



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

ES Windows LLC
10653 NE Quaybridge Ct.
Miami, FL 33138

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "V1500" White PVC Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W10-30**, titled "Series V1500 PVC Fixed Window (L.M.I.)", sheets 1 to 6 of 6, dated 05/12/10, with revision B dated 12/22/11, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large 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 revises NOA # 10-0623.03 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



MP
3/29/12

NOA No. 12-0130.36
Expiration Date: December 09, 2015
Approval Date: March 29, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W10-30**, titled "Series V1500 PVC Fixed Window (L.M.I.)", sheets 1 through 6 of 6, dated 05/12/10, with revision B dated 12/22/11, 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
 - 6) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94along with marked-up drawings and installation diagram of model V1500 PVC fixed windows, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-12835-1**, dated 10/12/07, with revision dated 10/25/10, signed and sealed by Harold E. Rupp, P.E. (*Submitted under previous NOA#10-0623.03*)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 06/02/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E. (*Submitted under previous NOA#10-0623.03*)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

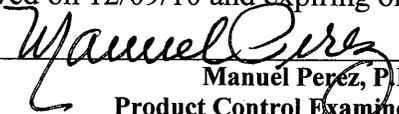
1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **08-0620.09** issued to Thermoplast for "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 08/07/08, expiring on 07/05/12.

