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

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

# NOTICE OF ACCEPTANCE (NOA)

**CGI Windows and Doors, Inc.**
**10100 NW 25th 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 "360" Aluminum Single Hung Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W05–04**, titled Series "360" Alum Single Hung Wdw. (L.M.I.), sheets 1, 1A, 2, 2A, 3, 3A, 4, 4A and 5 through 10 of 10, dated 01/28/05, with revision F dated 05/05/15, 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 Missile Impact Resistant.**

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

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

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

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

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

This NOA **revises NOA# 12-0822.11** 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 **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

8/24/15

**CGI Windows and Doors, Inc.**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### A. DRAWINGS

1. Manufacturer's die drawings and sections.
   ***(Submitted under NOA No. 05-0215.02)***
2. Drawing No. **W05-04** titled Series "360" Alum Single Hung Wdw. (L.M.I.)", sheets 1, 1A, 2, 2A, 3, 3A, 4, 4A and 5 through 10 of 10, dated 01/28/05, with revision F dated 05/05/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

### B. TESTS

1. 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 7500 PVC 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.
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 7400 PVC 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.
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 238 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.

Manuel Perez

**Manuel Perez, P.E.**
**Product Control Examiner**
**NOA No. 15-0512.07**
**Expiration Date: May 05, 2020**
**Approval Date: September 03, 2015**

**B. TESTS** (CONTINUED)

**4.** Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, per FBC 2411 3.2.1, TAS 202-94, per ASTM F 588–04, AAMA 1302.5–04 and CAWM 301–04
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0402-08, specimens 1, 2, 3** and **4**, dated 04/03/08 to 07/22/08, signed and sealed by Vinu J. Abraham, P.E.
***(Submitted under NOA No. 08-1208.06)***

**5.** Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, per FBC 2411 3.2.1, TAS 202-94, per ASTM F 588-04, AAMA 1302.5-04 and CAWM 301–04
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0323-04, specimens 1, 2, 3, 4, 5, 6, 7** and **9**, dated 03/29/04 to 04/02/04, signed and sealed by Vinu J. Abraham, P.E.
***(Submitted under NOA No. 05-0215.02)***

**C. CALCULATIONS**

**1.** Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated July 16, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
***(Submitted under previous NOA No. 14-0822.11)***

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

**D. QUALITY ASSURANCE**

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

**Manuel Perez, P.E.**
**Product Control Examiner**
**NOA No. 15-0512.07**
**Expiration Date: May 05, 2020**
**Approval Date: September 03, 2015**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### E. MATERIAL CERTIFICATIONS

1. 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.
2. 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.
3. Notice of Acceptance No. **14-0423.16** issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 06/19/14, expiring on 04/14/18.

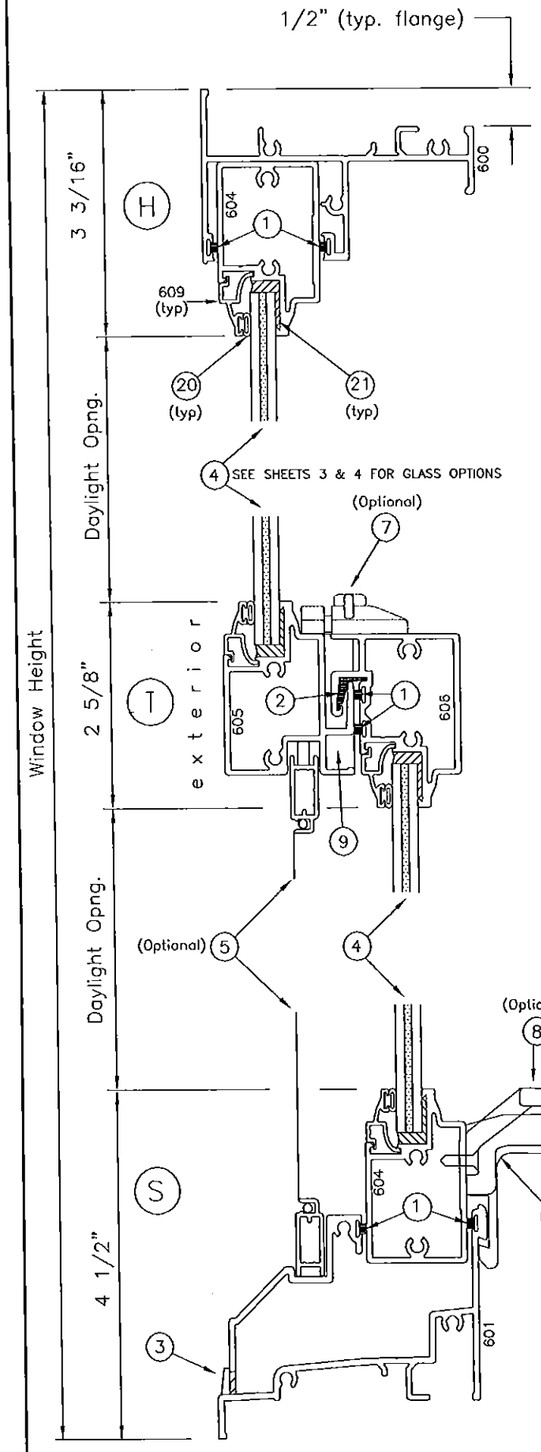
### F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated July 16, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   ***(Submitted under previous NOA No. 14-0822.11)***
2. Laboratory compliance letters for Test Report No. **HTL-0080-0402-08, specimens 1, 2, 3** and **4**, issued by Hurricane Test Laboratory, Inc., dated 07/22/08, signed and sealed by Vinu J. Abraham, P.E.
   ***(Submitted under NOA No. 08-1208.06)***
3. Laboratory compliance letters for Test Report No. **HTL-0080-0323-04, specimens 1, 2, 3, 4, 5, 6, 7** and **9**, issued by Hurricane Test Laboratory, Inc., dated 04/02/04, signed and sealed by Vinu J. Abraham, P.E.
   ***(Submitted under NOA No. 05-0215.02)***
4. Test Proposal for the qualification of ***Butacite®*** PVB glass interlayer by DuPont as well as ***Duraseal®*** and ***Super Spacer® Standard*** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, Supervisor.

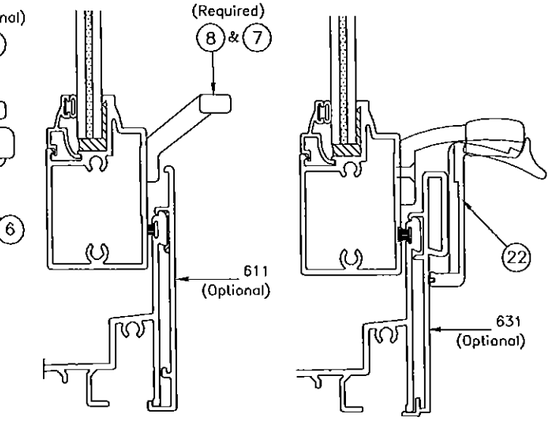
### G. OTHERS

1. Notice of Acceptance No. **14-0822.11**, issued to CGI Windows & Doors for their Series "360" Aluminum Single Hung Window – L.M.I., approved on 10/16/14 and expiring on 05/05/20.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.07
Expiration Date: May 05, 2020
Approval Date: September 03, 2015



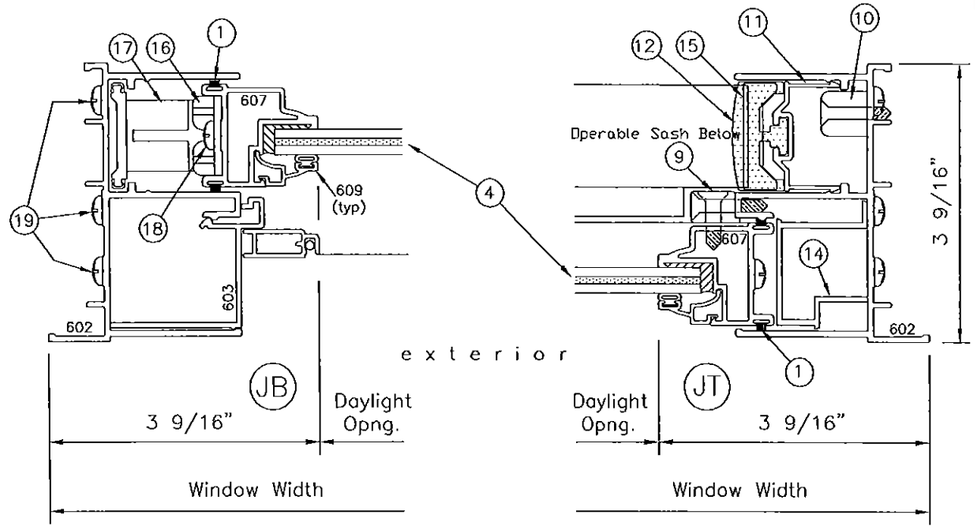

Standard 12 Psf Sill



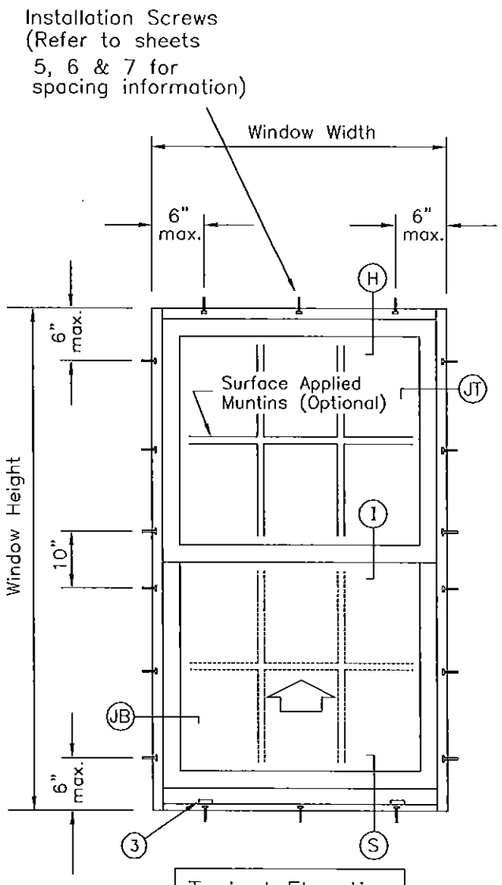

Optional 15 PSF Water Bar Adaptors

Can not be used with lock type ⑥

## General Window Sections




FRAME AND VENT DETAILS FOR GLASS TYPES 1 & 2.
SEE SHEETS 3 & 4 FOR CAPACITIES.




Typical Elevation

## INSTRUCTIONS FOR USING CAPACITY CHARTS:

**STEP 1** DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW OPENING.

**STEP 2** DETERMINE THE CAPACITY OF THE WINDOW SIZE/CONFIGURATION/GLASS TYPE FROM CHARTS ON SHEETS 3 AND 4.

**STEP 3** DETERMINE THE ANCHOR CAPACITY FROM SHEET 7 FOR SINGLE OPENINGS, APPLICABLE TO ANCHORS TYPE A, B OR C SHOWN ON SHEETS 5 AND 6.

**STEP 4** IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM SHEET 9.

**STEP 5** FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION/MULLION ANCHORS CAPACITY FOR 1X4 TUBE MULLION FROM CHARTS ON SHEET 8.

**STEP 6** IF ALUMINUM BUCKS ARE USED DETERMINE BUCK ANCHORING REQUIREMENTS FROM CHARTS ON SHEET 10.

THE LOWEST SELECTED VALUE APPLY TO THE INSTALLATION AND MUST EQUAL OR EXCEED THE REQUIRED DESIGN PRESSURES OBTAINED FROM STEP 1.

## SERIES '360' ALUMINUM SINGLE HUNG WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG 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 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.

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

**PRODUCT REVISED**
as complying with the Florida Building Code
Acceptance No 15-0512.07
Expiration Date May 5 2020
By _____
Miami Dade Product Control

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

JUL 30 2015

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\W005-04CGI

SERIES '360' ALUM SINGLE HUNG WDW. (L.M.I.)

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

revisions:

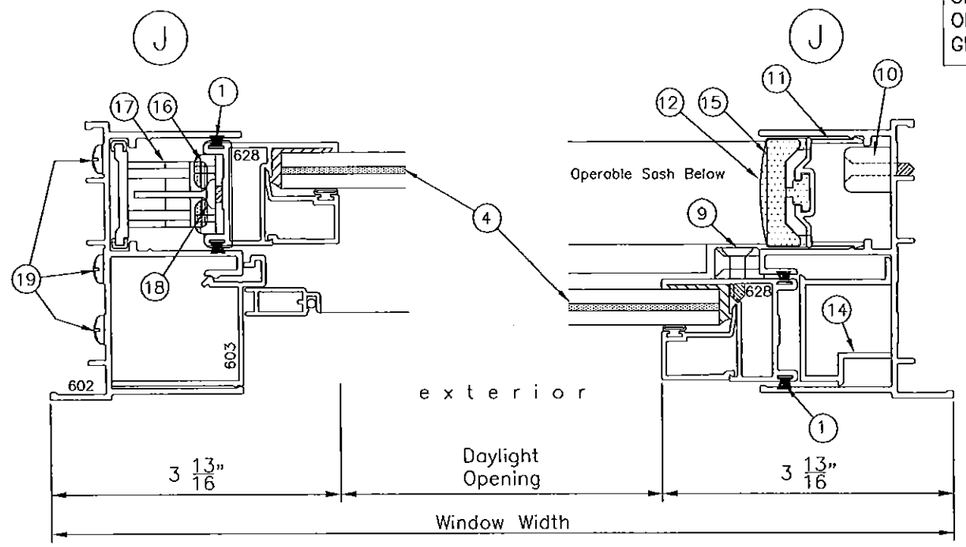
| no | date | by | description |
|---|---|---|---|
| C | 11.12.08 | | NOTES REV. |
| D | 01.03.12 | | UPDATED TO 2010 FBC |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

