MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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

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 RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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

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

DESCRIPTION: Series "Sentinel 120" Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W10–18**, titled "Series Sentinel 120 Alum. Horiz. Sliding Wdw. (L.M.I./ S.M.I.)", sheets 1, 1.1, 2, 2.1, 3, 3.1, 4 through 11 of 11, dated 03/29/10 with revision "**G**" dated 05/02/16, 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

LIMITATIONS:

1. Glass lites wider than 36–inch shall have two setting blocks and anti–Lift devises per FBC requirements.

2. The **D**ay **L**ite **O**pening's (**D.L.O.**) of maximum $49^{5}/_{8}$–inch (Width) by maximum $55^{3}/_{4}$–inch (Height).

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. 15–0512.05** and consists of this page 1 and evidence pages E–1, E–2 and E–3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P. E.**

MIAMI-DADE COUNTY APPROVED

5/13/16

NOA No. 15–0929.13
Expiration Date: September 22, 2020
Approval Date: May 19, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA's No.'s 10-0510.12 and 15-0512.05)
2. Drawing No. **W10-18**, titled "Series Sentinel 120 Alum Horiz. Sliding Wdw. (L.M.I./ S.M.I.)", sheets 1, 1.1, 2, 2.1, 3, 3.1, 4 through 11 of 11, dated 03/29/10 with revision "**G**" dated 05/02/16, 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 201-94
   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, FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of a series Sentinel 120 aluminum horizontal sliding window, prepared by Certified Test Laboratories, Test Report No. **CTLA-3062W**, dated 07/07/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test, per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading, per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a series fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WA**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
   (Submitted under previous NOA No. 15-0512.05)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test, per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading, per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a series project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WB**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
   (Submitted under previous NOA No. 15-0512.05)

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 15-0929.13
Expiration Date: September 22, 2020
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B. TESTS (CONTINUED)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test, per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WC**, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
(Submitted under previous NOA No. 15-0512.05)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 201-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test, per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
6) Forced Entry Test, FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series "Sentinel" aluminum horizontal sliding window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0102-10**, dated 06/04/10, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under NOA No. 10-0510.12)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, prepared by Al-Farooq Corporation, dated 09/17/15 revised on 05/11/16 , signed and sealed by Javad Ahmad, P. E.

2. **Glazing complies with ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.

2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.

3. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their **"Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 06/19/14, expiring on 12/11/18.

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 15-0929.13
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E. MATERIAL CERTIFICATIONS (CONTINUED)

4. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 0619/14, expiring on 05/21/16.

F. STATEMENTS

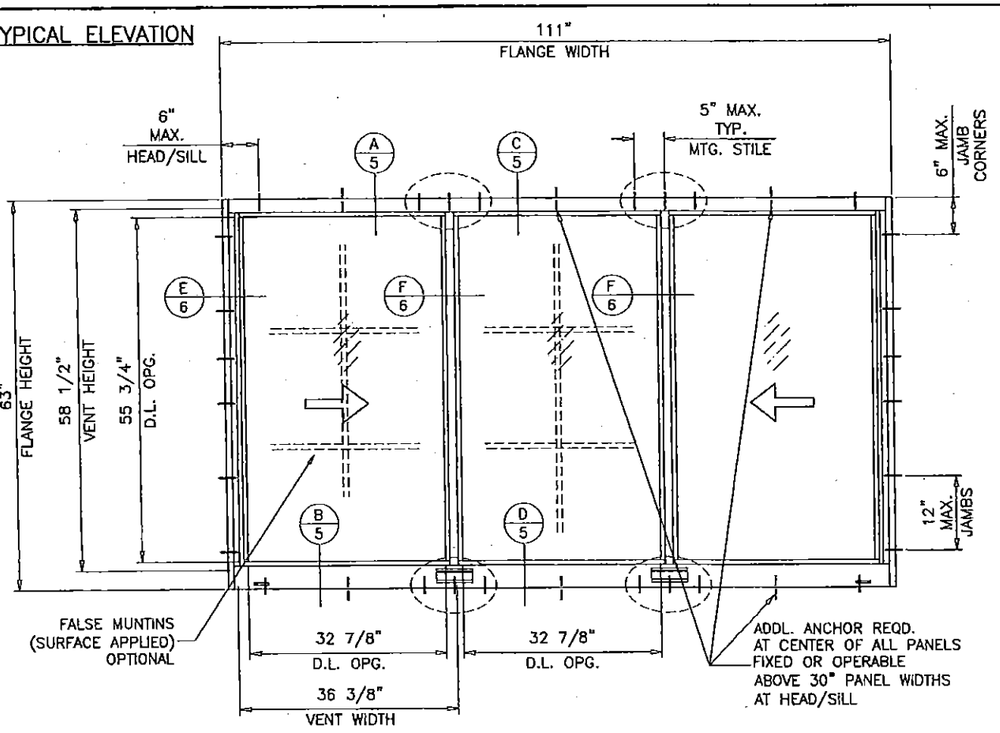
1. Statement letter of conformance, of complying with **FBC 5th Edition (2014)** and of no financial interest, dated 08/17/15, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letters for Test Report No. **CTLA-3062W**, dated 07/07/15, issued by Certified Test Laboratories, signed and sealed by Ramesh C. Patel, P. E.
3. Testing Proposal issued by the Product Control Section, dated 04/08/15, signed by Jaime Gascon, P. E., Section Supervisor.
4. Laboratory compliance letters for Test Reports No.'s **CTLA-3056 WA**, dated 03/03/15, **CTLA-3056 WB**, dated 03/03/15 and **CTLA-3056 WC**, dated 04/16/15, all issued by Certified Test Laboratories, all signed and sealed by Ramesh C. Patel, P. E. ***(Submitted under previous NOA No. 15-0512.05)***
5. Testing Proposal issued by the Product Control Section, dated 12/16/14, signed by Jaime Gascon, P. E., Section Supervisor. ***(Submitted under previous NOA No. 15-0512.05)***
6. Laboratory compliance letters for Test Report No. **HTL-0080-0102-10**, issued by Hurricane Test Laboratory, LLC, dated 06/04/10, signed and sealed by Vinu J. Abraham, P. E. ***(Submitted under NOA No. 10-0510.12)***

G. OTHERS

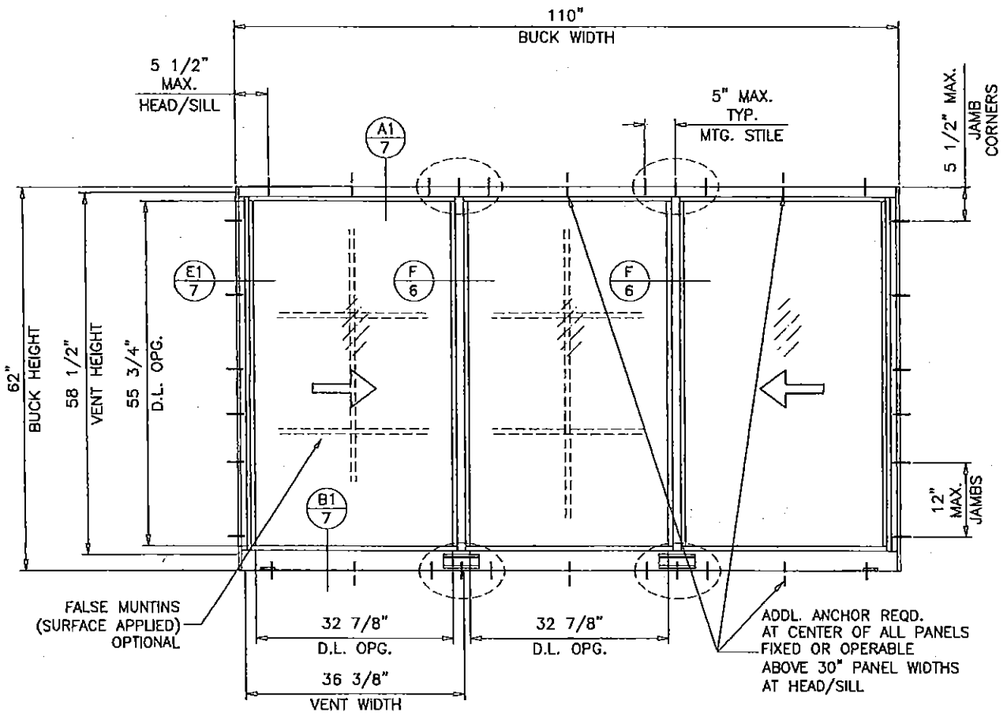
1. Notice of Acceptance No. **15-0512.05**, issued to CGI Windows & Doors for their Series "Sentinel 120" Aluminum Horizontal Sliding Window – L.M.I., approved on 08/20/15 and expiring on 09/22/20.

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 15-0929.13
Expiration Date: September 22, 2020
Approval Date: May 19, 2016

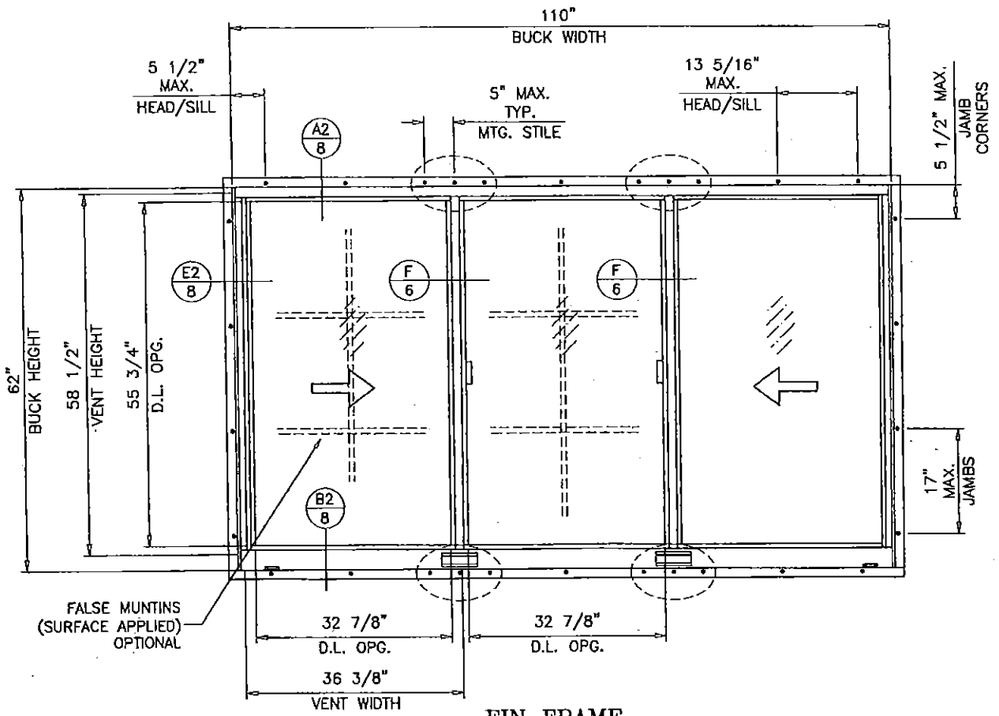
TYPICAL ELEVATION



FLANGE & FLANGE ADAPTOR FRAME



EQUAL LEG FRAME



FIN FRAME

SERIES SENTINEL 120
ALUMINUM HORIZONTAL SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZONTAL ROLLING WITH OTHER MIAMI-DADE COUNTY APPROVED WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

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

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE & ADOPTED STANDARDS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 15-0929.13
Expiration Date 09/22/2020
By
Miami-Dade Product Control

LAMINATED GLASS
INSULATING LAM. GLASS
LARGE MISSILE IMPACT
SMALL MISSILE IMPACT

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAY 1 1 2016

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W10-03CGI

SERIES SENTINEL 120 ALUM HORIZ. SLIDING WDW. (L.M.I./S.M.I.)

