



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**R.C. Aluminum Industries, Inc.
2805 NW 75th Avenue
Miami, FL 33122**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 "CM100" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W04-16**, titled "CM100 Aluminum Casement Window (L.M.I.)", sheets 1 through 7 of 7, dated 03/01/04 with revision "D" dated 07/09/10, 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 Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 # **09-0225.07** and consists of this page 1, Evidence pages E-1, E-2, E-3, and Green Sustainable Attributes page G-1, as well as approval document mentioned above.

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



**NOA No. 10-0426.09
Expiration Date: July 29, 2014
Approval Date: August 04, 2010
Page 1**

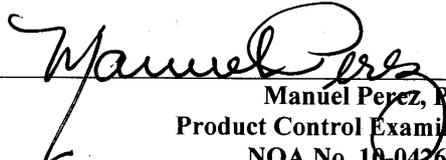
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W04-16**, Sheets 1 through 7 of 7, titled "CM100 Aluminum Casement Window (L.M.I.)", dated 03/01/04 with revision D dated 07/09/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmed, 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) Kinetic Energy Drop Load Test (400 Ft. Lb.), per ANSI Z97.1along with marked-up drawings and installation diagram of an outswing aluminum Casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5867**, dated 05/02/09, signed and sealed by Julio E. Gonzalez, 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) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1346**, dated September 16, 2003, signed and sealed by Rafael E. Droz-Seda, P.E. (*Submitted under previous NOA #06-1130.01*)
3. Test reports on:
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1856**, dated September 17, 2003, signed and sealed by Rafael E. Droz-Seda, P.E. (*Submitted under previous NOA #06-1130.01*)
4. Test reports on:
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1859**, dated January 16, 2004, signed and sealed by Rafael E. Droz-Seda, P.E. (*Submitted under previous NOA #06-1130.01*)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 10-0426.09

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B. TESTS (CONTINUED)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1350**, dated October 14, 2003, signed and sealed by Rafael E. Droz-Seda, P.E. *(Submitted under previous NOA #06-1130.01)*
6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1344**, dated September 12, 2003, signed and sealed by Rafael E. Droz-Seda, P.E. *(Submitted under previous NOA #06-1130.01)*
7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1848**, dated September 17, 2003, signed and sealed by Rafael E. Droz-Seda, P.E. *(Submitted under previous NOA #06-1130.01)*

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 02/01/10, signed and sealed by Javad Ahmad, P.E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **05-1208.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite PVB Interlayer**" dated 01/05/06, expiring on 12/11/10.



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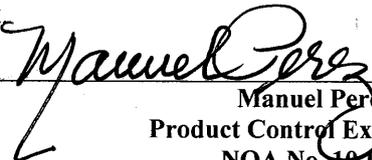
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated July 09, 2010, signed and sealed by Javad Ahmad, P.E.
2. Proposal # **08-1635** issued by BCCO to R.C. Aluminum Industries, Inc., dated 11/24/08, signed by Renzo Narciso, Engineer 1, Product Control Division.

G. OTHER

1. Notice of Acceptance No. **09-0225.07**, issued to R.C. Aluminum Industries, Inc. for their Series "CM100" Outswing Aluminum Casement Window – L.M.I., approved on 06/17/09 and expiring on 07/29/14.
2. Simulation Performance, Solar Heat Gain Coefficient, Visible Transmittance, & Condensation Resistance Calculation Report on:
 - 1) **NFRC 100-2004** "Procedure for Determining Fenestration Product U-Factors"
 - 2) **NFRC 200-2004** "Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence"
 - 3) **NFRC 500-2004** "Procedure for Determining Fenestration Product Condensation Resistance Values"Using computer simulation in accordance with NFRC: Frame and Edge Modeling: THERM 5.x, / WINDOW 5.x NFRC Simulation Manual (Approved at test date), of a RC Aluminum Series "CM100" outswing casement aluminum prime window, along with attached drawings and bill of materials included in Appendix A, marked-up by National Certified Testing Laboratories, Test Report No. **NCTL-110-12449.01**, pages 1 through 7 of 7, dated 11/12/09, signed by Richard A. McVicker III, Simulator, and Steven H. Coble, NFRC Accredited Simulator, Simulator-In-Responsible-Charge.
3. NFRC 102-2004 Thermal Performance Test Report on:
 - 1) **NFRC 102-2004** "Test Procedure for Measuring the Steady State Thermal Transmittance of Fenestration Systems"Test report of a series RC Aluminum's Series "CM100" Outswinging Aluminum Casement Prime Window with Low E and Argon, along with submittal component drawings, with applicable part numbers, manufacturing and modeling details included in Appendix A, marked-up by National Certified Testing Laboratories, Test Report No. **NCTL-110-12450-1**, pages 1 through 4 of 4, dated 11/30/09, signed by Christian J. Mitchell, Technician, and Robert H. Zeiders, P.E., Vice-President Engineering & Quality Person-In-Responsible Charge.
4. Recycled Content Determination Report on:
Name: Casement Window, CM100
Raw Material: Aluminum
Including letter from **Fundiciones Industriales S.A. (FISA)** dated March 22, 2010, certifying that the extruded aluminum products contained 30% recycled scrap material, signed by Henry Kronfle, Vice-President.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 10-0426.09

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GREEN SUSTAINABLE ATTRIBUTES (GSA)

SCOPE: This document is solely for the purpose of verification of Sustainable Attributes of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division.

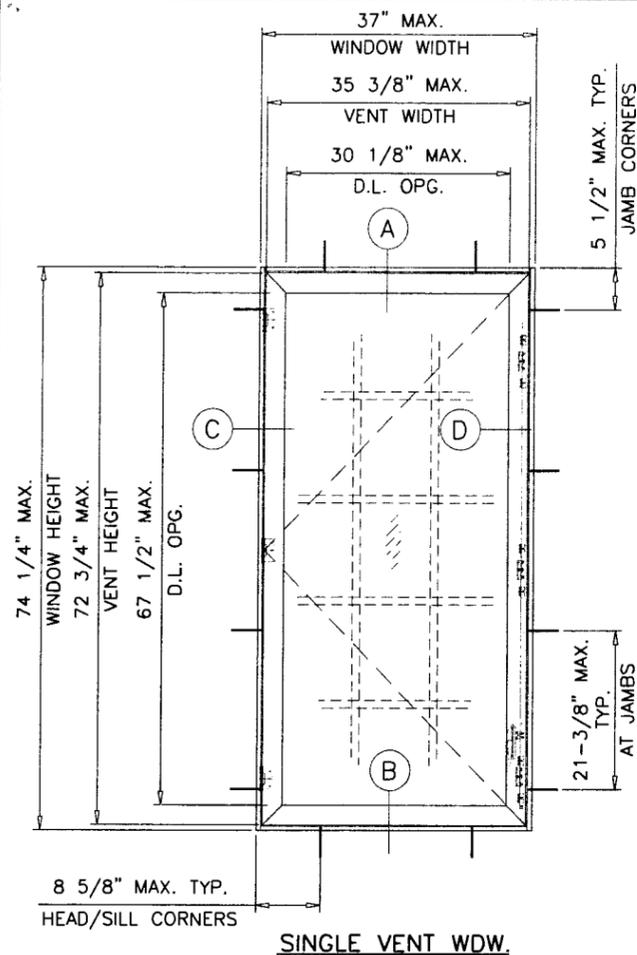
G.4 - RECYCLED CONTENT / BIO-BASED MATERIAL / RAPIDLY RENEWABLE MATERIAL				
<u>Component Name</u>	<u>% Recycled Content at Manuf.</u>	<u>% Recycled at Disposal</u>	<u>% Bio-based Material</u>	<u>% Renewable Material</u>
1. Window Aluminum	30%	100%	N/A	N/A

G.8 - U-FACTOR (THERMAL TRANSMITTANCE) BTU/HR-FT²-°F							
G.9 - SHGC-FACTOR (SOLAR HEAT GAIN COEFFICIENT) BTU/HR-FT²							
VT - VISIBLE LIGHT TRANSMITTANCE AT NORMAL INCIDENCE							
CR - CONDENSATION RESISTANCE							
ID#	Test Report#:	Product Number	Glazing Components:	G.8: U-Factor	G.9: SHGC	VT	CR
	Base line Product	000	5/32 CLR_240#2-SS-D_ARG_BRZ-1/8_090 PVB_1/8	0.62	0.19	0.19	17
1.	NCTL 110-12450-1	001	5/32 CLR_240#2-SS-D_ARG_BRZ-1/8_090 PVB_1/8	0.62	0.19	0.19	17
2.		002	5/32 CLR_240#2-SS-D_ARG_CLR-1/8_090 PVB_1/8	0.62	0.20	0.25	17
3.		003	5/32 CLR_240#2-SS-D_ARG_GRN-1/8_090 PVB_1/8	0.62	0.19	0.17	17
4.		004	5/32 CLR_240#2-SS-D_ARG_GRY-1/8_090 PVB_1/8	0.62	0.19	0.23	17

