



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
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/

CGI Windows & Doors

10100 NW 25 Street

Miami, Fl. 33172

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 "238" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W98-100**, titled "Series-238 Aluminum Casement Window", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 9, dated 12/04/98, prepared by Al-Farooq Corporation, with the latest revision "F" dated 02/21/12, 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.

LIMITATIONS: Glass lites wider than 36" shall have two setting blocks per FBC requirements.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. **08-1010.02** and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



J. Gascon
5/21/12

NOA No. 12-0229.08
Expiration Date: October 26, 2013
Approval Date: May 10, 2012
Page 1

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 08-1010.02, 01-1002.03 and 96-0417.03)
2. Drawing No. **W98-100**, titled "Series-238 Aluminum Casement Window", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 9, dated 12/04/98, prepared by Al-Farooq Corporation, with the latest revision "F" dated 02/21/12, 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) Forced Entry Test, Type "B-A" outswing casement window, Grade 10, Level LV 1 per ASTM F 588-04, AAMA 1304-02 and per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of alum. casement window, prepared by Hurricane Testing Lab., Inc., Test Reports No.'s **HTL-0080-0301-07** for specimen **A** and **B** and **HTL-0080-0905-07** for specimen **B** and **C**, dated 09/21/07 and 10/12/06, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 08-1010.02)
2. 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 outswing casement window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s **HETI-08-2143**, **HETI-08-2144**, **HETI-08-4287** and **HETI-07-4298**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P. E.
(Submitted under previous NOA No. 08-1010.02)
3. Test reports on:
 - 1) Large Missile Impact Test, Loading per SFBC, PA 201-94
 - 2) Cyclic Wind Pressure Loading, per SFBC, PA 203-94along with marked-up drawings and installation diagram of alum. casement window, prepared by Hurricane Test Laboratory, Inc., Test Reports No.'s **HTL-0080-0303-96** and **HTL-0080-1107-98**, dated 03/06/96 and 11/10/98, both signed and sealed by Timothy S. Marshall, P. E.
(Submitted under previous NOA No. 96-0417.03 and 01-1002.03)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0229.08
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CGI Windows & Doors

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B. TESTS (CONTINUED)

4. Test reports on:
- 1) Air Infiltration Test, per ASTM E283 and SFBC, PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
 - 3) Water Resistance Test, per ASTM E547, ASTM E331 and SFBC, PA 202-94
 - 4) Forced Entry Test, Type "B-A" outswing casement window, Grade 10, Level LV 1 per ASTM F 588-94, AAMA 1302.5-76 and per SFBC, PA 202-94
 - 5) Standard Test Methods for Deglazing Force of Fenestration Products per ASTM E 987-88
 - 6) Standard Test Method for Determination of Operating Force of Windows and Doors per ASTM E 2068-94

along with marked-up drawings and installation diagram of alum. casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-1003** and **FTL-1041**, dated 10/14/94, both signed and sealed by Yamil Kuri, P.E.

(Submitted under previous NOA No. 96-0417.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 02/22/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.
2. **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 Sentry Glass® Interlayer**" dated 05/26/10, expiring on 01/14/17.
3. Notice of Acceptance No. **11-0325.05** issued to Solutia Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16.
4. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites used for lamination of glass**" dated 7/17/2008, expiring on 12/11/2013.

F. STATEMENTS

1. Statement letter of no financial interest, conformance and compliance with the FBC-2010, dated 11/15/11, signed and sealed by Javad Ahmad, P. E.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
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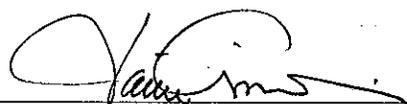
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F. STATEMENTS (CONTINUED)

2. Laboratory compliance letters for Test Reports No.'s **HTL-0080-0301-07** for specimen A & B and **HTL-0080-0905-07** for specimen B and C, issued by Hurricane Test Laboratory, Inc., dated 09/21/07 and 10/12/06, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 08-1010.02)
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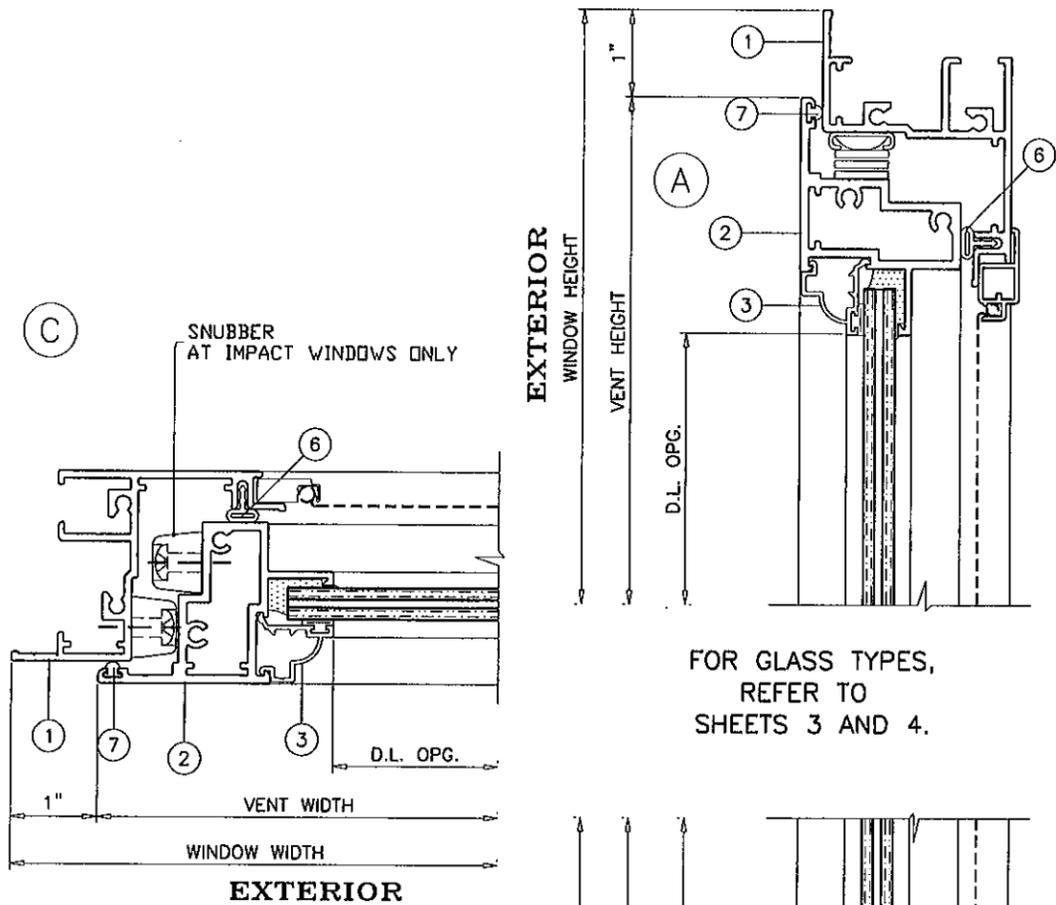
G. OTHERS

1. Notice of Acceptance No. **08-1010.02**, issued to CGI Windows & Doors for their Series "238 Outswing Aluminum Casement Window-L.M.I.", approved on 12/11/08 and expiring on 10/26/13.

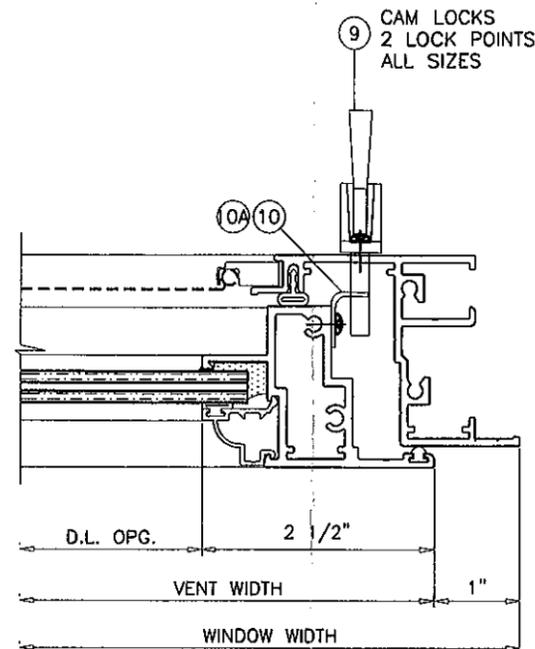


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Product Control Section Supervisor
NOA No. 12-0229.08
Expiration Date: October 26, 2013
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**GENERAL WINDOW SECTIONS
FLANGE FRAME**