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

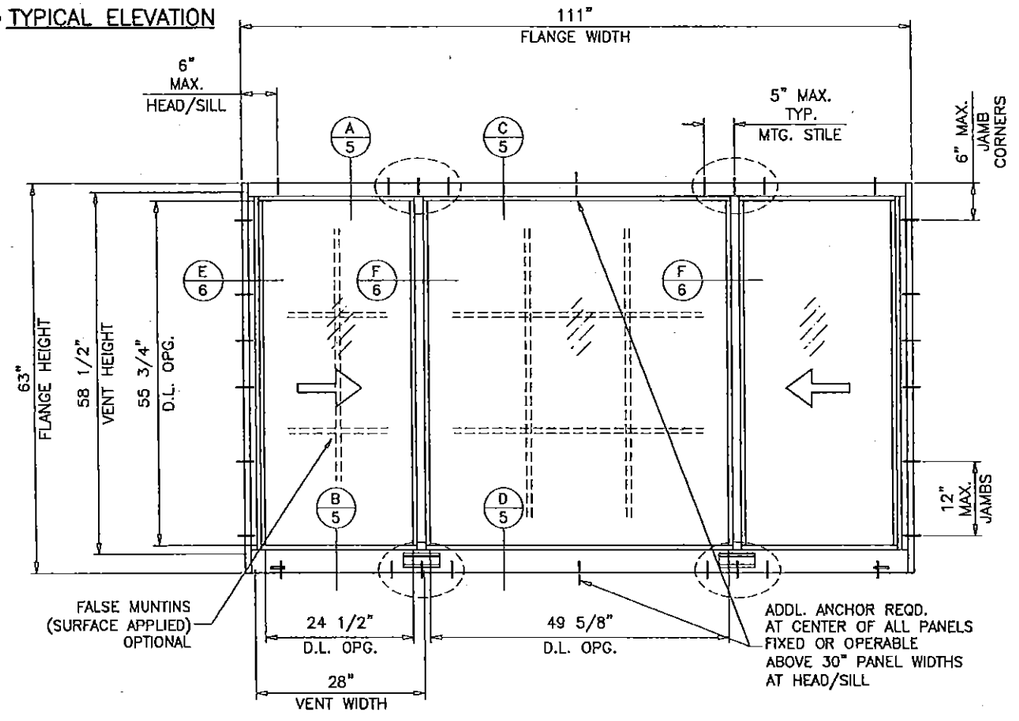
revisions:			
no	date	by	description
C	09.09.14		UPDATED TO 2014 FBC
D	04.10.15		NO CHANGE THIS SHEET
E	04.10.15		NO CHANGE THIS SHEET
F	08.19.15		NO CHANGE THIS SHEET
G	05.02.16		REV. PER RER COMMENTS

date: 03-29-10
scale: 1/2" = 1"
dr. by:
chk. by:

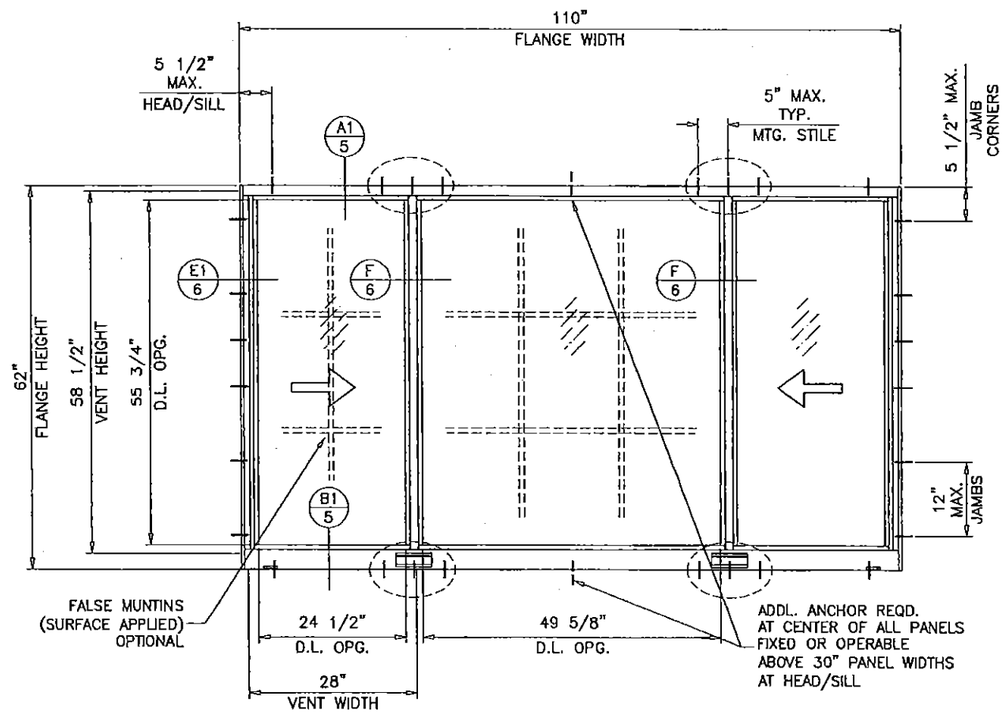
drawing no. W10-18

sheet 1 of 11

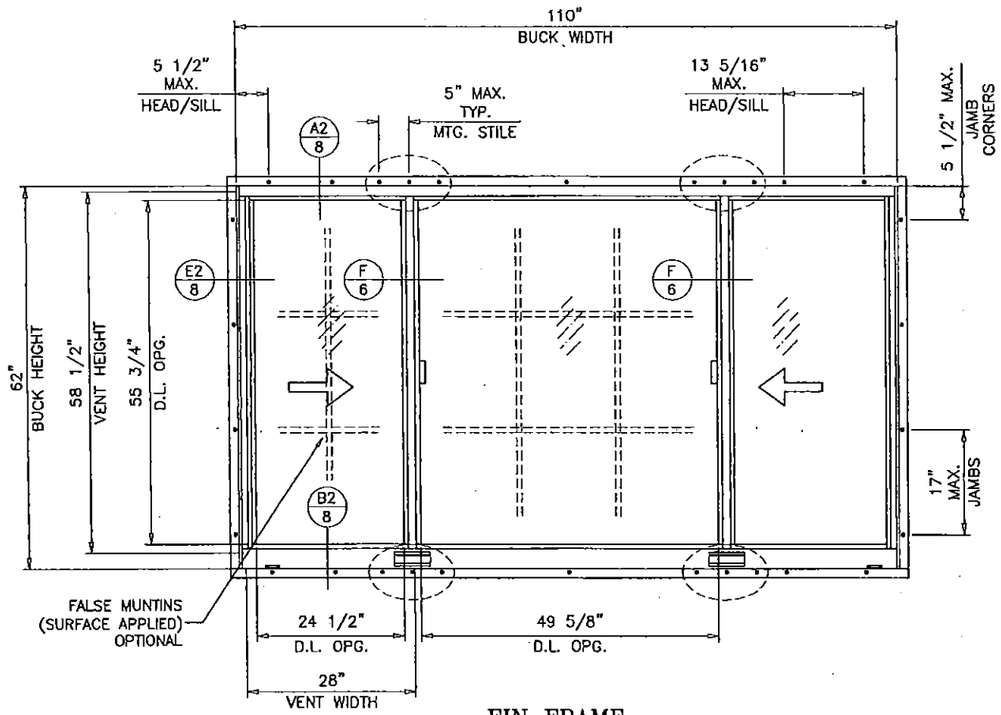
TYPICAL ELEVATION



FLANGE & FLANGE ADAPTOR FRAME



EQUAL LEG FRAME



FIN FRAME

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 15-0929.13
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By
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MAY 11 2016

JAVAD AHMAD
LICENSE
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PROFESSIONAL ENGINEER

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revisions:

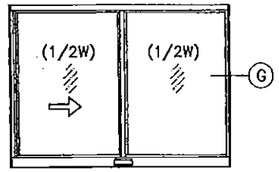
no	date	by	description
G	05.02.16		REV. PER RER COMMENTS

date: 03-29-10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no.
W10-18

sheet 1.1 of 11

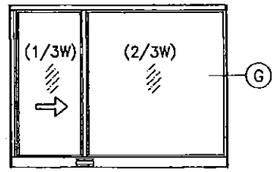
DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)							
				STD. MTG. RAIL		H.D. MTG. RAIL	
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
26–1/2"	26"	25–1/2"	25"	65.0	65.0	80.0	90.0
37"		36"		65.0	65.0	80.0	90.0
53–1/8"		52–1/8"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
26–1/2"	38–3/8"	25–1/2"	37–3/8"	65.0	65.0	80.0	90.0
37"		36"		65.0	65.0	80.0	90.0
53–1/8"		52–1/8"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
26–1/2"	50–5/8"	25–1/2"	49–5/8"	65.0	65.0	80.0	90.0
37"		36"		65.0	65.0	80.0	90.0
53–1/8"		52–1/8"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
26–1/2"	63"	25–1/2"	62"	65.0	65.0	80.0	90.0
37"		36"		65.0	65.0	80.0	90.0
53–1/8"		52–1/8"		65.0	65.0	80.0	90.0
74"		73"		60.2	60.2	80.0	90.0



OPERATING VENTS TO BE 1/2 OF THE WINDOW WIDTH

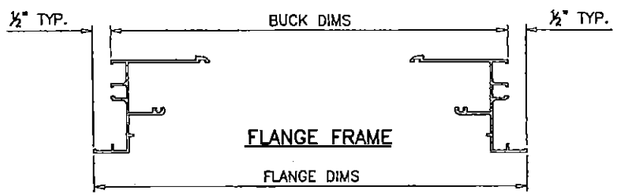
'XO OR OX'

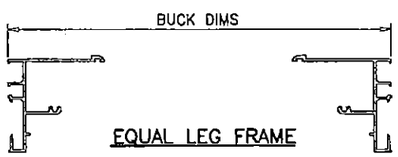
DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)									
				STD. MTG. RAIL		H.D. MTG. RAIL		H.D. MTG. RAIL	
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
55–3/4"	26"	54–3/4"	25"	65.0	65.0	80.0	90.0	65.0	65.0
78–15/16"		77–15/16"		65.0	65.0	80.0	90.0	65.0	65.0
83–1/2"		82–1/2"		65.0	65.0	80.0	90.0	65.0	65.0
55–3/4"	38–3/8"	54–3/4"	37–3/8"	65.0	65.0	80.0	90.0	65.0	65.0
78–15/16"		77–15/16"		65.0	65.0	80.0	90.0	65.0	65.0
83–1/2"		82–1/2"		65.0	65.0	80.0	90.0	65.0	65.0
55–3/4"	50–5/8"	54–3/4"	49–5/8"	65.0	65.0	80.0	90.0	65.0	65.0
78–15/16"		77–15/16"		–	–	–	–	65.0	65.0
83–1/2"		82–1/2"		–	–	–	–	65.0	65.0
55–3/4"	63"	54–3/4"	62"	65.0	65.0	80.0	90.0	65.0	65.0
78–15/16"		77–15/16"		–	–	–	–	65.0	65.0
83–1/2"		82–1/2"		–	–	–	–	65.0	65.0

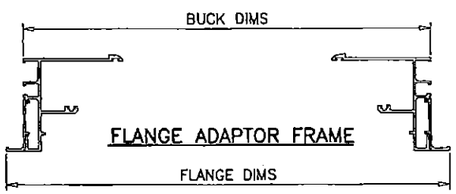


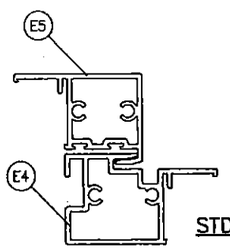
OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XO OR OX'

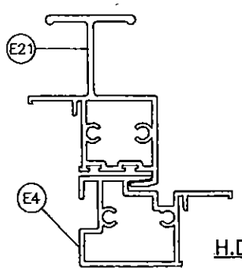








STD. MTG. RAIL:



H.D. MTG. RAIL:

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 15–0929.13
Expiration Date 09/22/2020
By
Miami–Dade Product Control

MAY 11 2016

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

FLANGE & FLANGE ADAPTOR FRAME EQUAL LEG FRAME

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX. (305) 262-8978

COMP–ANL\W10–03CGI

SERIES SENTINEL 120 ALUM HORIZ. SLIDING WDW. (L.M.I./S.M.I.)