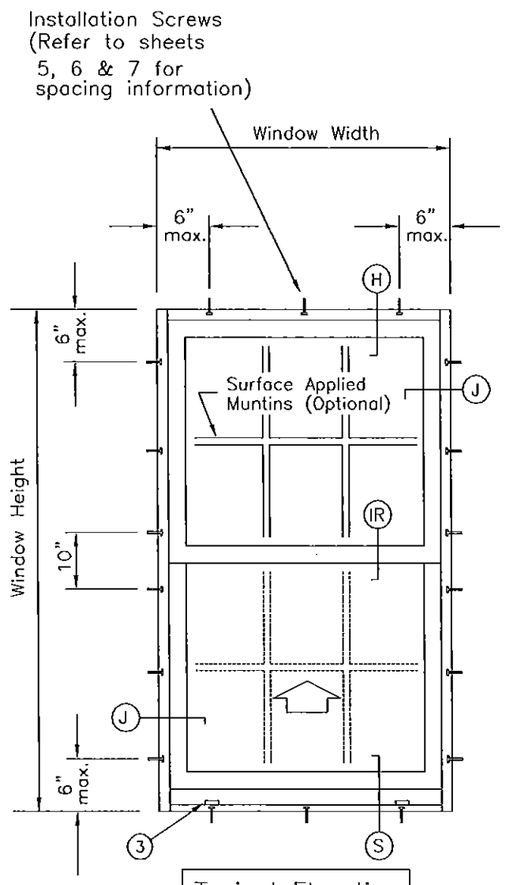
date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

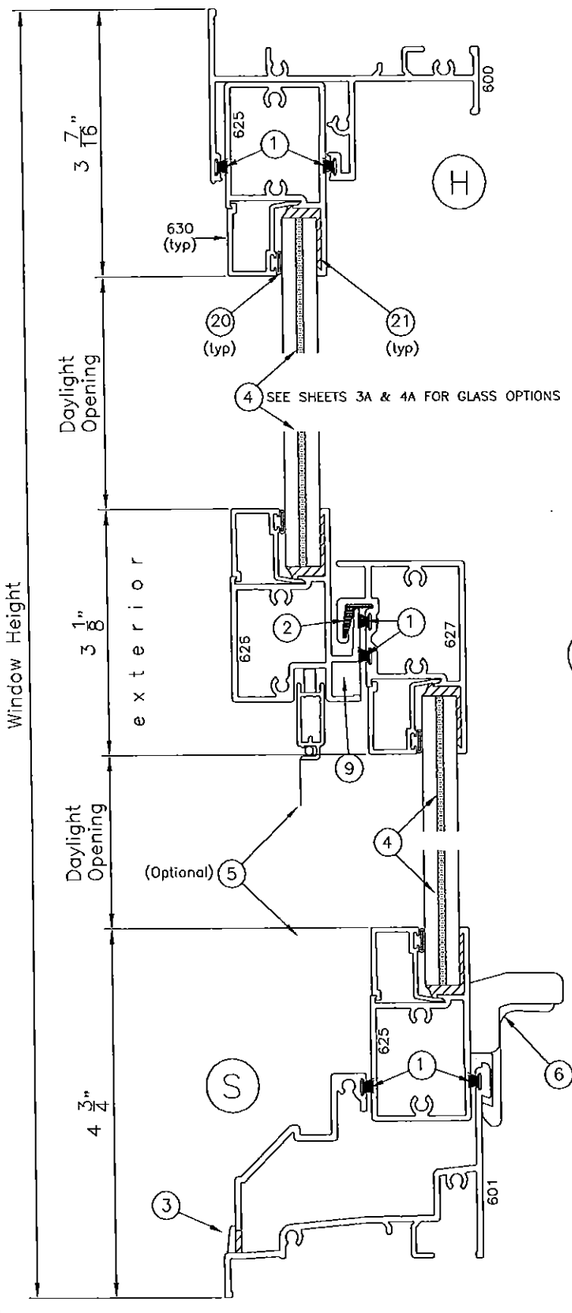
sheet 1 of 10

FRAME AND VENT DETAILS FOR GLASS TYPES 3, 3A, 4 AND 4A.
SEE SHEETS 3A & 4A FOR CAPACITIES.
OPTIONAL TOP RAIL SWEEP LOCK NOT AVAILABLE WITH THESE GLASS TYPES.

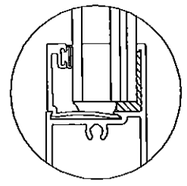


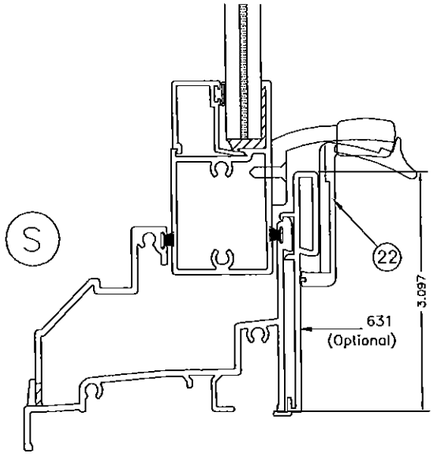

Typical Elevation




Standard 12 Psf Sill



Glazing at Insulated Laminated




Optional 15 PSF Water Bar Adaptor

Can not be used with lock type ⑥

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revisions:

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|---|---|---|---|
| C | 11.12.08 | | NEW SHEET ADDED |
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date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

# Bill of Materials

| ITEM | PART # | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPPLIER | REMARKS |
|---|---|---|---|---|---|---|
| 1 | W23201NG | AS REQD. | WOOL PILE WITH CENTER SOFT FIN (GRAY) | PILE | ULTRAFAB/SCHLEGEL | |
| 2 | CGI-612P | AS REQD. | PLASTIC BUMPER GUIDE | PVC | PROTOTYPE PLASTIC EXTRUSIONS | CONTINUOUS AT INTERLOCK |
| 3 | #146-4 | 2 | WEEP HOLE COVER | NYLON | BUILDERS PLASTIC COMPANY | |
| 4 | N/A | AS REQD. | GLAZING | GLASS | VARIES | |
| 5 | N/A | 1 | COMPLETE SCREEN | ALUM/MESH | | |
| 6 | CGI-615C & 616C | 1 OR 2 | COMBINATION EGRESS LOCK AND LIFT/PULL ATTACHED W/(2) #8 X 5/8" FH SMS | ZINC | CUSTOM CASTING | 1 @ WDWS. 28" WIDE & SMALLER<br>2 @ WDWS. OVER 28" WIDE |
| 7 | A30700 & C30705 | 1 OR 2 | OPTIONAL SWEEP LOCK & KEEPER (replaces item 6) ATTACHED W/(4) #6 X 5/8" FH SMS | ZINC | TRUTH HARDWARE OR EQUIV. | 1 @ WDWS. 28" WIDE & SMALLER<br>2 @ WDWS. OVER 28" WIDE |
| 8 | 18-11-XX-100 | 1 OR 2 | | ZINC | TRUTH HARDWARE OF EQUIV. | 1 @ WDWS. 28" WIDE & SMALLER<br>2 @ WDWS. OVER 28" WIDE |
| 9 | CGI-614C | 2 | TIE DOWN BLOCK | ZINC | CUSTOM CASTING | |
| 10 | VARIES | 2 | BALANCES (B&T OR SPIRAL) | VARIES | VARIES | BOTH BALANCES CAN BE USED |
| 11 | CGI-617P | 2 | BALANCE COVER | PVC | PROTOTYPE PLASTIC EXTRUSIONS | LOCATED AT TOP HALF OF EACH JAMB |
| 12 | CGI-618P | 2 | VENT STOP | PVC | PROTOTYPE PLASTIC EXTRUSIONS | LOCATED AT TOP OF JAMBS |
| 14 | CGI-613P | 2 | FIXED VENT SHIM | PVC | PROTOTYPE PLASTIC EXTRUSIONS | LOCATED AT TOP OF FIXED VENT |
| 15 | CGI-619P | 2 | TOP GUIDE AT OPERABLE VENT | NYLON | CUSTOM CASTING | |
| 16 | CGI-622N | 2 | BOTTOM GUIDE/CLIP AT OPERABLE VENT | NYLON | CUSTOM CASTING | |
| 17 | CGI-620C & 621N | 2 | CARRIER SYSTEM | ZINC | CUSTOM CASTING | OPTIONAL - BALANCE ATTACHES TO IT |
| 18 | N/A | 16 | VENT ASSEMBLY SCREWS | S/S | VARIES | #10 X 1 1/4" PH SMS (2 PER CORNER) |
| 19 | N/A | 12 | FRAME ASSEMBLY SCREWS | S/S | VARIES | #10 X 1 1/4" PH SMS (2 PER CORNER) |
| 20 | CGI-382V | AS REQD. | VINYL BULB | PVC | PROTOTYPE PLASTIC EXTRUSIONS | |
| 21 | VARIES | AS REQD. | STUCTURAL SILICONE | SILICONE | 3 SILICONES | GE-1200, GE-2000, & DOW 995 |
| 22 | CGI-632 | 1 OR 2 | COMBINATION EGRESS WB LOCK & LIFT/PULL ATTACHED W/(2) #8 X 5/8" FH SMS | ZINC | CUSTOM CASTING (FOR USE WITH WATERBAR) | 1 @ WDWS. 28" WIDE & SMALLER<br>2 @ WDWS. OVER 28" WIDE |
| 23 | - | 2/ LITE | SETTING BLOCKS | EPDM | - | DUROMETER 85±5 SHORE A |

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Miami-Dade Product Control

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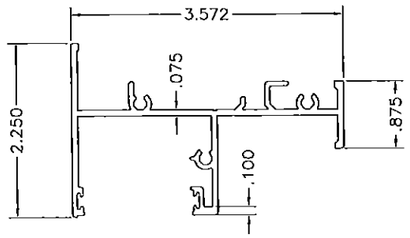
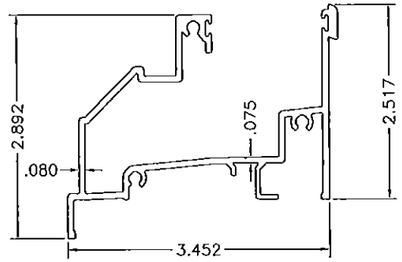
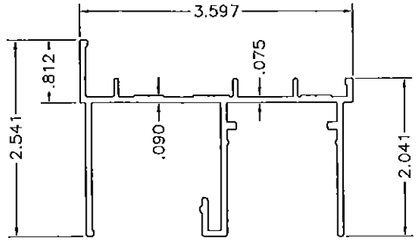



600–Frame Head
6063–T6

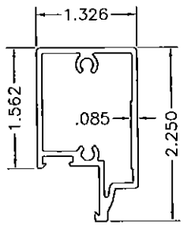



601–Frame Sill
6063–T6

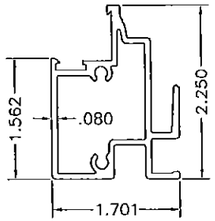



602–Frame Jamb
6063–T6

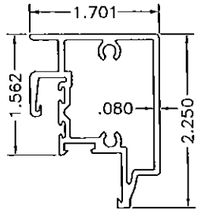
VENT SHAPES FOR GLASS TYPES 1 & 2



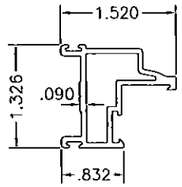

604–Horiz. Rail
6063–T6



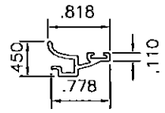

605–Fixed Intlck.
6063–T6




606–Moving Intlck.
6063–T6

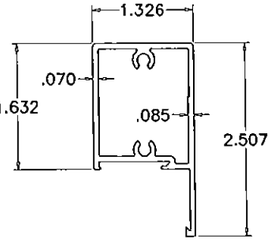



607–Side Rail
6063–T6

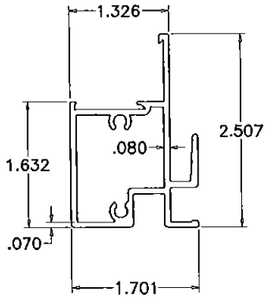



609–Glzg. Bead
6063–T5

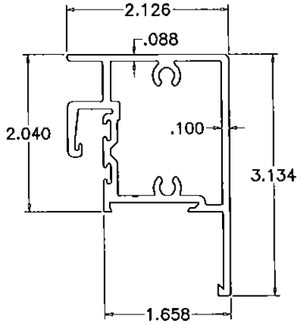
VENT SHAPES FOR GLASS TYPES 3, 3A, 4 & 4A



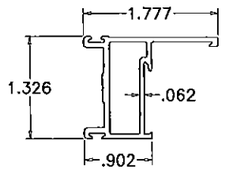

625–Horiz. Rail
6063–T6



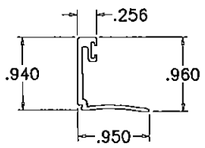

626–Fixed Intlck.
6063–T6



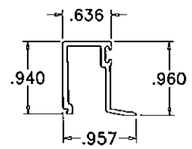

627–Moving Intlck.
6063–T6



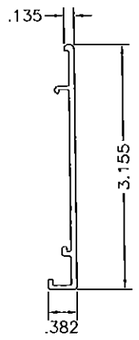

628–Side Rail
6063–T6



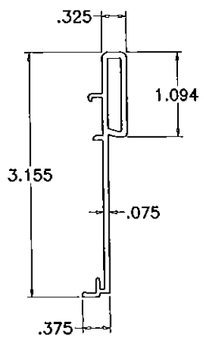

629–Glzg. Bead
6063–T6
For Glass Types 4 & 4A




630–Glzg. Bead
6063–T6
For Glass Types 3 & 3A




611–Waterbar
6063–T5




631–Waterbor
6063–T5

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
JUL 30 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.07
Expiration Date May 5, 2020
By Manuel Perez
Miami-Dade Product Control


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


COMP-ANL\W005-04CGI

SERIES '360' ALUM SINGLE HUNG WDW. (L.M.I.)