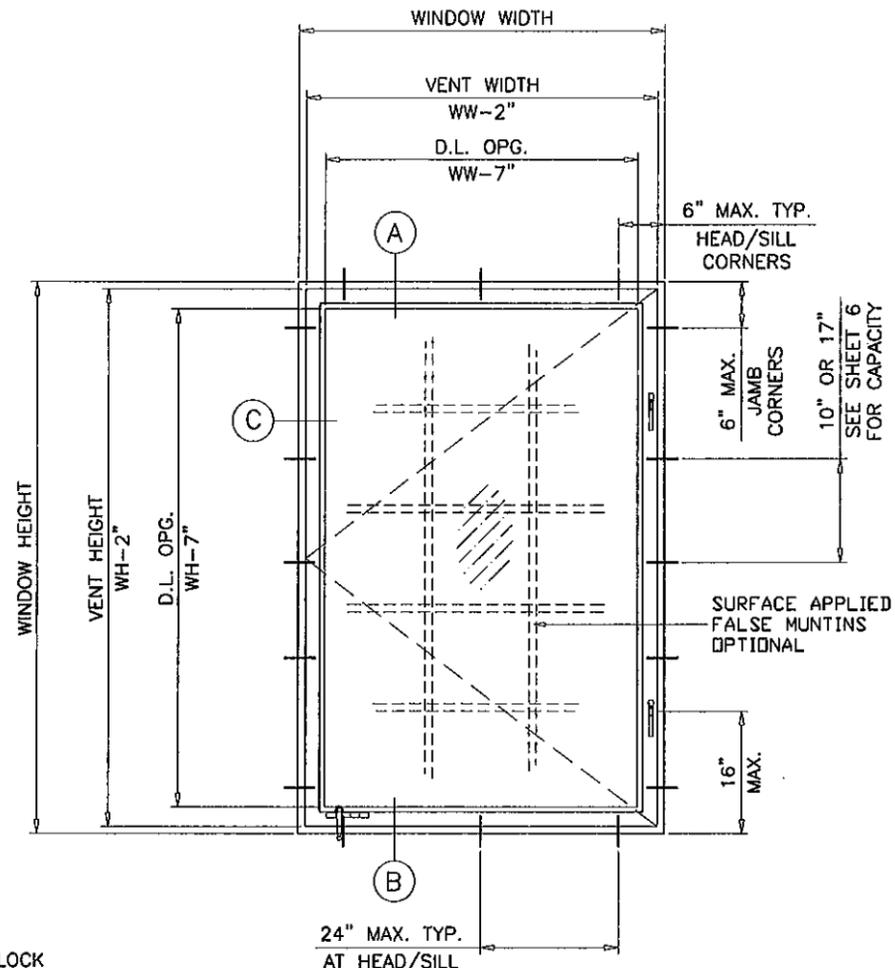


FOR GLASS TYPES,
REFER TO
SHEETS 3 AND 4.



MAX. WDW. HEIGHT	LOCK POINTS
42"	2
63"	3
84"	4

9A MAXIM MULTI POINT LOCK
BY 'TRUTH'
ALT. TO CAM LOCKS



**TYPICAL ELEVATION
(FLANGE FRAME)**

FOR MULLION/MULTIPLE UNITS, REFER TO
SEPARATE CGI MULLION N.O.A.

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

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 SHEETS 3 AND 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE/TYPE.
- STEP 3** USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** IF ALUMINUM BUCK SYSTEM IS USED USE CHART ON SHEET 7 TO DETERMINE CAPACITY.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NOTES:

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.

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **12-0229-08**
Expiration Date **10/26/2013**
By Miami Dade Product Control

FEB 22 2012

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\W98-100CGI

SERIES-238 ALUMINUM CASEMENT WINDOW
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

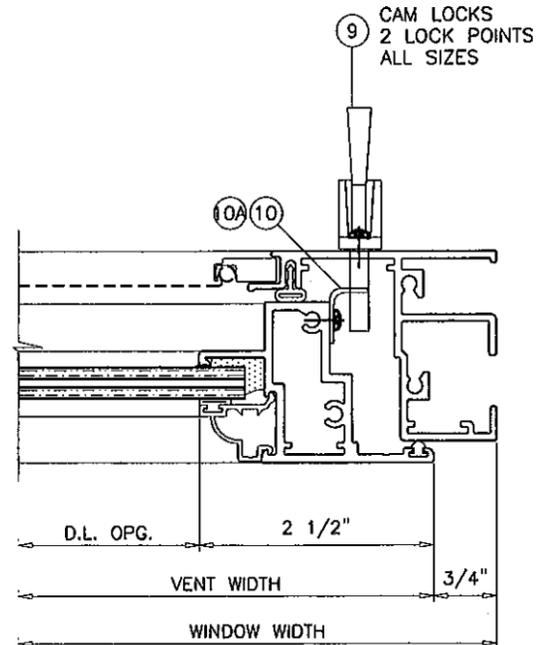
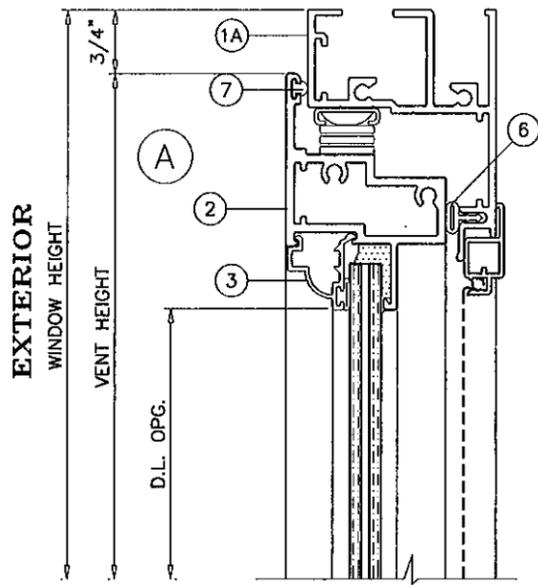
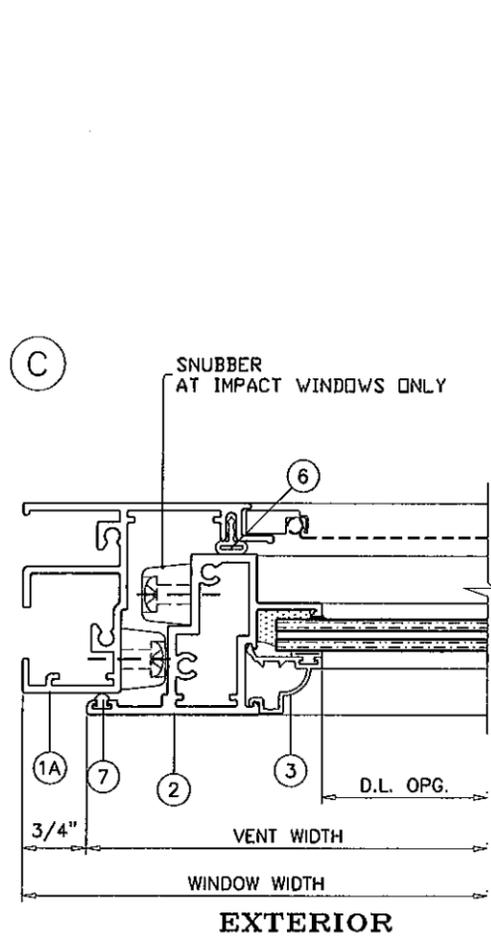
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D	01.15.08		NO CHANGE THIS SHEET
E	06.25.08		GENERAL REV.
F	02.21.12		UPDATED TO 2010 FBC

revisions:

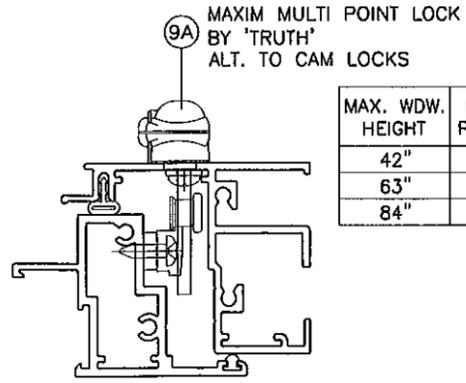
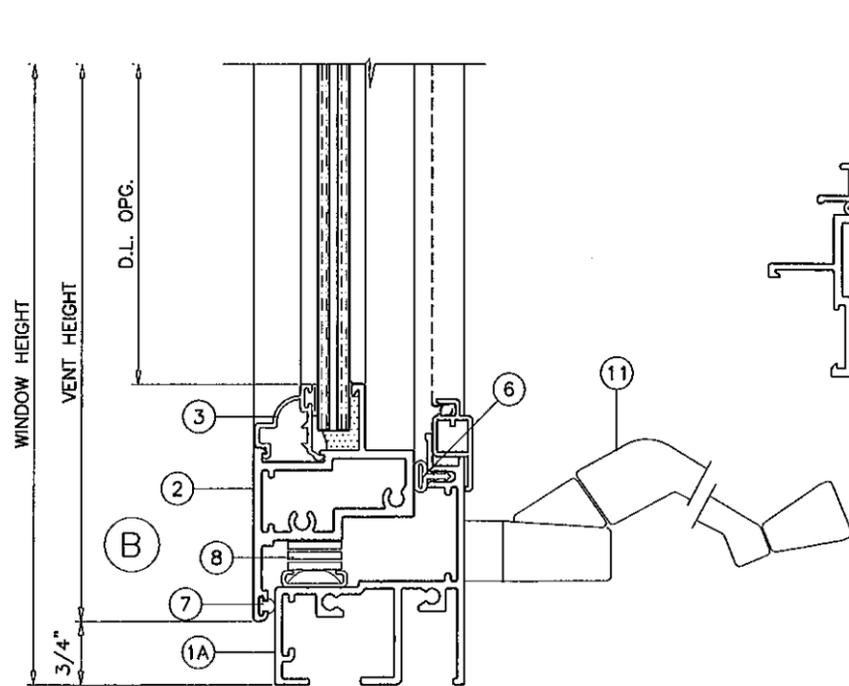
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dr. by: HAMID
chk. by:

drawing no. **W98-100**
sheet 1 of 7

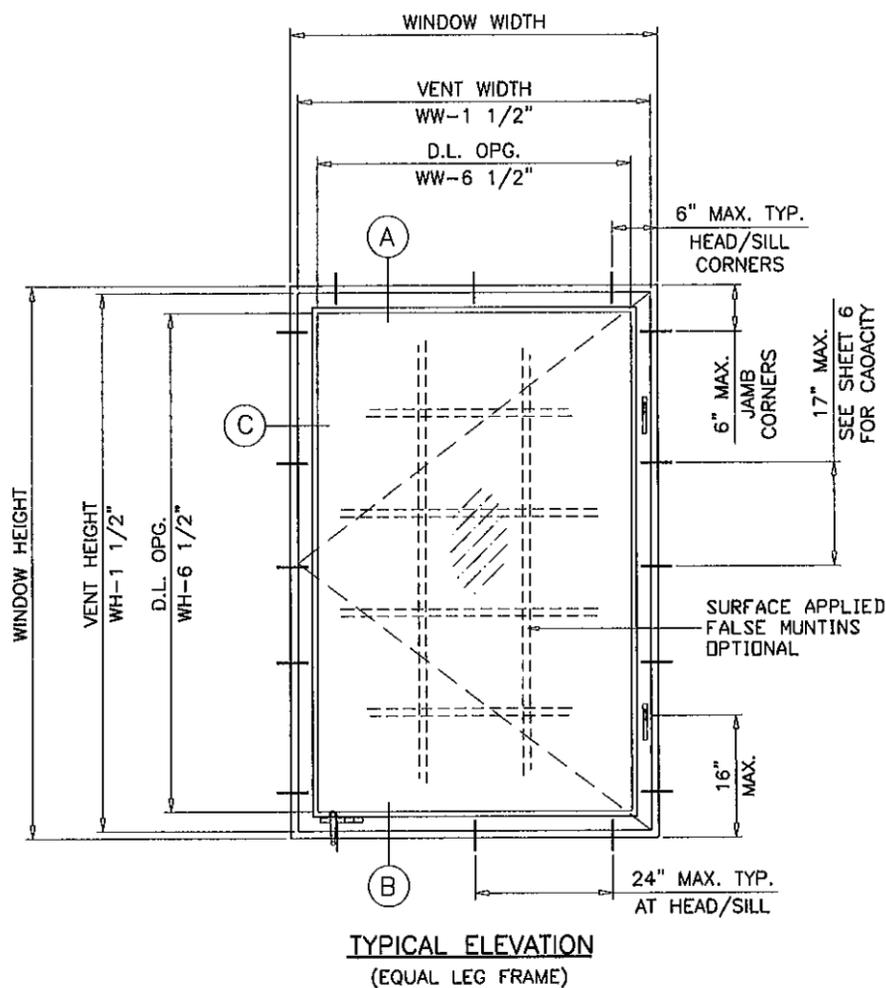
**GENERAL WINDOW SECTIONS
EQUAL LEG FRAME**



FOR GLASS TYPES,
REFER TO
SHEETS 3 AND 4.



MAX. WDW. HEIGHT	LOCK POINTS
42"	2
63"	3
84"	4



af c
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COMP-ANL \ W98 - 100CGI

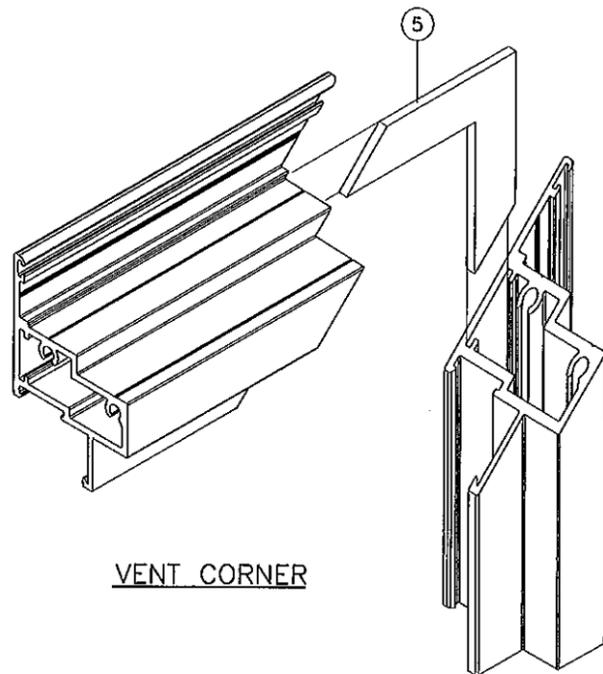
SERIES-238 ALUMINUM CASEMENT WINDOW
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10100 N.W. 25TH STREET
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revisions:	no	date	by	description
	E	08.25.08		GENERAL REV.
	F	02.21.12		NO CHANGE THIS SHEET

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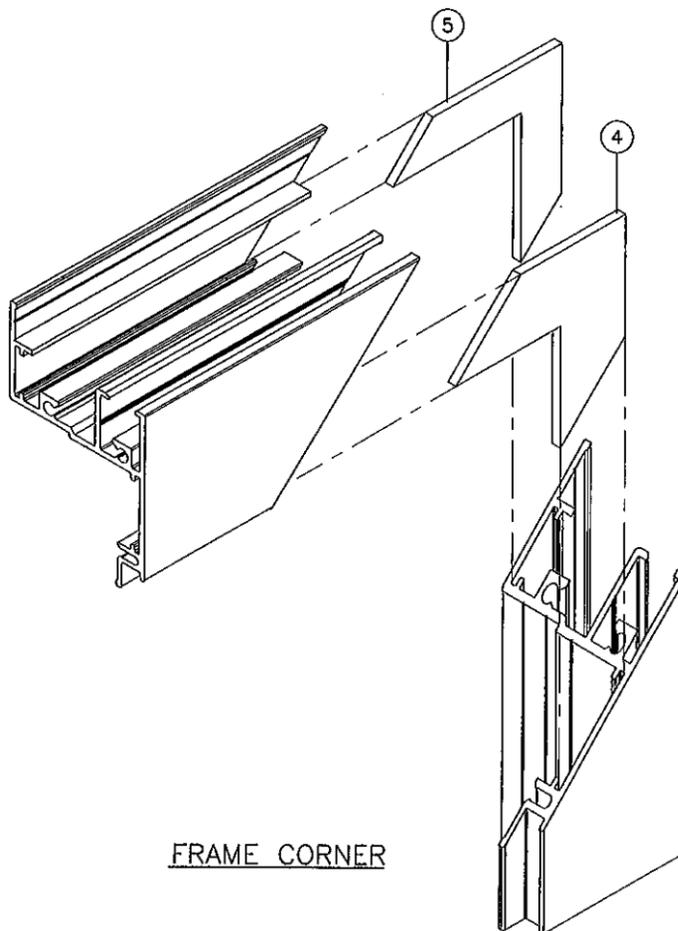
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0229.08
Expiration Date 10/26/2013
By: *[Signature]*
Miami Dade Product Control
FEB 22 2012

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:
drawing no.
W98-100
sheet 1.1 of 7

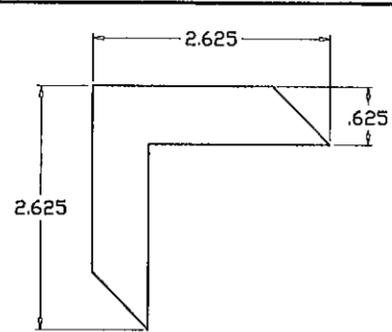


VENT CORNER

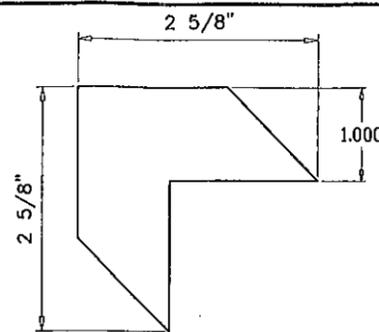
ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



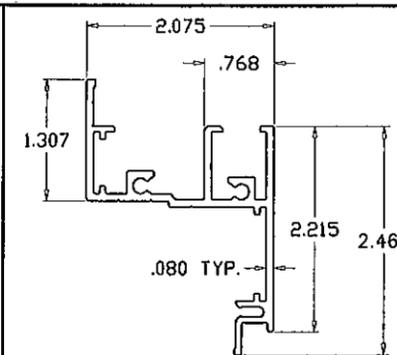
FRAME CORNER



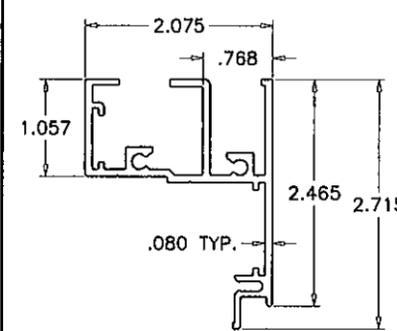
CORNER KEY
.060 THICK ST. STEEL



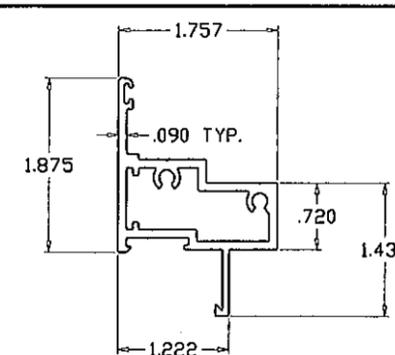
CORNER KEY
.062 THICK ALUMINUM



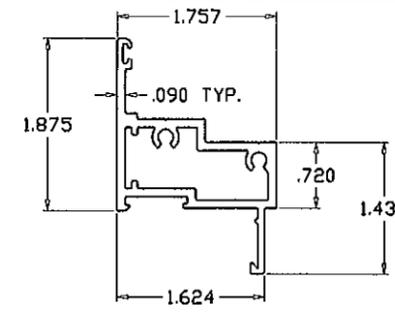
FLANGE FRAME



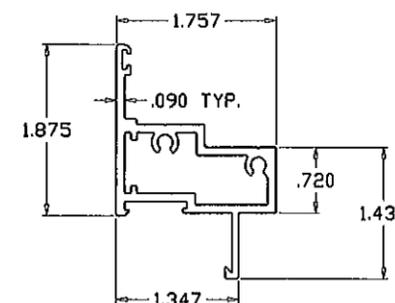
EQUAL LEG FRAME



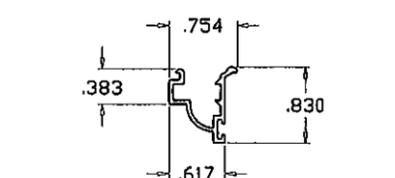
VENT (5/16" LAM. GLASS)