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593–6590 FAX. (305) 593–6592

revisions:

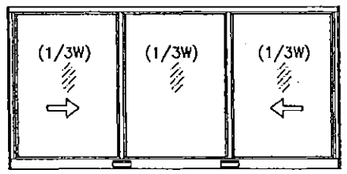
no	date	by	description
C	09.09.14		UPDATED TO 2014 FBC
D	04.10.15		NO CHANGE THIS SHEET
E	04.10.15		NO CHANGE THIS SHEET
F	08.19.15		NEW GLASS ADDED
G	05.02.16		1/3 2/3 OPTION ADDED

date: 03–29–10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no. W10–18

sheet 2 of 11

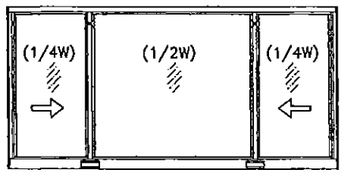
DESIGN LOAD CAPACITY – PSF (XOX SIZES)							
				STD. MTG. RAIL		H.D. MTG. RAIL	
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
74"	26"	73"	25"	65.0	65.0	80.0	90.0
106–1/4"		105–1/4"		65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"	38–3/8"	73"	37–3/8"	65.0	65.0	80.0	90.0
106–1/4"		105–1/4"		65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"	50–5/8"	73"	49–5/8"	65.0	65.0	80.0	90.0
106–1/4"		105–1/4"		65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"	63"	73"	62"	65.0	65.0	80.0	90.0
106–1/4"		105–1/4"		61.6	61.6	80.0	90.0
111"		110"		60.0	60.0	80.0	90.0



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

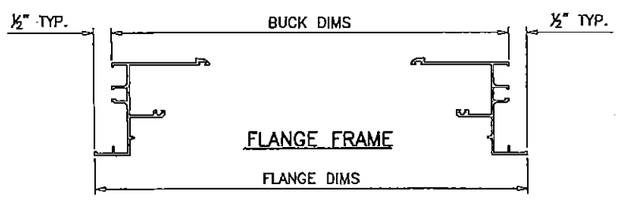
'XOX'

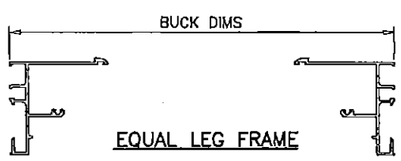
DESIGN LOAD CAPACITY – PSF (XOX SIZES)									
				STD. MTG. RAIL		H.D. MTG. RAIL		H.D. MTG. RAIL	
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
74"	26"	73"	25"	65.0	65.0	80.0	90.0	65.0	65.0
106–1/4"		105–1/4"		65.0	65.0	80.0	90.0	65.0	65.0
111"		110"		65.0	65.0	80.0	90.0	65.0	65.0
74"	38–3/8"	73"	37–3/8"	65.0	65.0	80.0	90.0	65.0	65.0
106–1/4"		105–1/4"		65.0	65.0	80.0	90.0	65.0	65.0
111"		110"		65.0	65.0	80.0	90.0	65.0	65.0
74"	50–5/8"	73"	49–5/8"	65.0	65.0	80.0	90.0	65.0	65.0
106–1/4"		105–1/4"		–	–	–	–	65.0	65.0
111"		110"		–	–	–	–	65.0	65.0
74"	63"	73"	62"	65.0	65.0	80.0	90.0	65.0	65.0
106–1/4"		105–1/4"		–	–	–	–	65.0	65.0
111"		110"		–	–	–	–	65.0	65.0

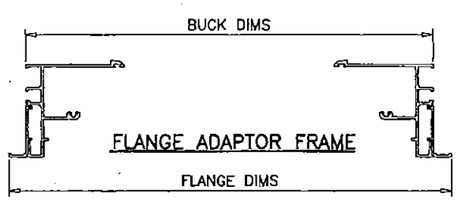


OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

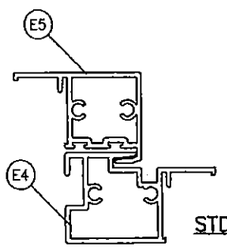
'XOX'



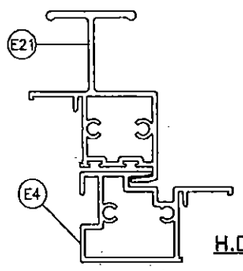




FLANGE & FLANGE ADAPTOR FRAME
EQUAL LEG FRAME



STD. MTG. RAIL:



H.D. MTG. RAIL:

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 15–0929.13
Expiration Date 09/22/2020
By
Miami–Dade Product Control

MAY 11 2015

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173 FAX. (305) 262-6978
TEL. (305) 264-8100
COMP–ANL\W10–03CGI

SERIES SENTINEL 120 ALUM HORIZ. SLIDING WDW. (L.M.I./S.M.I.)

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593–6590 FAX. (305) 593–6592

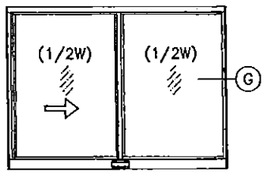
revisions:			
no	date	by	description
G	05.02.16		NO CHANGE THIS SHEET

date: 03–29–10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no. W10–18

sheet 2.1 of 11

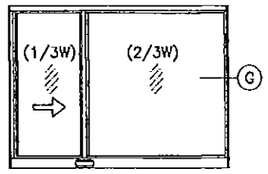
DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)					
		STD. MTG. RAIL		H.D. MTG. RAIL	
BUCK DIMS.		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
25–1/2"	25"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52–1/8"		65.0	65.0	80.0	80.0
73"		65.0	65.0	80.0	80.0
25–1/2"	37–3/8"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52–1/8"		65.0	65.0	80.0	80.0
73"		65.0	65.0	80.0	80.0
25–1/2"	49–5/8"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52–1/8"		65.0	65.0	80.0	80.0
73"		65.0	65.0	80.0	80.0
25–1/2"	62"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52–1/8"		65.0	65.0	80.0	80.0
73"		60.2	60.2	80.0	80.0



OPERATING VENTS TO BE 1/2 OF THE WINDOW WIDTH

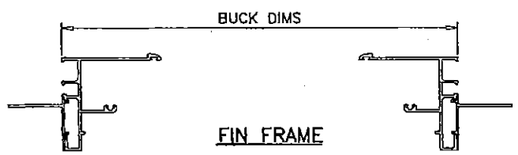
'XO OR OX'

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)							
		STD. MTG. RAIL		H.D. MTG. RAIL		H.D. MTG. RAIL	
BUCK DIMS.		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
54–3/4"	25"	65.0	65.0	80.0	80.0	65.0	65.0
77–15/16"		65.0	65.0	80.0	80.0	65.0	65.0
82–1/2"		65.0	65.0	80.0	80.0	65.0	65.0
54–3/4"	37–3/8"	65.0	65.0	80.0	80.0	65.0	65.0
77–15/16"		65.0	65.0	80.0	80.0	65.0	65.0
82–1/2"		65.0	65.0	80.0	80.0	65.0	65.0
54–3/4"	49–5/8"	65.0	65.0	80.0	80.0	65.0	65.0
77–15/16"		–	–	–	–	65.0	65.0
82–1/2"		–	–	–	–	65.0	65.0
54–3/4"	62"	65.0	65.0	80.0	80.0	65.0	65.0
77–15/16"		–	–	–	–	65.0	65.0
82–1/2"		–	–	–	–	65.0	65.0

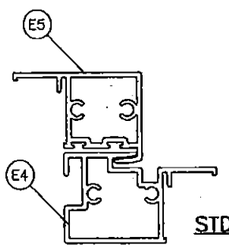


OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

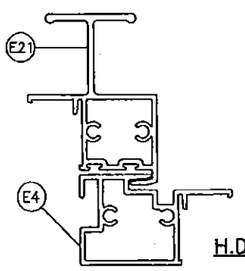
'XO OR OX'



FIN FRAME



STD. MTG. RAIL:



H.D. MTG. RAIL:

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 15–0929.13
Expiration Date 09/22/2020
By
Miami–Dade Product Control

FIN FRAME

MAY 11 2016

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W10–03CGI

SERIES SENTINEL 120 ALUM HORIZ. SLIDING WDW. (L.M.I./S.M.I.)

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593–6590 FAX. (305) 593–6592

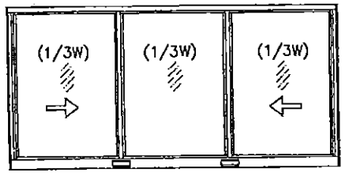
revisions:			
no	date	by	description
C	09.09.14		UPDATED TO 2014 FBC
D	04.10.15		NO CHANGE THIS SHEET
E	04.10.15		NO CHANGE THIS SHEET
F	08.19.15		NEW GLASS ADDED
G	05.02.16		1/3 2/3 OPTION ADDED

date: 03–29–10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no. W10–18

sheet 3 of 11

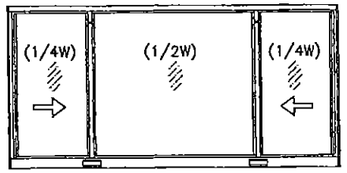
DESIGN LOAD CAPACITY – PSF (XOX SIZES)					
BUCK DIMS.		STD. MTG. RAIL		H.D. MTG. RAIL	
		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
73"	25"	65.0	65.0	80.0	80.0
105–1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	37–3/8"	65.0	65.0	80.0	80.0
105–1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	49–5/8"	65.0	65.0	80.0	80.0
105–1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	62"	65.0	65.0	80.0	80.0
105–1/4"		61.6	61.6	80.0	80.0
110"		60.0	60.0	80.0	80.0



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

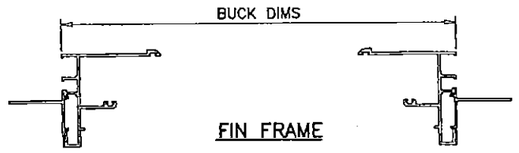
'XOX'