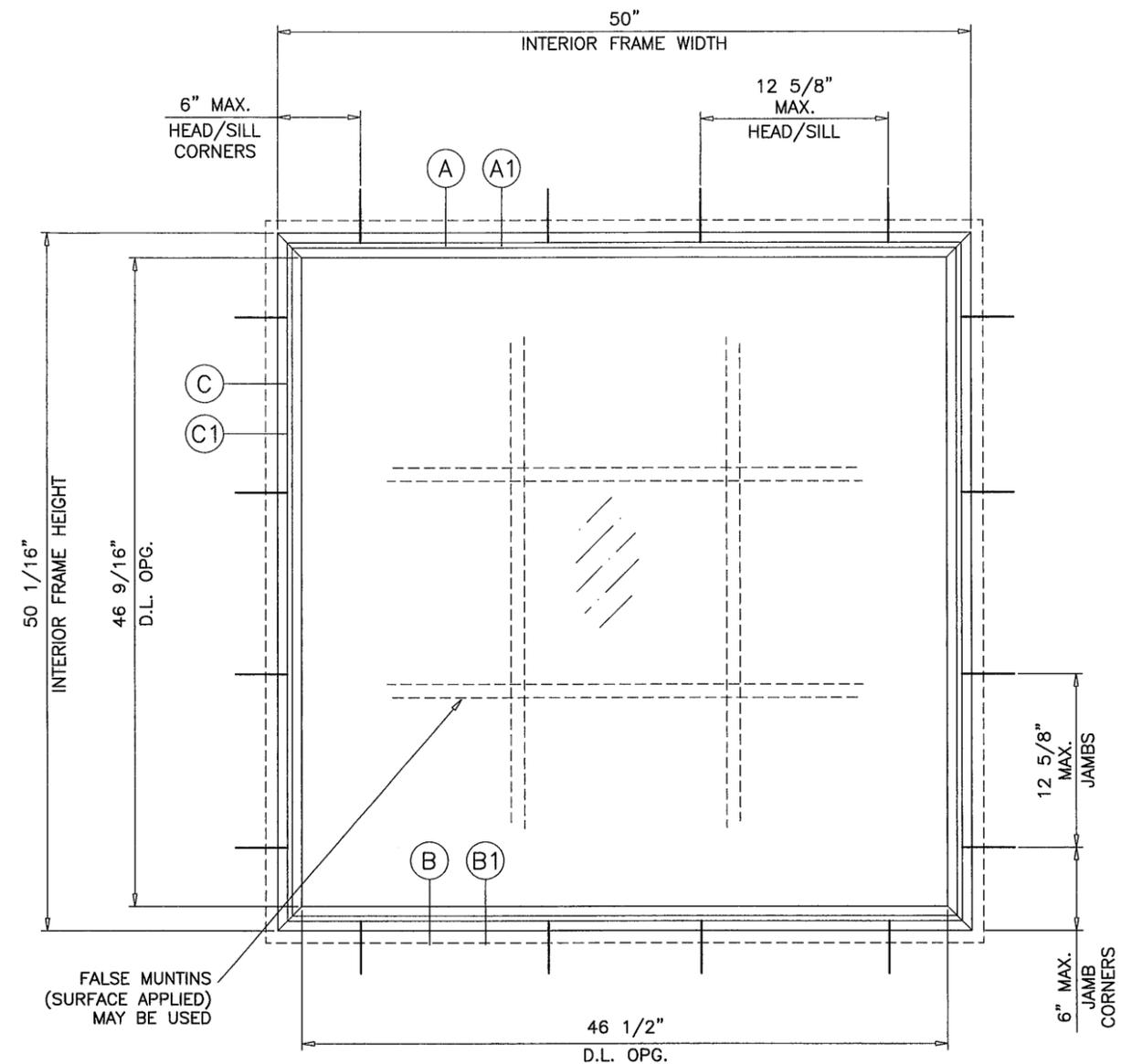
F. STATEMENTS

1. Statement letter of code conformance, complying with FBC 2010, and of no financial interest, issued by Al-Farooq Corporation, dated 12/21/11, signed and sealed by Javad Ahmad, P.E.

G. OTHER

1. Notice of Acceptance No. **10-0623.03**, issued to ES Windows LLC for their Series "V1500" White PVC Fixed Window - L.M.I., approved on 12/09/10 and expiring on 12/09/15.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0130.36
Expiration Date: December 09, 2015
Approval Date: March 29, 2012



TYPICAL ELEVATION

D.L. OPENING

D.L.O WIDTH = INTERIOR FRAME WIDTH - 3.500"
 D.L.O. HEIGHT = INTERIOR FRAME HEIGHT - 3.500"

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

SERIES V1500 PVC FIXED 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 FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED CLIPPED 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.

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.

LAMINATED INSULATING GLASS
 LARGE & SMALL MISSILE IMPACT

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 DEC 27 2011

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0130.36
 Expiration Date DEC. 9, 2015
 By *Manuel Pires*
 Miami Dade Product Control

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\W10-30ES

SERIES V1500 PVC FIXED WINDOW (L.M.I.)
 E.S. WINDOWS, LLC
 5220 N.W. 72 AVE. BAY #4
 MIAMI, FL. 33166
 TEL. (305) 624-7775 FAX. (305) 624-7777

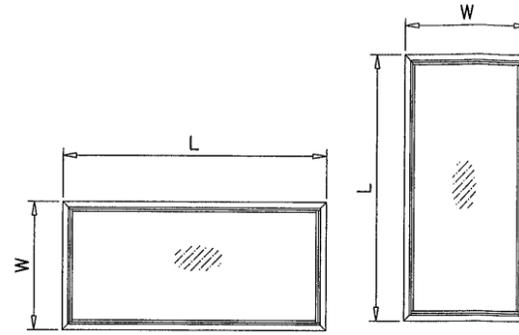
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B	12.22.11	UPDATED TO 2010 FBC

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 chk. by:

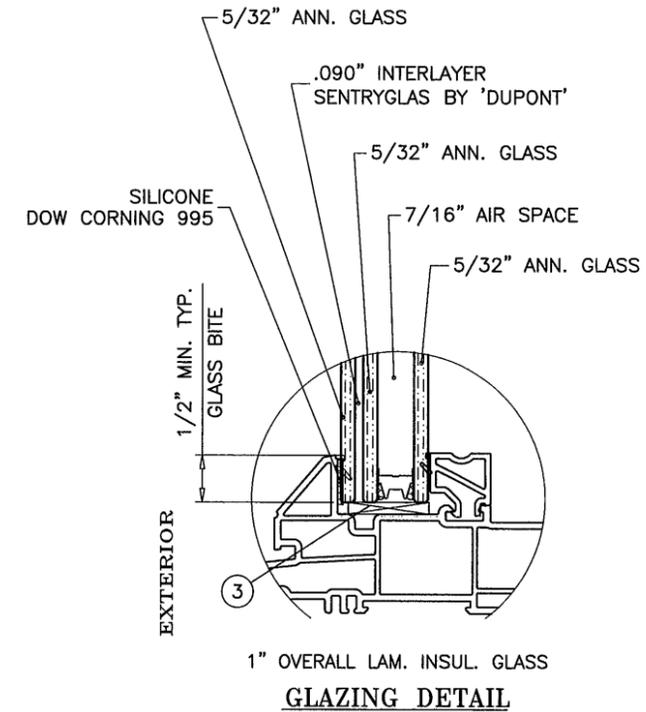
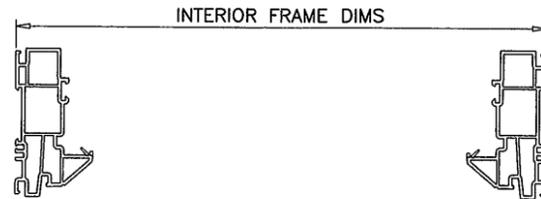
drawing no.
W10-30
 sheet 1 of 6