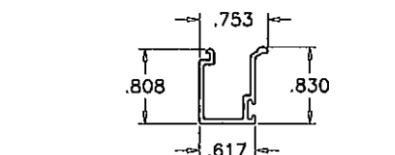
VENT (INSUL. LAM. GLASS)



VENT (7/16" LAM. GLASS)



CGI-375: OGEE GLAZING STOP



CGI-396: SQUARE GLAZING STOP

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI-373	4	FLANGE FRAME	6063-T6	INDALEX OR EQUIV.
1A	CGI-397	4	EQUAL LEG FRAME	6063-T6	INDALEX OR EQUIV.
2	CGI-378	4	VENT (5/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2B	CGI-381	4	VENT (INSUL. LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2C	CGI-385	4	VENT (7/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
3	CGI-375	4	OGEE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
3A	CGI-396	4	SQUARE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
4	-	4	.060 THICK CORNER KEY	ALUMINUM	-
5	-	8	.060 THICK CORNER KEY	ST. STEEL	-
6	AP-425	AS REQD.	FRAME WEATHERSTRIPPING	-	SCHLEGEL APTUS
7	Q200 X190	AS REQD.	VENT WEATHERSTRIPPING	-	SCHLEGEL Q-LON
8	35-10-00-101	2/ VENT	4 BAR HINGE, AT TOP AND BOTTOM	STEEL	TRUTH, ATTACHED W/ (6) #8 X 3/8" SS SMS
9	24-13-00-202	2/ VENT	FACE MOUNT LOCK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SMS
9A	-	2/ VENT	MULTI POINT LOCK	-	-
10	-	2/ VENT	.110 THICK LOCK KEEPER, AT FRAME JAMB FACING LOCK	STEEL	CGI, ATTACHED W/ (2) #10 X 3/8" SS SMS
11	23-20-00-101	1	OPERATOR HANDLE	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
12	30175	1	OPERATOR TRACK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
13	-	2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	-	#10 X 1-1/4" SS SMS

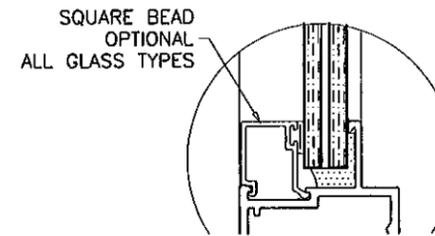
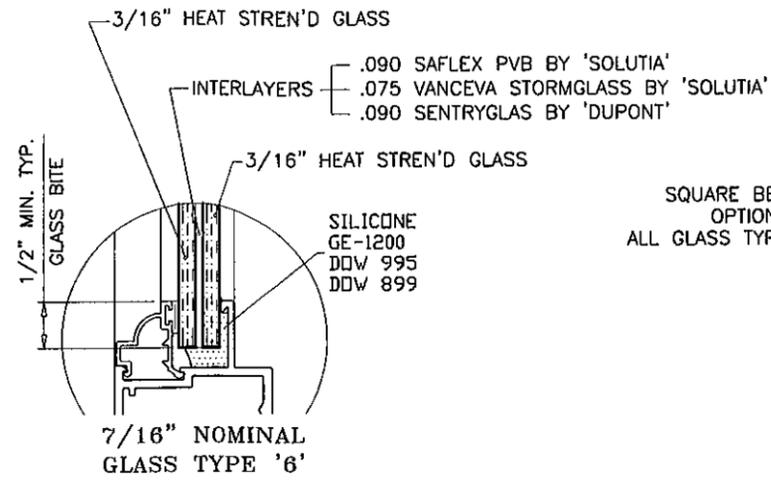
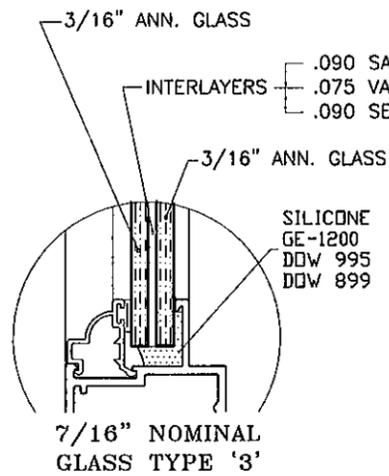
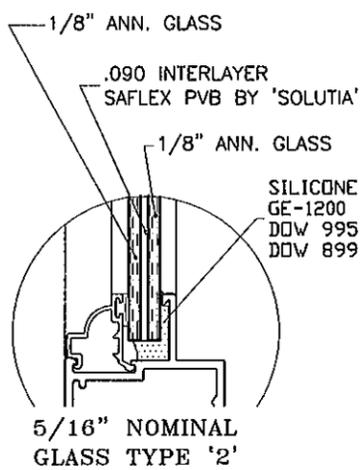
af c
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no.	date	by	description
C	09.01.06		UPDATED FOR 2004 FBC
D	01.15.08		NO CHANGE THIS SHEET
E	08.25.08		GENERAL REV.
F	02.21.12		NO CHANGE THIS SHEET

Engr: JAVAD, AHMAD,
 CIVIL
 FLA. PE # 70592
 C.A.N. 35387
 date: 12-04-98
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no.
W98-100
 sheet 2 of 7

PRODUCT REVISED
 as complying with the Florida
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afC
AL-FAROOQ CORPORATION
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 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no.
W98-100
 sheet 3 of 7

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS							
WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	36"	110.0	194.3	110.0	195.0	110.0	195.0
24"		110.0	161.9	110.0	195.0	110.0	195.0
28"		110.0	138.8	110.0	195.0	110.0	195.0
30"		110.0	129.5	110.0	195.0	110.0	195.0
32"		110.0	121.4	110.0	195.0	110.0	195.0
36"		107.9	107.9	110.0	195.0	110.0	195.0
40"		97.1	97.1	110.0	195.0	110.0	120.0
42"		92.5	92.5	110.0	120.0	-	-
20"	42"	110.0	166.5	110.0	195.0	110.0	195.0
24"		110.0	138.8	110.0	195.0	110.0	195.0
28"		110.0	118.9	110.0	195.0	110.0	195.0
30"		110.0	111.0	110.0	195.0	110.0	195.0
32"		104.1	104.1	110.0	195.0	110.0	120.0
36"		92.5	92.5	110.0	120.0	110.0	120.0
40"		83.3	83.3	110.0	120.0	110.0	120.0
42"		79.3	79.3	110.0	120.0	-	-
20"	48"	110.0	145.7	110.0	195.0	110.0	195.0
24"		110.0	121.4	110.0	195.0	110.0	195.0
28"		103.8	104.1	110.0	195.0	110.0	120.0
30"		97.1	97.1	110.0	195.0	110.0	120.0
32"		91.1	91.1	110.0	120.0	110.0	120.0
36"		80.9	80.9	110.0	120.0	110.0	120.0
40"		72.8	72.8	110.0	120.0	110.0	120.0
42"		69.4	69.4	110.0	120.0	-	-
20"	54"	110.0	129.5	110.0	195.0	110.0	195.0
24"		98.0	107.9	110.0	195.0	110.0	195.0
28"		88.2	92.5	110.0	120.0	110.0	120.0
30"		84.4	86.3	110.0	120.0	110.0	120.0
32"		80.9	80.9	110.0	120.0	110.0	120.0
36"		71.9	71.9	110.0	120.0	110.0	120.0
40"		64.8	64.8	110.0	120.0	110.0	120.0
42"		61.7	61.7	110.0	120.0	-	-
20"	60"	98.8	112.6	110.0	195.0	110.0	195.0
24"		85.8	95.4	110.0	195.0	110.0	120.0
28"		76.7	83.3	110.0	120.0	110.0	120.0
30"		73.2	77.7	110.0	120.0	110.0	120.0
32"		70.2	72.8	110.0	120.0	110.0	120.0
36"		64.8	64.8	110.0	120.0	110.0	120.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS							
WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	66"	86.7	86.7	110.0	195.0	110.0	195.0
24"		73.4	73.4	110.0	120.0	110.0	120.0
28"		64.2	64.2	110.0	120.0	110.0	120.0
30"		60.6	60.6	110.0	120.0	110.0	120.0
32"		57.5	57.5	110.0	120.0	110.0	120.0
20"		72"	66.4	66.4	110.0	195.0	110.0
24"	56.1		56.1	110.0	120.0	110.0	120.0
28"	48.9		48.9	110.0	120.0	110.0	120.0
30"	46.0		46.0	110.0	120.0	110.0	120.0
20"	78"	52.0	52.0	110.0	120.0	110.0	120.0
24"		43.8	43.8	110.0	120.0	110.0	120.0
28"		38.1	38.1	110.0	120.0	110.0	120.0
30"		-	-	110.0	120.0	-	-
20"	84"	41.5	41.5	110.0	120.0	110.0	120.0
24"		34.9	34.9	110.0	120.0	110.0	120.0
28"		-	-	110.0	120.0	-	-
19-1/8"	26"	110.0	195.0	110.0	195.0	110.0	195.0
26-1/2"		110.0	195.0	110.0	195.0	110.0	195.0
37"		110.0	145.4	110.0	195.0	110.0	195.0
42"		110.0	128.1	110.0	195.0	110.0	195.0
19-1/8"	38-3/8"	110.0	190.6	110.0	195.0	110.0	195.0
26-1/2"		110.0	137.5	110.0	195.0	110.0	195.0
37"		98.5	98.5	110.0	194.5	110.0	120.0
42"	86.8	86.8	110.0	120.0	110.0	120.0	
19-1/8"	50-5/8"	110.0	144.5	110.0	195.0	110.0	195.0
26-1/2"		99.7	104.3	110.0	195.0	110.0	195.0
37"		74.7	74.7	110.0	120.0	110.0	120.0
42"		65.8	65.8	110.0	120.0	110.0	120.0
19-1/8"	63"	96.7	104.2	110.0	195.0	110.0	195.0
26-1/2"		74.9	77.9	110.0	120.0	110.0	120.0
37"		60.0	60.0	110.0	120.0	110.0	120.0
19-1/8"	74-1/4"	63.0	63.0	110.0	195.0	110.0	120.0
26-1/2"		46.6	46.6	110.0	120.0	110.0	120.0

NOTE:
 LOAD/AREA LIMITS
 FOR +110.0, -120.0 PSF = 16.34 SQ. FT.
 +110.0, -195.0 PSF = 10.00 SQ. FT.