DESIGN LOAD CAPACITY – PSF (XOX SIZES)							
BUCK DIMS.		STD. MTG. RAIL		H.D. MTG. RAIL		H.D. MTG. RAIL	
		GLASS TYPES 'A'&'A1', 'B'&'B1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
73"	25"	65.0	65.0	80.0	80.0	65.0	65.0
105–1/4"		65.0	65.0	80.0	80.0	65.0	65.0
110"		65.0	65.0	80.0	80.0	65.0	65.0
73"	37–3/8"	65.0	65.0	80.0	80.0	65.0	65.0
105–1/4"		65.0	65.0	80.0	80.0	65.0	65.0
110"		65.0	65.0	80.0	80.0	65.0	65.0
73"	49–5/8"	65.0	65.0	80.0	80.0	65.0	65.0
105–1/4"		–	–	–	–	65.0	65.0
110"		–	–	–	–	65.0	65.0
73"	62"	65.0	65.0	80.0	80.0	65.0	65.0
105–1/4"		–	–	–	–	65.0	65.0
110"		–	–	–	–	65.0	65.0

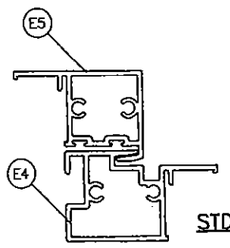


OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

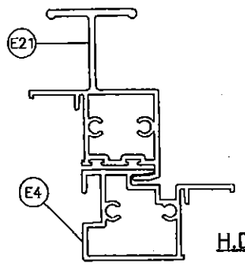
'XOX'



FIN FRAME



STD. MTG. RAIL:



H.D. MTG. RAIL:

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 15–0929.13
Expiration Date 09/22/2020
By Miami–Dade Product Control

MAY 11 2016

FIN FRAME

JAVAD AHMAD LICENSE No. 70582 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W10–03CGI

SERIES SENTINEL 120 ALUM HORIZ SLIDING WDW. (L.M.I./S.M.I.)

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593–6590 FAX. (305) 593–6592

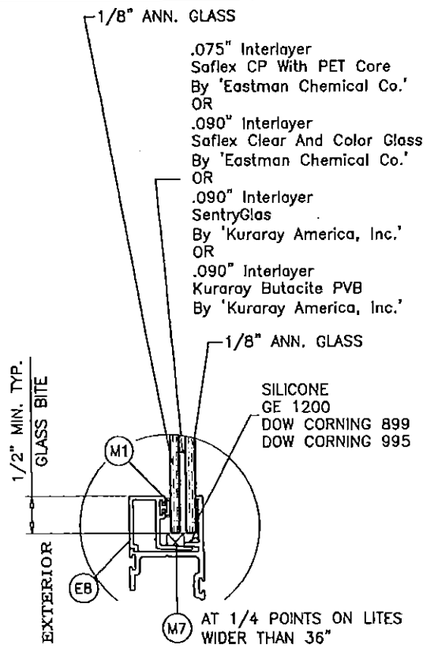
revisions:

no	date	by	description
G	05.02.16		NO CHANGE THIS SHEET

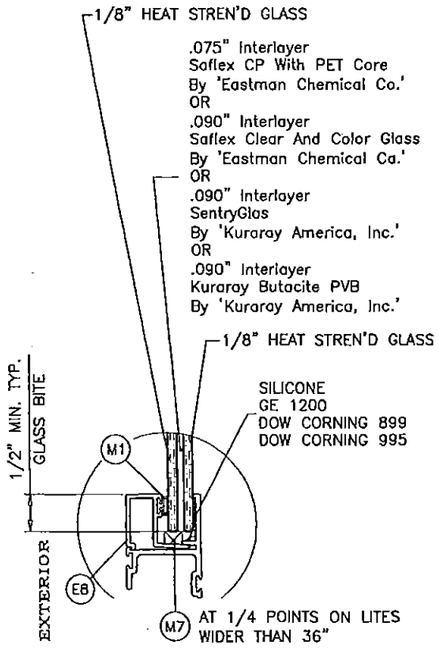
date: 03–29–10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no. W10–18

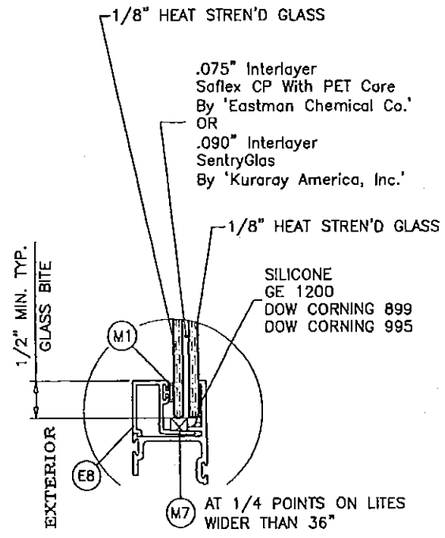
sheet 3.1 of 11



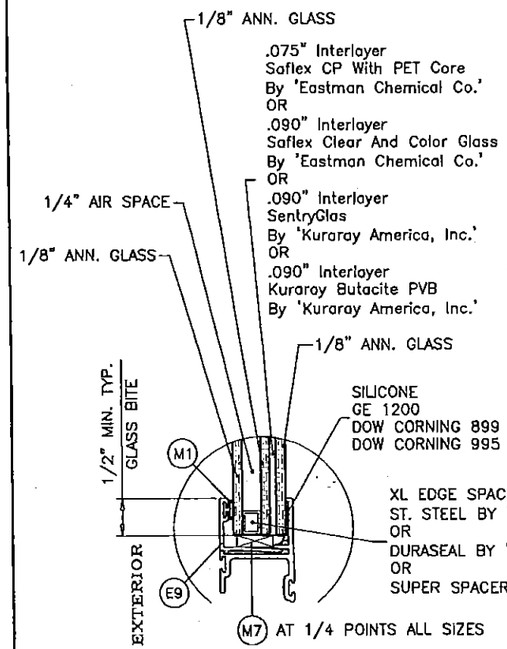
GLASS TYPE 'A'
5/16" NOMINAL LAM. GLASS



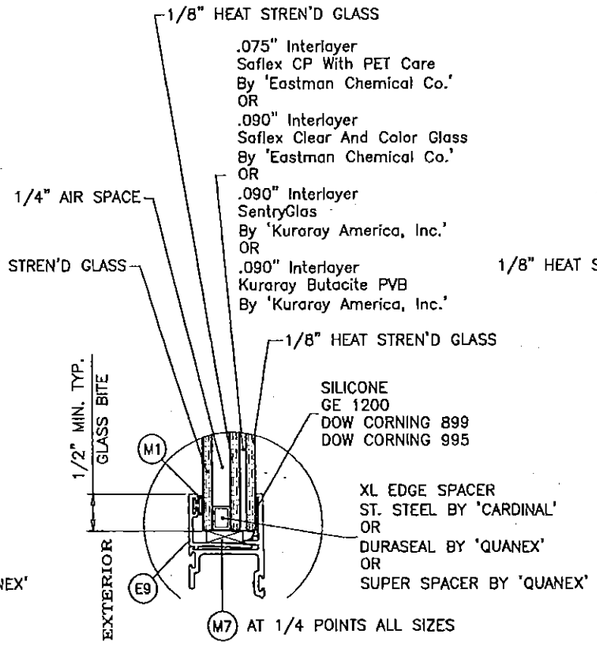
GLASS TYPE 'B'
5/16" NOMINAL LAM. GLASS



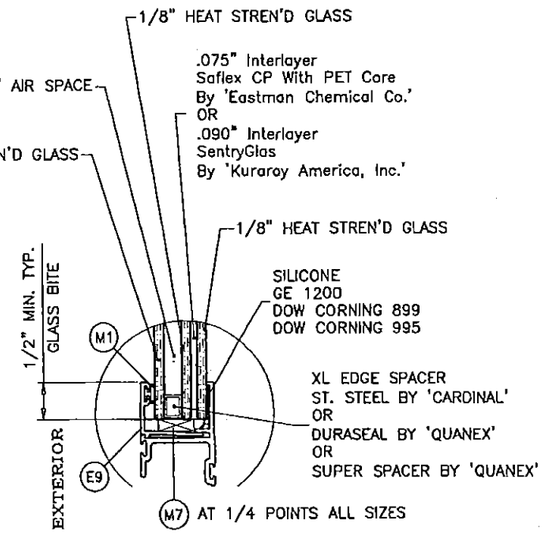
GLASS TYPE 'C'
5/16" NOMINAL LAM. GLASS



GLASS TYPE 'A1'
0.70" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B1'
0.70" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'C1'
0.70" OVERALL INSUL. LAM. GLASS

(S.M.I.)
IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPE 'A1', 'B1' & 'C1' MUST BE TEMPERED.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 15-0929.13
Expiration Date 09/22/2020
By
Miami-Dade Product Control

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAY 11 2016

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
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COMP-ANL\W10-03CGI

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10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

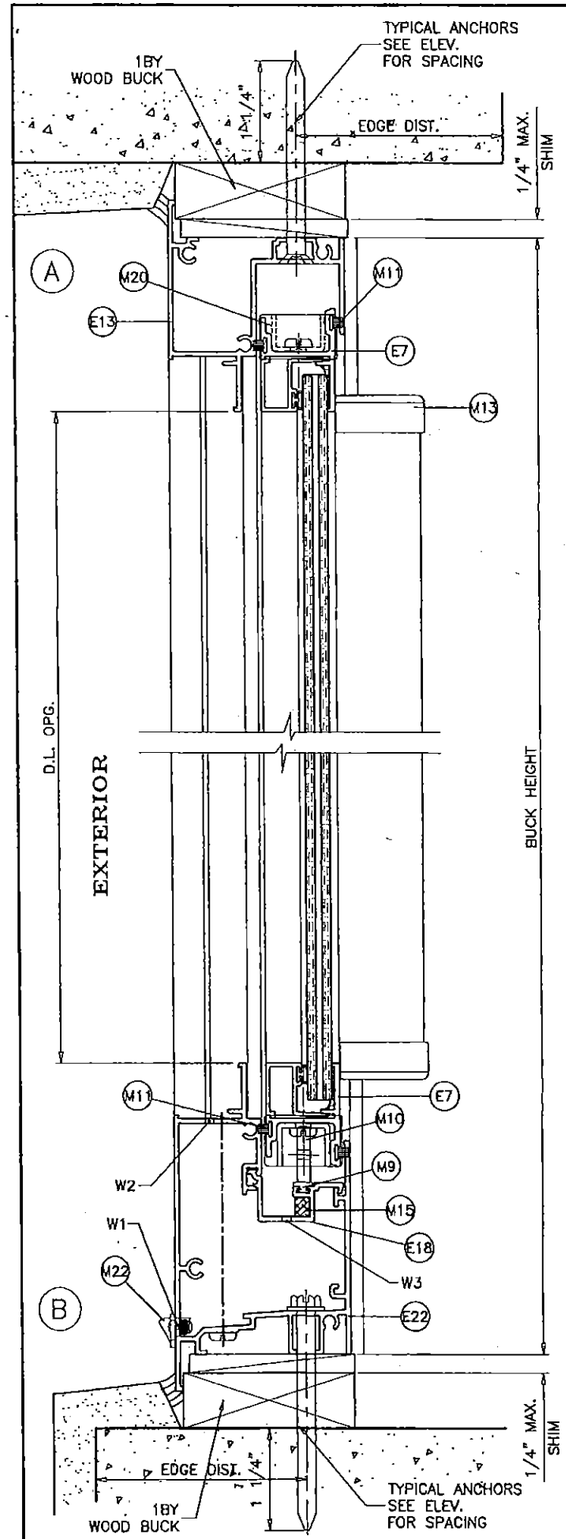
revisions:			
no	date	by	description
C	09.05.14		UPDATED TO 2014 FBC
D	04.10.15		INTERLAYER & SPACER REV.
E	04.10.15		REV. PER RER COMMENTS
F	08.19.15		NEW GLASS ADDED
G	05.02.16		REV. PER RER COMMENTS