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMENSIONS		1" OVERALL LAM. INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)
18-1/8"	25"	70.0	70.0
25-1/2"		70.0	70.0
36"		70.0	70.0
47"		70.0	70.0
52-1/8"		70.0	70.0
60"		70.0	70.0
18-1/8"	37-3/8"	70.0	70.0
25-1/2"		70.0	70.0
36"		70.0	70.0
47"		70.0	70.0
52-1/8"		70.0	70.0
60"	68.0	68.0	
18-1/8"	49-5/8"	70.0	70.0
25-1/2"		70.0	70.0
36"		70.0	70.0
47"		70.0	70.0
50"	70.0	70.0	
18-1/8"	62"	70.0	70.0
25-1/2"		70.0	70.0
36"		68.5	68.5
40"		64.6	64.6
18-1/8"	75"	70.0	70.0
25-1/2"		70.0	70.0
33"		68.0	68.0

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMENSIONS		1" OVERALL LAM. INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)
23"	35"	70.0	70.0
29"		70.0	70.0
35"		70.0	70.0
41"		70.0	70.0
47"		70.0	70.0
53"		70.0	70.0
59"	70.0	70.0	
60"	70.0	70.0	
23"	47"	70.0	70.0
29"		70.0	70.0
35"		70.0	70.0
41"		70.0	70.0
47"		70.0	70.0
53"	66.9	66.9	
23"	59"	70.0	70.0
29"		70.0	70.0
35"		70.0	70.0
41"		65.4	65.4
42"	64.7	64.7	
23"	71"	70.0	70.0
29"		70.0	70.0
35"		66.4	66.4
23"	75"	70.0	70.0
29"		70.0	70.0
33"		68.0	68.0



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



1" OVERALL LAM. INSUL. GLASS
GLAZING DETAIL

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS).

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
Javad Ahmad
DEC 9 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0130.36
Expiration Date DEC. 9, 2015
By *Mamun Maz*
Miami Dade Product Control