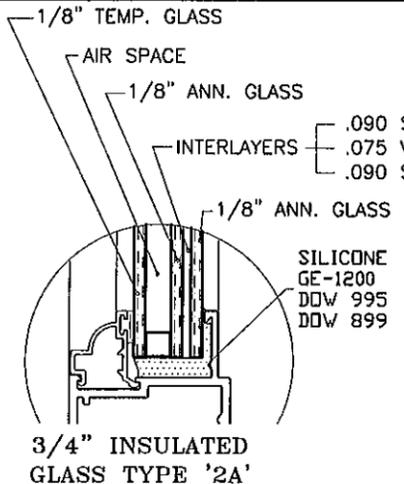
NOTE:
 GLASS CAPACITIES ON THIS SHEET ARE
 BASED ON ASTM E1300-04 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219

Engr. JAVAD AHMAD
 CIVIL
 FLA. P.E. # 70592
 C.A.N. 3538

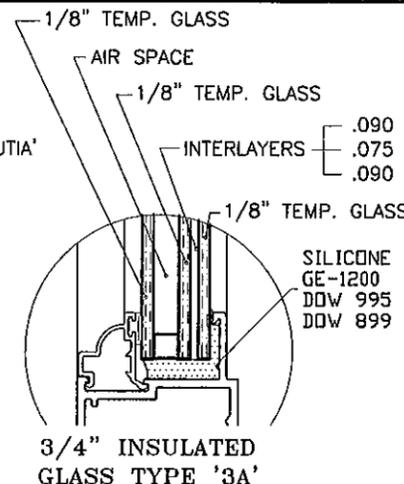
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0229-08
 Expiration Date 10/26/2013
 By: *[Signature]*
 Miami Dade Product Control
 FEB 22 2012

no.	date	description
C	09.01.06	UPDATED FOR 2004 FBC
D	01.15.08	NO CHANGE THIS SHEET
E	08.25.08	GENERAL REV.
F	02.21.12	UPDATED TO 2010 FBC

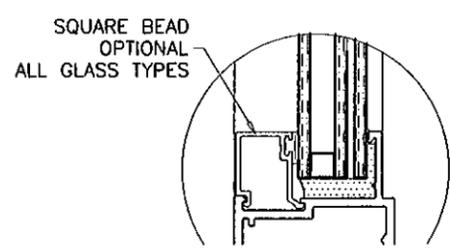
date:	12-04-98
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	



3/4" INSULATED
GLASS TYPE '2A'



3/4" INSULATED
GLASS TYPE '3A'



PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
 NO SHUTTERS REQUIRED
 REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	36"	110.0	194.3	110.0	195.0
24"		110.0	161.9	110.0	195.0
28"		110.0	138.8	110.0	195.0
30"		110.0	129.5	110.0	195.0
32"		110.0	121.4	110.0	195.0
36"		107.9	107.9	110.0	195.0
40"		97.1	97.1	110.0	120.0
42"		92.5	92.5	110.0	120.0
20"	42"	110.0	166.5	110.0	195.0
24"		110.0	138.8	110.0	195.0
28"		110.0	118.9	110.0	195.0
30"		110.0	111.0	110.0	195.0
32"		104.1	104.1	110.0	120.0
36"		92.5	92.5	110.0	120.0
40"		83.3	83.3	110.0	120.0
42"		79.3	79.3	110.0	120.0
20"	48"	110.0	145.7	110.0	195.0
24"		110.0	121.4	110.0	195.0
28"		104.1	104.1	110.0	120.0
30"		97.1	97.1	110.0	120.0
32"		91.1	91.1	110.0	120.0
36"		80.9	80.9	110.0	120.0
40"		72.8	72.8	110.0	120.0
42"		69.4	69.4	110.0	120.0
20"	54"	110.0	129.5	110.0	195.0
24"		98.0	107.9	110.0	195.0
28"		92.5	92.5	110.0	120.0
30"		84.4	86.3	110.0	120.0
32"		80.9	80.9	110.0	120.0
36"		71.9	71.9	110.0	120.0
40"		64.8	64.8	110.0	120.0
42"		61.7	61.7	110.0	120.0
20"	60"	98.8	112.6	110.0	195.0
24"		85.8	95.4	110.0	120.0
28"		76.7	83.3	110.0	120.0
30"		73.2	77.7	110.0	120.0
32"		70.2	72.8	110.0	120.0
36"		64.8	64.8	110.0	120.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
 NO SHUTTERS REQUIRED
 REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	66"	86.7	86.7	110.0	169.0
24"		73.4	73.4	110.0	120.0
28"		64.2	64.2	110.0	120.0
30"		60.6	60.6	110.0	118.2
32"		57.5	57.5	110.0	112.2
20"	72"	66.4	66.4	110.0	120.0
24"		56.1	56.1	109.3	109.3
28"		48.9	48.9	95.3	95.3
30"		46.0	46.0	89.8	89.8
20"	78"	52.0	52.0	101.3	101.3
24"		43.8	43.8	85.4	85.4
28"		38.1	38.1	74.3	74.3
20"	84"	41.5	41.5	80.8	80.8
24"		34.9	34.9	68.0	68.0
19-1/8"	26"	110.0	195.0	110.0	195.0
26-1/2"		110.0	203.0	110.0	195.0
37"		110.0	145.4	110.0	195.0
42"		110.0	128.1	110.0	195.0
19-1/8"	38-3/8"	110.0	190.6	110.0	195.0
26-1/2"		110.0	137.5	110.0	195.0
37"		98.5	98.5	110.0	120.0
42"	86.8	86.8	110.0	120.0	
19-1/8"	50-5/8"	110.0	144.5	110.0	195.0
26-1/2"		99.7	104.3	110.0	195.0
37"		74.7	74.7	110.0	120.0
42"	65.8	65.8	110.0	120.0	
19-1/8"	63"	96.7	104.2	110.0	195.0
26-1/2"		74.9	77.9	110.0	120.0
37"	60.0	60.0	110.0	117.0	
19-1/8"	74-1/4"	63.0	63.0	110.0	120.0
26-1/2"		46.6	46.6	90.9	90.9

NOTE:
 LOAD/AREA LIMITS
 FOR +110.0, -120.0 PSF = 16.34 SQ. FT.
 +110.0, -195.0 PSF = 10.00 SQ. FT.

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

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

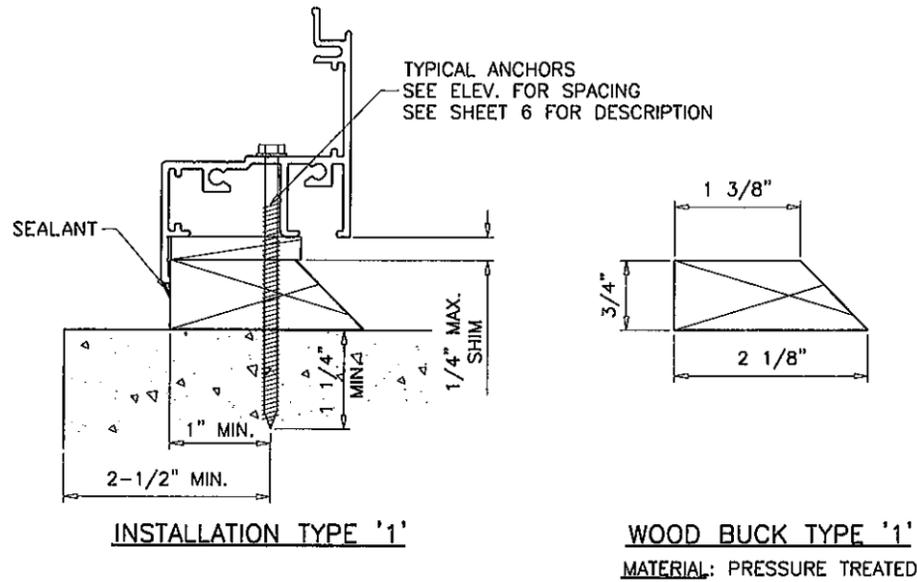
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0229.08
 Expiration Date 10/26/2013