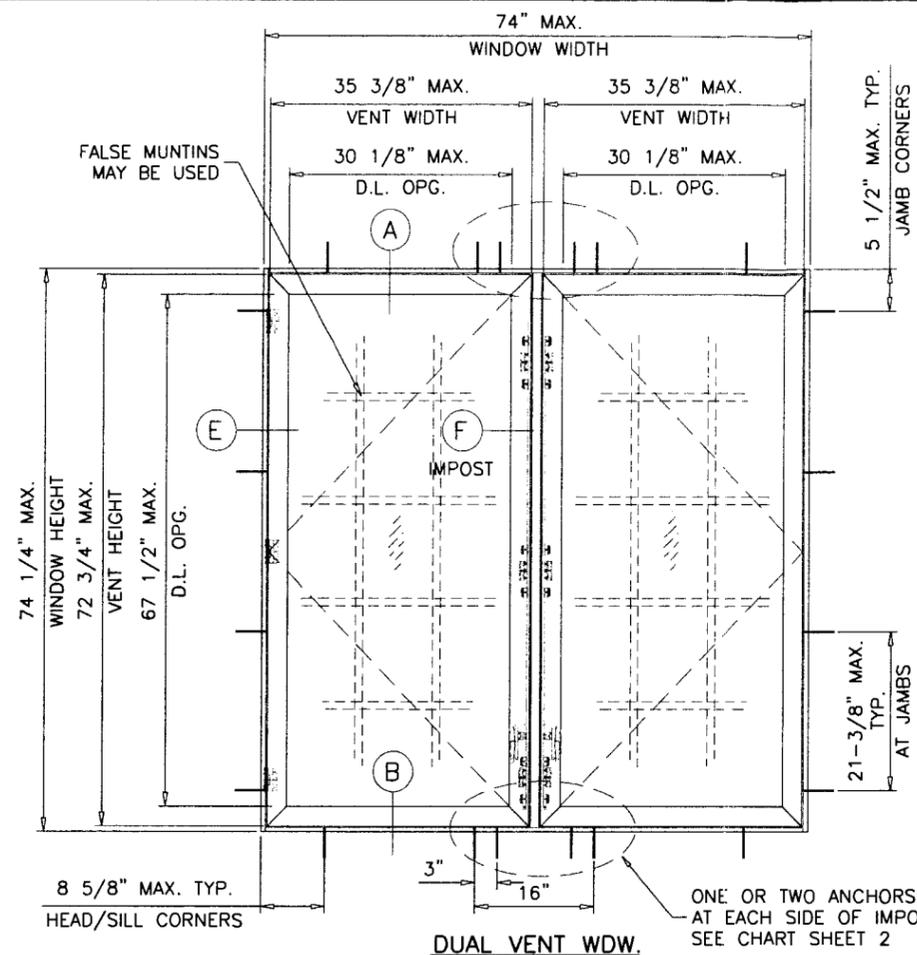
Legend	
Abreviation:	Description:
SS-D	Desiccant-Filled Stainless Steel Spacer
240#2	Cardinal Low E 240 @ #2 Surface Typical
ARG	90% Argon
PVB	.090" Poly Vinyl Butyral (PVB) interlayer
CLR	Clear Glass
BRZ	Bronze Tint Glass
GRN	Green Tint Glass
GRY	Gray Tint Glass

G.10 - C-FACTOR (THERMAL CONDUCTANCE) BTU/HR-FT²-°F	
<u>Component Name</u>	<u>C-Value</u>
1. Whole Window	1.94