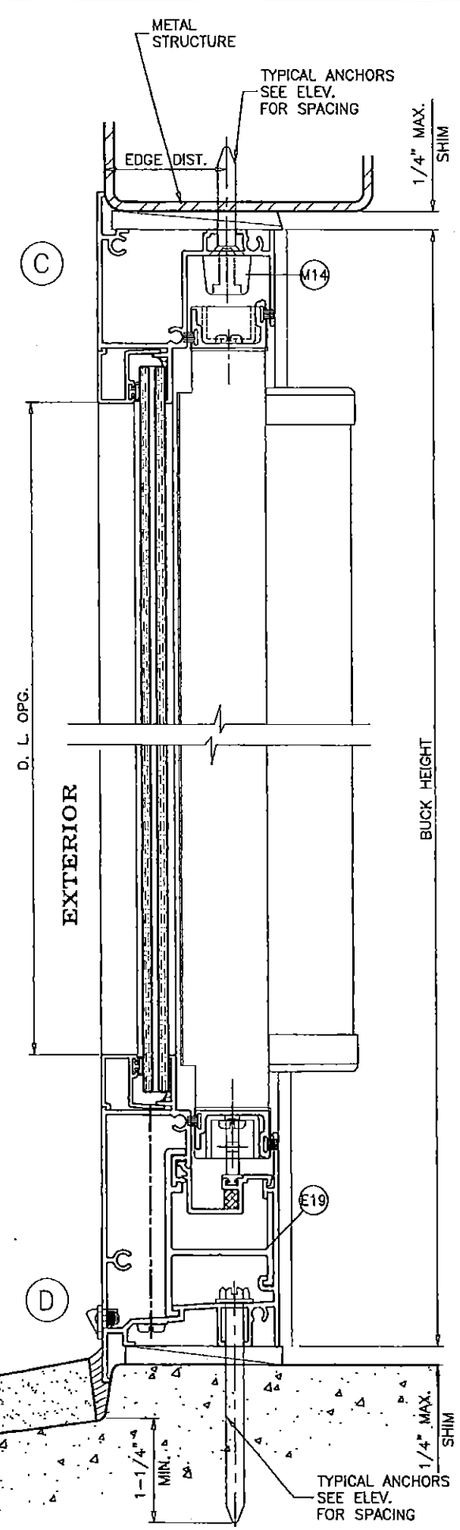
date: 03-29-10
scale: 1/2" = 1"
dr. by:
chk. by:

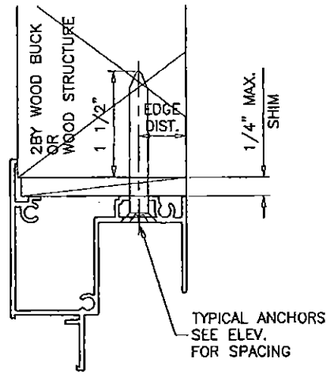
drawing no. W10-18

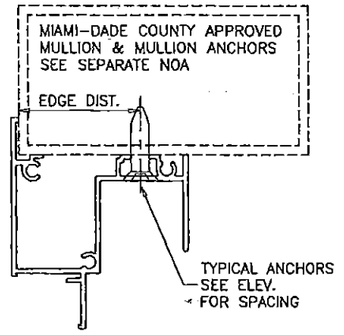
sheet 4 of 11

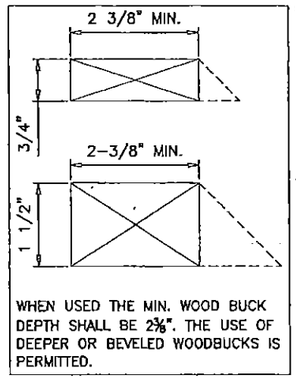
FLANGE & FLANGE ADAPTOR FRAME











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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

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 (Fu=74 KSI, Fy=58 KSI)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK.=1/8")

INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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TYPICAL EDGE DISTANCE

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

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPHOLES:

W1 = 1/4" X 1-1/2" WEEP SLOT AT 4-1/8" FROM EACH END WITH PLASTIC COVER
W2 = 1/8" X 1/2" WEEP SLOT AT 3-1/8" FROM EACH END
W3 = 1/8" X 1/2" WEEP SLOT AT 3-1/8" FROM EACH END

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAY 11 2016

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MIAMI, FLORIDA 33173 FAX. (305) 262-6978
TEL. (305) 264-8100

COMP-ANL\W10-03CGI

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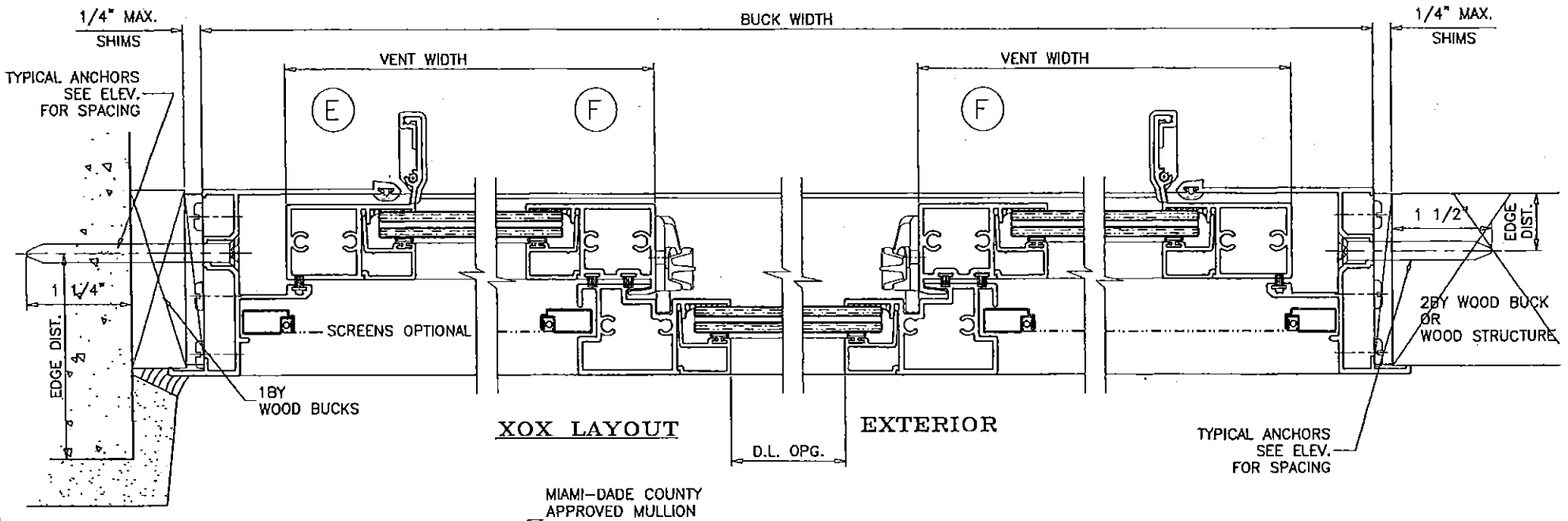
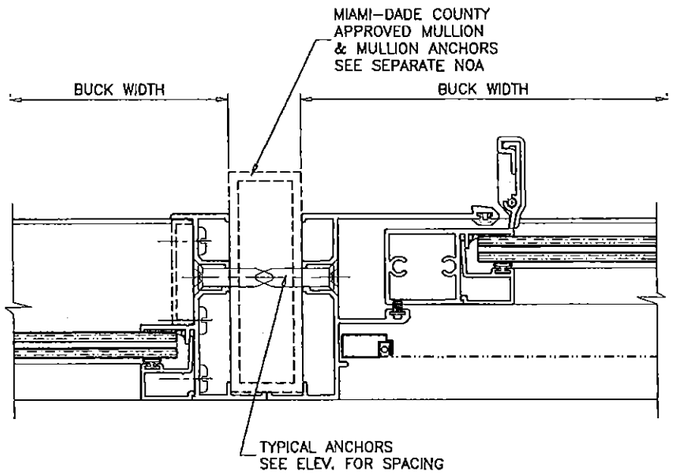
dr. by:
chk. by:

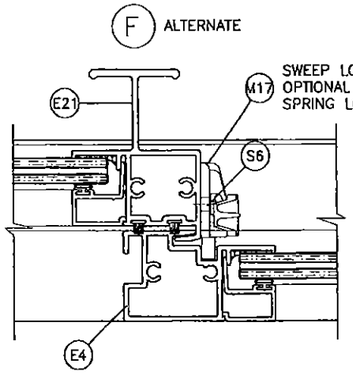
drawing no. W10-18

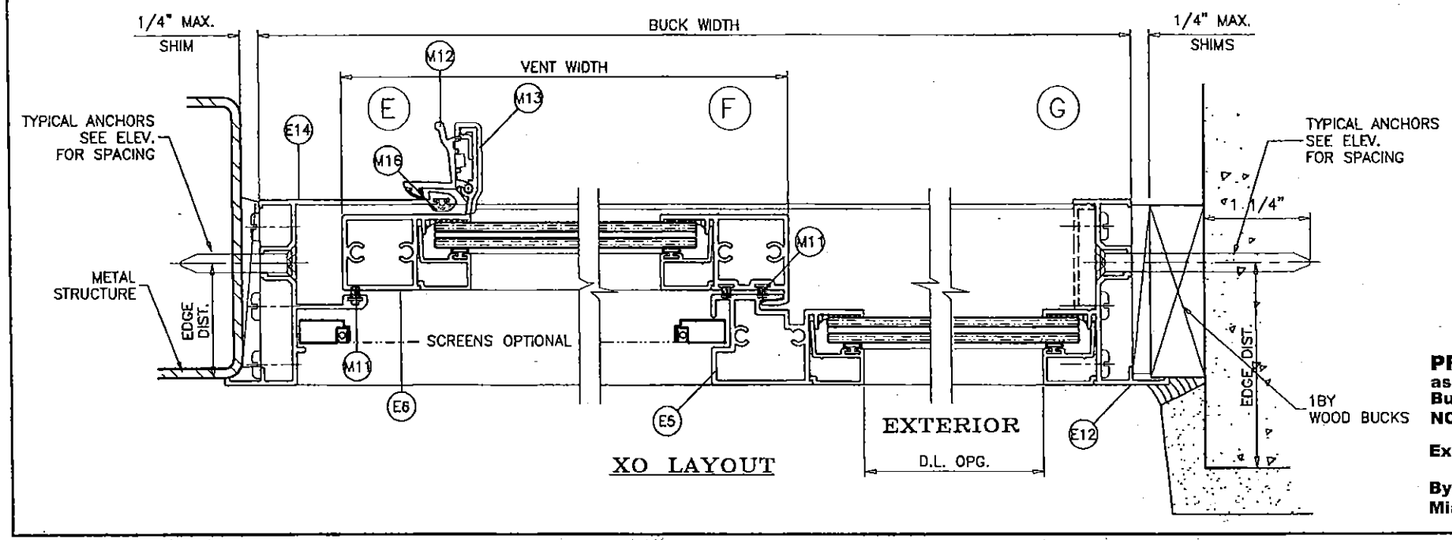
sheet 5 of 11

FLANGE & FLANGE ADAPTOR FRAME

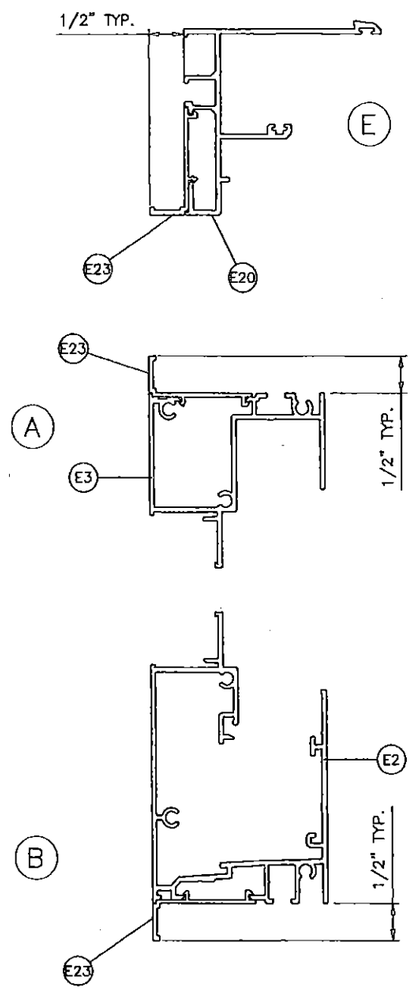








FLANGE ADAPTOR FRAME



INTALLATION DETAILS SHOWN ON PAGES 5 AND 6 APPLY TO BOTH FLANGE FRAME AND FLANGE ADAPTOR FRAMES.

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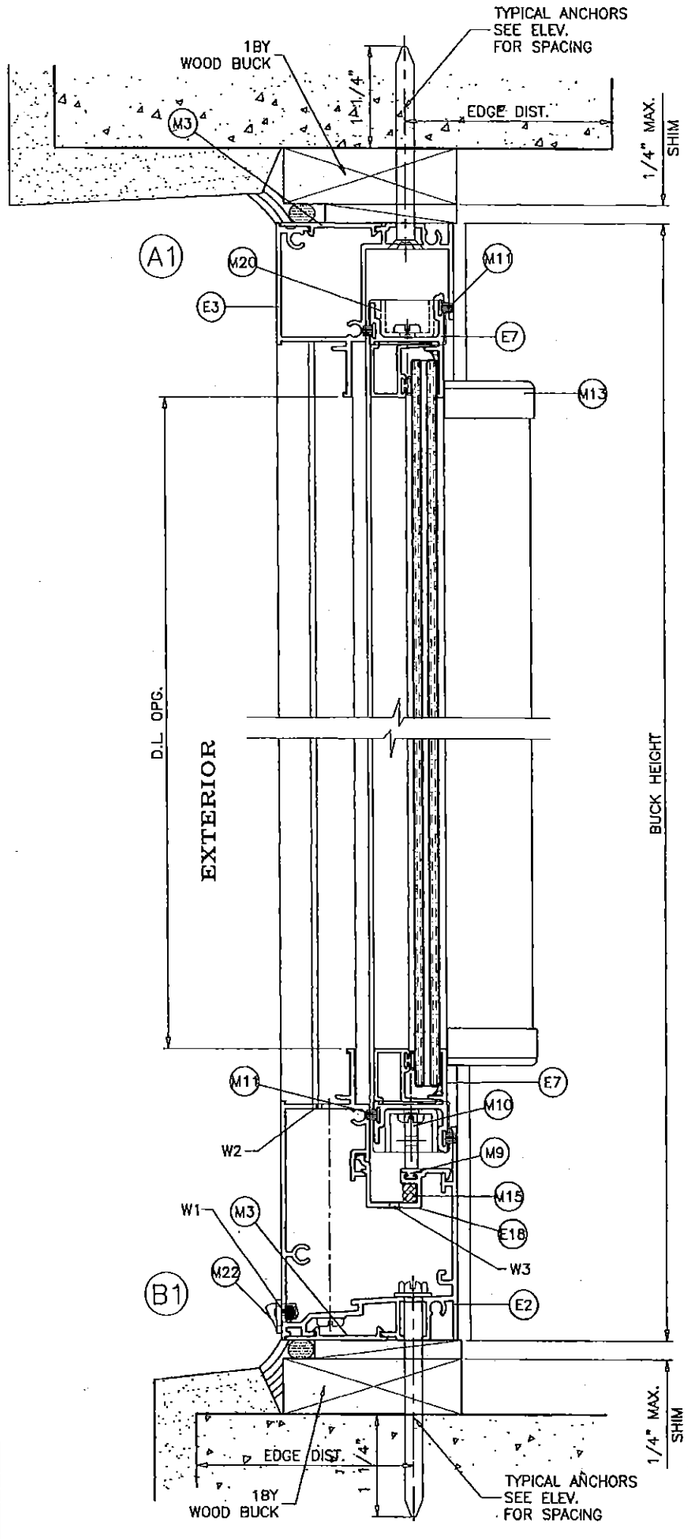
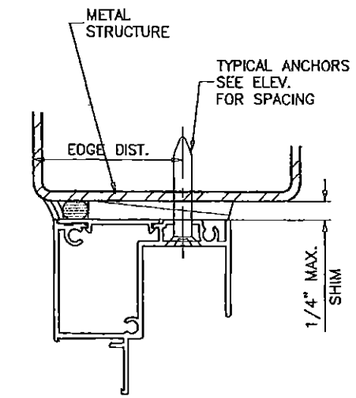
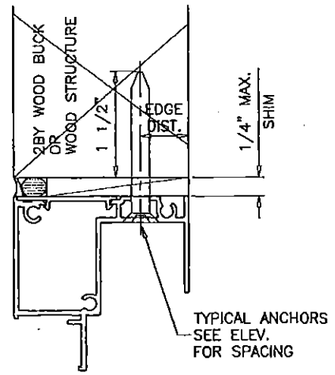
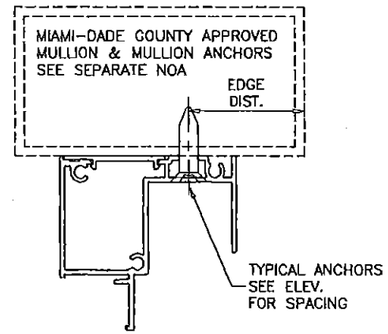
EQUAL LEG FRAME

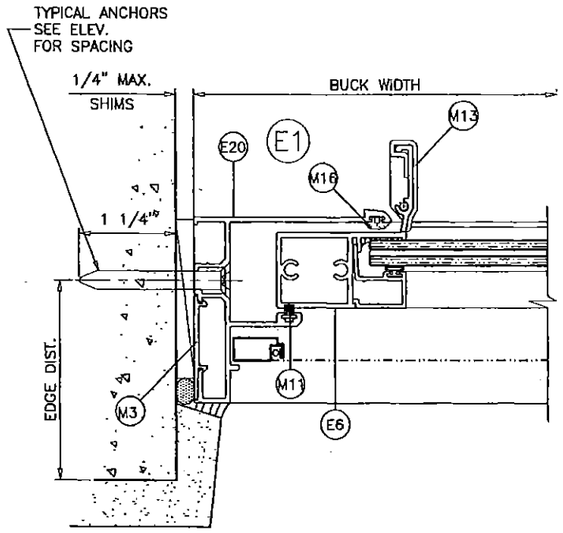


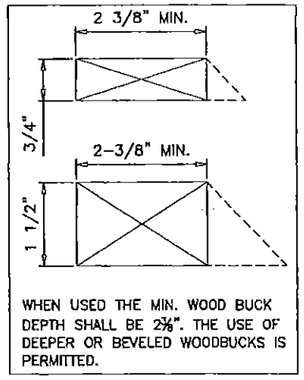




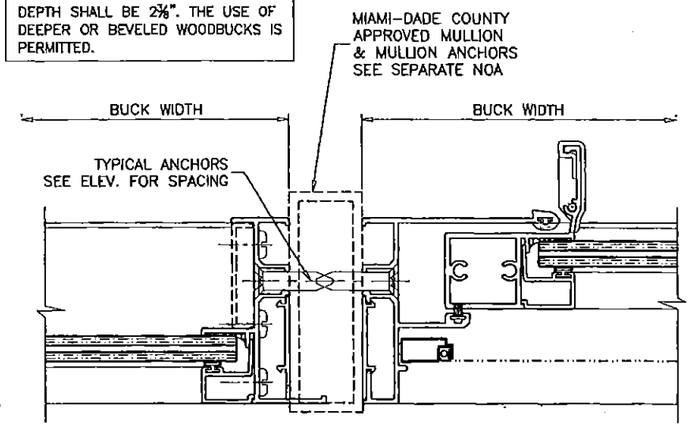


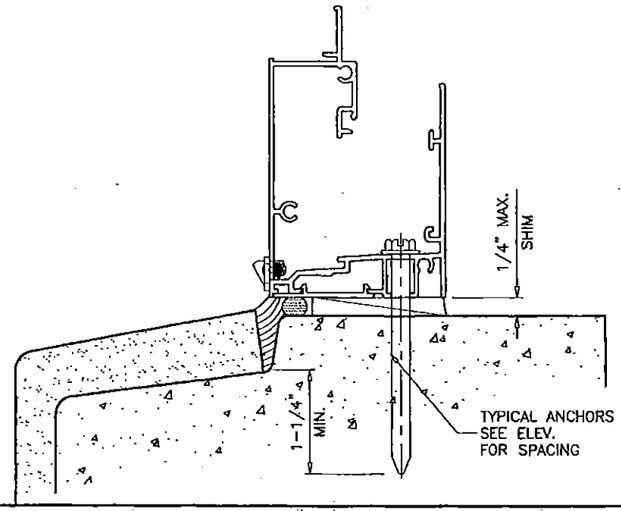
EQUAL LEG FRAME CAN BE INSTALLED DIRECTLY INTO WOOD, CONCRETE OR METAL STRUCTURES WITHOUT THE NEED OF A WOOD BUCK.





WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2⅜". THE USE OF DEEPER OR BEVELED WOODBUCKS IS PERMITTED.