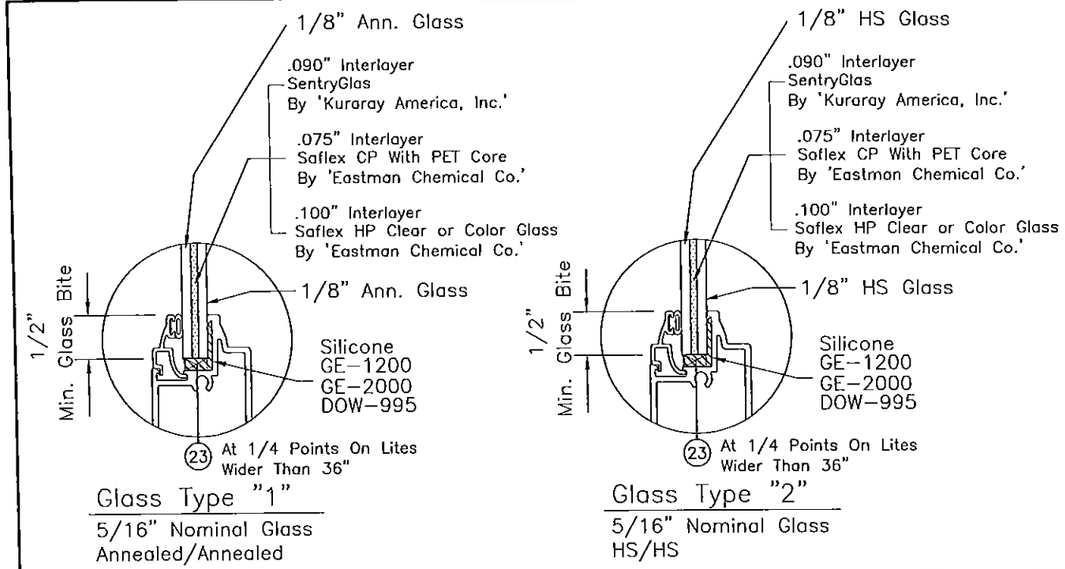
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:

| no | date | by | description |
|---|---|---|---|
| C | 11.12.08 | | NEW SHEET ADDED |
| D | 01.03.12 | | NO CHANGE THIS SHEET |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04




Glass Type "1"
5/16" Nominal Glass
Annealed/Annealed

Glass Type "2"
5/16" Nominal Glass
HS/HS

Supplemental Test Results for:
Air Infiltration – Water Leakage Resistance – Forced Entry

| Test Type and Method | Results |
|---|---|
| Air Infiltration Test (ASTM-E283) | |
| @ 1.57 psf pressure differential | PASSED ( .044 C.F. / Min / Sq Ft ) |
| @ 6.24 psf pressure differential | PASSED ( .076 C.F. / Min / Sq Ft ) |
| Water Leakage Test (ASTM-E331) | No leakage allowed |
| without waterbar adaptor | PASSED @ 12.0 PSF |
| with waterbar adaptor | PASSED @ 15.0 PSF |
| Forced Entry Resistance test (ASTM F588 & Grade 10) | PASSED |

**EQUAL LITES WINDOWS**
DESIGN LOAD CAPACITY – PSF

| WINDOW DIMS. | | GLASS TYPE '1' | | GLASS TYPE '2' | |
|---|---|---|---|---|---|
| WIDTH | HEIGHT | EXT.(+) | INT.(–) | EXT.(+) | INT.(–) |
| 24" | 48" | 100.0 | 210.0 | 100.0 | 210.0 |
| 30" | | 100.0 | 210.0 | 100.0 | 210.0 |
| 32" | | 100.0 | 210.0 | 100.0 | 210.0 |
| 36" | | 100.0 | 180.0 | 100.0 | 210.0 |
| 42" | | 100.0 | 144.0 | 100.0 | 210.0 |
| 48" | | 100.0 | 120.0 | 100.0 | 200.0 |
| 54" | | 100.0 | 102.9 | 100.0 | 171.4 |
| 24" | 60" | 100.0 | 210.0 | 100.0 | 210.0 |
| 30" | | 100.0 | 199.7 | 100.0 | 210.0 |
| 32" | | 100.0 | 190.3 | 100.0 | 210.0 |
| 36" | | 100.0 | 164.3 | 100.0 | 210.0 |
| 42" | | 100.0 | 128.0 | 100.0 | 210.0 |
| 48" | | 100.0 | 104.7 | 100.0 | 120.0 |
| 54" | | 88.6 | 88.6 | 100.0 | 120.0 |
| 24" | 72" | 100.0 | 201.1 | 100.0 | 210.0 |
| 30" | | 100.0 | 162.1 | 100.0 | 210.0 |
| 32" | | 100.0 | 167.6 | 100.0 | 210.0 |
| 36" | | 100.0 | 150.7 | 100.0 | 210.0 |
| 42" | | 100.0 | 120.0 | 100.0 | 120.0 |
| 48" | | 96.0 | 96.0 | 100.0 | 120.0 |
| 54" | | 80.0 | 80.0 | 100.0 | 120.0 |
| 24" | 84" | 100.0 | 179.1 | 100.0 | 210.0 |
| 30" | | 100.0 | 143.4 | 100.0 | 210.0 |
| 32" | | 100.0 | 135.3 | 100.0 | 210.0 |
| 36" | | 100.0 | 120.0 | 100.0 | 120.0 |
| 42" | | 100.0 | 106.1 | 100.0 | 120.0 |
| 48" | | 85.6 | 85.6 | 100.0 | 120.0 |
| 54" | | 74.8 | 74.8 | 100.0 | 120.0 |

**EQUAL LITES WINDOWS**
DESIGN LOAD CAPACITY – PSF

| WINDOW DIMS. | | GLASS TYPE '1' | | GLASS TYPE '2' | |
|---|---|---|---|---|---|
| WIDTH | HEIGHT | EXT.(+) | INT.(–) | EXT.(+) | INT.(–) |
| 24" | 96" | 100.0 | 161.9 | 100.0 | 210.0 |
| 30" | | 100.0 | 118.8 | 100.0 | 120.0 |
| 32" | | 100.0 | 111.9 | 100.0 | 120.0 |
| 36" | | 100.0 | 101.5 | 100.0 | 120.0 |
| 42" | | 85.4 | 85.4 | 100.0 | 120.0 |
| 48" | | 76.2 | 76.2 | 100.0 | 120.0 |
| 54" | | 68.9 | 68.9 | 100.0 | 120.0 |
| 24" | 108" | 100.0 | 142.4 | 100.0 | 210.0 |
| 30" | | 100.0 | 102.2 | 100.0 | 120.0 |
| 32" | | 94.9 | 94.9 | 100.0 | 120.0 |
| 36" | | 85.9 | 85.9 | 100.0 | 120.0 |
| 42" | | 75.3 | 75.3 | 100.0 | 120.0 |
| 48" | | 68.6 | 68.6 | 100.0 | 120.0 |
| 24" | 120" | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | 90.7 | 90.7 | 100.0 | 120.0 |
| 32" | | 83.6 | 83.6 | 100.0 | 120.0 |
| 36" | | 75.9 | 75.9 | 100.0 | 120.0 |
| 42" | | 66.4 | 66.4 | 100.0 | 120.0 |

**EQUAL LITES WINDOWS**
DESIGN LOAD CAPACITY – PSF

| WINDOW DIMS. | | GLASS TYPE '1' | | GLASS TYPE '2' | |
|---|---|---|---|---|---|
| WIDTH | HEIGHT | EXT.(+) | INT.(–) | EXT.(+) | INT.(–) |
| 19-1/8" | 26" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 210.0 | 100.0 | 210.0 |
| 53-1/8" | | 100.0 | 171.1 | 100.0 | 210.0 |
| 19-1/8" | 38-3/8" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 197.2 | 100.0 | 210.0 |
| 53-1/8" | | 100.0 | 124.1 | 100.0 | 206.9 |
| 19-1/8" | 50-5/8" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 168.3 | 100.0 | 210.0 |
| 53-1/8" | | 100.0 | 101.2 | 100.0 | 168.7 |
| 19-1/8" | 63" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 207.5 | 100.0 | 210.0 |
| 37" | | 100.0 | 154.9 | 100.0 | 210.0 |
| 53-1/8" | | 88.1 | 88.1 | 100.0 | 120.0 |
| 19-1/8" | 72" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 181.5 | 100.0 | 210.0 |
| 37" | | 100.0 | 146.8 | 100.0 | 210.0 |
| 53-1/8" | | 82.0 | 82.0 | 100.0 | 120.0 |
| 19-1/8" | 76" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 171.4 | 100.0 | 210.0 |
| 37" | | 100.0 | 136.6 | 100.0 | 210.0 |
| 53-1/8" | | 80.0 | 80.0 | 100.0 | 120.0 |




Equal Lite Window

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 15-0512.07
Expiration Date May 5, 2020
By Manuel Perez
Miami Dade Product Control

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

All values shown are Design PSF (Pounds per Square Foot)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
JUL 30 2015


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\W005-04CGI


SERIES '360' ALUM SINGLE HUNG WDW. (L.M.I.)

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

revisions:

| no | date | by | description |
|---|---|---|---|
| C | 11.12.08 | | NO CHANGE THIS SHEET |
| D | 01.03.12 | | UPDATED TO 2010 FBC |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

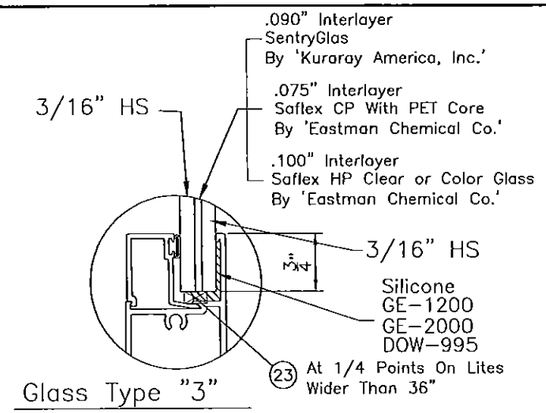
drawing no.
W05-04

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

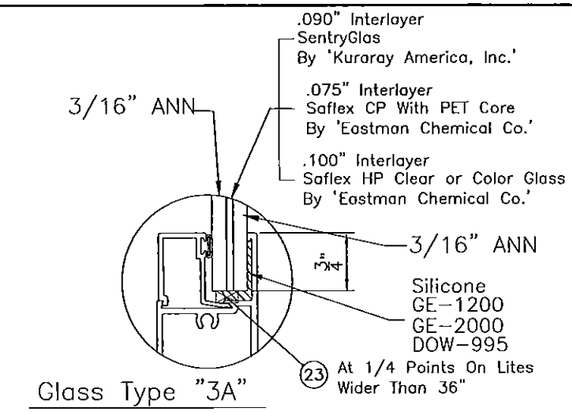
## EQUAL LITES WINDOWS

### DESIGN LOAD CAPACITY - PSF

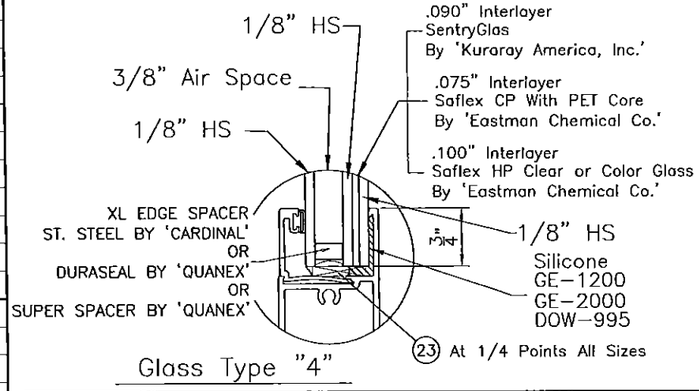
| WINDOW DIMS. | | GLASS TYPE '3' | | GLASS TYPE '3A' | | GLASS TYPE '4' | | GLASS TYPE '4A' | |
|---|---|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 24" | 48" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 30" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 32" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 36" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 208.2 |
| 42" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 175.9 |
| 48" | | 100.0 | 200.0 | 100.0 | 200.0 | 100.0 | 200.0 | 100.0 | 158.6 |
| 54" | | 100.0 | 171.4 | 100.0 | 171.4 | 100.0 | 171.4 | 100.0 | 139.5 |
| 24" | 60" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 30" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 32" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 202.2 |
| 36" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 174.5 |
| 42" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 153.8 |
| 48" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 54" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 106.3 |
| 24" | 72" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 30" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 172.2 |
| 32" | | 100.0 | 210.0 | 100.0 | 191.2 | 100.0 | 210.0 | 100.0 | 178.0 |
| 36" | | 100.0 | 210.0 | 100.0 | 198.4 | 100.0 | 210.0 | 100.0 | 160.1 |
| 42" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 48" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 109.5 |
| 54" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 90.5 | 90.5 |
| 24" | 84" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 190.2 |
| 30" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 152.3 |
| 32" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 143.7 |
| 36" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 42" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 112.7 |
| 48" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 90.9 | 90.9 |
| 54" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.6 | 80.6 |
| 24" | 96" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 172.0 |
| 30" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 32" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 118.9 |
| 36" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 107.8 |
| 42" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 90.8 | 90.8 |
| 48" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.9 | 80.9 |
| 54" | | 100.0 | 120.0 | 100.0 | 112.6 | 100.0 | 120.0 | 73.2 | 73.2 |
| 24" | 108" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 151.2 |
| 30" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 108.6 |
| 32" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 100.8 |
| 36" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 91.2 | 91.2 |
| 42" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.0 | 80.0 |
| 48" | | 100.0 | 120.0 | 100.0 | 112.2 | 100.0 | 120.0 | 72.9 | 72.9 |
| 24" | 120" | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 96.4 | 96.4 |
| 32" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 88.8 | 88.8 |
| 36" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.6 | 80.6 |
| 42" | | 100.0 | 120.0 | 100.0 | 114.1 | 100.0 | 120.0 | 70.6 | 70.6 |



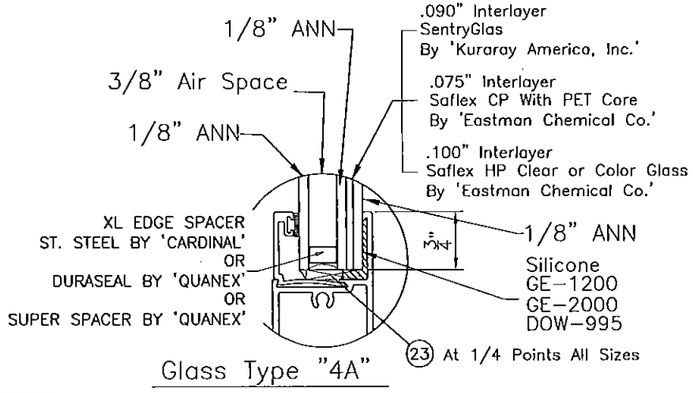

Glass Type "3"




Glass Type "3A"




Glass Type "4"

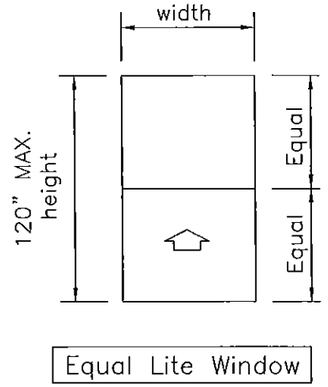



Glass Type "4A"

## EQUAL LITES WINDOWS

### DESIGN LOAD CAPACITY - PSF

| WINDOW DIMS. | | GLASS TYPE '3' | | GLASS TYPE '3A' | | GLASS TYPE '4' | | GLASS TYPE '4A' | |
|---|---|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 19-1/8" | 26" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 53-1/8" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 19-1/8" | 38-3/8" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 53-1/8" | | 100.0 | 206.9 | 100.0 | 206.9 | 100.0 | 206.9 | 100.0 | 206.9 |
| 19-1/8" | 50-5/8" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 193.1 |
| 53-1/8" | | 100.0 | 168.7 | 100.0 | 168.7 | 100.0 | 168.7 | 100.0 | 131.7 |
| 19-1/8" | 63" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 37" | | 100.0 | 210.0 | 100.0 | 191.9 | 100.0 | 210.0 | 100.0 | 177.6 |
| 53-1/8" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 104.5 |
| 19-1/8" | 72" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 192.9 |
| 37" | | 100.0 | 210.0 | 100.0 | 196.5 | 100.0 | 210.0 | 100.0 | 156.0 |
| 53-1/8" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 94.6 | 94.6 |
| 19-1/8" | 76" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 182.1 |
| 37" | | 100.0 | 210.0 | 100.0 | 194.8 | 100.0 | 210.0 | 100.0 | 145.1 |
| 53-1/8" | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 88.3 | 88.3 |




Equal Lite Window

All values shown are Design PSF (Pounds per Square Foot)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.07
Expiration Date May 5 2020
By Manuel Perez
Miami-Dade Product Control

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

JUL 20 2015


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


COMP-ANL\W005-04CGI

SERIES '360' ALUM SINGLE HUNG WDW. (L.M.I.)