By: *[Signature]*
 Miami Dade Product Control

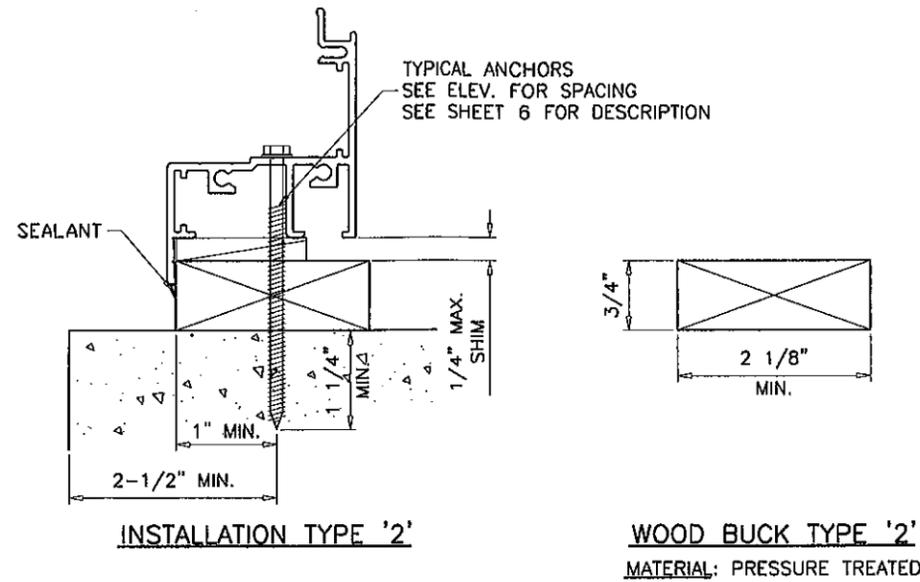
FEB 2 2 2012

INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

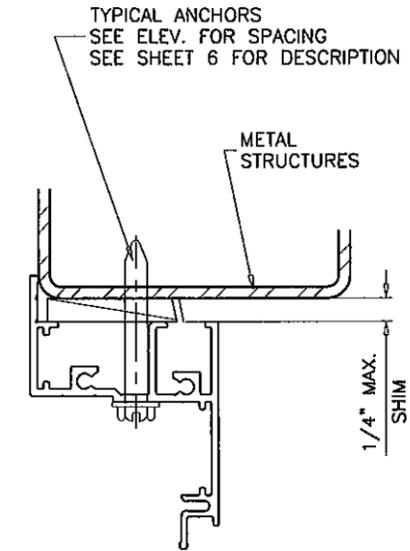
FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6



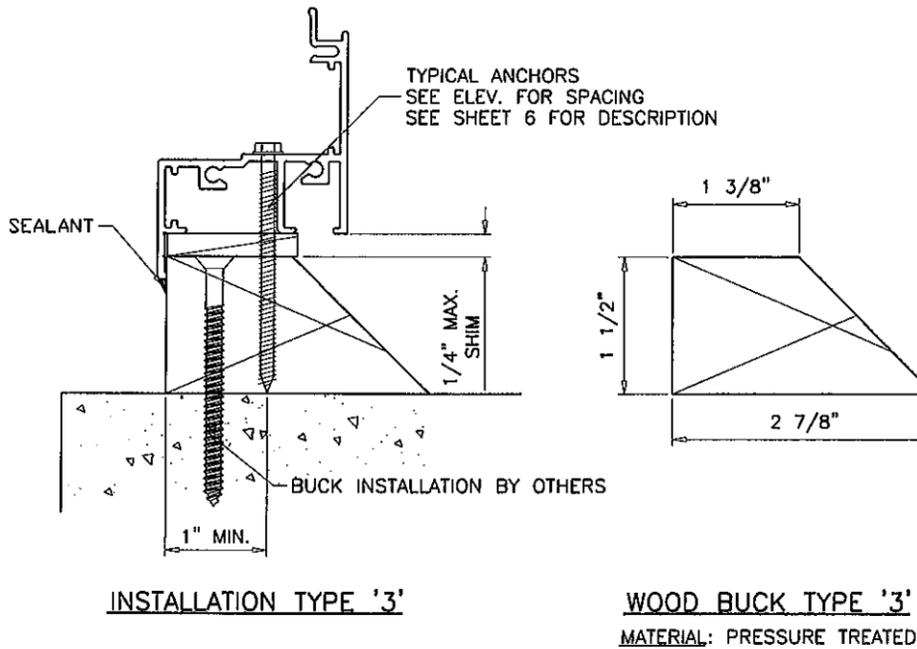
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



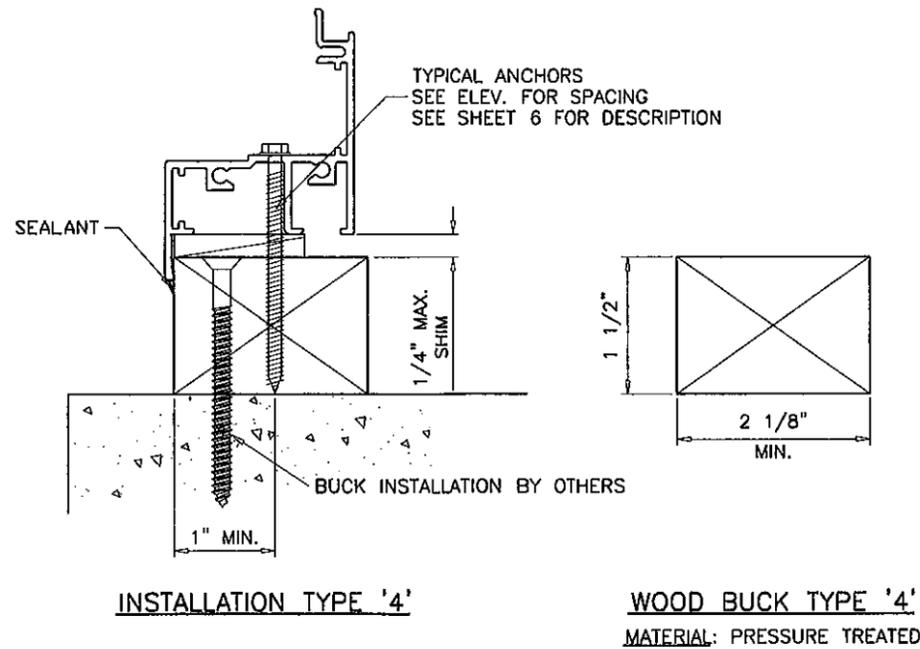
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



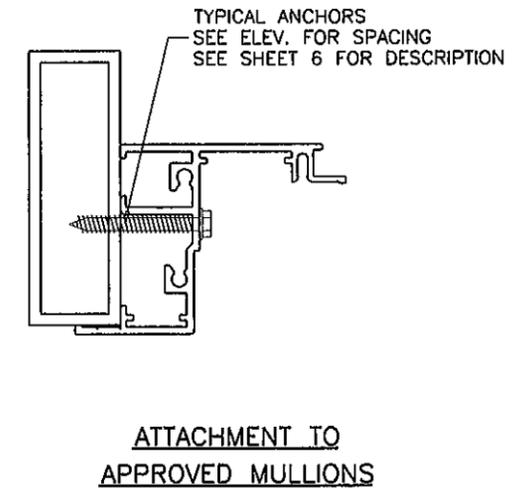
ATTACHMENT TO
METAL STRUCTURES



TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

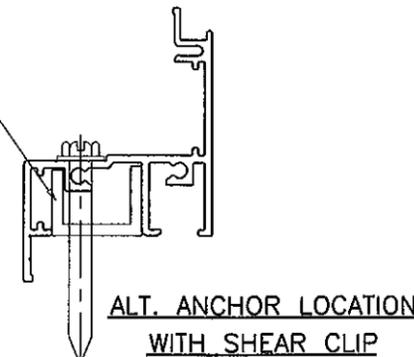


TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS

ALUM CHANNEL
3/4" X 1" X 3/4" X 1/8"
2-1/2" LONG
AT ANCHOR LOCATIONS



WOOD BUCKS NOT BY CGI CORP., 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

PRODUCT REVISED
as complying with the Florida
Building Code 12-0229-08
Acceptance No. 10/26/2013
Expiration Date
By: *[Signature]*
Miami Dade Product Co.

FEB 23 2012

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 W98-100CGI

SERIES-238 ALUMINUM CASEMENT WINDOW
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

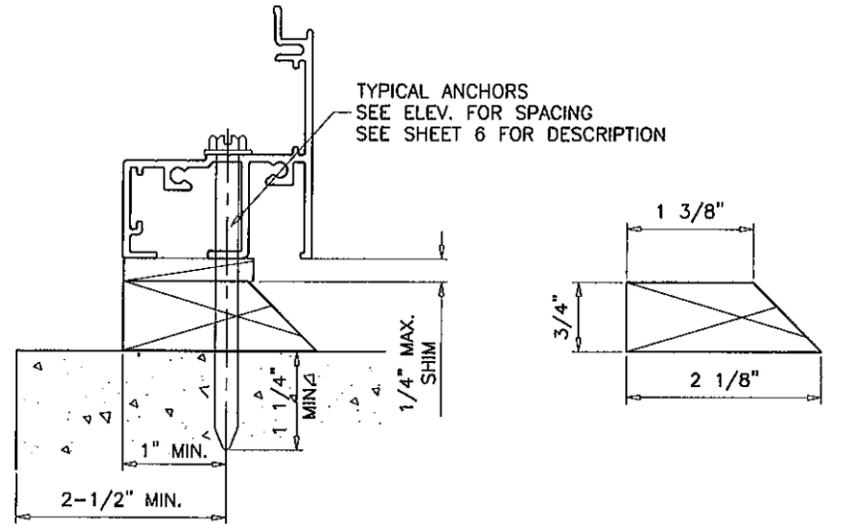
no	date	description
C	09.01.06	UPDATED FOR 2004 FBC
D	01.15.08	NO CHANGE THIS SHEET
E	08.25.08	GENERAL REV.
F	02.21.12	NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-100
sheet 5 of 7

INSTALLATION CONDITIONS EQUAL LEG FRAME (APPLIES TO ALL FOUR SIDES)