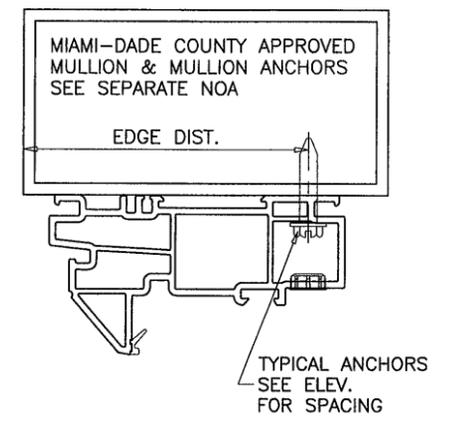
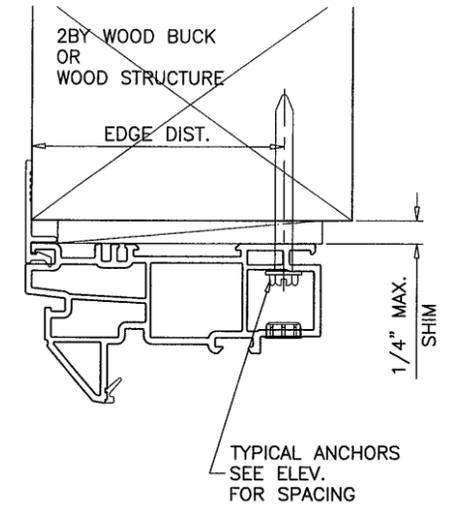
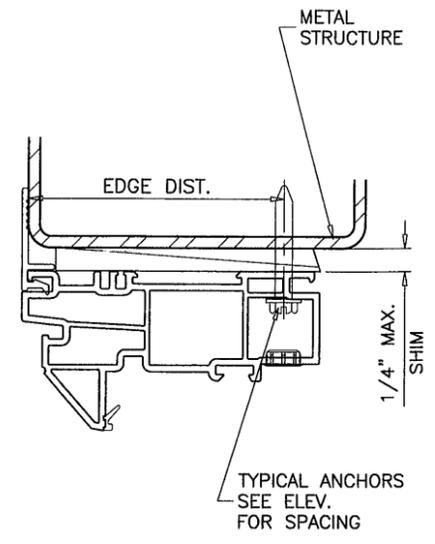
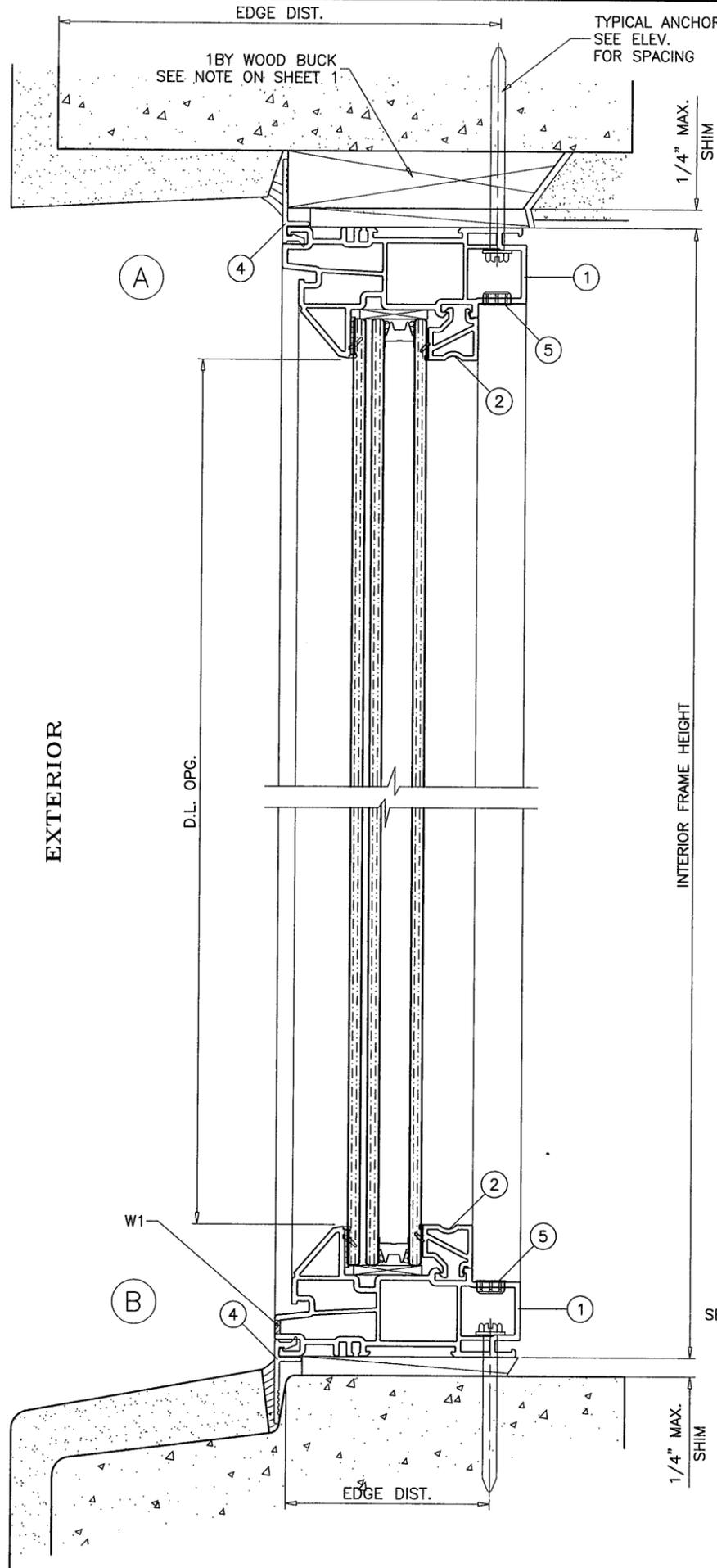
AL-FAROOQ CORPORATION
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COMP-ANL\W10-30ES