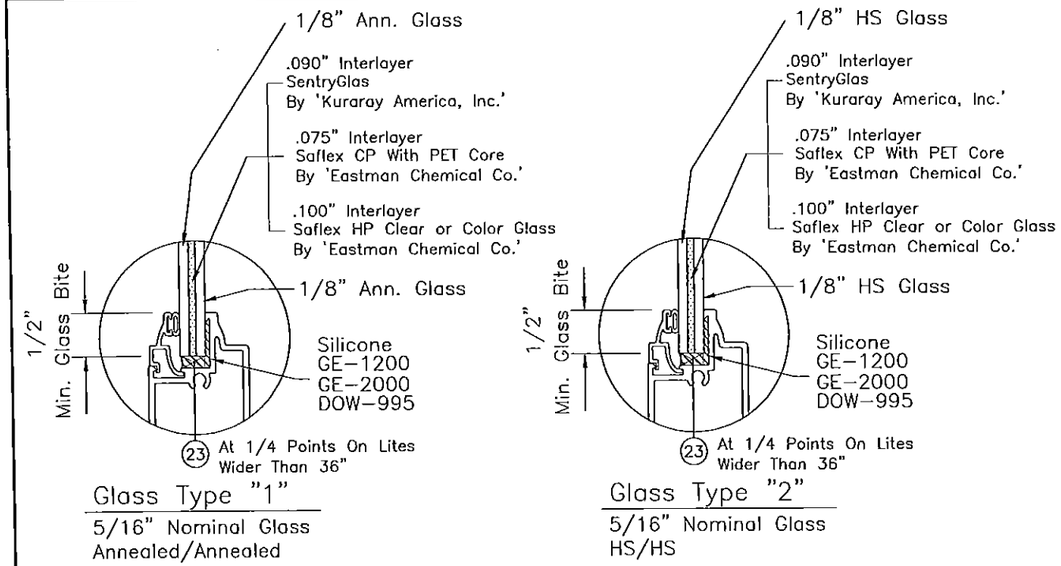
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

| revisions: | | | |
|---|---|---|---|
| no | date | by | description |
| C | 11.12.08 | | NEW SHEET ADDED |
| D | 01.03.12 | | UPDATED TO 2010 FBC |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | SPACER REV. |

date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

sheet 3A of 10




Glass Type "1"

5/16" Nominal Glass
Annealed/Annealed

Glass Type "2"

5/16" Nominal Glass
HS/HS

**UNEQUAL LITES WINDOWS (ORIEL)**

**DESIGN LOAD CAPACITY - PSF**

| WINDOW DIMS. | | TOP VENT | GLASS TYPE '1' | | GLASS TYPE '2' | |
|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | HEIGHT | EXT.(+) | INT.(−) | EXT.(+) | INT.(−) |
| 24" | 96" (MAX.) | 48" | 100.0 | 161.9 | 100.0 | 210.0 |
| 30" | | | 100.0 | 118.8 | 100.0 | 120.0 |
| 32" | | | 100.0 | 111.9 | 100.0 | 120.0 |
| 36" | | | 100.0 | 101.5 | 100.0 | 120.0 |
| 42" | | | 85.4 | 85.4 | 100.0 | 120.0 |
| 48" | | | 76.2 | 76.2 | 100.0 | 120.0 |
| 54" | | | 68.9 | 68.9 | 100.0 | 120.0 |
| 24" | 108" (MAX.) | 54" | 100.0 | 142.4 | 100.0 | 210.0 |
| 30" | | | 100.0 | 102.2 | 100.0 | 120.0 |
| 32" | | | 94.9 | 94.9 | 100.0 | 120.0 |
| 36" | | | 85.9 | 85.9 | 100.0 | 120.0 |
| 42" | | | 75.3 | 75.3 | 100.0 | 120.0 |
| 48" | | | 68.6 | 68.6 | 100.0 | 120.0 |
| 24" | 120" (MAX.) | 60" | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 90.7 | 90.7 | 100.0 | 120.0 |
| 32" | | | 83.6 | 83.6 | 100.0 | 120.0 |
| 36" | | | 75.9 | 75.9 | 100.0 | 120.0 |
| 42" | | | 66.4 | 66.4 | 100.0 | 120.0 |
| 24" | 120" (MAX.) | 66" | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 81.7 | 81.7 | 100.0 | 120.0 |
| 32" | | | 77.7 | 77.7 | 100.0 | 120.0 |
| 36" | | | 67.4 | 67.4 | 100.0 | 120.0 |
| 24" | 120" (MAX.) | 72" | 100.0 | 113.6 | 100.0 | 120.0 |
| 30" | | | 77.1 | 77.1 | 100.0 | 120.0 |
| 32" | | | 70.1 | 70.1 | 100.0 | 120.0 |
| 36" | | | 60.3 | 60.3 | 100.0 | 120.0 |
| 24" | 120" (MAX.) | 78" | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 71.2 | 71.2 | 100.0 | 120.0 |
| 32" | | | 63.8 | 63.8 | 100.0 | 120.0 |
| 24" | 120" (MAX.) | 84" | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 66.6 | 66.6 | 100.0 | 120.0 |

All values shown are Design PSF (Pounds per Square Foot)

**UNEQUAL LITES WINDOWS (ORIEL)**

**DESIGN LOAD CAPACITY - PSF**

| WINDOW DIMS. | | TOP VENT | GLASS TYPE '1' | | GLASS TYPE '2' | |
|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | HEIGHT | EXT.(+) | INT.(−) | EXT.(+) | INT.(−) |
| 19-1/8" | 96" (MAX.) | 48" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 138.5 | 100.0 | 210.0 |
| 37" | | | 99.3 | 99.3 | 100.0 | 120.0 |
| 53--1/8" | | | 69.8 | 69.8 | 100.0 | 120.0 |
| 19-1/8" | 108" (MAX.) | 54" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 |
| 37" | | | 83.6 | 83.6 | 100.0 | 120.0 |
| 19-1/8" | 120" (MAX.) | 60" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 108.6 | 100.0 | 120.0 |
| 37" | | | 73.7 | 73.7 | 100.0 | 120.0 |
| 19-1/8" | 120" (MAX.) | 66" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 99.5 | 99.5 | 100.0 | 120.0 |
| 37" | | | 65.7 | 65.7 | 100.0 | 120.0 |
| 19-1/8" | 120" (MAX.) | 72" | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 93.9 | 93.9 | 100.0 | 120.0 |
| 19-1/8" | 120" (MAX.) | 78" | 100.0 | 120.0 | 100.0 | 120.0 |
| 26-1/2" | | | 88.0 | 88.0 | 100.0 | 120.0 |
| 19-1/8" | 120" (MAX.) | 84" | 100.0 | 120.0 | 100.0 | 120.0 |
| 26-1/2" | | | 79.8 | 79.8 | 100.0 | 120.0 |

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

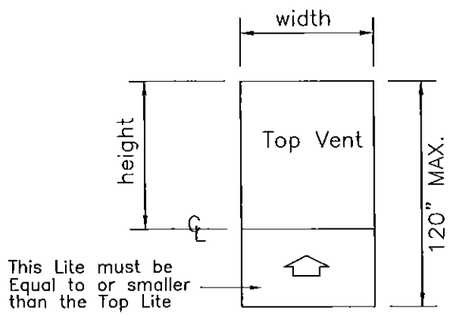
Supplemental Test Results for:

Air Infiltration - Water Leakage Resistance - Forced Entry

| Test Type and Method | Results |
|---|---|
| Air Infiltration Test (ASTM-E283) | |
| @ 1.57 psf pressure differential | PASSED ( .044 C.F. / Min / Sq Ft ) |
| @ 6.24 psf pressure differential | PASSED ( .076 C.F. / Min / Sq Ft ) |
| Water Leakage Test (ASTM-E331) | No leakage allowed |
| without waterbar adaptor | PASSED @ 12.0 PSF |
| with waterbar adaptor | PASSED @ 15.0 PSF |
| Forced Entry Resistance test (ASTM F588 & Grade 10) | PASSED |

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15.0512.07
Expiration Date May 5, 2020
By Manuel Perez
Miami-Dade Product Control

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTOR
FOR WINDOWS WITHOUT WATERBAR ADAPTOR
LIMIT EXTERIOR(+) LOADS TO 80.0 PSF




Unequal Lite Window

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

JUL 30 2015


afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL\W005-04CGI


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| revisions: | | | |
|---|---|---|---|
| no | date | by | description |
| C | 11.12.08 | | NO CHANGE THIS SHEET |
| D | 01.03.12 | | UPDATED TO 2010 FBC |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

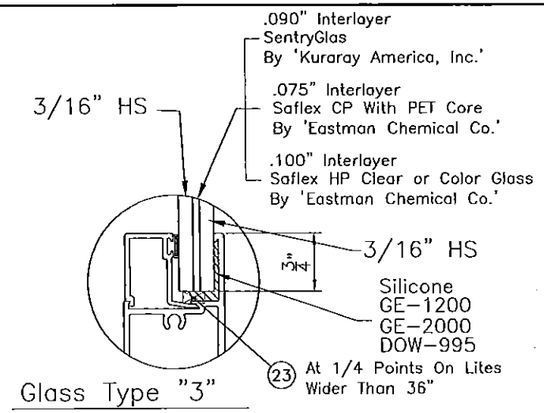
sheet 4 of 10

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

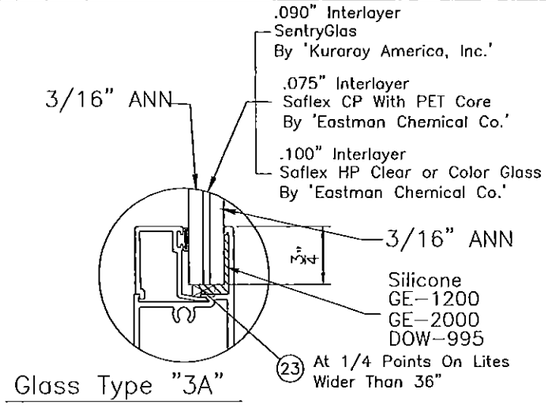
## UNEQUAL LITES WINDOWS (ORIEL)

### DESIGN LOAD CAPACITY - PSF

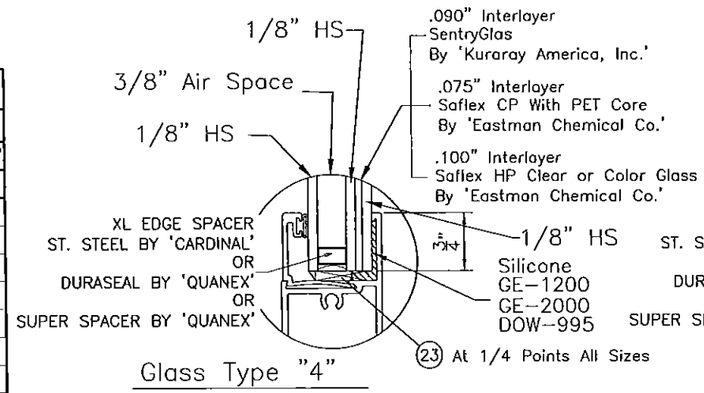
| WINDOW DIMS. | | TOP VENT | GLASS TYPE '3' | | GLASS TYPE '3A' | | GLASS TYPE '4' | | GLASS TYPE '4A' | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 24" | 96" (MAX.) | 48" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 172.0 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 32" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 118.9 |
| 36" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 107.8 |
| 42" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 90.8 | 90.8 |
| 48" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.9 | 80.9 |
| 54" | | | 100.0 | 120.0 | 100.0 | 112.6 | 100.0 | 120.0 | 73.2 | 73.2 |
| 24" | 108" (MAX.) | 54" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 151.2 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 108.6 |
| 32" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 100.8 |
| 36" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 91.2 | 91.2 |
| 42" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.0 | 80.0 |
| 48" | | | 100.0 | 120.0 | 100.0 | 112.2 | 100.0 | 120.0 | 72.9 | 72.9 |
| 24" | 120" (MAX.) | 60" | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 96.4 | 96.4 |
| 32" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 88.8 | 88.8 |
| 36" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 80.6 | 80.6 |
| 42" | | | 100.0 | 120.0 | 100.0 | 114.1 | 100.0 | 120.0 | 70.6 | 70.6 |
| 24" | 120" (MAX.) | 66" | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 86.8 | 86.8 |
| 32" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 82.6 | 82.6 |
| 36" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 71.6 | 71.6 |
| 24" | 120" (MAX.) | 72" | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 81.9 | 81.9 |
| 32" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 74.5 | 74.5 |
| 36" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 115.2 | 64.0 | 64.0 |
| 24" | 120" (MAX.) | 78" | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 75.6 | 75.6 |
| 32" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 67.8 | 67.8 |
| 24" | 120" (MAX.) | 84" | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 30" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 70.7 | 70.7 |