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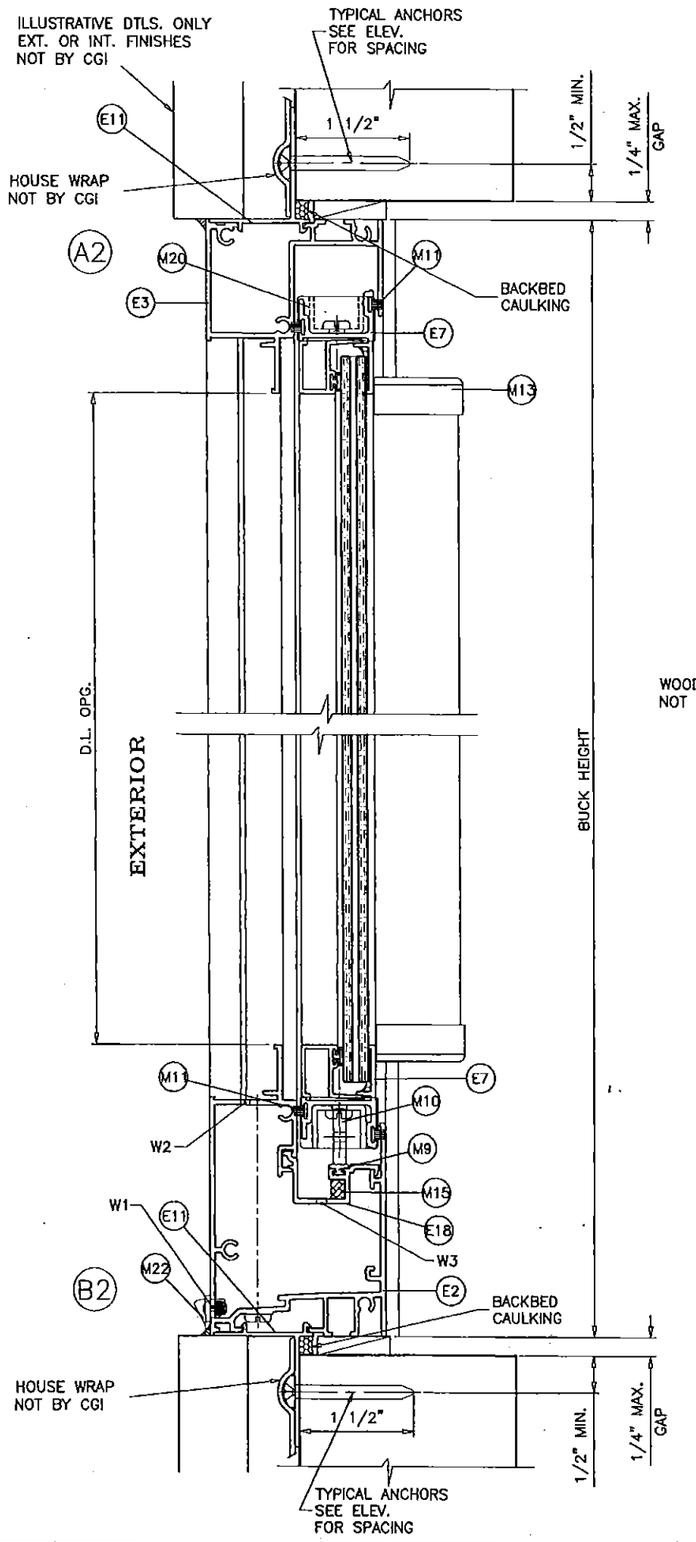
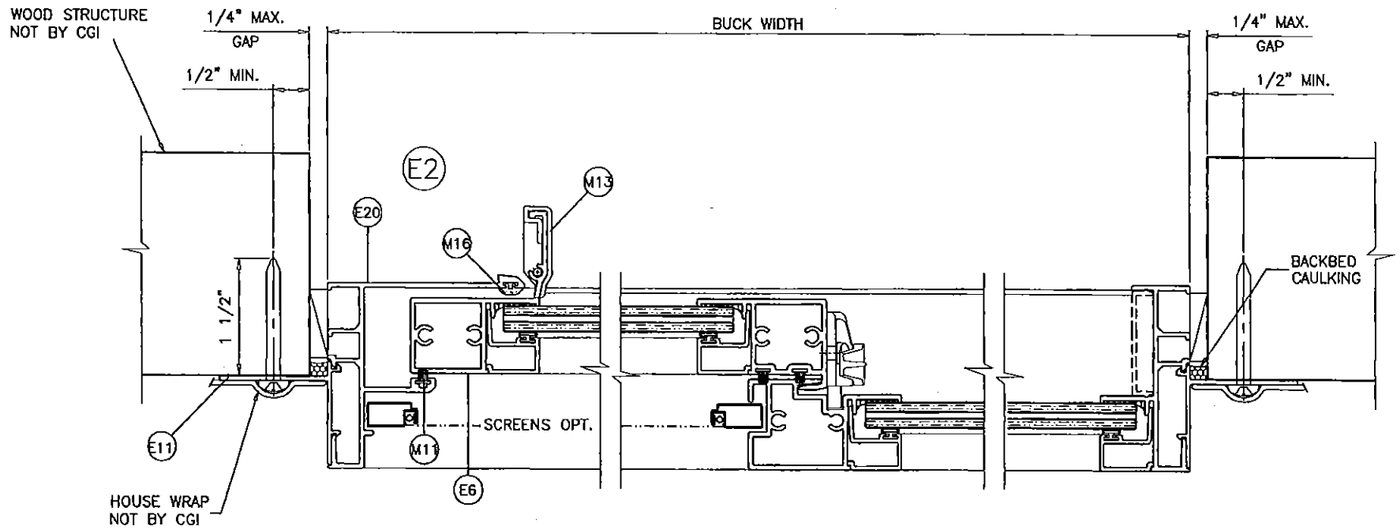
FIN FRAME



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#8 SMS (Fu = 74 KSI MIN.)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD



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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	CGI-100	–	FRAME JAMB @ FIXED GLASS	6063-T6	CGI EXTRUDER
E2	CGI-113	–	FRAME SILL	6063-T6	CGI EXTRUDER
E3	CGI-102	–	FRAME HEAD	6063-T6	CGI EXTRUDER
E4	CGI-103	–	MEETING RAIL	6063-T6	CGI EXTRUDER
E5	CGI-104	–	LOCK RAIL	6063-T6	CGI EXTRUDER
E6	CGI-105	–	HANDLE RAIL	6063-T6	CGI EXTRUDER
E7	CGI-106	–	SASH RAIL	6063-T6	CGI EXTRUDER
E8	CGI-107	–	5/16" GLAZING BEAD	6063-T5	CGI EXTRUDER
E9	CGI-108	–	0.700" GLAZING BEAD	6063-T5	CGI EXTRUDER
E10	CGI-109	–	FRONT FLANGE ADAPTOR	6063-T6	CGI EXTRUDER
E11	CGI-110	–	NAIL FIN ADAPTOR	6063-T6	CGI EXTRUDER
E12	CGI-135	–	TF FRAME JAMB @ FIXED GLASS	6063-T6	CGI EXTRUDER
E13	CGI-136	–	TF FRAME HEAD	6063-T6	CGI EXTRUDER
E14	CGI-139	–	TF FRAME JAMB	6063-T6	CGI EXTRUDER
E15	CGI-140	–	1" MUNTIN	6063-T5	CGI EXTRUDER
E16	CGI-141	–	2.5" MULLION	6063-T6	CGI EXTRUDER
E17	CGI-605	–	SCREEN FRAME	6063-T5	CGI EXTRUDER
E18	CGI-114	–	SILL SNAP IN	6063-T6	CGI EXTRUDER
E19	CGI-115	–	SILL FILLER	6063-T6	CGI EXTRUDER
E20	CGI-116	–	FRAME JAMB	6063-T6	CGI EXTRUDER
E21	CGI-117	–	HD LOCK RAIL	6063-T6	CGI EXTRUDER
E22	CGI-138	–	TF FRAME SILL	6063-T6	CGI EXTRUDER
E23	CGI-109	–	FRONT FLANGE ADAPTOR	6063-T6	CGI EXTRUDER
M1	CGI-382V	–	GLAZING BULB VINYL (DUROMETER 75-80 SHORE A)	PVC	–
M2	CGI-111	–	SCREW COVER (OPTIONAL)	PVC	–
M3	CGI-112	3" @ ANCHORS	EQUAL LEG COVER/SHIM	PVC	–
M4	–	0.700" X 0.040" BEAD	GE1200 SILICONE	SILICONE	GE
M5	–	0.700" X 0.040" BEAD	DOW 995	SILICONE	DOW
M6	–	0.700" X 0.040" BEAD	DOW 899	SILICONE	DOW
M7	–	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
M8	–	–	PROTECTO WRAP WATERPROOFING OR EQUIV.	–	–
M9	684	–	ROLLER TRACK	PVC	–
M10	CGI-128	2 PER SASH	ROLLER HOUSING	NYLON	–
M11	W23201NG	–	PILE WITH CENTER FIN	WOOL	ULTRAFAB OR EQUIV.
M12	CGI-129	1 PER SASH	EGRESS LOCK	ALUM.	SULLIVAN
M13	CGI-131	2 PER SASH	HANDLE RAIL END CAP	NYLON	M&M
M14	391-N	1 PER SASH	ANTILIFT BLOCK	NYLON	M&M
M15	–	OPTIONAL	RETICULATED FOAM 30 PPI	–	–
M16	CGI-134	–	JAMB SPACER	PVC	PROTOTYPE OR EQUIV.
M17	A30730401-32	1 PER WD.	CAM LOCK	ZINC	TRUTH OR EQUIV.
M18	CGI-132	2PER WD. 2"	SASH STOP	PVC	PROTOTYPE
M19	CGI-111	@ FR. HEAD	SCREW COVER	PVC	PROTOTYPE
M20	CGI-125	2PER SASH	SASH CAM (B/T BALANCE)	NYLON	M&M
M22	–	VARIES	HI-FLO WEEP COVERS	PVC	AMESBURY OR EQUIV
S2	–	2 OR 3 PER CORNER	# 10 X 1 1/4" LG. PHL. PH. SMS. ST/ST. ASSEMBLY SCREW	–	–
S3	–	1 1/4" EMBED.	# 8 X 1 1/2" LG. PHL. PH. SMS. FIN ANCHOR SCREW	–	–
S4	–	4 PER WD.	# 8 X 1/2" PH. SMS. ST/ST BALANCE BRACKET SCREW	–	–
S5		2 PER WD.	# 8 X 1" LG. FH. SMS. ST/ST. SPIRAL B. ASSEMBLY	–	–
S6	–	–	# 6 X 1/2" LG. FH. SMS. @ CGI-133 & CAM LOCK	–	–
S8	–	4 @M. RAIL	# 10 X 4" LG. PHL. PH. SMS. ST/ST. ASSEMBLY MEETING RAIL	–	–
S9	–	2 PER ANTILIFT	# 10 X 5/8" LG. PHL. PH. SMS. ST/ST. ANTILIFT SCREW	–	–

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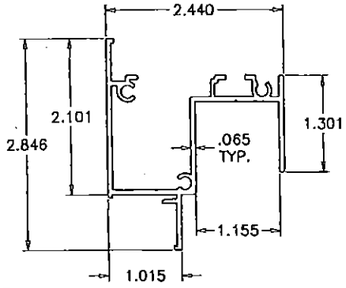
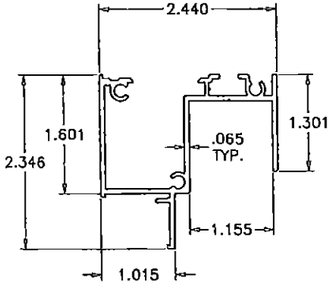
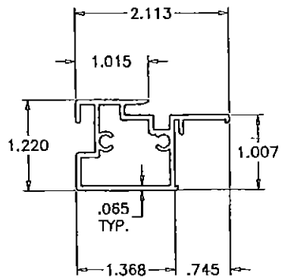


