH SPRING LS 4050	ST. STEEL	-
M14	WA2L	-	WEEP HOLE COVER	RIGID PVC	-
M15	30-31	2/ VENT	ULTRA LIFT BALANCE	STEEL ROD	-
M16	-	2/ VENT	BALANCE GUIDE	NYLON	FASTENED W/ (1) #8 X 1/2" FH SMS
M17	21803	-	NON TILT	ST. STEEL	-
M18	ES-H340-P01	-	SASH STOP	RIGID PVC	-
M19	ES-1000-P1	-	NOTCH CAP	NYLON	-
M20	2310	-	INSULBAR 10MM FLAT	POLYAMIDE	ENSINGER
M21	1673	-	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER
M22	-	-	INSULBAR 12MM OFFSET	POLYAMIDE	ENSINGER
M23	#10 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M24	#8 X 1/2"	-	NON TILT SCREWS	ST. STEEL	PH SMS
M25	#6 X 1/2"	-	BALANCE GUIDE SCREWS	ST. STEEL	FH SMS

SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH WHITE/ALUMINUM COLORED GENERAL PURPOSE SILICONE SEALANT BY MACKLANBURG-DUNCAN.

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

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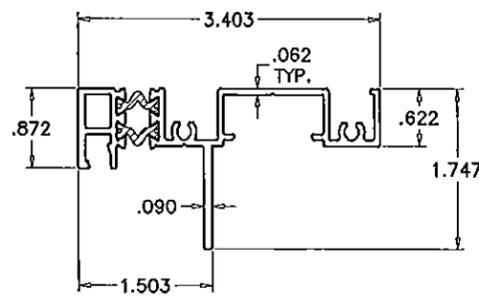
AL-FAROOQ CORPORATION
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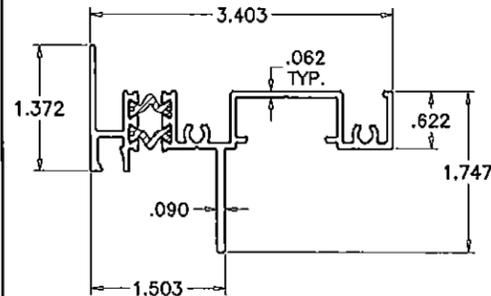
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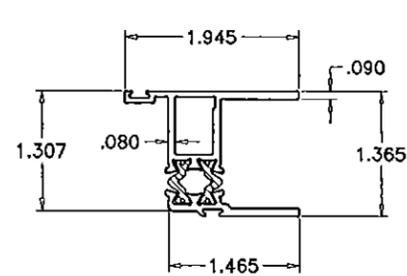
drawing no.
W14-39
 sheet 7 of 9