SERIES V1500 PVC FIXED WINDOW (L.M.I.)
E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
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no	date	by	description
A	09.24.10		REV PER BCCO COMMENTS
B	12.22.11		NO CHANGE THIS SHEET

date: 05-12-10
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W10-30
sheet 2 of 6



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
3/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-3/8" MIN. PENETRATION INTO WOOD
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#10 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#10 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
 (NO SHIM SPACE)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 1-1/4" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

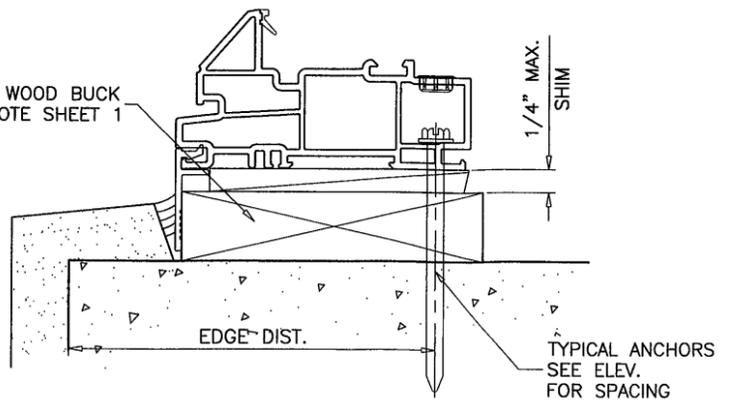
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPHOLES:

W1 = 1/4" DIA. WEEP HOLES AT 3" FROM EACH END

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE SEALANT.



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

DEC 27 2011

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 Expiration Date DEC 9, 2015