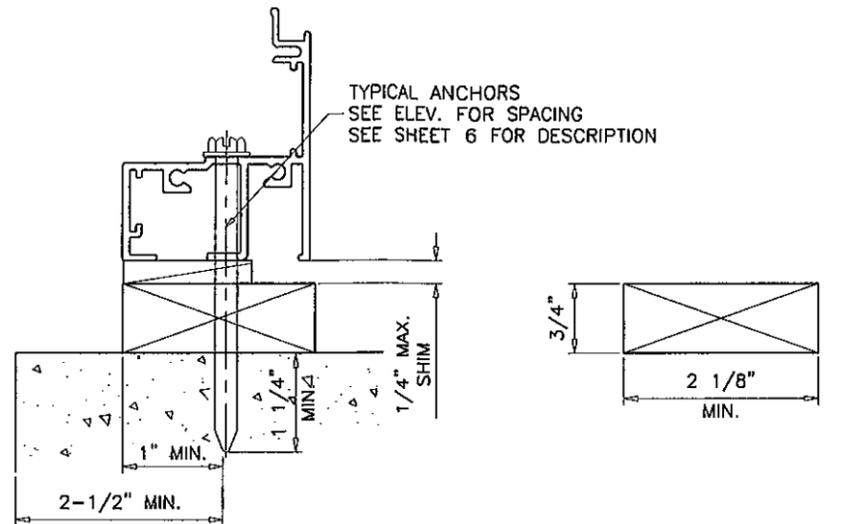
FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6



INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'
MATERIAL: PRESSURE TREATED

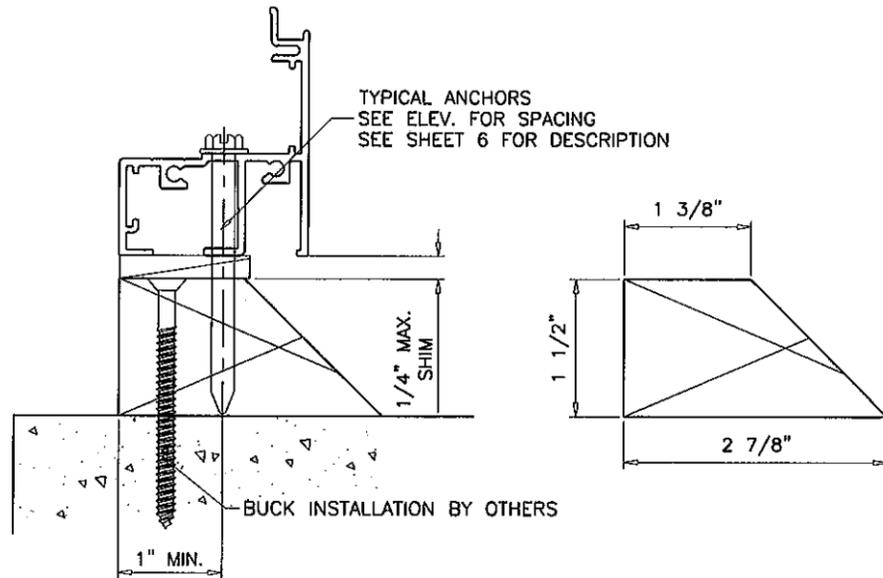
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



INSTALLATION TYPE '2'

WOOD BUCK TYPE '2'
MATERIAL: PRESSURE TREATED

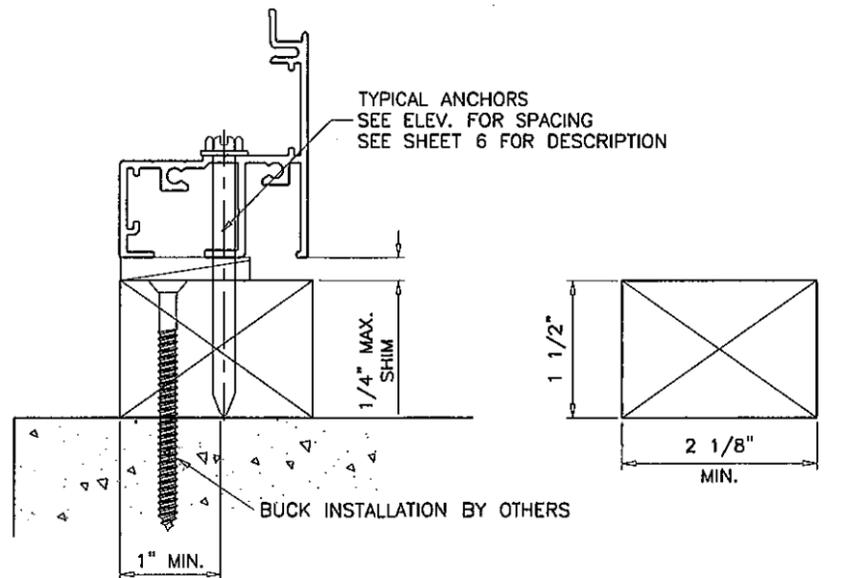
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'
MATERIAL: PRESSURE TREATED

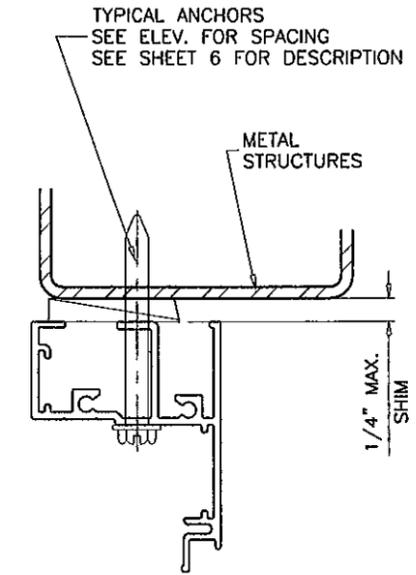
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



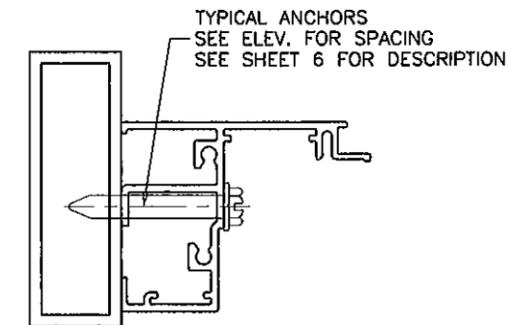
INSTALLATION TYPE '4'

WOOD BUCK TYPE '4'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
METAL STRUCTURES



ATTACHMENT TO
APPROVED MULLIONS

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\W98-100CGI

SERIES-238 ALUMINUM CASEMENT WINDOW
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:	no	date	by	description
	E	08.25.08		GENERAL REV.
	F	02.21.12		NO CHANGE THIS SHEET

date:	12-04-98
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.
W98-100
sheet 5.1 of 7

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

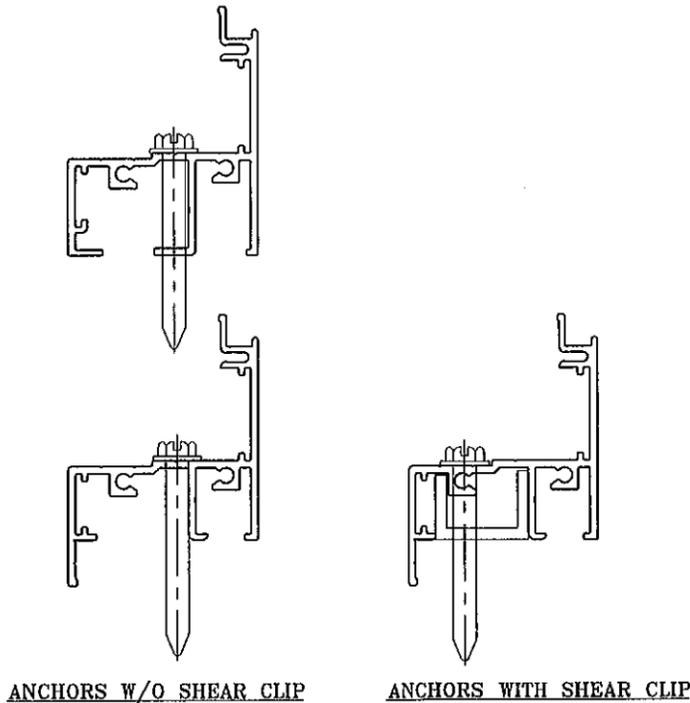
Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **12-0229.08**
Expiration Date **12/26/2013**
by: *[Signature]*
Miami Date Product Control

FEB 22 2012

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 5 FOR DETAILS						
WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP		
		AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.	
WIDTH	HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	
20"	36"	195.0	195.0	192.0	195.0	
24"		195.0	195.0	160.0	195.0	
28"		192.9	195.0	137.1	182.9	
30"		180.0	195.0	128.0	170.7	
32"		168.8	195.0	120.0	160.0	
36"		150.0	195.0	106.7	142.2	
40"		135.0	180.0	96.0	128.0	
42"		128.6	171.4	91.4	121.9	
20"	42"	195.0	195.0	164.6	195.0	
24"		192.9	195.0	137.1	182.9	
28"		165.3	195.0	117.6	156.7	
30"		154.3	195.0	109.7	146.3	
32"		144.6	192.9	102.9	137.1	
36"		128.6	171.4	91.4	121.9	
40"		115.7	154.3	82.3	109.7	
42"		110.2	146.9	78.4	104.5	
20"	48"	195.0	195.0	192.0	195.0	
24"		195.0	195.0	160.0	195.0	
28"		192.9	195.0	137.1	171.4	
30"		180.0	195.0	128.0	160.0	
32"		168.8	195.0	120.0	150.0	
36"		150.0	187.5	106.7	133.3	
40"		135.0	168.8	96.0	120.0	
42"		128.6	160.7	91.4	114.3	
20"	54"	195.0	195.0	170.7	195.0	
24"		195.0	195.0	142.2	195.0	
28"		171.4	195.0	121.9	182.9	
30"		160.0	195.0	113.8	170.7	
32"		150.0	195.0	106.7	160.0	
36"		133.3	195.0	94.8	142.2	
40"		120.0	180.0	85.3	128.0	
42"		114.3	171.4	81.3	121.9	
20"	60"	195.0	195.0	153.6	195.0	
24"		180.0	195.0	128.0	192.0	
28"		154.3	195.0	109.7	164.6	
30"		144.0	195.0	102.4	153.6	
32"		135.0	195.0	96.0	144.0	
36"		120.0	180.0	85.3	128.0	
20"		66"	195.0	195.0	174.5	195.0
24"			195.0	195.0	145.5	195.0
28"	175.3		195.0	124.7	174.5	
30"	163.6		195.0	116.4	162.9	
32"	153.4		195.0	109.1	152.7	
20"	72"		195.0	195.0	160.0	195.0
24"			187.5	195.0	133.3	186.7
28"			160.7	195.0	114.3	160.0
30"		150.0	195.0	106.7	149.3	
32"		140.6	195.0	100.0	140.0	
20"		78"	195.0	195.0	147.7	195.0
24"			173.1	195.0	123.1	195.0
28"			148.4	195.0	105.5	168.8
30"	138.5		195.0	98.5	157.5	
20"	84"		195.0	195.0	164.6	195.0
24"			195.0	195.0	137.1	195.0
28"			165.3	195.0	117.6	176.3