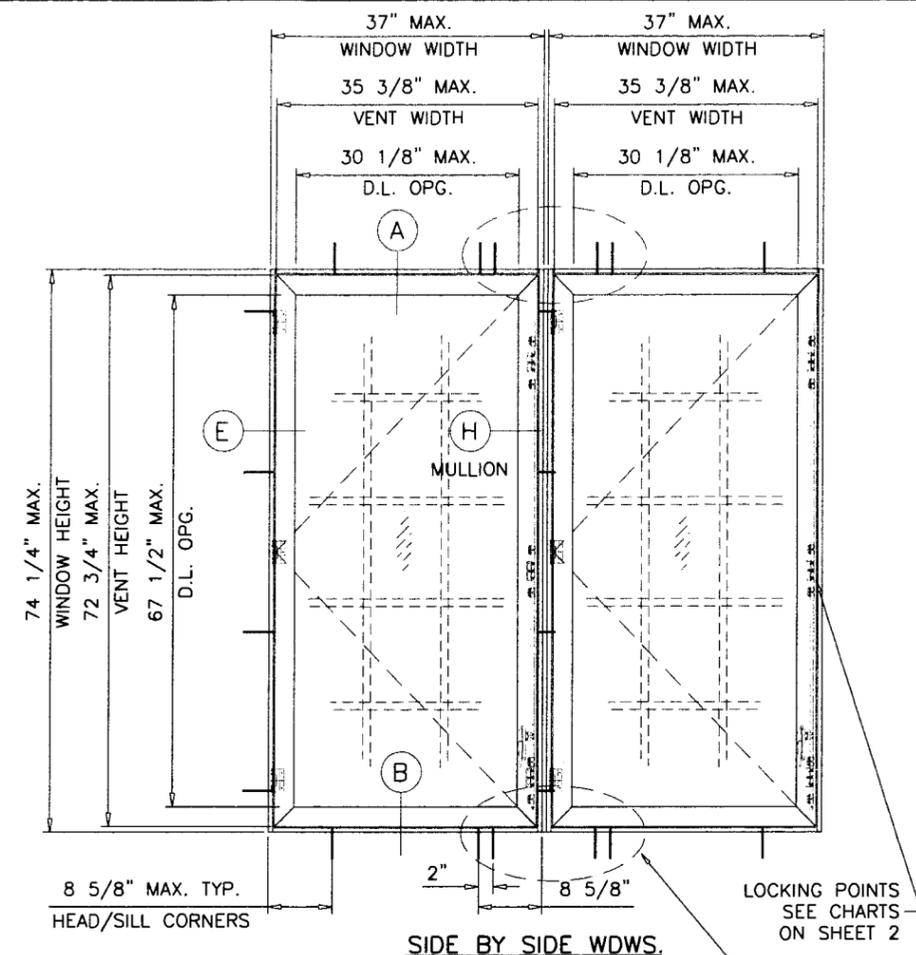

 Manuel Perez, P.E.
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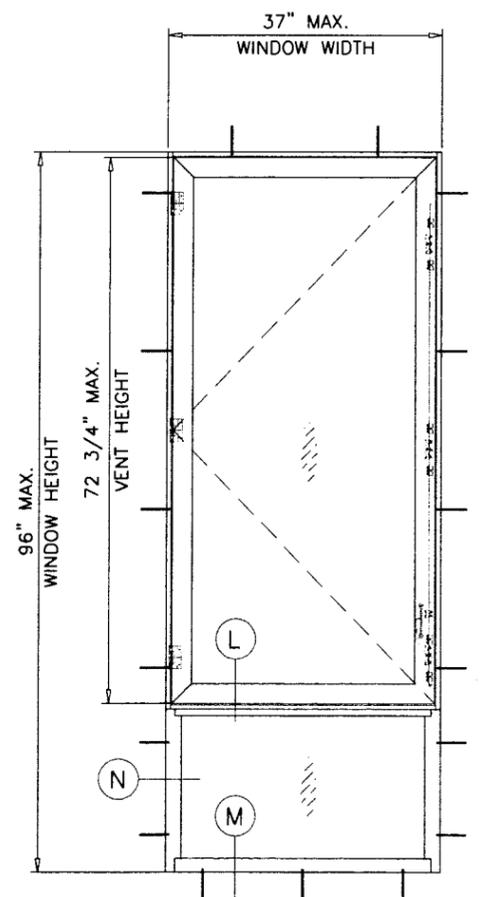
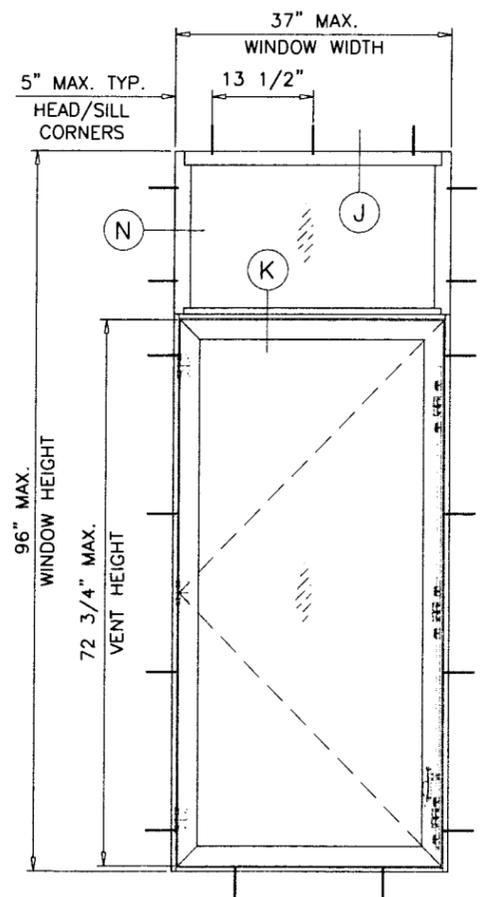
SINGLE VENT WDW.



DUAL VENT WDW.



SIDE BY SIDE WDWs.



CM100 OPERATING/FIXED ALUMINUM CASEMENT WINDOWS

APPROVAL APPLIES TO SINGLE VENT WINDOWS OR DUAL VENT WINDOWS USING INTEGRAL IMPOST.

ALSO TOP AND BOTTOM COMBINATIONS OF FIXED AND CASEMENT WINDOWS USING STACKING HEAD/SILL WITHOUT MULLION.

ALSO TO SIDE BY SIDE COMBINATIONS OF CASEMENT/FIXED, CASEMENT/CASEMENT OR WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING APPROVED MULLIONS.

RATING OF FIXED WINDOWS UNDER SEPARATE NOA.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

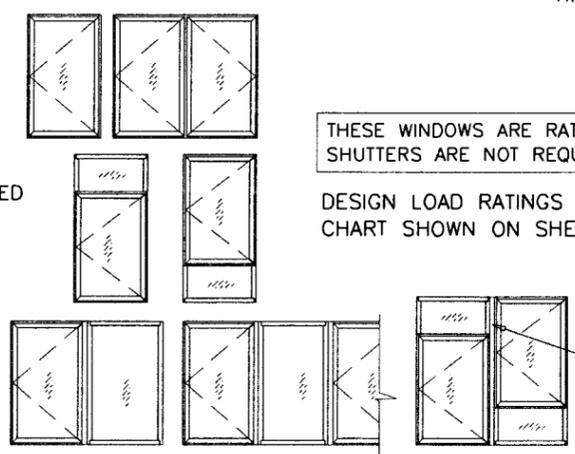
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.



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

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

MULLION CAPACITY FOR THIS OPTION SEE SEPARATE MULLION NOA

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

J.A.
JUL 1 2 2010

PRODUCT REVIEWED
as complying with the Florida Building Code
Assurance No. 10-0426-09
Expiration Date July 29, 2014

By *Manuel Perez*
Miami Dade Product Control Division

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W04-16RC

CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)
R.C. ALUMINUM INDUSTRIES INC.
2805 N.W. 75 TH AVE.
MIAMI, FL. 33122
TEL. (305) 592-1515 FAX. (305) 592-2184

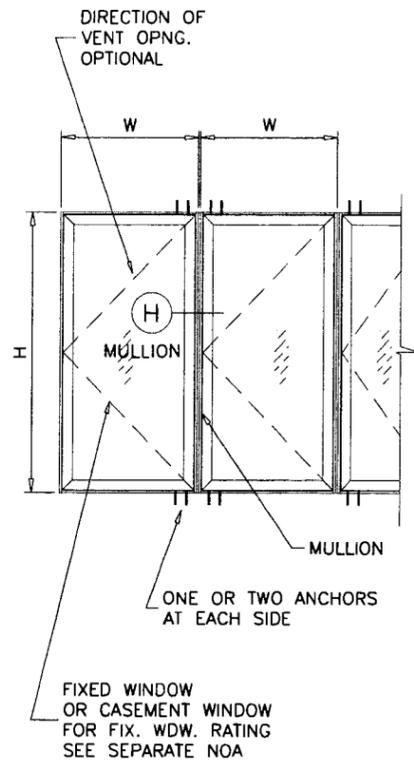
no.	date	description
A	09.21.06	UPDATED FOR 2004 FBC
B	09.19.08	UPDATED FOR 2007 FBC
C	12.01.09	NO CHANGE THIS SHEET
D	07.09.10	NO CHANGE THIS SHEET

revisions:

date: 03-01-04
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no. **W04-16**
sheet 1 of 7

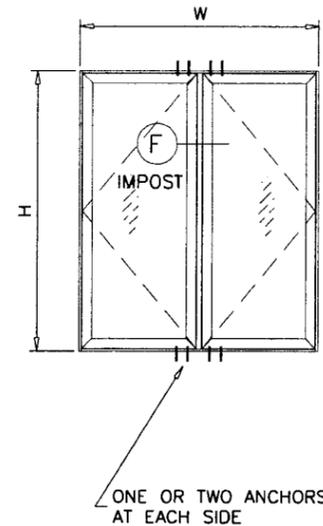
DESIGN LOAD CAPACITY - PSF SIDE BY SIDE SINGLE VENT WINDOWS				
WINDOW DIMS.		GLASS TYPES 'A' & 'B'		
		ONE ANCHOR AT EACH SIDE	TWO ANCHORS AT EACH SIDE	
WIDTH (W)	HEIGHT (H)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	
19-1/8"	38-3/8"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			80.0	
37"			80.0	
42"			80.0	
48"			80.0	
53-1/8"		78.8	80.0	
19-1/8"	48"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			80.0	
37"			80.0	
42"			79.7	80.0
48"			69.8	80.0
53-1/8"		63.0	80.0	
19-1/8"	50-5/8"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			80.0	
37"			80.0	
42"			75.6	80.0
48"			66.1	80.0
53-1/8"		59.8	80.0	
19-1/8"	60"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			80.0	
37"			72.4	80.0
42"			63.8	80.0
48"				
19-1/8"	63"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			80.0	
37"			68.9	80.0
42"			60.7	80.0
48"				
19-1/8"	66"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			80.0	
37"			65.8	80.0
42"				
48"				
19-1/8"	72"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			74.4	80.0
37"			60.3	72.8
42"				
48"				
19-1/8"	74-1/4"		80.0	
24"			80.0	
26-1/2"			80.0	
30"			72.1	78.4
37"			58.5	65.9
42"				
48"				



WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
29-1/4"	2	2
42"	3	2
44-1/4"	3	3
59-1/4"	4	3
74-1/4"	5	3

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

DESIGN LOAD CAPACITY - PSF DUAL VENTWINDOWS				
WINDOW DIMS.		GLASS TYPES 'A' & 'B'		
		ONE ANCHOR AT EACH SIDE	TWO ANCHORS AT EACH SIDE	
WIDTH (W)	HEIGHT (H)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	
37"	38-3/8"		80.0	
48"			80.0	
53-1/8"			80.0	
60"			80.0	
72"			80.0	
74"			80.0	
84"			80.0	
96"			80.0	
106-1/4"			78.8	80.0
37"		50-5/8"		80.0
48"			80.0	
53-1/8"			80.0	
60"			80.0	
72"			80.0	
74"			80.0	
84"			75.6	80.0
96"			66.1	80.0
106-1/4"			59.8	80.0
37"	60"			80.0
48"			80.0	
53-1/8"			80.0	
60"			80.0	
72"			74.4	80.0
74"			72.4	80.0
84"			63.8	80.0
96"			66.1	80.0
106-1/4"			59.8	80.0
37"		63"		80.0
48"			80.0	
53-1/8"			80.0	
60"			80.0	
72"			70.9	80.0
74"			68.9	80.0
84"			60.7	80.0
96"			66.1	80.0
106-1/4"			59.8	80.0
37"	66"			80.0
48"			80.0	
53-1/8"			80.0	
60"			80.0	
72"			67.6	80.0
74"			65.8	80.0
84"			60.7	80.0
96"			66.1	80.0
106-1/4"			59.8	80.0
37"		72"		80.0
48"			80.0	
53-1/8"			80.0	
60"			74.4	80.0
72"			62.0	80.0
74"			60.3	80.0
84"			60.7	80.0
96"			66.1	80.0
106-1/4"			59.8	80.0
37"	74-1/4"			80.0
48"			80.0	
53-1/8"			80.0	
60"			72.1	80.0
72"			60.1	80.0
74"			58.5	80.0
84"			60.7	80.0
96"			66.1	80.0
106-1/4"			59.8	80.0



WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
42"	2	2
74-1/4"	3	3

DESIGN LOAD CAPACITY - PSF SINGLE VENT WINDOWS		
WINDOW DIMS.		GLASS TYPES 'A' & 'B'
WIDTH (W)	HEIGHT (H)	EXT.(+) & INT.(-)
19-1/8"	48"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"	50-5/8"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"	60"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"	63"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"	66"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"	72"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"	74-1/4"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0

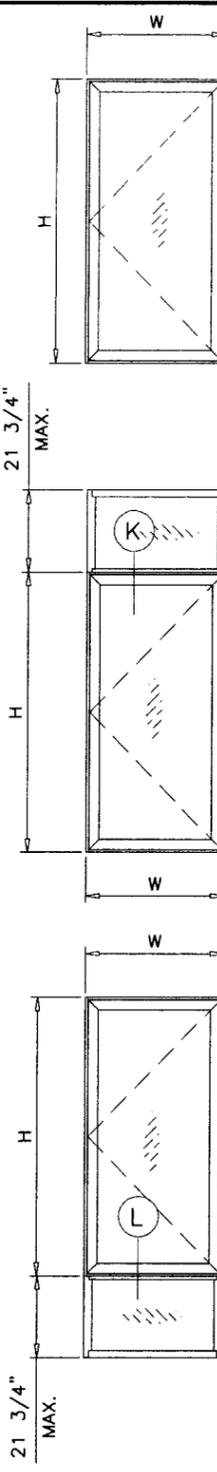
WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
42"	2	2
74-1/4"	3	3

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

JAVAD AHMAD

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Approval No. 10-0426-09
Expiration Date July 29, 2014
By *Manuel Perez*
R.C. Aluminum Industries Inc.
Division



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AL-FAROOQ CORPORATION
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL W04 - 16RC

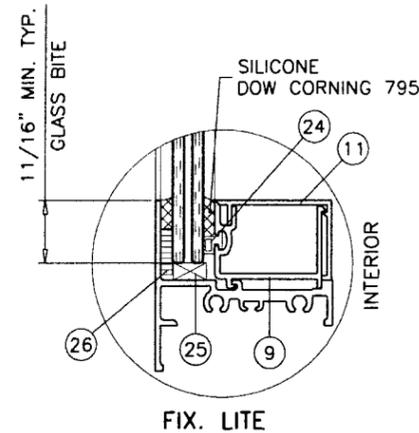
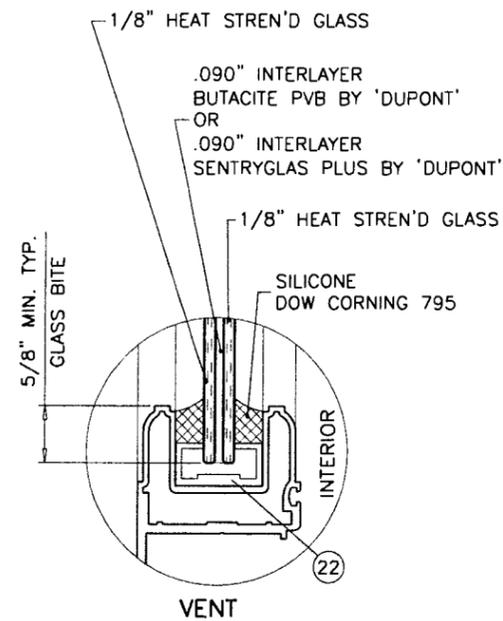
CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)

R.C. ALUMINUM INDUSTRIES INC.
2805 N.W. 75 TH AVE.
MIAMI, FL. 33122
TEL. (305) 592-1515 FAX. (305) 592-2184

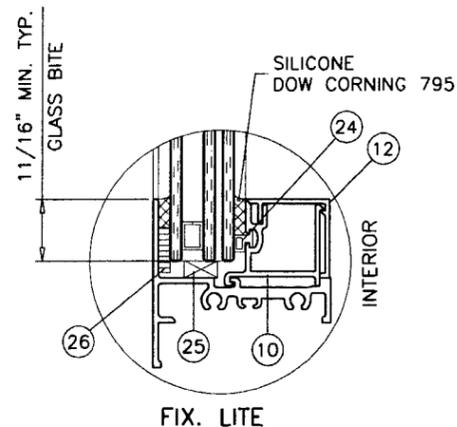
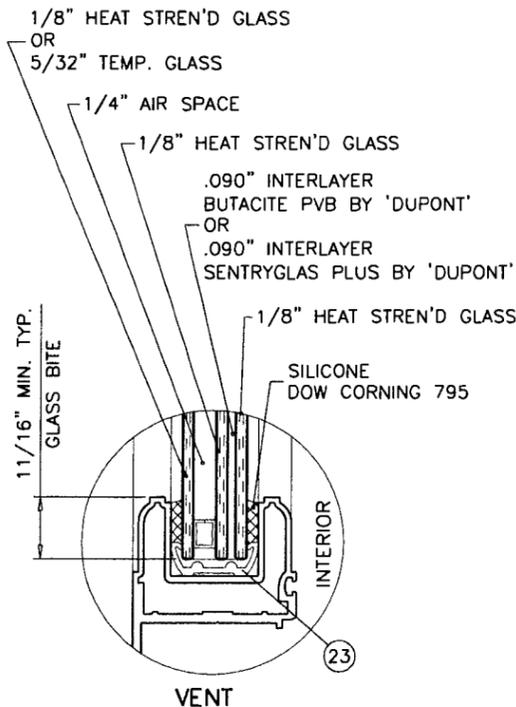
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dr. by: HAMID
chk. by:

drawing no.
W04-16
sheet 2 of 7



GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

NOTE:
IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPE 'B' MUST BE TEMPERED.

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPLIER/REMARKS
1	CM100-001	2/ WDW	FRAME JAMB	6063-T6	-
2	CM100-002	2/ WDW	FRAME HEAD AND SILL	6063-T6	-
3	CM100-007	AS REQD.	FRAME JAMB (FIX.)	6063-T6	FOR FIXED WINDOW
4	CM100-008	AS REQD.	HORIZ. IMPOST	6063-T6	FOR FIXED WINDOW
5	CM100-012	AS REQD.	JAMB ANCHOR CLIP	6063-T6	-
6	CM100-013	AS REQD.	VENT HINGE	6005-T5	INSTALLED WITH (3) #10 X 3/8" MS
7	CM100-014	AS REQD.	FRAME HINGE	6005-T5	INSTALLED WITH (2) #10 X 3/8" MS
8	CM100-015	AS REQD.	FRAME HEAD/SILL (FIX.)	6063-T6	FOR FIXED WINDOW
9	CM100-016	4/ WDW	GLAZING BEAD (LAM. GLASS)	6063-T6	FOR FIXED WINDOW
10	CM100-017	4/ WDW	GLAZING BEAD (LAM. INS. GLASS)	6063-T6	FOR FIXED WINDOW
11	CM100-018	4/ WDW	SNAP COVER (LAM. GLASS)	6063-T6	FOR FIXED WINDOW
12	CM100-019	4/ WDW	SNAP COVER (LAM. INSUL. GLASS)	6063-T6	FOR FIXED WINDOW
13	CM100-032	AS REQD.	VERTICAL IMPOST	6063-T6	-
14	CM100-021	2/ IMPOST	ANCHOR CLIP FOR VERTICAL IMPOST	6063-T6	-
15	CM100-022	-	ANCHOR ARM OPERATOR	6063-T6	-
16	-	AS REQD.	SCREENS	ALUMINUM	OPTIONAL
19	CM100-026	4	VENT FRAME	6063-T6	-
20	CM100-027	1/ CORNER	CORNER LOCK	6063-T6	-
21	V-033	AS REQD.	TREMCO TR-5804N SPONGE	NEOPRENE	-
22	P-049	AS REQD.	GLAZING INSERT	PVC RIGID	-
23	V-055	AS REQD.	VINYL FOR LAM. INSUL. GLASS - VENT	PVC	-
24	V-059	AS REQD.	VINYL FOR LAM. & LAM. INSUL. GLASS (FIX.)	PVC	-
25		AS REQD.	3/16" X 3/8" X 4" LG. SETTING BLOCK	-	-
26		AS REQD.	1/8" X 1/2" SINGLE FACE TAPE	-	-
27	P-025	-	PLASTIC CAM M & M	NYLON	-
30	CD25 & CD35	-	SINGLE ARM OPERATOR	ST. STEEL	ROTO HARDWARE SYSTEMS
31	-	-	-	-	-
32	LB05-6645	-	3 POINT LOCK ASSEMBLY	-	ROTO HARDWARE SYSTEMS
33	GT553	-	GUIDE HOUSING	-	ATTACHED W/ (3) #8 X 3/4" SMS
34	GS001	-	STRIKER	-	ATTACHED W/ (3) #8 X 1/2" SMS
35	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREW	ST. STEEL	PH PHL. SMS
36	#10 X 1/2"	2/ CORNER	VENT ASSEMBLY SCREWS	ST. STEEL	FH PHL. SMS
37	#10 X 3/4"	4/ CORNER	IMPOST ASSEMBLY SCREWS	ST. STEEL	PH PHL. SMS
38	#10 X 3/4"	2/ SIDE	IMPOST ASSEMBLY SCREWS	ST. STEEL	FH PHL. SMS