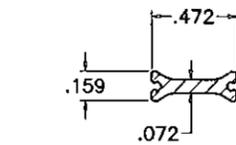
E01 FLUSH FRAME HEAD



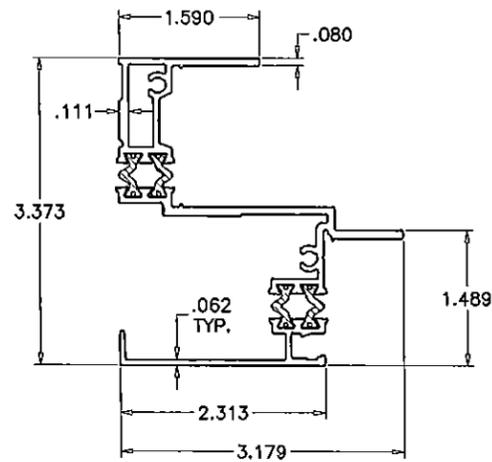
E06 FLANGE FRAME HEAD



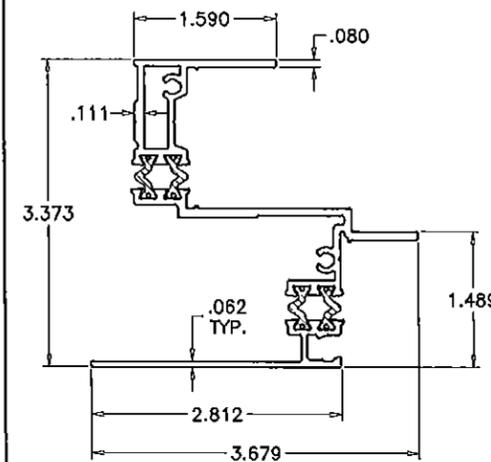
E12 VENT SIDE RAIL



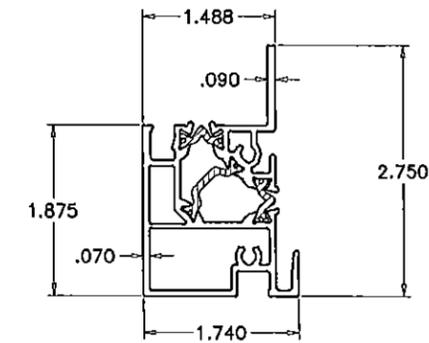
M20 10MM FLAT



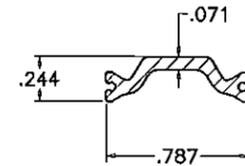
E03 FLUSH FRAME JAMB



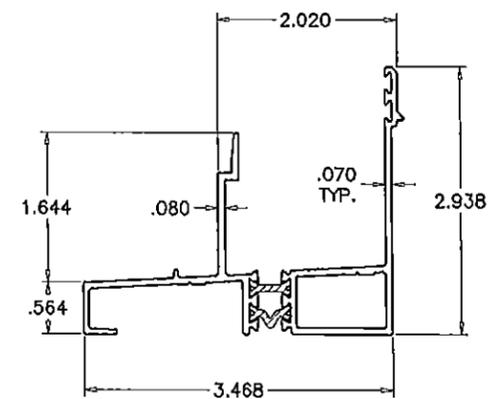
E07 FLANGE FRAME JAMB



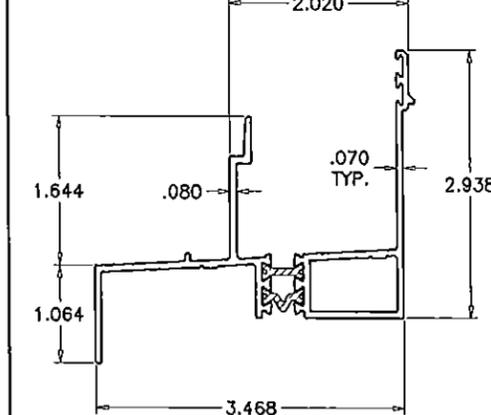
E09 FIX. MEETING RAIL



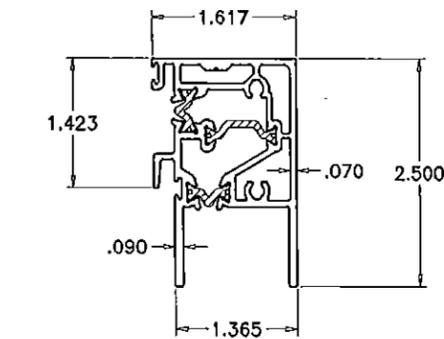
M21 20MM OFFSET



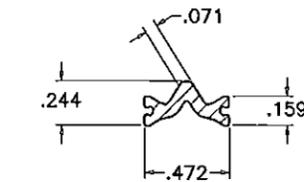
E05 FLUSH FRAME SILL



E08 FLANGE FRAME SILL



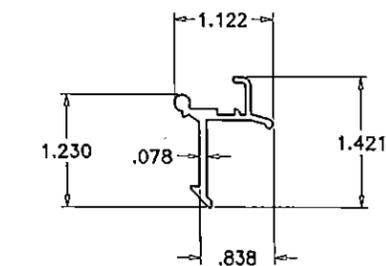
E10 VENT TOP RAIL



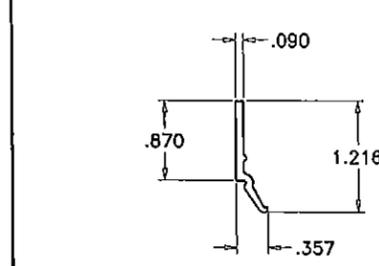