By *Manuel Ferraz*
 Miami Dade Product Control

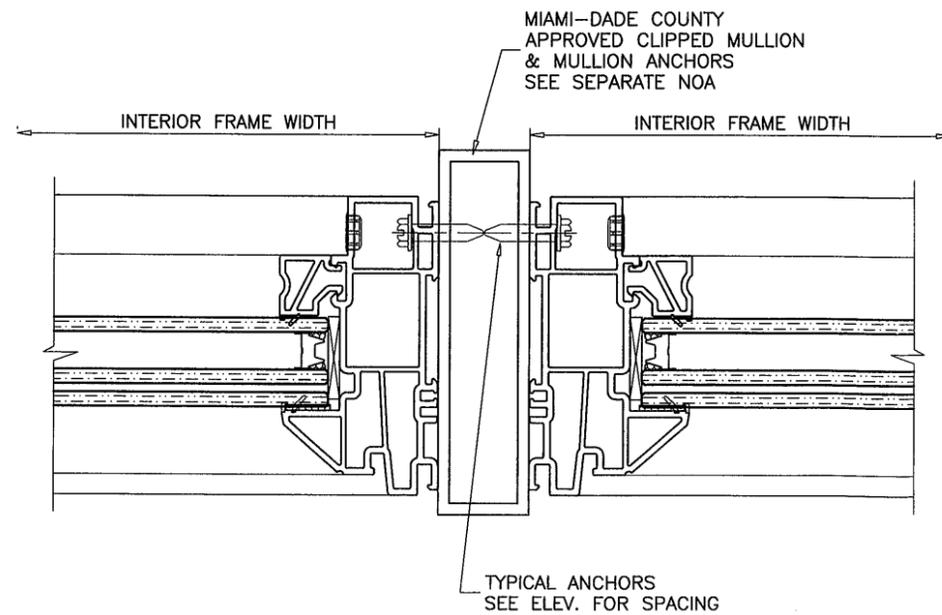
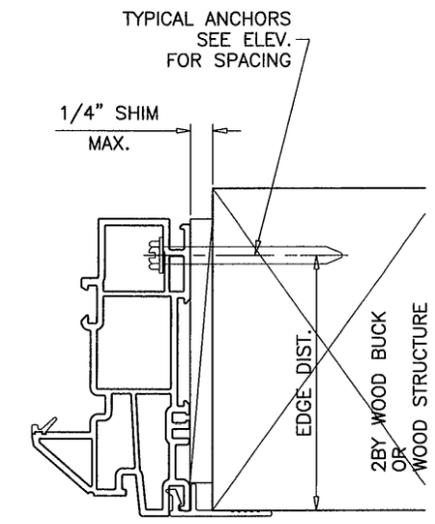
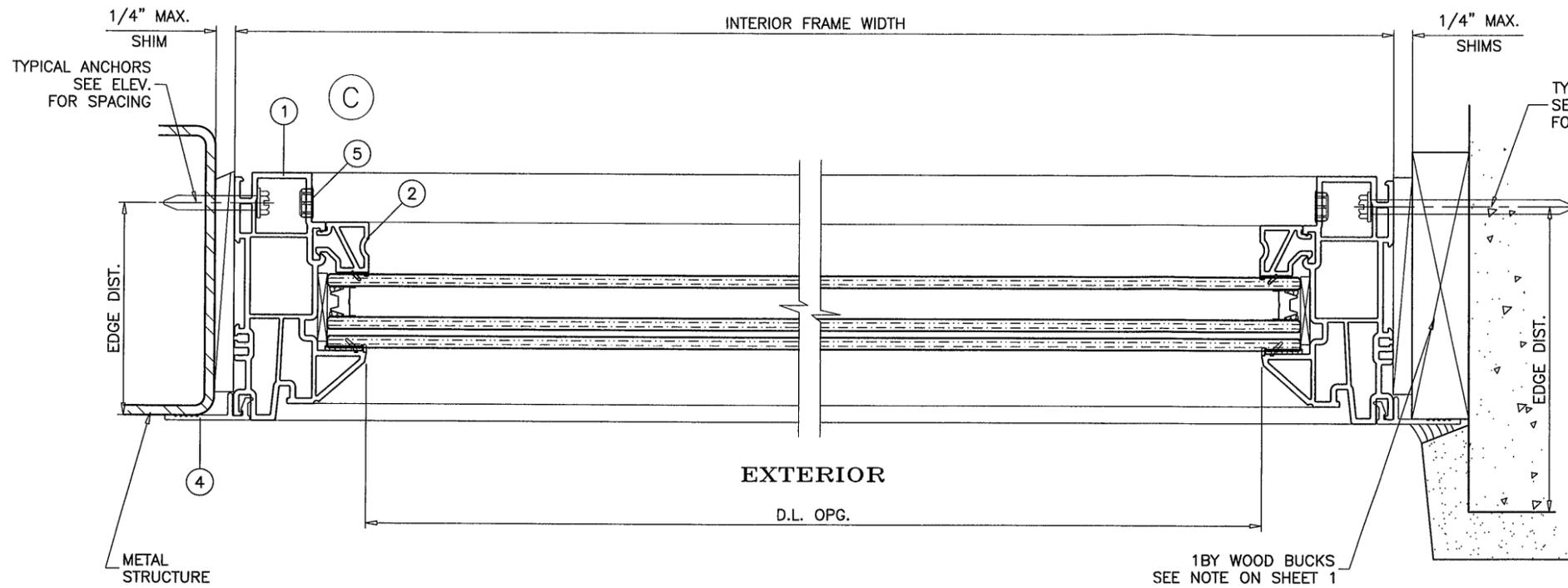
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revisions:	no	date	by	description
	A	09.24.10		REV PER BCCO COMMENTS
	B	12.22.11		NO CHANGE THIS SHEET

date: 05-12-10
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W10-30
 sheet 3 of 6



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

JAVAD AHMAD
 DEC 27 2011

PRODUCT REVISED
 as complying with the Florida
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By *Manuel Puga*
 Miami Dade Product Control