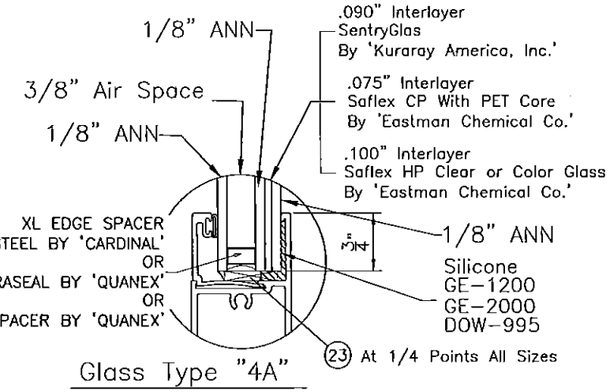

Glass Type "3"




Glass Type "3A"




Glass Type "4"



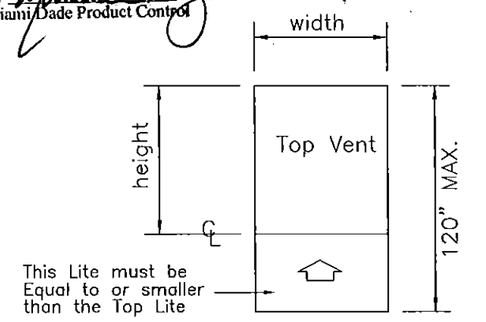

Glass Type "4A"

## UNEQUAL LITES WINDOWS (ORIEL)

### DESIGN LOAD CAPACITY - PSF

| WINDOW DIMS. | | TOP VENT | GLASS TYPE '3' | | GLASS TYPE '3A' | | GLASS TYPE '4' | | GLASS TYPE '4A' | |
|---|---|---|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 19-1/8" | 96" (MAX.) | 48" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 147.1 |
| 37" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 105.5 |
| 53-1/8" | | | 100.0 | 120.0 | 100.0 | 114.4 | 100.0 | 120.0 | 74.2 | 74.2 |
| 19-1/8" | 108" (MAX.) | 54" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 |
| 37" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 88.8 | 88.8 |
| 19-1/8" | 120" (MAX.) | 60" | 100.0 | 210.0 | 100.0 | 204.2 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 115.4 |
| 37" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 78.3 | 78.3 |
| 19-1/8" | 120" (MAX.) | 66" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 105.7 |
| 37" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 69.8 | 69.8 |
| 19-1/8" | 120" (MAX.) | 72" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 99.8 | 99.8 |
| 19-1/8" | 120" (MAX.) | 78" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 203.3 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 93.5 | 93.5 |
| 19-1/8" | 120" (MAX.) | 84" | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 210.0 | 100.0 | 163.5 |
| 26-1/2" | | | 100.0 | 120.0 | 100.0 | 120.0 | 100.0 | 120.0 | 84.8 | 84.8 |

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.07
Expiration Date May 5, 2020
By
Miami-Dade Product Control




Unequal Lite Window

All values shown are Design PSF (Pounds per Square Foot)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE
FOR SILL WITH WATERBAR ADAPTER
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

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

JUL 30 2015


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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COMP-ANL\W005-04CGI

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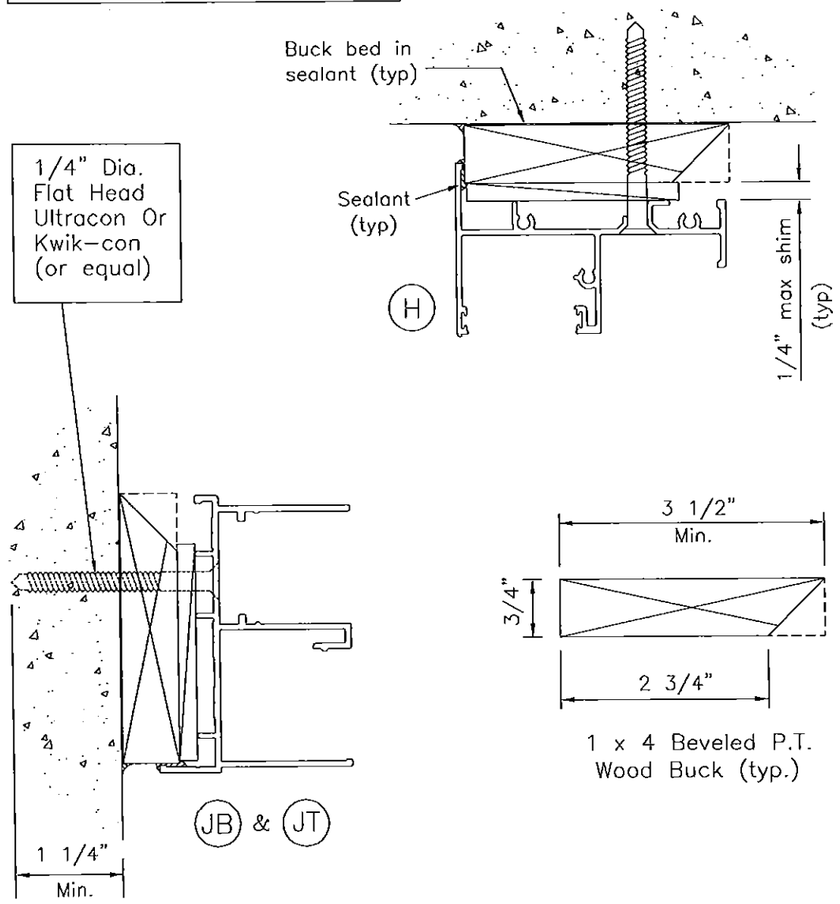
| revisions: | | | |
|---|---|---|---|
| no | date | by | description |
| C | 11.12.08 | | NEW SHEET ADDED |
| D | 01.03.12 | | UPDATED TO 2010 FBC |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | SPACER REV. |

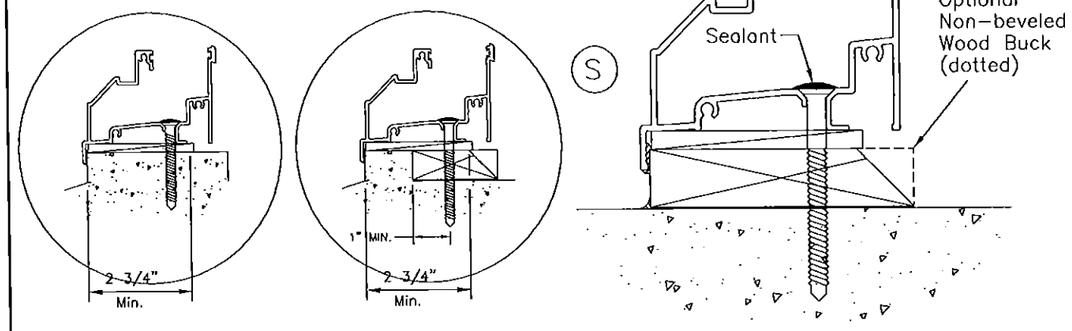
date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

## Installation Type "A"

w/ 1 x 4 Beveled P.T. Wood Buck




Optional Pre-Cast Sill

IMPORTANT NOTE:

Wood Bucks 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)

1/4" DIA. HILTI KWIK-CON II (Fu=163 KSI, Fy=157 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 CONCRETE OR FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE OR FILLED BLOCK

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

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

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.

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

Values for Installation Type "A" apply to the following installation types, with maximum shim space 1/4":

1- Using 1by P.T. wood bucks, min. 3/4" thick,

2- Directly into masonry, without the use of wood bucks.

3- Directly into a steel or aluminum structure
Min. 1/8" thick and using #14 Teks or Self drilling screws.
Structure must be designed by others to sustain the loads imposed by the window.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 15-0512.07
Expiration Date May 5, 2020
By Manuel Perez
Miami-Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
JUL 20 2015


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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COMP-ANL\W005-04CGI


SERIES '360' ALUM SINGLE HUNG WDW. (L.M.I.)

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

revisions:

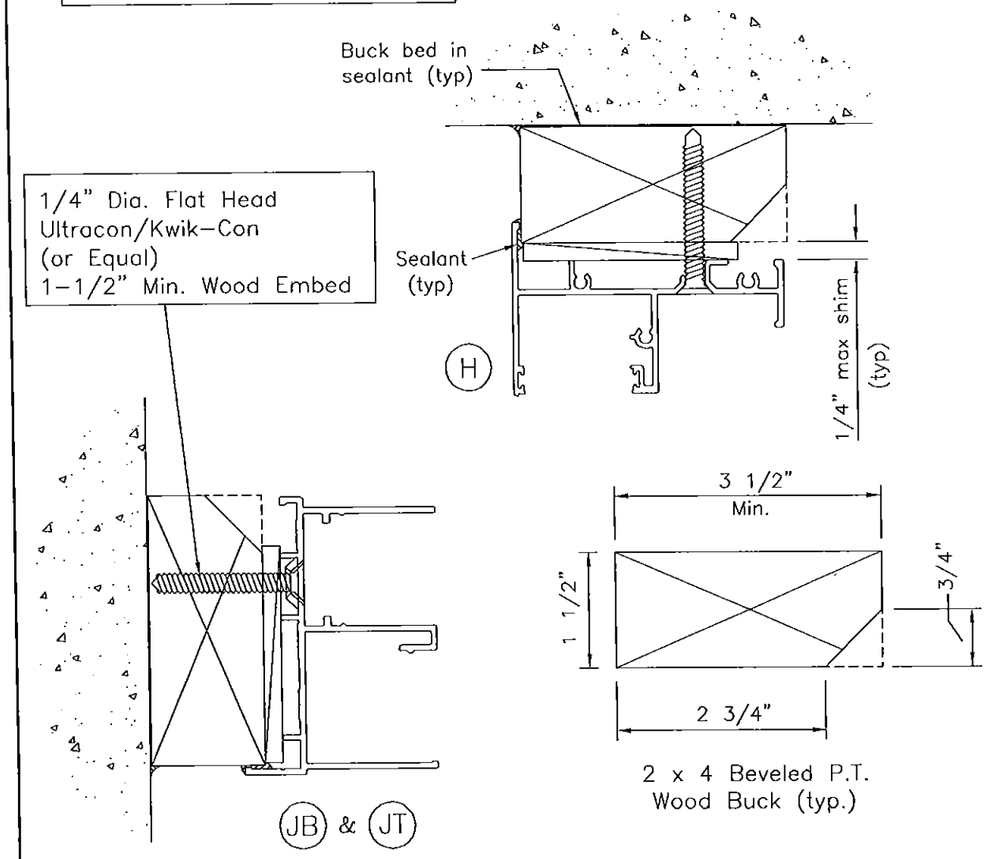
| no | date | by | description |
|---|---|---|---|
| C | 11.12.08 | | NO CHANGE THIS SHEET |
| D | 01.03.12 | | NO CHANGE THIS SHEET |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

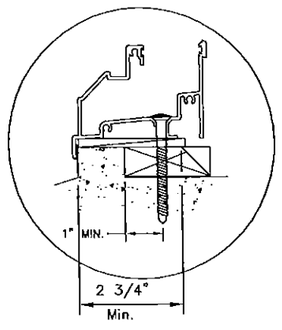
drawing no.
W05-04

## Installation Type "B"

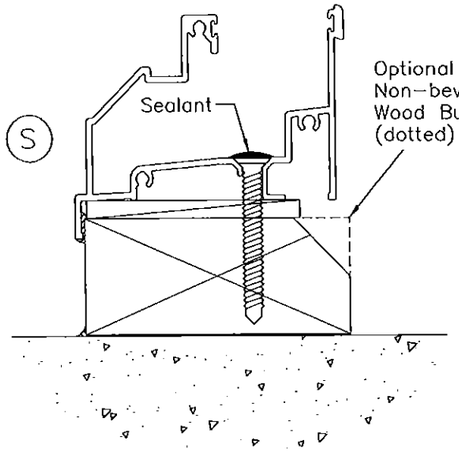
w/ 2 x 4 Beveled P.T. Wood Buck




2 x 4 Beveled P.T. Wood Buck (typ.)

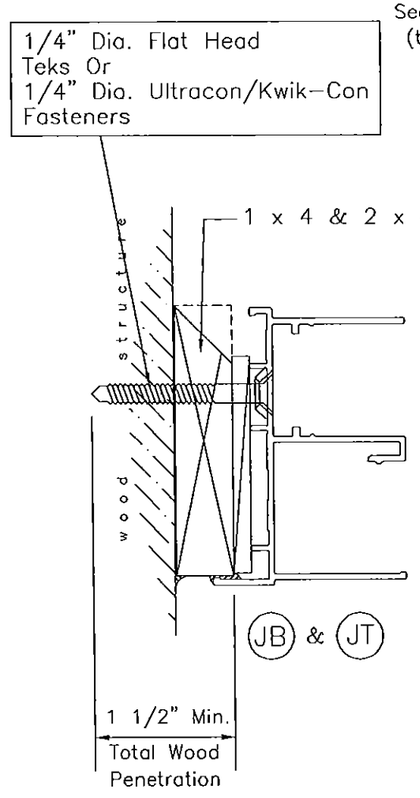


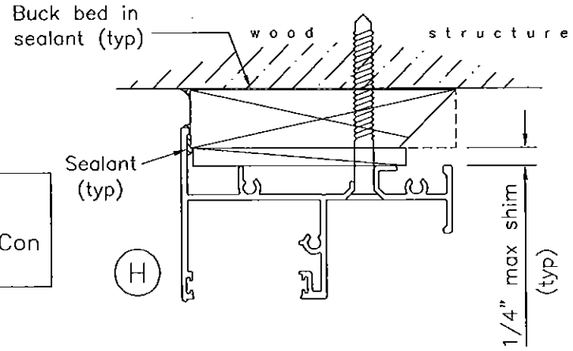

Optional Pre-Cast Sill




## Installation Type "C"

based on wood penetration only using 1 x 4 or 2 x 4 wood bucks




See Installation Types "A" & "B" for 1 x 4 & 2 x 4 P.T. Wood Buck Styles

IMPORTANT NOTE:

Wood Bucks must sustain loads imposed by glazing system and transfer them to the building structure.