M22 12MM OFFSET

TECATHERM® 66 GF INSULBARS
SCALE 1:1

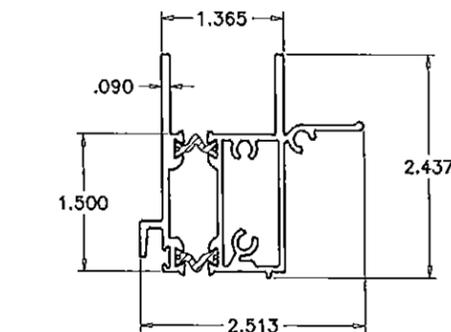
MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63



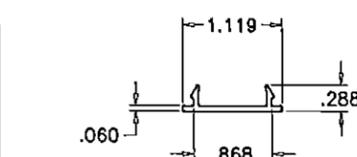
M12 SPRING LOADED LATCH



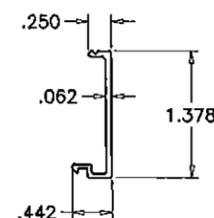
E02 GLAZING BEAD



E11 VENT BOTTOM RAIL



E14 HEAD FRAME COVER



E13 JAMB TRIM

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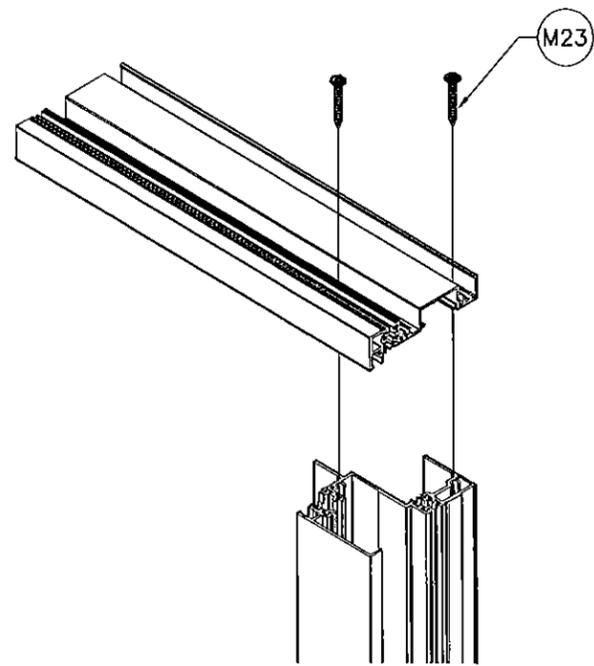
AL-FAROOQ CORPORATION
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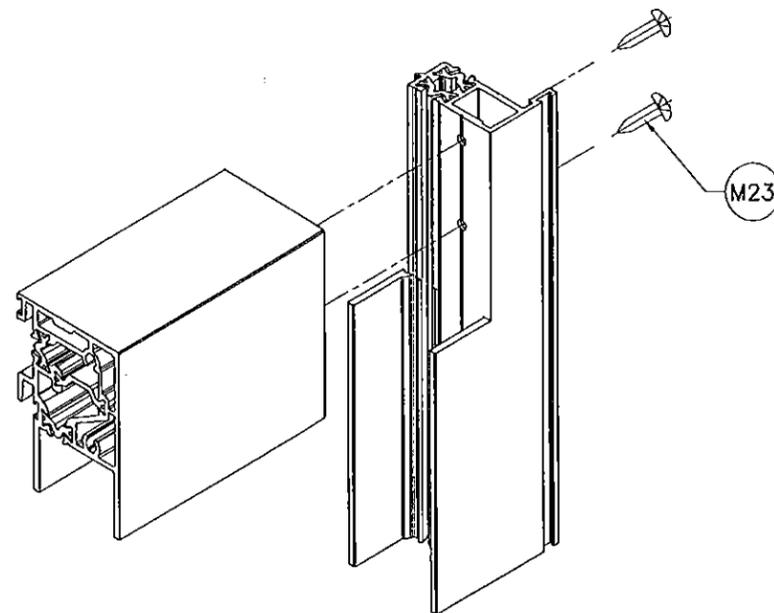
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revisions:
no date by description
A 05.21.15 REV. PER PER COMMENTS