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 5 FOR DETAILS					
WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
		AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
WIDTH	HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
19-1/8"	26"	195.0	195.0	195.0	195.0
26-1/2"		195.0	195.0	195.0	195.0
37"		195.0	195.0	143.7	143.7
19-1/8"	38-3/8"	195.0	195.0	188.4	195.0
26-1/2"		191.2	195.0	135.9	181.3
37"		136.9	182.6	97.4	129.8
19-1/8"	50-5/8"	195.0	195.0	190.4	195.0
26-1/2"		193.2	195.0	137.4	171.7
37"		138.4	173.0	98.4	123.0
19-1/8"	63"	195.0	195.0	153.0	195.0
26-1/2"		155.3	195.0	110.4	193.2
37"		111.2	194.6	79.1	138.4
19-1/8"	74-1/4"	195.0	195.0	162.2	195.0
26-1/2"		164.7	195.0	117.1	187.4



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)

1/4" 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

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

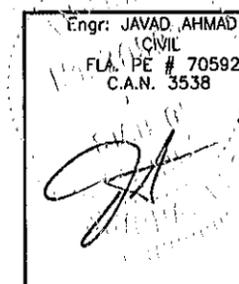
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
INTO METAL STRUCTURES

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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'c = 3000 PSI MIN.
MASONRY f'm = 1500 PSI MIN.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0229-08
Expiration Date 10/26/2013
By: [Signature]
Miami Dade Product Control

FEB 22 2012

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 W98-100CGI

SERIES-238 ALUMINUM CASEMENT WINDOW
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

no.	date	by	description
C	09.01.06		UPDATED FOR 2004 FBC
D	01.15.08		CHART REV.
E	06.25.08		GENERAL REV.
F	02.21.12		NO CHANGE THIS SHEET

date: 12-04-88
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

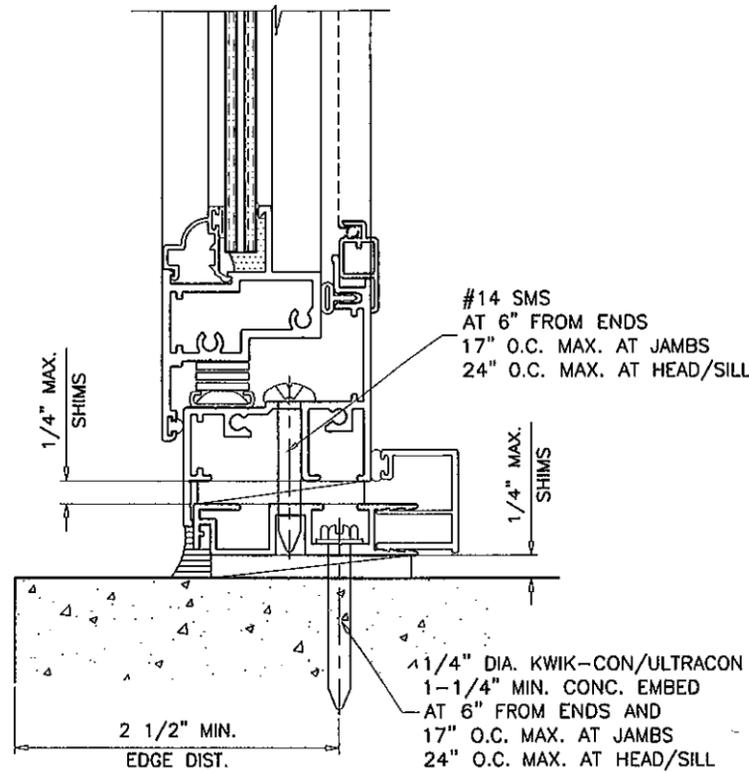
drawing no. W98-100
sheet 6 of 7

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS				
WINDOW DIMS.		EXT. (+) INT. (-)		
WIDTH	HEIGHT			
20"	36"	195.0		
24"		195.0		
28"		195.0		
30"		194.4		
32"		182.3		
36"		162.0		
40"		120.0		
42"		120.0		
20"		42"	195.0	
24"			195.0	
28"	178.5			
30"	166.6			
32"	120.0			
36"	120.0			
40"	120.0			
42"	119.0			
20"	48"		195.0	
24"			195.0	
28"		120.0		
30"		120.0		
32"		120.0		
36"		120.0		
40"		120.0		
42"		120.0		
20"		54"	195.0	
24"			195.0	
28"	120.0			
30"	120.0			
32"	120.0			
36"	120.0			
40"	120.0			
42"	120.0			
20"	60"		195.0	
24"			120.0	
28"		120.0		
30"		120.0		
32"		120.0		
36"		120.0		
20"		66"	169.0	
24"			120.0	
28"			120.0	
30"			118.2	
32"	112.2			
20"	72"		120.0	
24"			109.3	
28"			95.3	
30"			89.8	
32"			85.0	
20"		78"	101.3	
24"			85.4	
28"			74.3	
20"			84"	80.8
24"				68.0

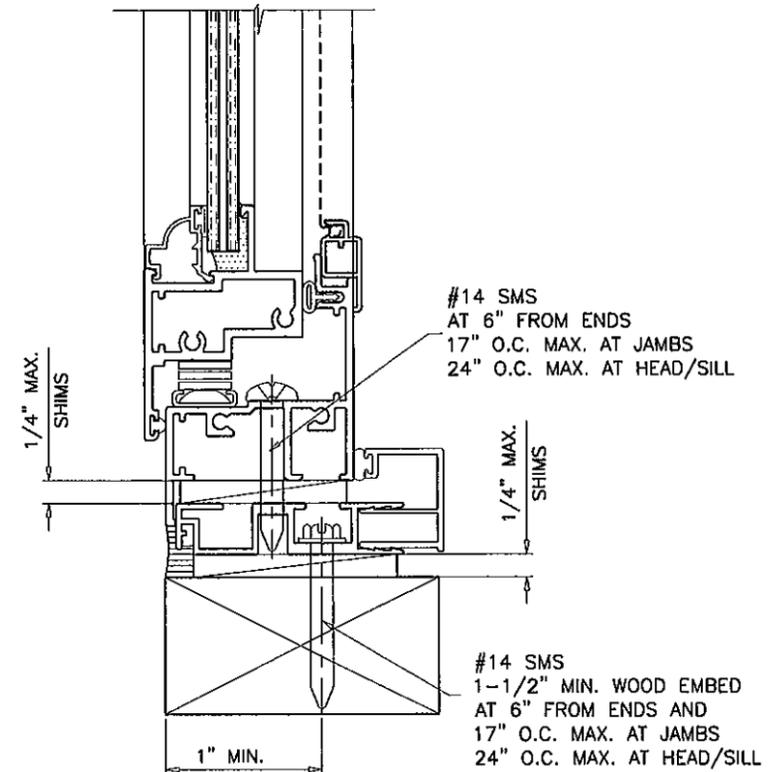
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS		
WINDOW DIMS.		EXT. (+) INT. (-)
WIDTH	HEIGHT	
19-1/8"	26"	195.0
26-1/2"		195.0
37"		195.0
19-1/8"	38-3/8"	195.0
26-1/2"		195.0
37"		120.0
19-1/8"	50-5/8"	195.0
26-1/2"		195.0
37"		120.0
19-1/8"	63"	195.0
26-1/2"		120.0
37"		117.0
19-1/8"	74-1/4"	120.0
26-1/2"		90.9

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 6 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



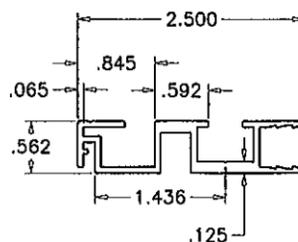
INSTALLATION TYPE '5'



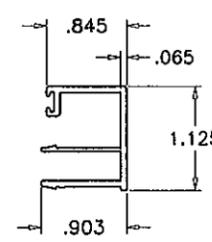
INSTALLATION TYPE '6'

2BY WOOD BUCK OR WOOD STRUCTURES

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM



ALUMINUM BUCK
6063-T6



OPTIONAL COVER
6063-T6

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

12-0229-08

10/26/2013

MIAMI DADE COUNTY

FEB 2 2 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0229-08
Expiration Date 10/26/2013

by: *J. Ahmad*
Miami Dade Product Control

af c
AL-FAROOQ CORPORATION
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no	date	description
D	01.15.08	ALUM BUCK ADDED
E	08.25.08	GENERAL REV.
F	02.21.12	NO CHANGE THIS SHEET

revisions:

date: 04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-100

sheet 7 of 7