afC

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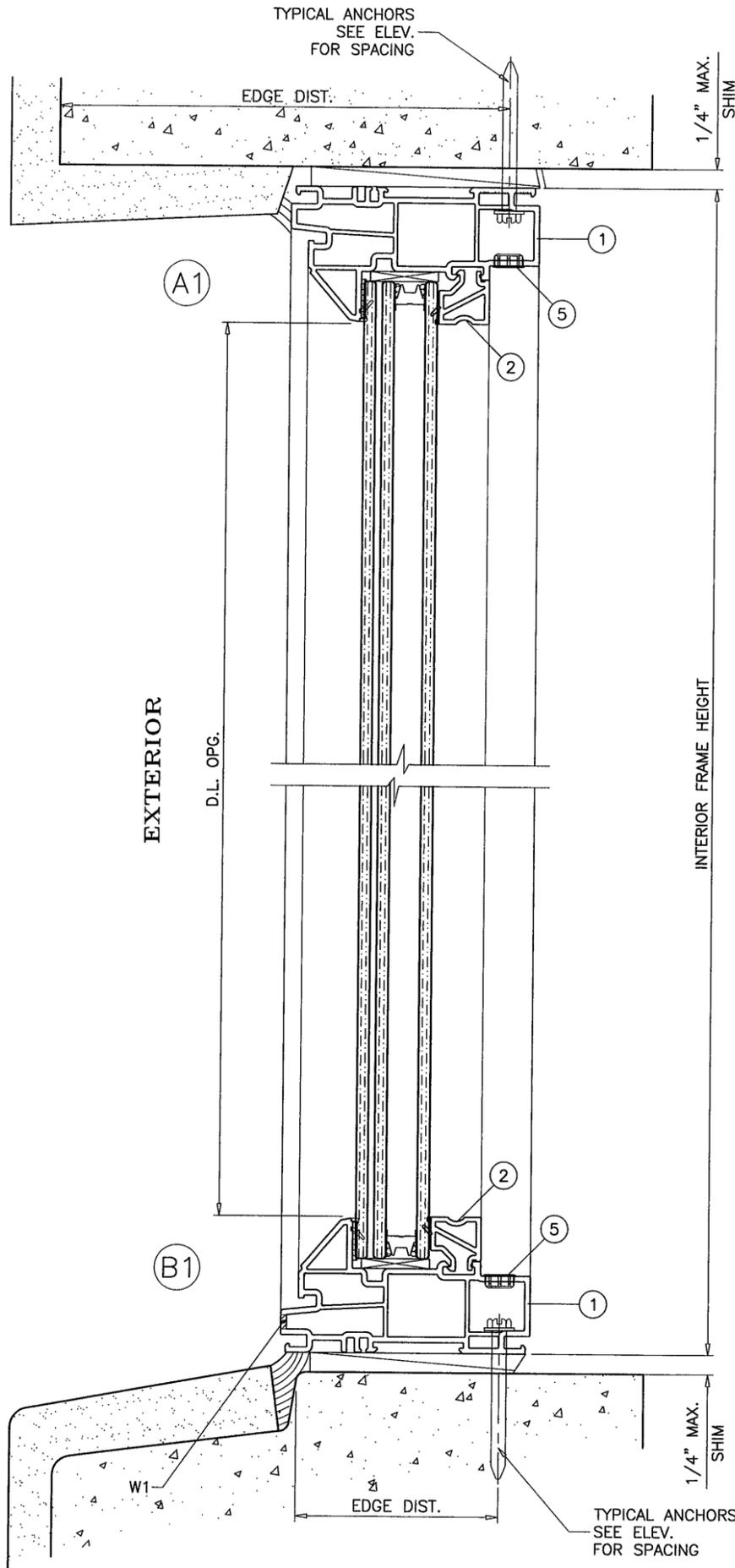
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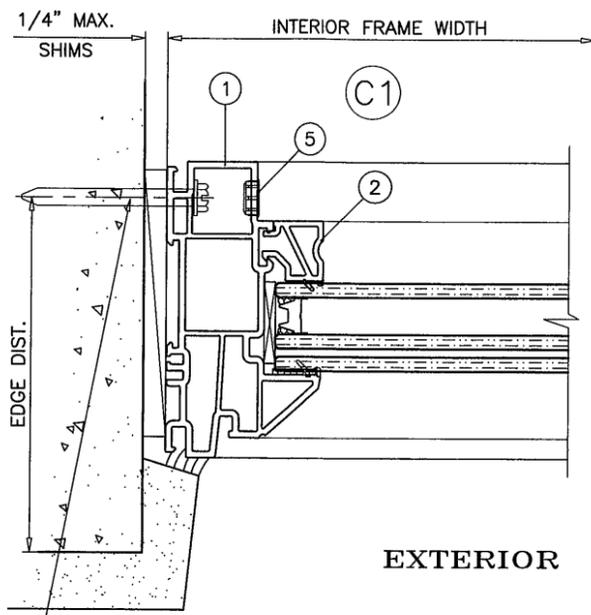
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 chk. by:

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W10-30
 sheet 4 of 6



FLANGE AND FLUSH FRAMES CAN BE USED AT ALL ANCHORAGE CONDITIONS.