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By *Manuel Perez*
Missile Dete Product Control
Division

afC

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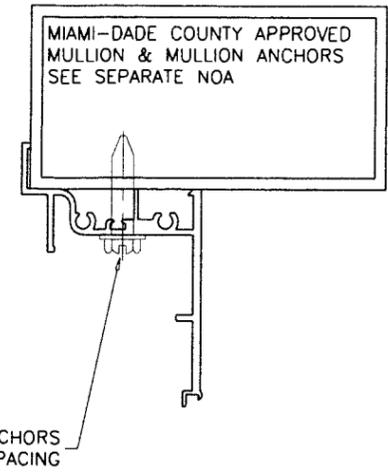
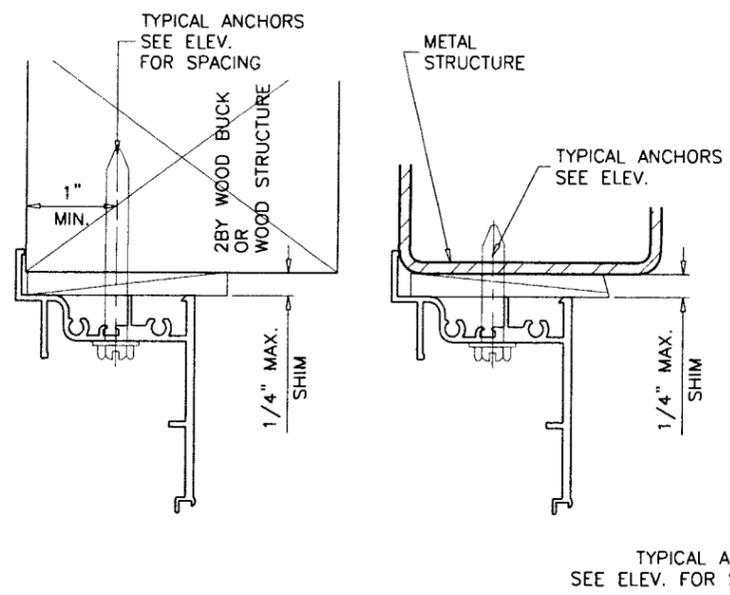
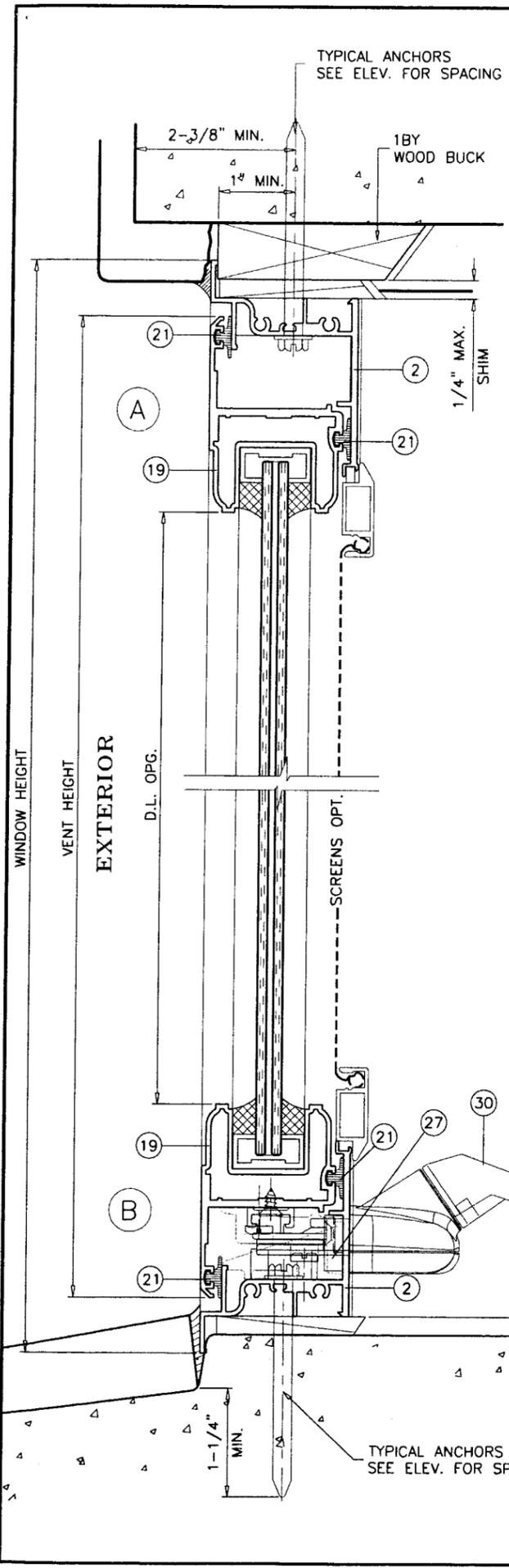
CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)

R.C. ALUMINUM INDUSTRIES INC.
2805 N.W. 75 TH AVE.
MIAMI, FL. 33122
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revisions:	no	date	by	description
	A	09.21.06		UPDATED FOR 2004 FBC
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dr. by: HAMID
chk. by:

drawing no.
W04-16
sheet 3 of 7



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
1/4" HILTI KWIK-CON II (Fu=163 KSI, Fy=157 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