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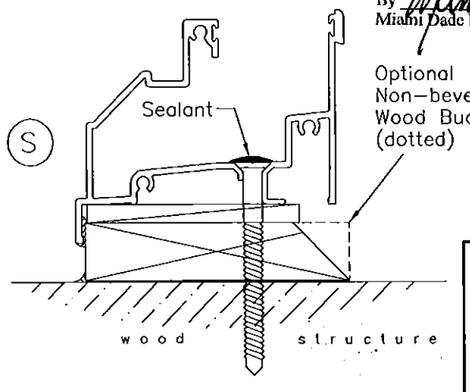


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| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

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scale: -
dr. by: -
chk. by:

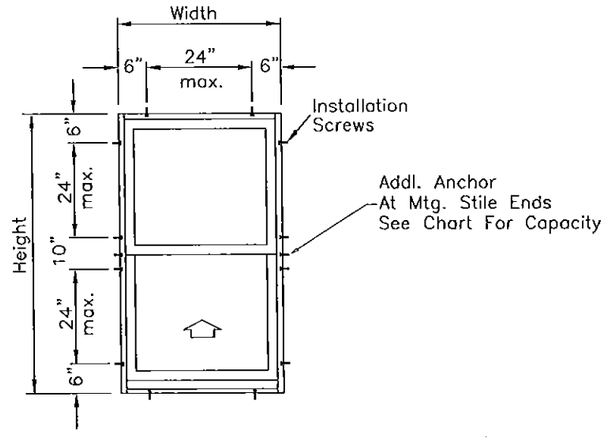
drawing no.
W05-04

sheet 6 of 10

| ANCHORS | | | | |
|---|---|---|---|---|
| DESIGN LOAD CAPACITY – PSF | | | | |
| WINDOW DIMS. | | NO. OF ANCHORS AT JAMB | STD. HOLE PATTERN W/O ADDL. ANCHOR | STD. HOLE PATTERN WITH ADDL. ANCHOR |
| WIDTH | HEIGHT | | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) |
| 24" | 48" | 4 | 210.0 | 210.0 |
| 30" | | | 210.0 | 210.0 |
| 32" | | | 210.0 | 210.0 |
| 36" | | | 210.0 | 210.0 |
| 42" | | | 201.8 | 210.0 |
| 48" | | | 175.7 | 210.0 |
| 54" | | | 147.2 | 206.4 |
| 24" | 60" | 4 | 210.0 | 210.0 |
| 30" | | | 193.7 | 210.0 |
| 32" | | | 185.5 | 210.0 |
| 36" | | | 170.9 | 210.0 |
| 42" | | | 152.9 | 191.2 |
| 48" | | | 138.4 | 173.0 |
| 54" | | | 126.3 | 157.9 |
| 24" | 72" | 6 | 210.0 | 210.0 |
| 30" | | | 210.0 | 210.0 |
| 32" | | | 210.0 | 210.0 |
| 36" | | | 201.8 | 210.0 |
| 42" | | | 181.6 | 210.0 |
| 48" | | | 145.3 | 192.6 |
| 54" | | | 117.2 | 175.7 |
| 24" | 84" | 6 | 210.0 | 210.0 |
| 30" | | | 189.5 | 210.0 |
| 32" | | | 180.3 | 210.0 |
| 36" | | | 165.1 | 192.6 |
| 42" | | | 148.2 | 173.0 |
| 48" | | | 135.4 | 157.9 |
| 54" | | | 111.2 | 145.3 |
| 24" | 96" | 6 | 194.6 | 210.0 |
| 30" | | | 161.4 | 188.3 |
| 32" | | | 153.2 | 178.8 |
| 36" | | | 139.7 | 163.0 |
| 42" | | | 124.5 | 145.3 |
| 48" | | | 113.5 | 132.4 |
| 54" | | | 104.8 | 122.2 |
| 24" | 108" | 8 | 210.0 | 210.0 |
| 30" | | | 187.5 | 210.0 |
| 32" | | | 177.7 | 199.9 |
| 36" | | | 161.4 | 181.6 |
| 42" | | | 143.1 | 161.0 |
| 48" | | | 129.7 | 145.9 |
| 24" | 120" | 8 | 201.8 | 210.0 |
| 30" | | | 166.0 | 186.8 |
| 32" | | | 157.2 | 176.8 |
| 36" | | | 142.4 | 160.2 |
| 42" | | | 125.8 | 141.5 |

| ANCHORS | | | | |
|---|---|---|---|---|
| DESIGN LOAD CAPACITY – PSF | | | | |
| WINDOW DIMS. | | NO. OF ANCHORS AT JAMB | STD. HOLE PATTERN W/O ADDL. ANCHOR | STD. HOLE PATTERN WITH ADDL. ANCHOR |
| WIDTH | HEIGHT | | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) |
| 19–1/8" | 26" | 4 | 210.0 | 210.0 |
| 26–1/2" | | | 210.0 | 210.0 |
| 37" | | | 210.0 | 210.0 |
| 53–1/8" | | | 210.0 | 210.0 |
| 19–1/8" | 38–3/8" | 4 | 210.0 | 210.0 |
| 26–1/2" | | | 210.0 | 210.0 |
| 37" | | | 210.0 | 210.0 |
| 53–1/8" | | | 176.9 | 210.0 |
| 19–1/8" | 50–5/8" | 4 | 210.0 | 210.0 |
| 26–1/2" | | | 210.0 | 210.0 |
| 37" | | | 208.1 | 210.0 |
| 53–1/8" | | | 145.6 | 196.3 |
| 19–1/8" | 63" | 4 | 210.0 | 210.0 |
| 26–1/2" | | | 198.4 | 210.0 |
| 37" | | | 157.4 | 196.7 |
| 53–1/8" | | | 120.5 | 150.7 |
| 19–1/8" | 72" | 6 | 210.0 | 210.0 |
| 26–1/2" | | | 210.0 | 210.0 |
| 37" | | | 198.1 | 210.0 |
| 53–1/8" | | | 120.6 | 178.7 |
| 19–1/8" | 76" | 6 | 210.0 | 210.0 |
| 26–1/2" | | | 210.0 | 210.0 |
| 37" | | | 184.4 | 210.0 |
| 53–1/8" | | | 118.2 | 166.9 |

LOADS APPLY TO INSTALLATION TYPES A, B & C AND INTO ALUMINUM BUCKS FOR ALUMINUM BUCK INSTALLATION SEE SHEETS 9 AND 10.




CGI Standard Hole Pattern

Refer to sheets 5 & 6 of 10 for description of installation types A – B – C

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| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

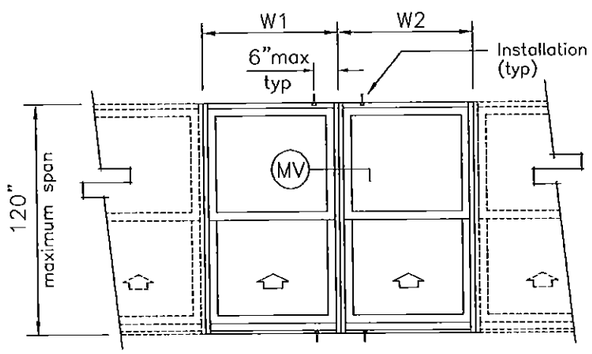
drawing no.
W05-04

sheet 7 of 10

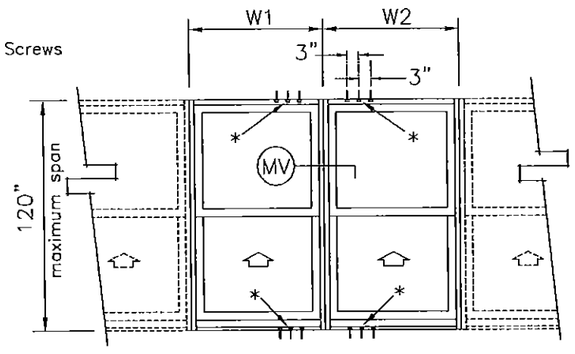
## Vertical Mullion Performance

$$\text{Tributary Width} = \frac{W1 + W2}{2}$$

For Window Performance, refer to sheets 3 or 4




Multiple Opening
(2 or more windows)
w/ 1 screw on each side of mullion
Standard Installation

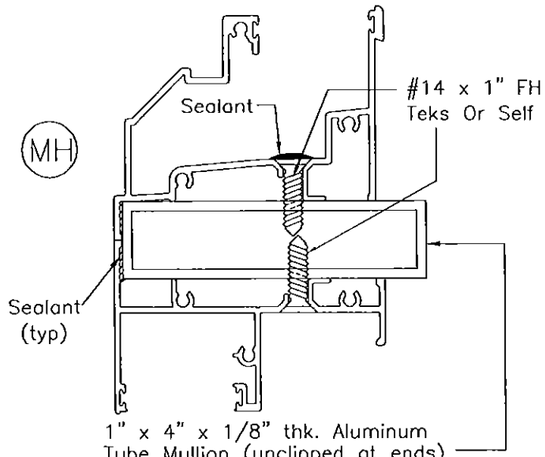


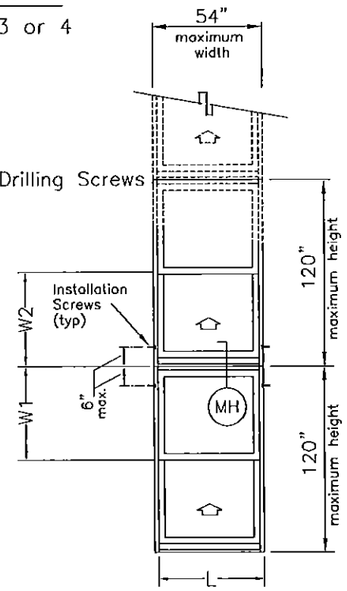

Multiple Opening
(2 or more windows)
w/ 2 or 3 screws on each side of mullion
High Load Installation

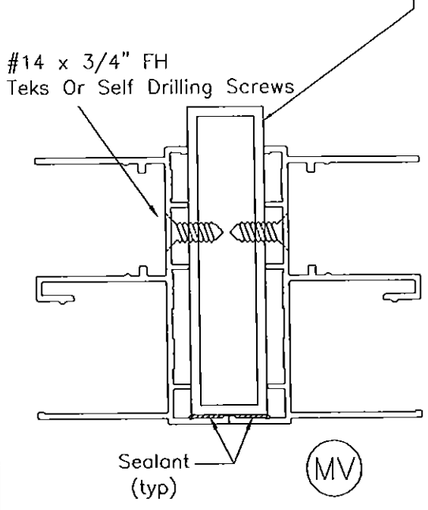
(* = additional holes to be drilled by installer)

## Horizontal Mullion Performance

For Window Performance, refer to sheets 3 or 4




| MULLION DESIGN LOAD CAPACITY – PSF | | | | |
|---|---|---|---|---|
| WINDOW DIMS. | | ONE ANCHOR EACH SIDE | TWO ANCHORS EACH SIDE | THREE ANCHORS EACH SIDE |
| WIDTH | HEIGHT | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) |
| 24" | 48" | 150.0 | 210.0 | 210.0 |
| 30" | | 130.9 | 210.0 | 210.0 |
| 32" | | 126.6 | 210.0 | 210.0 |
| 36" | | 120.0 | 210.0 | 210.0 |
| 42" | | 114.5 | 210.0 | 210.0 |
| 48" | | 112.5 | 210.0 | 210.0 |
| 54" | | 112.5 | 210.0 | 210.0 |
| 24" | 60" | 112.5 | 210.0 | 210.0 |
| 30" | | 96.0 | 192.0 | 210.0 |
| 32" | | 92.0 | 184.1 | 210.0 |
| 36" | | 85.7 | 171.4 | 210.0 |
| 42" | | 79.1 | 158.2 | 210.0 |
| 48" | | 75.0 | 150.0 | 210.0 |
| 54" | | 72.7 | 145.5 | 210.0 |
| 24" | 72" | 90.0 | 180.0 | 210.0 |
| 30" | | 75.8 | 151.6 | 210.0 |
| 32" | | 72.3 | 144.6 | 210.0 |
| 36" | | 66.7 | 133.3 | 200.0 |
| 42" | | 60.5 | 121.0 | 181.5 |
| 48" | | 56.3 | 112.5 | 168.8 |
| 54" | | 53.3 | 106.7 | 160.0 |
| 24" | 84" | 75.0 | 150.0 | 210.0 |
| 30" | | 62.6 | 125.2 | 172.5 |
| 32" | | 59.6 | 119.1 | 162.9 |
| 36" | | 54.5 | 109.1 | 147.1 |
| 42" | | 49.0 | 98.0 | 129.7 |
| 48" | | 45.0 | 90.0 | 117.4 |
| 54" | | 42.1 | 84.2 | 108.4 |

| MULLION DESIGN LOAD CAPACITY – PSF | | | | |
|---|---|---|---|---|
| WINDOW DIMS. | | ONE ANCHOR EACH SIDE | TWO ANCHORS EACH SIDE | THREE ANCHORS EACH SIDE |
| WIDTH | HEIGHT | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) |
| 24" | 96" | 64.3 | 128.6 | 140.7 |
| 30" | | 53.3 | 106.7 | 114.1 |
| 32" | | 50.6 | 101.2 | 107.6 |
| 36" | | 46.2 | 92.3 | 96.8 |
| 42" | | 41.1 | 82.3 | 84.8 |
| 48" | | 37.5 | 75.0 | 76.1 |
| 54" | | 34.8 | 69.6 | 69.6 |
| 24" | 108" | 56.3 | 98.3 | 98.3 |
| 30" | | 46.5 | 79.5 | 79.5 |
| 32" | | 44.0 | 74.9 | 74.9 |
| 36" | | 40.0 | 67.2 | 67.2 |
| 42" | | 35.5 | 58.5 | 58.5 |
| 48" | | 32.1 | 52.2 | 52.2 |
| 24" | 120" | 50.0 | 71.4 | 71.4 |
| 30" | | 41.1 | 57.6 | 57.6 |
| 32" | | 38.9 | 54.2 | 54.2 |
| 36" | | 35.3 | 48.5 | 48.5 |
| 42" | | 31.2 | 42.2 | 42.2 |

| MULLION DESIGN LOAD CAPACITY – PSF | | | | |
|---|---|---|---|---|
| WINDOW DIMS. | | ONE ANCHOR EACH SIDE | TWO ANCHORS EACH SIDE | THREE ANCHORS EACH SIDE |
| WIDTH | HEIGHT | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) | EXT.(+) & INT.(–) |
| 53-1/8" | 26" | 210.0 | 210.0 | 210.0 |
| 19-1/8" | 38-3/8" | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 194.6 | 210.0 | 210.0 |
| 37" | | 176.2 | 210.0 | 210.0 |
| 53-1/8" | | 176.0 | 210.0 | 210.0 |
| 19-1/8" | 50-5/8" | 165.0 | 210.0 | 210.0 |
| 26-1/2" | | 130.9 | 210.0 | 210.0 |
| 37" | | 109.0 | 210.0 | 210.0 |
| 53-1/8" | | 101.1 | 202.3 | 210.0 |
| 19-1/8" | 63" | 126.8 | 210.0 | 210.0 |
| 26-1/2" | | 98.3 | 196.6 | 210.0 |
| 37" | | 78.7 | 157.4 | 210.0 |
| 53-1/8" | | 67.0 | 133.9 | 200.9 |
| 19-1/8" | 72" | 108.5 | 210.0 | 210.0 |
| 26-1/2" | | 83.2 | 166.5 | 210.0 |
| 37" | | 65.5 | 130.9 | 196.4 |
| 53-1/8" | | 53.7 | 107.4 | 161.1 |
| 19-1/8" | 76" | 102.0 | 204.0 | 210.0 |
| 26-1/2" | | 77.9 | 155.9 | 210.0 |
| 37" | | 60.9 | 121.8 | 182.7 |
| 53-1/8" | | 49.3 | 98.7 | 148.0 |