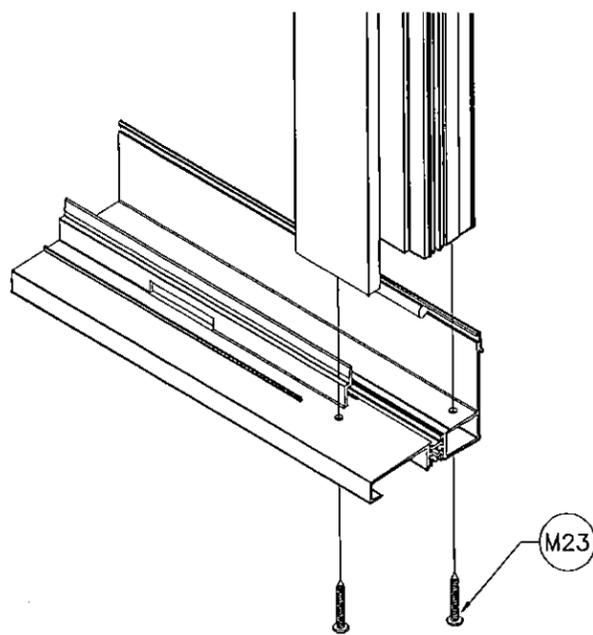
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drawing no. **W14-39**
sheet 8 of 9



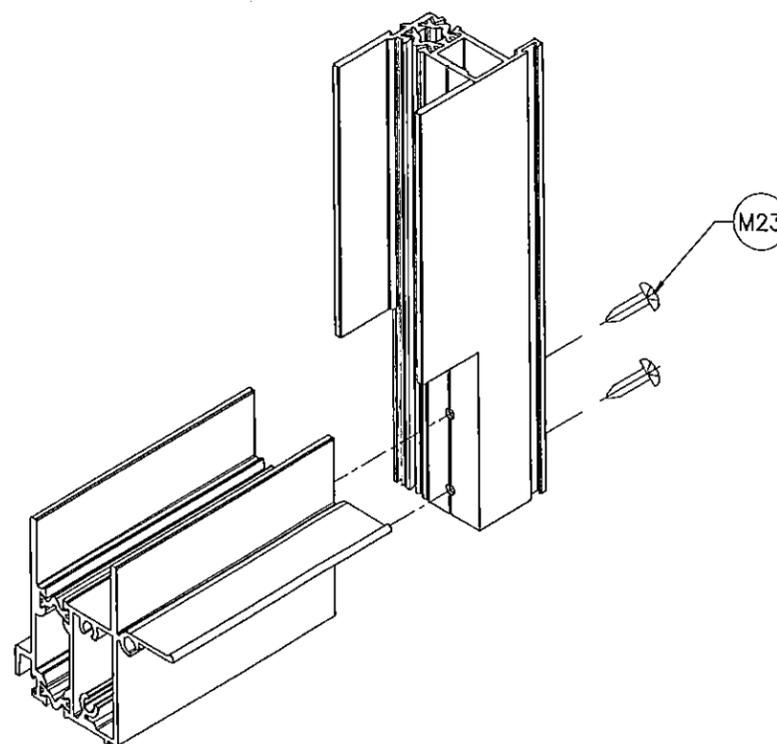
FRAME TOP CORNER



VENT TOP CORNER



FRAME BOTTOM CORNER



VENT BOTTOM CORNER

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
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By: *[Signature]*

afc
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