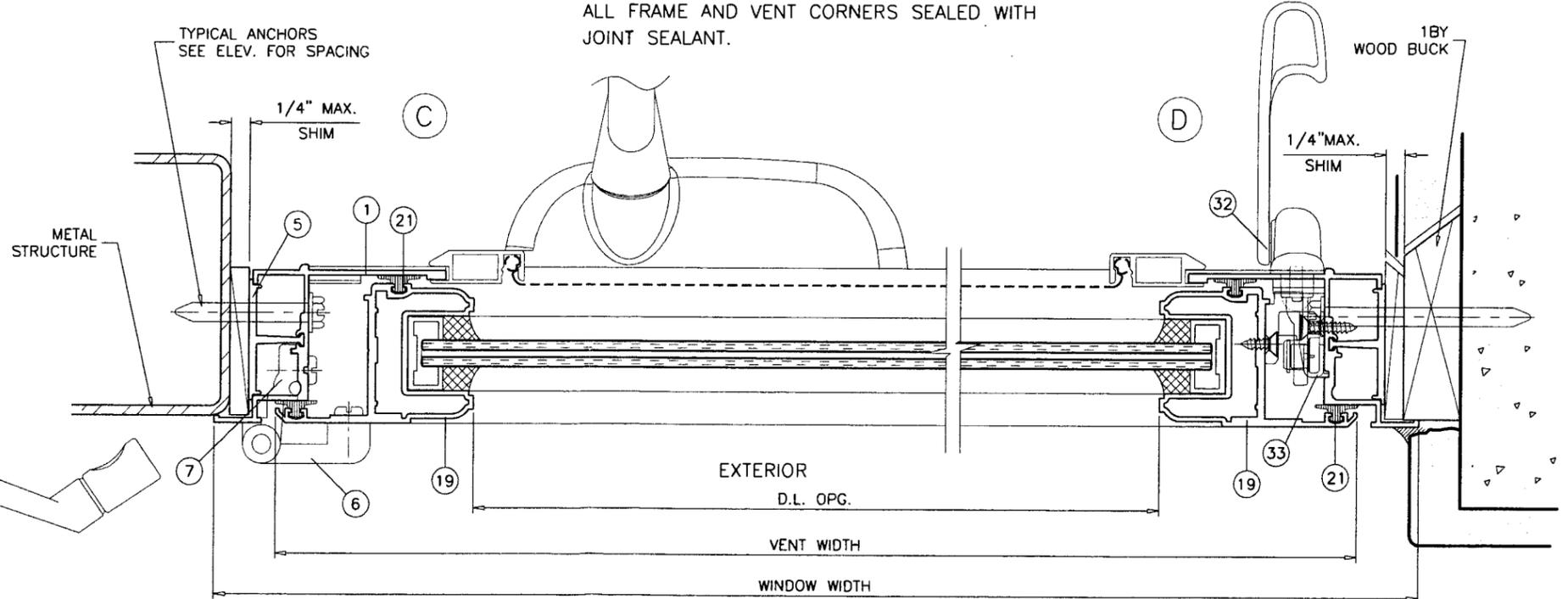
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 (NO SHIM SPACE)

ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 2-3/8" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 1500 PSI MIN.

SEALANTS:
 ALL FRAME AND VENT CORNERS SEALED WITH
 JOINT SEALANT.



SINGLE VENT WINDOWS

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

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

J.A.
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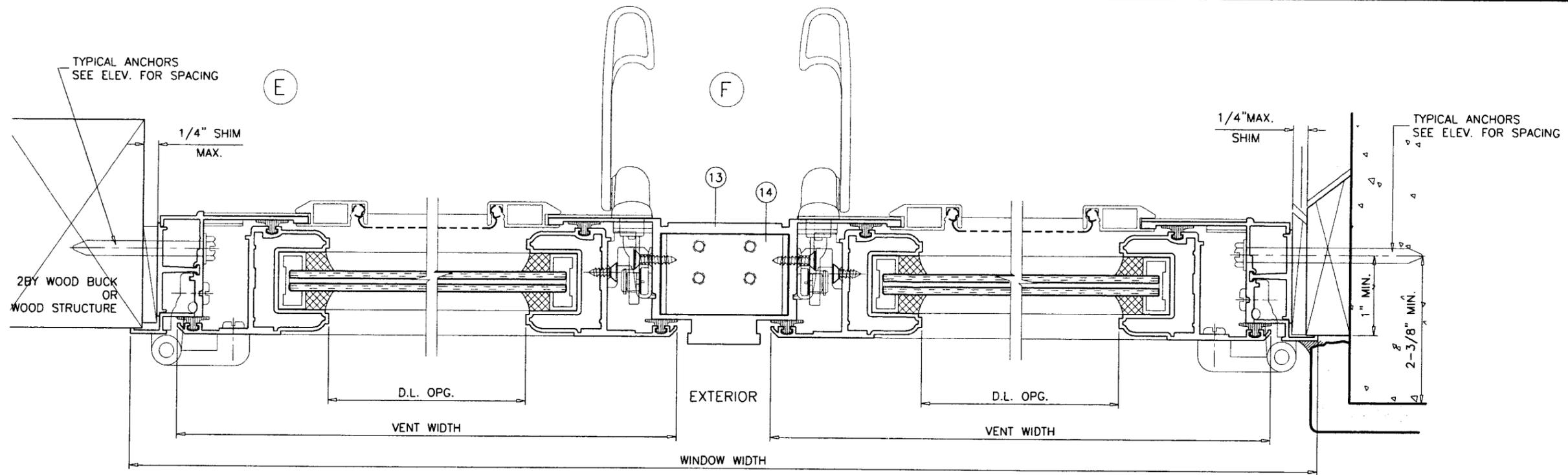
By *Manuel Perez*
 Miami Dade Product Control
 Division

a f c
AL-FAROOQ CORPORATION
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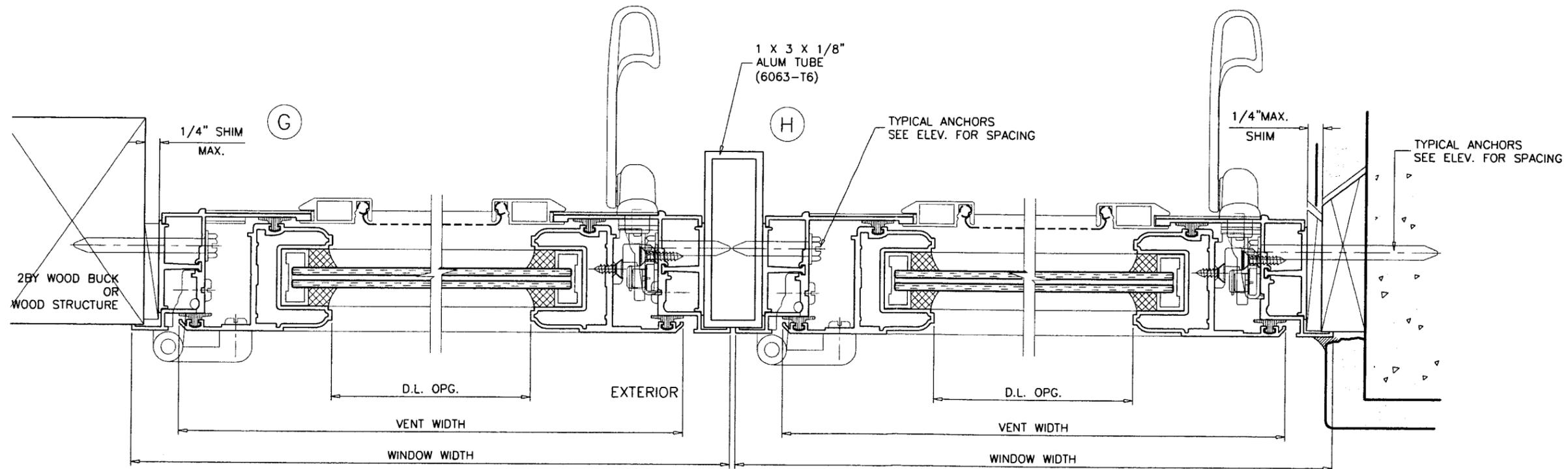
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 sheet 4 of 7