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dr. by: –
chk. by:

drawing no.
W05-04

## PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

EXT.(+) & INT.(–)

| WINDOW DIMS. | | ANCHOR SPACING INTO CONC. | | ANCHOR SPACING INTO HOLLOW BLOCK | | ANCHOR SPACING INTO WOOD | |
|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | 16" O.C. | 8" O.C. | 16" O.C. | 8" O.C. | 16" O.C. | 8" O.C. |
| 24" | 48" | 210.0 | 210.0 | 178.7 | 210.0 | 210.0 | 210.0 |
| 30" | | 210.0 | 210.0 | 155.9 | 210.0 | 210.0 | 210.0 |
| 32" | | 210.0 | 210.0 | 150.8 | 210.0 | 210.0 | 210.0 |
| 36" | | 210.0 | 210.0 | 142.9 | 210.0 | 210.0 | 210.0 |
| 42" | | 205.7 | 210.0 | 131.3 | 204.2 | 176.3 | 210.0 |
| 48" | | 205.7 | 210.0 | 131.3 | 201.0 | 180.0 | 210.0 |
| 54" | | 168.0 | 210.0 | 107.2 | 187.6 | 144.0 | 210.0 |
| 24" | 60" | 210.0 | 210.0 | 134.0 | 210.0 | 210.0 | 210.0 |
| 30" | | 179.2 | 210.0 | 114.3 | 200.1 | 210.0 | 210.0 |
| 32" | | 171.8 | 210.0 | 109.6 | 191.9 | 210.0 | 210.0 |
| 36" | | 160.0 | 210.0 | 102.1 | 178.7 | 210.0 | 210.0 |
| 42" | | 147.7 | 210.0 | 94.2 | 164.9 | 176.3 | 210.0 |
| 48" | | 140.0 | 210.0 | 89.3 | 156.3 | 180.0 | 210.0 |
| 54" | | 135.8 | 210.0 | 86.6 | 151.6 | 142.2 | 210.0 |
| 24" | 72" | 210.0 | 210.0 | 134.0 | 210.0 | 210.0 | 210.0 |
| 30" | | 176.8 | 210.0 | 112.8 | 203.1 | 210.0 | 210.0 |
| 32" | | 168.8 | 210.0 | 107.7 | 193.8 | 210.0 | 210.0 |
| 36" | | 155.6 | 210.0 | 99.3 | 178.7 | 210.0 | 210.0 |
| 42" | | 141.2 | 210.0 | 90.1 | 162.2 | 176.3 | 210.0 |
| 48" | | 131.3 | 210.0 | 83.8 | 150.8 | 180.0 | 210.0 |
| 54" | | 124.4 | 210.0 | 79.4 | 142.9 | 142.2 | 210.0 |
| 24" | 84" | 210.0 | 210.0 | 134.0 | 210.0 | 210.0 | 210.0 |
| 30" | | 175.3 | 210.0 | 111.9 | 186.4 | 210.0 | 210.0 |
| 32" | | 166.8 | 210.0 | 106.4 | 177.4 | 210.0 | 210.0 |
| 36" | | 152.7 | 210.0 | 97.5 | 162.4 | 210.0 | 210.0 |
| 42" | | 137.1 | 210.0 | 87.5 | 145.9 | 176.3 | 210.0 |
| 48" | | 126.0 | 210.0 | 80.4 | 134.0 | 180.0 | 210.0 |
| 54" | | 117.9 | 196.5 | 75.2 | 125.4 | 142.2 | 210.0 |
| 24" | 96" | 210.0 | 210.0 | 134.0 | 210.0 | 210.0 | 210.0 |
| 30" | | 174.2 | 210.0 | 111.2 | 190.6 | 210.0 | 210.0 |
| 32" | | 165.4 | 210.0 | 105.5 | 180.9 | 210.0 | 210.0 |
| 36" | | 150.8 | 210.0 | 96.2 | 164.9 | 210.0 | 210.0 |
| 42" | | 134.4 | 210.0 | 85.8 | 147.0 | 176.3 | 210.0 |
| 48" | | 122.5 | 210.0 | 78.2 | 134.0 | 180.0 | 210.0 |
| 54" | | 113.6 | 194.8 | 72.5 | 124.3 | 142.2 | 210.0 |
| 24" | 108" | 183.8 | 210.0 | 117.3 | 210.0 | 210.0 | 210.0 |
| 30" | | 151.7 | 210.0 | 96.8 | 179.8 | 210.0 | 210.0 |
| 32" | | 143.8 | 210.0 | 91.8 | 170.4 | 210.0 | 210.0 |
| 36" | | 130.7 | 210.0 | 83.4 | 154.8 | 210.0 | 210.0 |
| 42" | | 115.9 | 210.0 | 73.9 | 137.3 | 176.3 | 210.0 |
| 48" | | 105.0 | 195.0 | 67.0 | 124.4 | 180.0 | 210.0 |
| 24" | 120" | 186.7 | 210.0 | 119.1 | 210.0 | 210.0 | 210.0 |
| 30" | | 153.6 | 210.0 | 98.0 | 183.8 | 210.0 | 210.0 |
| 32" | | 145.4 | 210.0 | 92.8 | 173.9 | 210.0 | 210.0 |
| 36" | | 131.8 | 210.0 | 84.1 | 157.6 | 210.0 | 210.0 |
| 42" | | 116.4 | 210.0 | 74.3 | 139.2 | 176.3 | 210.0 |

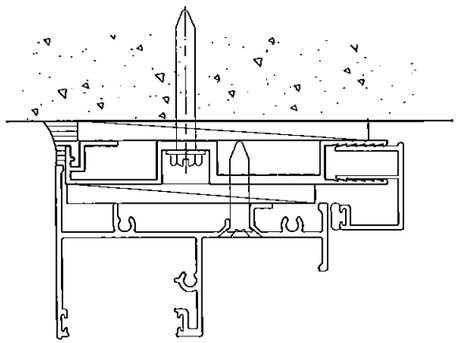
## PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

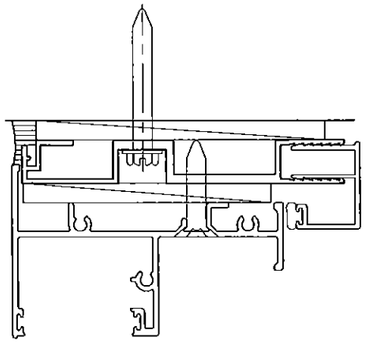
EXT.(+) & INT.(–)

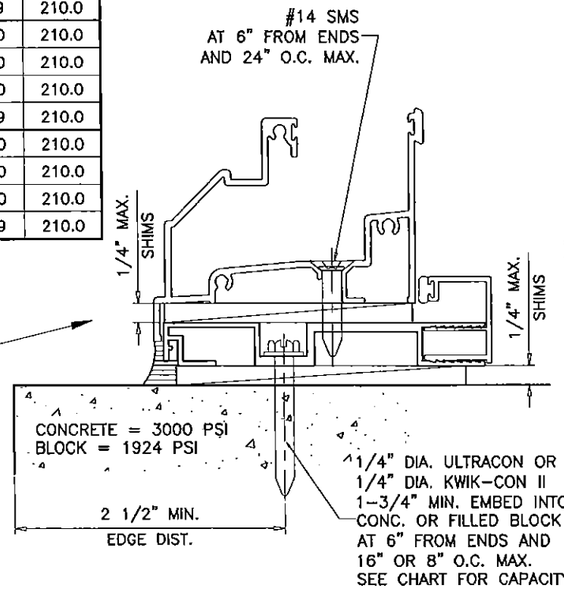
| WINDOW DIMS. | | ANCHOR SPACING INTO CONC. | | ANCHOR SPACING INTO HOLLOW BLOCK | | ANCHOR SPACING INTO WOOD | |
|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | 16" O.C. | 8" O.C. | 16" O.C. | 8" O.C. | 16" O.C. | 8" O.C. |
| 19-1/8" | 26" | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 37" | | 210.0 | 210.0 | 185.5 | 210.0 | 210.0 | 210.0 |
| 53-1/8" | | 210.0 | 210.0 | 148.0 | 210.0 | 198.8 | 210.0 |
| 19-1/8" | 38-3/8" | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 210.0 | 210.0 | 173.9 | 210.0 | 210.0 | 210.0 |
| 37" | | 210.0 | 210.0 | 157.4 | 210.0 | 210.0 | 210.0 |
| 53-1/8" | | 185.8 | 210.0 | 118.5 | 207.4 | 159.2 | 210.0 |
| 19-1/8" | 50-5/8" | 210.0 | 210.0 | 196.6 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 210.0 | 210.0 | 155.9 | 210.0 | 210.0 | 210.0 |
| 37" | | 203.5 | 210.0 | 129.9 | 194.8 | 210.0 | 210.0 |
| 53-1/8" | | 171.8 | 210.0 | 109.6 | 180.7 | 147.3 | 210.0 |
| 19-1/8" | 63" | 210.0 | 210.0 | 188.8 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 210.0 | 210.0 | 146.4 | 210.0 | 210.0 | 210.0 |
| 37" | | 183.7 | 210.0 | 117.2 | 187.5 | 210.0 | 210.0 |
| 53-1/8" | | 156.2 | 210.0 | 99.7 | 159.5 | 146.9 | 210.0 |
| 19-1/8" | 72" | 210.0 | 210.0 | 161.6 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 194.2 | 210.0 | 123.9 | 210.0 | 210.0 | 210.0 |
| 37" | | 152.8 | 210.0 | 97.5 | 175.5 | 210.0 | 210.0 |
| 53-1/8" | | 125.3 | 210.0 | 79.9 | 143.9 | 146.9 | 210.0 |
| 19-1/8" | 76" | 210.0 | 210.0 | 151.9 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 181.9 | 210.0 | 116.0 | 208.9 | 210.0 | 210.0 |
| 37" | | 142.1 | 210.0 | 90.7 | 163.3 | 210.0 | 210.0 |
| 53-1/8" | | 115.1 | 207.3 | 73.5 | 132.2 | 146.9 | 210.0 |

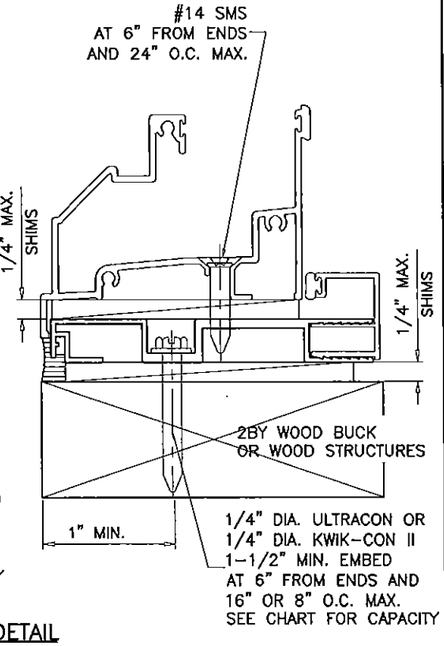
# ALUMINUM BUCK FRAMING DETAILS

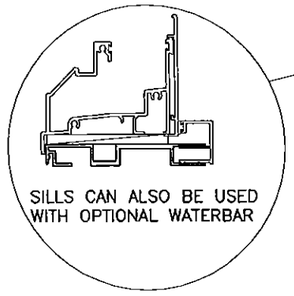
REFER TO SHEETS 3 THRU 9 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



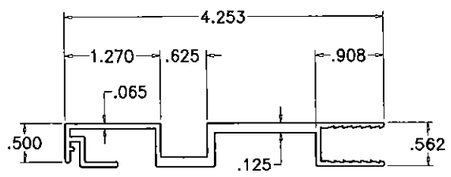




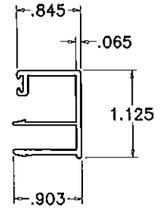




## TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM




ALUMINUM BUCK
6063–T6




OPTIONAL COVER
6063–T6

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

JUL 30 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.07
Expiration Date May 5, 2020
By Manuel Perez
Miami-Dade Product Control


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W005-04CGI


SERIES '360' ALUM SINGLE HUNG WDW. (L.M.I.)