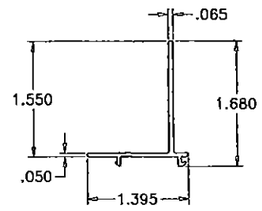
E13 FLANGE FRAME HEAD



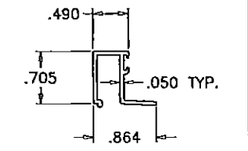
E3 FLUSH FRAME HEAD



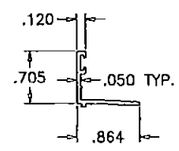
E4 MEETING RAIL



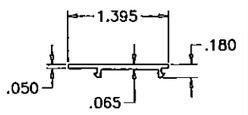
E11 NAIL FIN ADAPTER



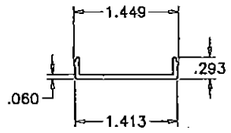
E8 5/16" GLAZING BEAD



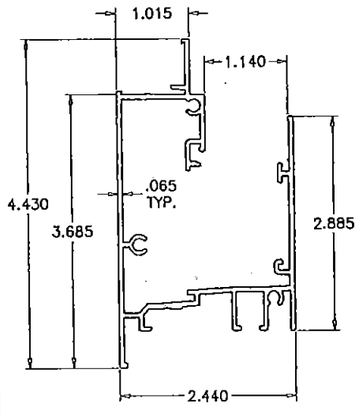
E9 .700" GLAZING BEAD



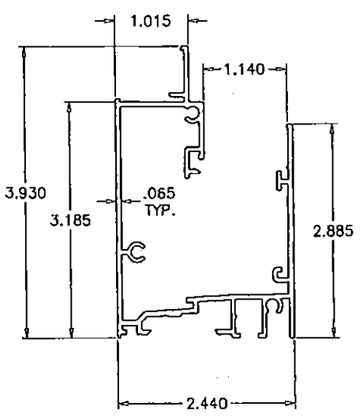
M3 FLUSH FRAME COVER



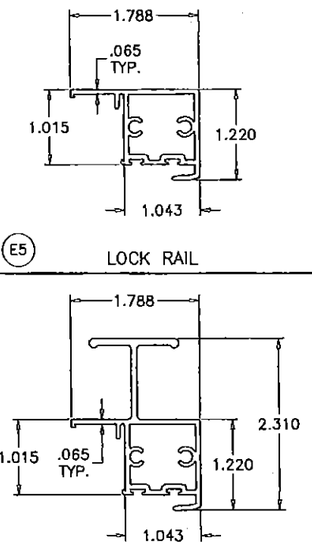
M2 SCREW COVER



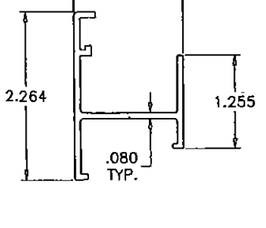
E22 FLANGE FRAME SILL



E2 FLUSH FRAME SILL

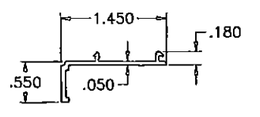


E5 LOCK RAIL

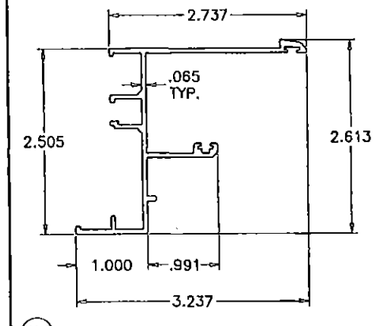


E19 SILL FILLER

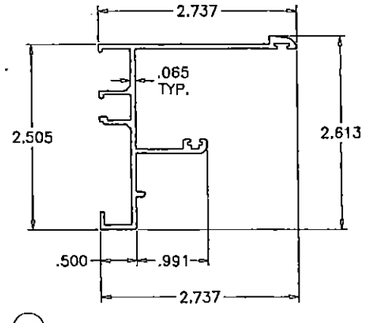
E21 ALT. LOCK RAIL



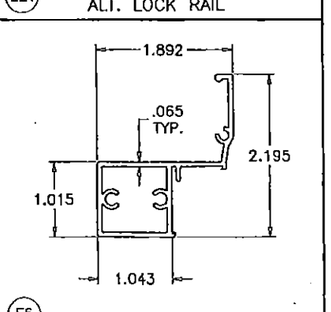
E23 FLANGE ADAPTOR



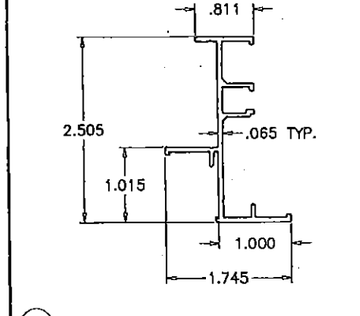
E14 FLANGE FRAME JAMB (MOVING)



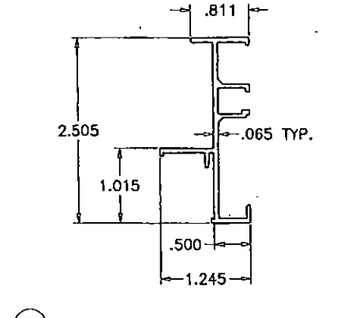
E20 FLUSH FRAME JAMB (MOVING)



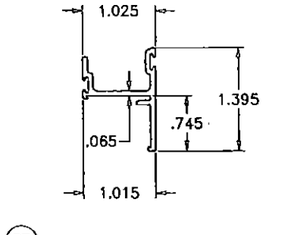
E6 HANDLE RAIL



E12 FLANGE FRAME JAMB (FIXED)



E1 FLUSH FRAME JAMB (FIXED)



E7 SASH RAIL

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 15-0929.13
Expiration Date 09/22/2020
By
Miami-Dade Product Control

MAY 11 2016

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W10-03CGI

SERIES SENTINEL 120 ALUM HORIZ. SLIDING WDW. (L.M.I./S.M.I.)

CGI Windows and Doors, Inc.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

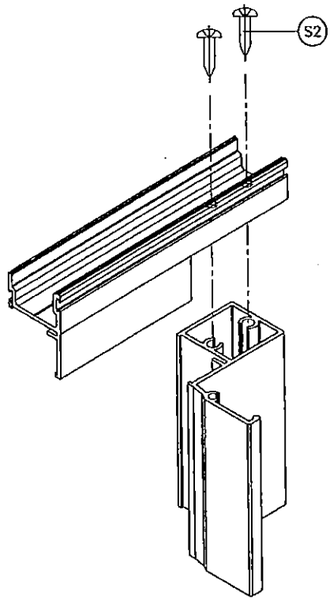
revisions:

no	date	by	description
C	09.09.14		UPDATED TO 2014 FBC
D	04.10.15		NO CHANGE THIS SHEET
E	04.10.15		NO CHANGE THIS SHEET
F	08.19.15		NO CHANGE THIS SHEET
G	05.02.16		NO CHANGE THIS SHEET

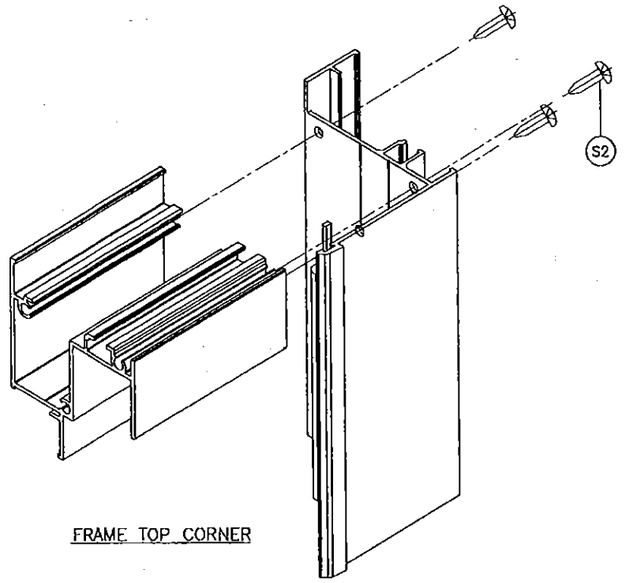
date: 03-29-10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no. W10-18

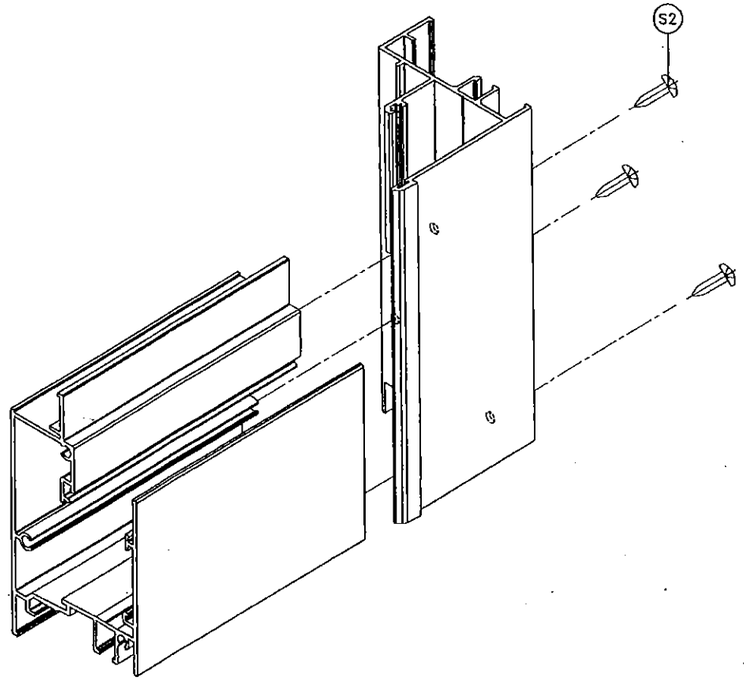
sheet 10 of 11



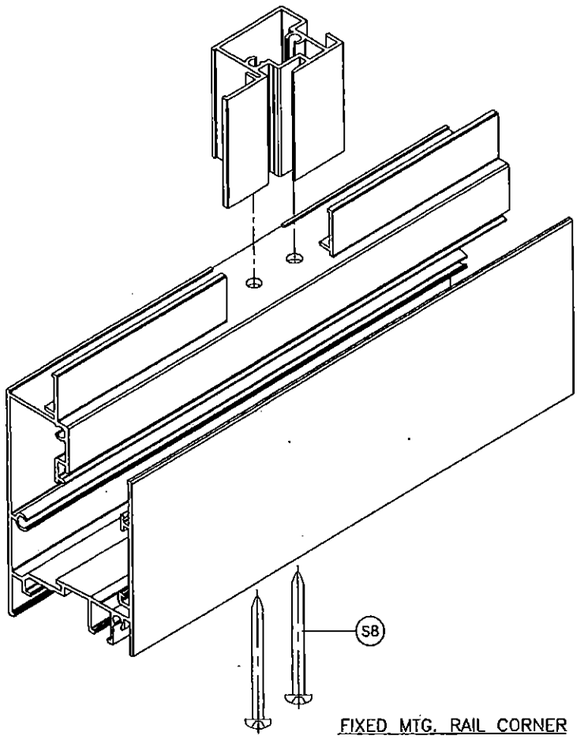
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNER



FRAME BOTTOM CORNER



FIXED MTG. RAIL CORNER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 15-0929.13
Expiration Date 09/22/2020
By
Miami-Dade Product Control

MAY 11 2015

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

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W10-18

sheet 11 of 11