DUAL VENT WINDOWS



SIDE BY SIDE WINDOWS

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

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By *Maureen Perez*
Miami Dade Product Control
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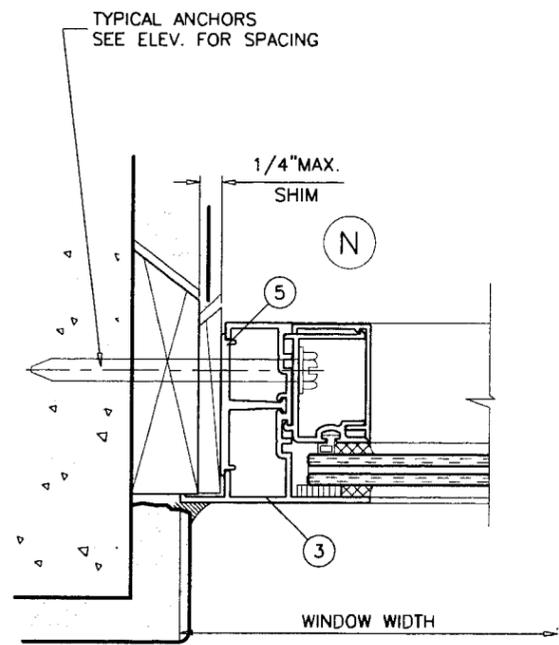
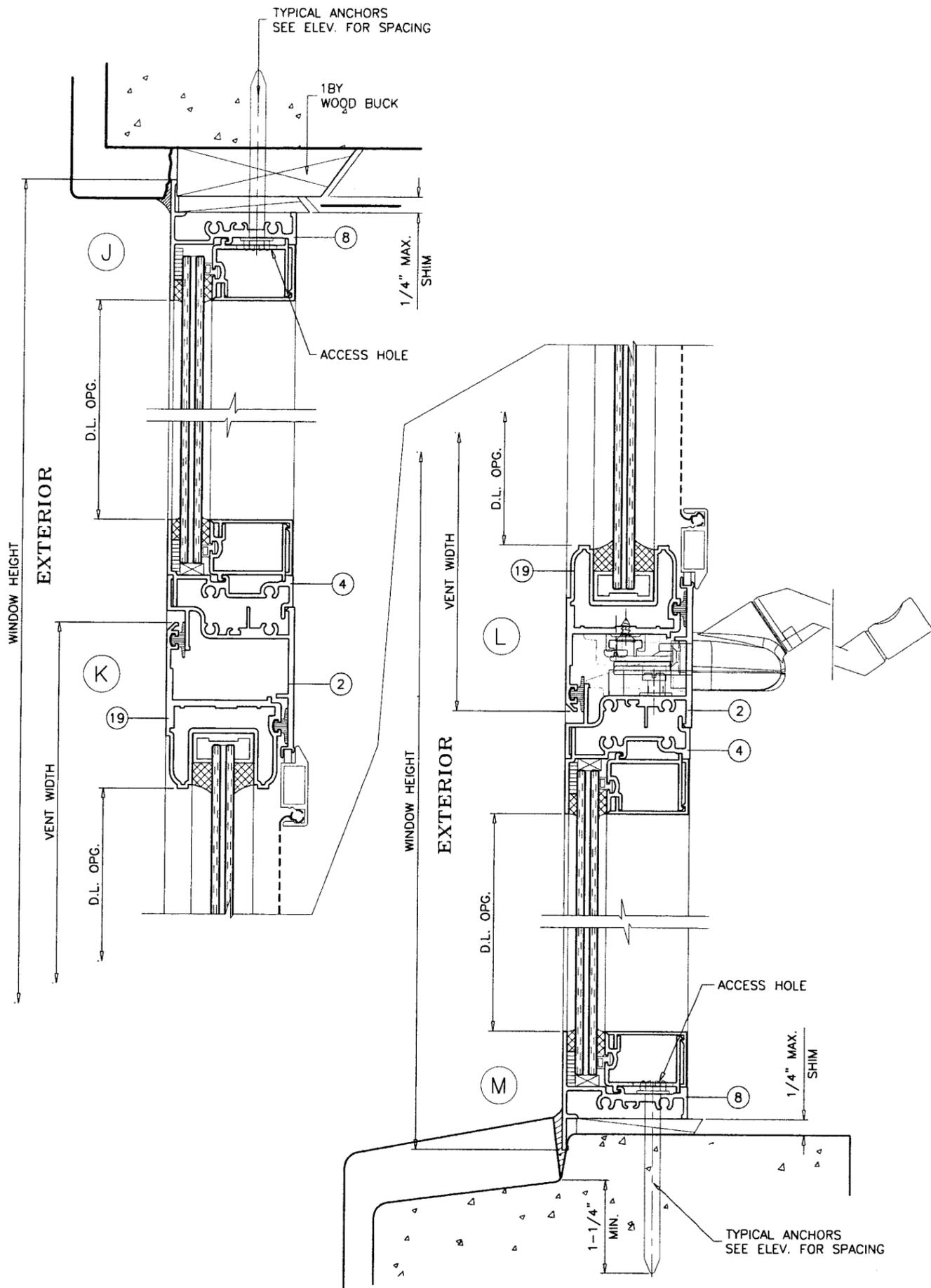
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By *Manuel Perez*
 (Miami/Buck Product Control)
 Division

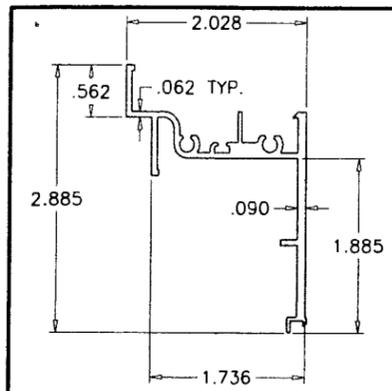
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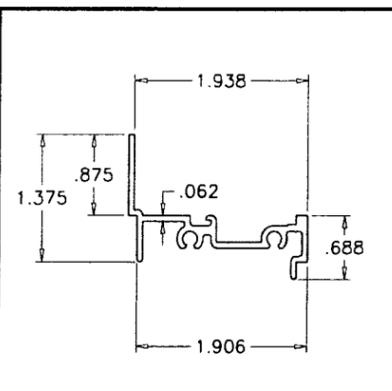
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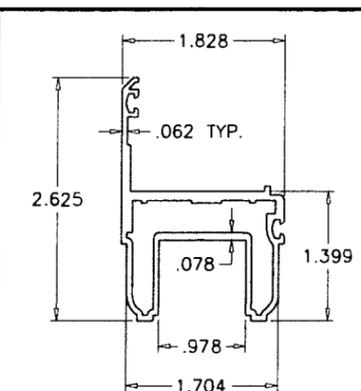
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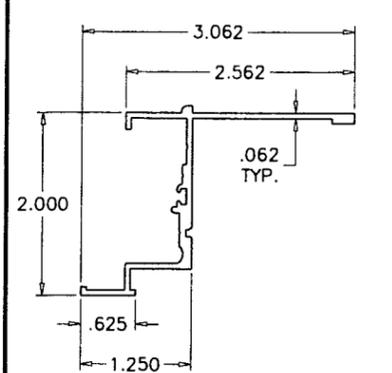
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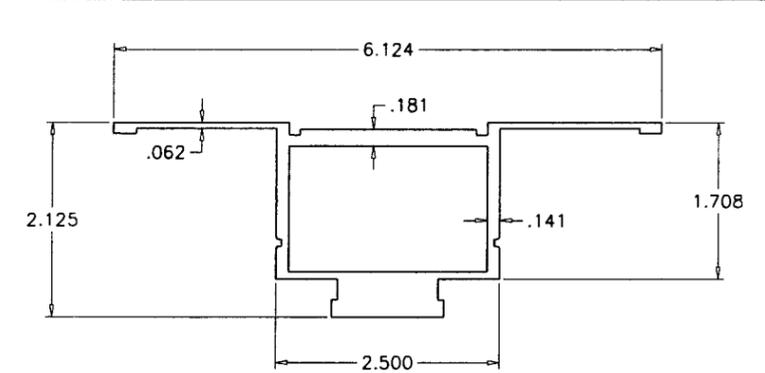
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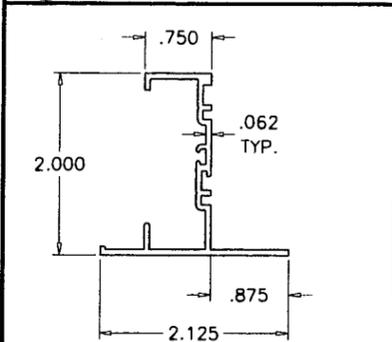
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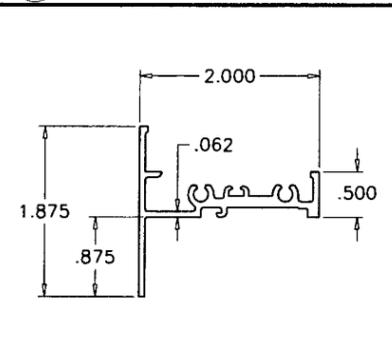
1 FRAME JAMB



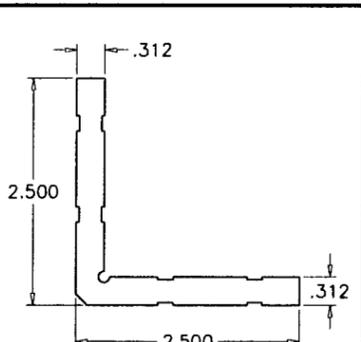
13 VERT. IMPOST



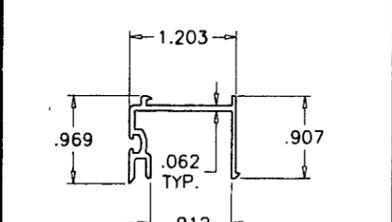
3 FRAME JAMB (FIX.)



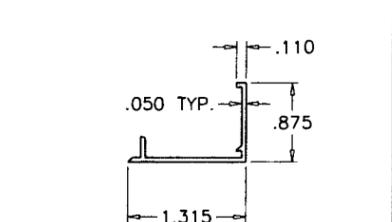
8 FRAME HEAD/SILL (FIX.)