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

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

JAVAD AHMAD
DEC 25 2011

PRODUCT REVISED
as complying with the Florida
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Acceptance No 12-0130.36
Expiration Date DEC 9 2015

By *Manuel Perez*
Miami Dade Product Control

afc
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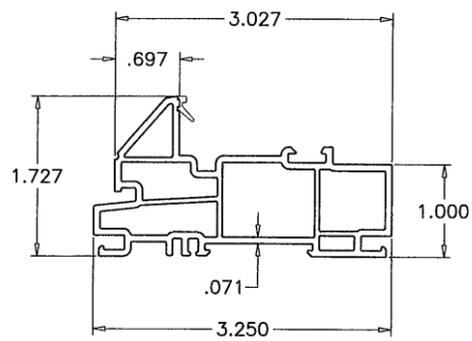
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revisions:

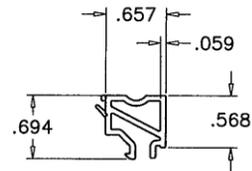
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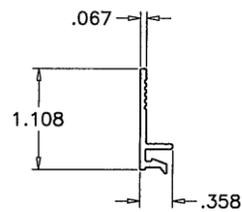
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W10-30
sheet 5 of 6



① WINDOW FRAME



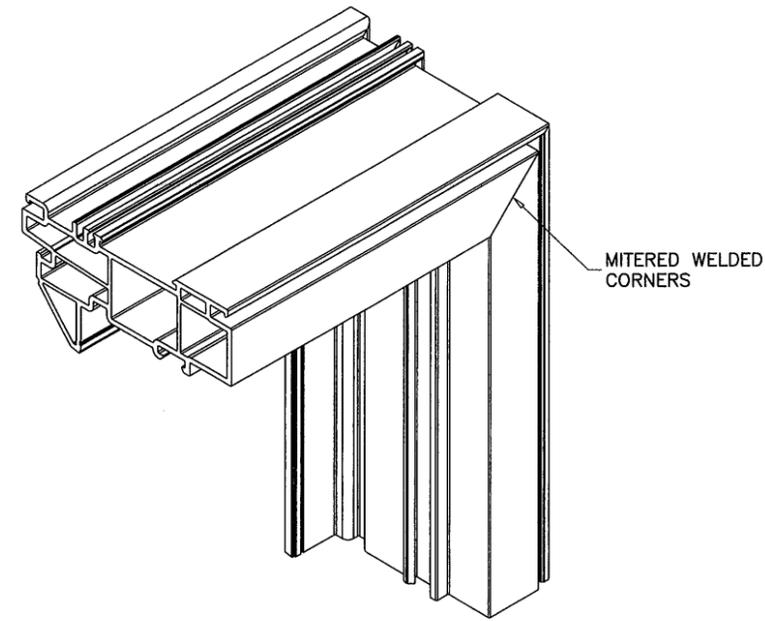
② GLAZING BEAD



④ FLANGE ADAPTOR

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	4507	4/ WDW.	WINDOW FRAME	WHITE RIGID PVC	THERMOPLAST
2	4413	4/ WDW.	GLAZING BEAD	WHITE RIGID PVC	THERMOPLAST
3	-	4/ WDW.	SETTING BLOCK (.90" X 2" X 1/8")	EPDM	DUROMETER ±80
4	4593	OPTIONAL	FLANGE ADAPTOR	WHITE RIGID PVC	THERMOPLAST
5	-	AS REQD.	SCREW HOLE PLUG	PVC	-

WHITE PVC EXTRUSIONS TO BE LABELED WITH AAMA EXTRUDER CODE, EXTRUDER NAME, CITY, STATE AND 'MDCA'.



FRAME CORNERS

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

DEC 27 2011

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0130-36
Expiration Date DEC 9, 2015
By *Mamuel*
Miami Dade Product Control

af c

AL-FAROOQ CORPORATION
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COMP-ANL\W10-30ES

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