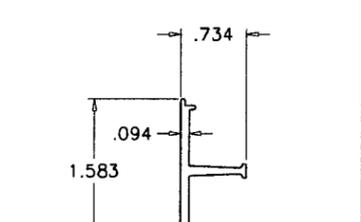
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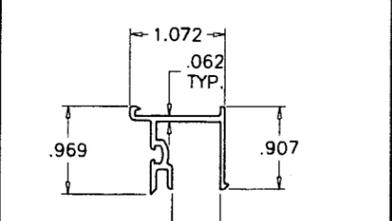
9 GLASS STOP (FIX. LAM. GL.)



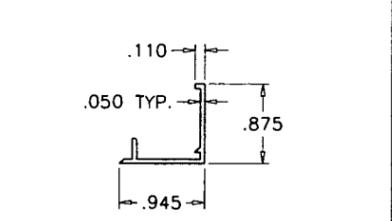
11 SNAP COVER (FIX. LAM. GL.)



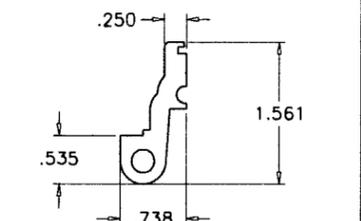
5 JAMB ANCHOR CLIP



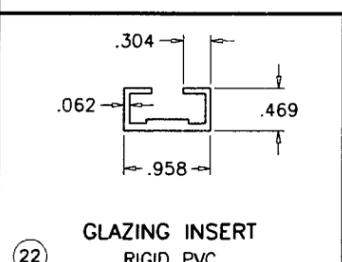
10 GLASS STOP (FIX. LAM. INSUL. GL.)



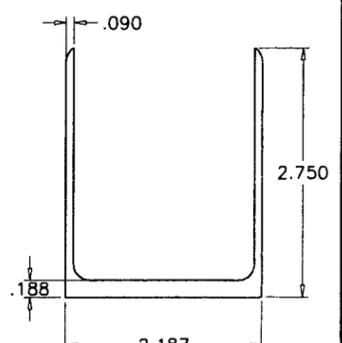
12 SNAP COVER (FIX. LAM. INSUL. GL.)



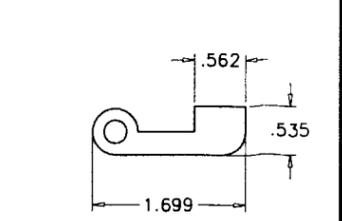
7 FRAME HINGE



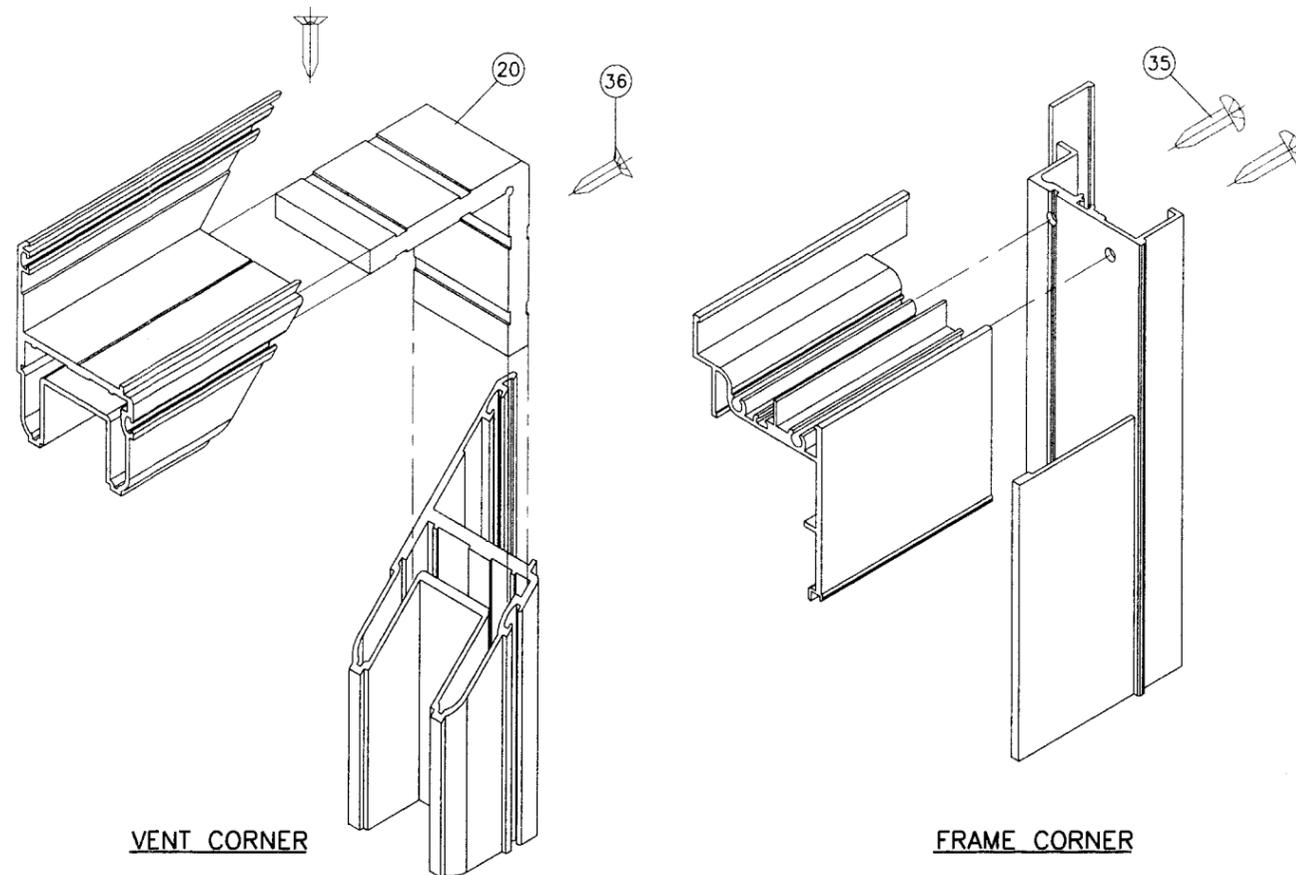
22 GLAZING INSERT RIGID PVC



14 IMPOST ANCHOR CLIP

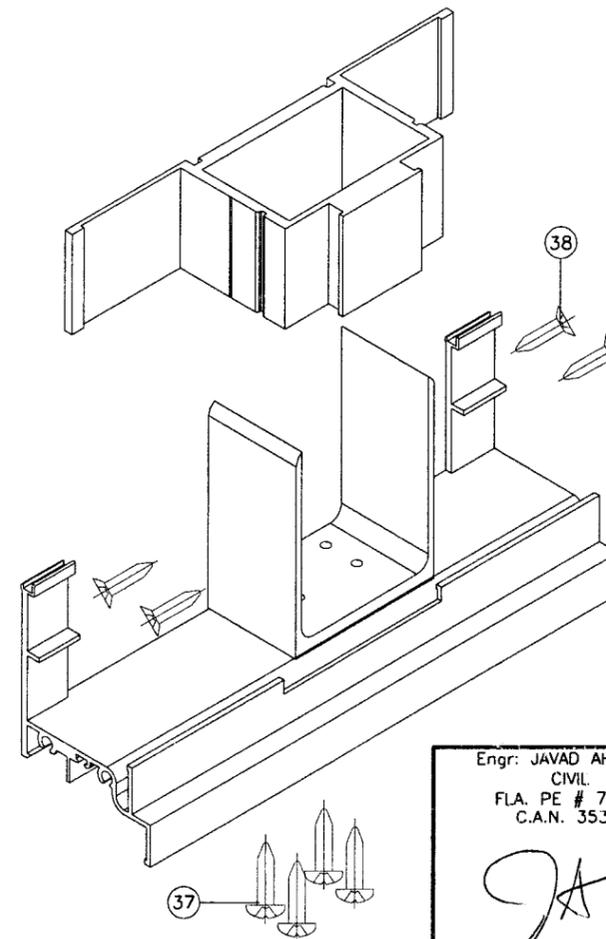


6 VENT HINGE



VENT CORNER

FRAME CORNER



IMPOST CORNER

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Miami, Florida Product Control
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