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

revisions:

| no | date | by | description |
|---|---|---|---|
| C | 11.12.08 | | NO CHANGE THIS SHEET |
| D | 01.03.12 | | CHART REV. |
| E | 08.06.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

sheet 9 of 10

## PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

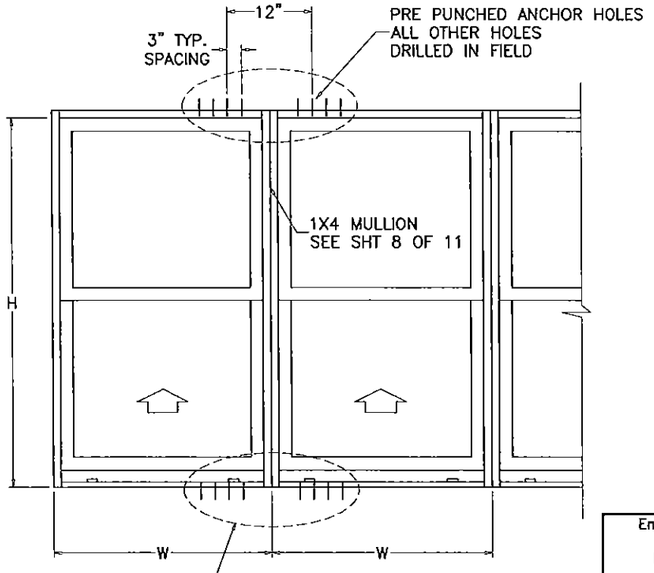
EXT.(+) & INT.(–)

| WINDOW DIMS. | | ANCHORS INTO HOLLOW BLOCK | | | | ANCHORS INTO CONC. | | | | ANCHORS INTO WOOD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | CLUSTER OF 2 | CLUSTER OF 4 | CLUSTER OF 6 | CLUSTER OF 8 | CLUSTER OF 2 | CLUSTER OF 4 | CLUSTER OF 6 | CLUSTER OF 8 | CLUSTER OF 2 | CLUSTER OF 4 | CLUSTER OF 6 | CLUSTER OF 8 |
| 24" | 48" | 89.3 | 178.7 | 210.0 | 210.0 | 140.0 | 210.0 | 210.0 | 210.0 | 120.0 | 210.0 | 210.0 | 210.0 |
| 30" | | 78.0 | 155.9 | 210.0 | 210.0 | 122.2 | 210.0 | 210.0 | 210.0 | 104.7 | 209.5 | 210.0 | 210.0 |
| 32" | | 75.4 | 150.8 | 210.0 | 210.0 | 118.1 | 210.0 | 210.0 | 210.0 | 101.3 | 202.5 | 210.0 | 210.0 |
| 36" | | 71.5 | 142.9 | 210.0 | 210.0 | 112.0 | 210.0 | 210.0 | 210.0 | 96.0 | 192.0 | 210.0 | 210.0 |
| 42" | | 68.1 | 136.1 | 204.2 | 210.0 | 106.7 | 210.0 | 210.0 | 210.0 | 91.4 | 182.9 | 210.0 | 210.0 |
| 48" | | 67.0 | 134.0 | 201.0 | 210.0 | 105.0 | 210.0 | 210.0 | 210.0 | 90.0 | 180.0 | 210.0 | 210.0 |
| 54" | | 67.0 | 134.0 | 201.0 | 210.0 | 105.0 | 210.0 | 210.0 | 210.0 | 90.0 | 180.0 | 210.0 | 210.0 |
| 24" | 60" | 67.0 | 134.0 | 201.0 | 210.0 | 105.0 | 210.0 | 210.0 | 210.0 | 90.0 | 180.0 | 210.0 | 210.0 |
| 30" | | 57.2 | 114.3 | 171.5 | 210.0 | 89.6 | 179.2 | 210.0 | 210.0 | 76.8 | 153.6 | 210.0 | 210.0 |
| 32" | | 54.8 | 109.6 | 164.5 | 210.0 | 85.9 | 171.8 | 210.0 | 210.0 | 73.6 | 147.3 | 210.0 | 210.0 |
| 36" | | 51.0 | 102.1 | 153.1 | 204.2 | 80.0 | 160.0 | 210.0 | 210.0 | 68.6 | 137.1 | 205.7 | 210.0 |
| 42" | | 47.1 | 94.2 | 141.4 | 188.5 | 73.8 | 147.7 | 210.0 | 210.0 | 63.3 | 126.6 | 189.9 | 210.0 |
| 48" | | 44.7 | 89.3 | 134.0 | 178.7 | 70.0 | 140.0 | 210.0 | 210.0 | 60.0 | 120.0 | 180.0 | 210.0 |
| 54" | | 43.3 | 86.6 | 129.9 | 173.3 | 67.9 | 135.8 | 203.6 | 210.0 | 58.2 | 116.4 | 174.5 | 210.0 |
| 24" | 72" | 53.6 | 107.2 | 160.8 | 210.0 | 84.0 | 168.0 | 210.0 | 210.0 | 72.0 | 144.0 | 210.0 | 210.0 |
| 30" | | 45.1 | 90.3 | 135.4 | 180.5 | 70.7 | 141.5 | 210.0 | 210.0 | 60.6 | 121.3 | 181.9 | 210.0 |
| 32" | | 43.1 | 86.1 | 129.2 | 172.3 | 67.5 | 135.0 | 202.5 | 210.0 | 57.9 | 115.7 | 173.6 | 210.0 |
| 36" | | 39.7 | 79.4 | 119.1 | 158.8 | 62.2 | 124.4 | 186.7 | 210.0 | 53.3 | 106.7 | 160.0 | 210.0 |
| 42" | | 36.0 | 72.1 | 108.1 | 144.1 | 56.5 | 112.9 | 169.4 | 210.0 | 48.4 | 96.8 | 145.2 | 193.6 |
| 48" | | 33.5 | 67.0 | 100.5 | 134.0 | 52.5 | 105.0 | 157.5 | 210.0 | 45.0 | 90.0 | 135.0 | 180.0 |
| 54" | | 31.8 | 63.5 | 95.3 | 127.1 | 49.8 | 99.6 | 149.3 | 199.1 | 42.7 | 85.3 | 128.0 | 170.7 |
| 24" | 84" | 44.7 | 89.3 | 134.0 | 178.7 | 70.0 | 140.0 | 210.0 | 210.0 | 60.0 | 120.0 | 180.0 | 210.0 |
| 30" | | 37.3 | 74.6 | 111.9 | 149.1 | 58.4 | 116.9 | 175.3 | 210.0 | 50.1 | 100.2 | 150.3 | 200.3 |
| 32" | | 35.5 | 70.9 | 106.4 | 141.9 | 55.6 | 111.2 | 166.8 | 210.0 | 47.6 | 95.3 | 142.9 | 190.6 |
| 36" | | 32.5 | 65.0 | 97.5 | 129.9 | 50.9 | 101.8 | 152.7 | 203.6 | 43.6 | 87.3 | 130.9 | 174.5 |
| 42" | | 29.2 | 58.3 | 87.5 | 116.7 | 45.7 | 91.4 | 137.1 | 182.9 | 39.2 | 78.4 | 117.6 | 156.7 |
| 48" | | 26.8 | 53.6 | 80.4 | 107.2 | 42.0 | 84.0 | 126.0 | 168.0 | 36.0 | 72.0 | 108.0 | 144.0 |
| 54" | | 25.1 | 50.2 | 75.2 | 100.3 | 39.3 | 78.6 | 117.9 | 157.2 | 33.7 | 67.4 | 101.1 | 134.7 |
| 24" | 96" | 38.3 | 76.6 | 114.9 | 153.1 | 60.0 | 120.0 | 180.0 | 210.0 | 51.4 | 102.9 | 154.3 | 205.7 |
| 30" | | 31.8 | 63.5 | 95.3 | 127.1 | 49.8 | 99.6 | 149.3 | 199.1 | 42.7 | 85.3 | 128.0 | 170.7 |
| 32" | | 30.1 | 60.3 | 90.4 | 120.6 | 47.2 | 94.5 | 141.7 | 189.0 | 40.5 | 81.0 | 121.5 | 162.0 |
| 36" | | 27.5 | 55.0 | 82.5 | 109.9 | 43.1 | 86.2 | 129.2 | 172.3 | 36.9 | 73.8 | 110.8 | 147.7 |
| 42" | | 24.5 | 49.0 | 73.5 | 98.0 | 38.4 | 76.8 | 115.2 | 153.6 | 32.9 | 65.8 | 98.7 | 131.7 |
| 48" | | 22.3 | 44.7 | 67.0 | 89.3 | 35.0 | 70.0 | 105.0 | 140.0 | 30.0 | 60.0 | 90.0 | 120.0 |
| 54" | | 20.7 | 41.4 | 62.1 | 82.9 | 32.5 | 64.9 | 97.4 | 129.9 | 27.8 | 55.7 | 83.5 | 111.3 |
| 24" | 108" | 33.5 | 67.0 | 100.5 | 134.0 | 52.5 | 105.0 | 157.5 | 210.0 | 45.0 | 90.0 | 135.0 | 180.0 |
| 30" | | 27.7 | 55.3 | 83.0 | 110.7 | 43.4 | 86.7 | 130.1 | 173.4 | 37.2 | 74.3 | 111.5 | 148.6 |
| 32" | | 26.2 | 52.4 | 78.7 | 104.9 | 41.1 | 82.2 | 123.3 | 164.3 | 35.2 | 70.4 | 105.7 | 140.9 |
| 36" | | 23.8 | 47.6 | 71.5 | 95.3 | 37.3 | 74.7 | 112.0 | 149.3 | 32.0 | 64.0 | 96.0 | 128.0 |
| 42" | | 21.1 | 42.2 | 63.4 | 84.5 | 33.1 | 66.2 | 99.3 | 132.4 | 28.4 | 56.7 | 85.1 | 113.5 |
| 48" | | 19.1 | 38.3 | 57.4 | 76.6 | 30.0 | 60.0 | 90.0 | 120.0 | 25.7 | 51.4 | 77.1 | 102.9 |
| 24" | 120" | 29.8 | 59.6 | 89.3 | 119.1 | 46.7 | 93.3 | 140.0 | 186.7 | 40.0 | 80.0 | 120.0 | 160.0 |
| 30" | | 24.5 | 49.0 | 73.5 | 98.0 | 38.4 | 76.8 | 115.2 | 153.6 | 32.9 | 65.8 | 98.7 | 131.7 |
| 32" | | 23.2 | 46.4 | 69.6 | 92.8 | 36.3 | 72.7 | 109.0 | 145.4 | 31.2 | 62.3 | 93.5 | 124.6 |
| 36" | | 21.0 | 42.0 | 63.1 | 84.1 | 32.9 | 65.9 | 98.8 | 131.8 | 28.2 | 56.5 | 84.7 | 112.9 |
| 42" | | 18.6 | 37.1 | 55.7 | 74.3 | 29.1 | 58.2 | 87.3 | 116.4 | 24.9 | 49.9 | 74.8 | 99.7 |

## PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

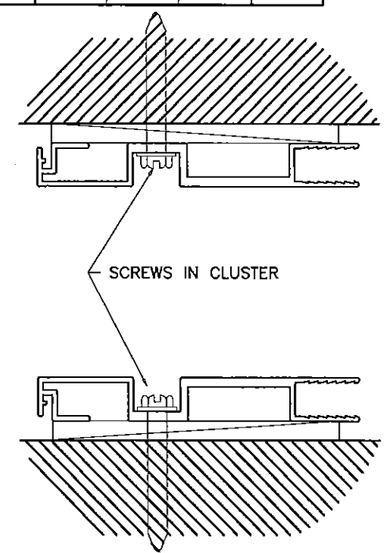
EXT.(+) & INT.(–)

| WINDOW DIMS. | | ANCHORS INTO HOLLOW BLOCK | | | | ANCHORS INTO CONC. | | | | ANCHORS INTO WOOD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WIDTH | HEIGHT | CLUSTER OF 2 | CLUSTER OF 4 | CLUSTER OF 6 | CLUSTER OF 8 | CLUSTER OF 2 | CLUSTER OF 4 | CLUSTER OF 6 | CLUSTER OF 8 | CLUSTER OF 2 | CLUSTER OF 4 | CLUSTER OF 6 | CLUSTER OF 8 |
| 19-1/8" | 26" | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 37" | | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 53-1/8" | | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| 19-1/8" | 38-3/8" | 140.1 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 188.2 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 115.9 | 210.0 | 210.0 | 210.0 | 181.7 | 210.0 | 210.0 | 210.0 | 155.7 | 210.0 | 210.0 | 210.0 |
| 37" | | 105.0 | 209.9 | 210.0 | 210.0 | 164.5 | 210.0 | 210.0 | 210.0 | 141.0 | 210.0 | 210.0 | 210.0 |
| 53-1/8" | | 104.8 | 209.6 | 210.0 | 210.0 | 164.3 | 210.0 | 210.0 | 210.0 | 140.8 | 210.0 | 210.0 | 210.0 |
| 19-1/8" | 50-5/8" | 98.3 | 196.6 | 210.0 | 210.0 | 154.0 | 210.0 | 210.0 | 210.0 | 132.0 | 210.0 | 210.0 | 210.0 |
| 26-1/2" | | 77.9 | 155.9 | 210.0 | 210.0 | 122.1 | 210.0 | 210.0 | 210.0 | 104.7 | 209.4 | 210.0 | 210.0 |
| 37" | | 64.9 | 129.9 | 194.8 | 210.0 | 101.8 | 203.5 | 210.0 | 210.0 | 87.2 | 174.5 | 210.0 | 210.0 |
| 53-1/8" | | 60.2 | 120.5 | 180.7 | 210.0 | 94.4 | 188.8 | 210.0 | 210.0 | 80.9 | 161.8 | 210.0 | 210.0 |
| 19-1/8" | 63" | 75.5 | 151.0 | 210.0 | 210.0 | 118.4 | 210.0 | 210.0 | 210.0 | 101.4 | 202.9 | 210.0 | 210.0 |
| 26-1/2" | | 58.5 | 117.1 | 175.6 | 210.0 | 91.7 | 183.5 | 210.0 | 210.0 | 78.6 | 157.3 | 210.0 | 210.0 |
| 37" | | 46.9 | 93.8 | 140.6 | 187.5 | 73.5 | 146.9 | 210.0 | 210.0 | 63.0 | 125.9 | 188.9 | 210.0 |
| 53-1/8" | | 39.9 | 79.7 | 119.6 | 159.5 | 62.5 | 125.0 | 187.5 | 210.0 | 53.6 | 107.1 | 160.7 | 210.0 |
| 19-1/8" | 72" | 64.6 | 129.3 | 193.9 | 210.0 | 101.3 | 202.6 | 210.0 | 210.0 | 86.8 | 173.7 | 210.0 | 210.0 |
| 26-1/2" | | 49.6 | 99.2 | 148.7 | 198.3 | 77.7 | 155.4 | 210.0 | 210.0 | 66.6 | 133.2 | 199.8 | 210.0 |
| 37" | | 39.0 | 78.0 | 117.0 | 156.0 | 61.1 | 122.2 | 183.3 | 210.0 | 52.4 | 104.8 | 157.1 | 209.5 |
| 53-1/8" | | 32.0 | 64.0 | 95.9 | 127.9 | 50.1 | 100.2 | 150.3 | 200.4 | 43.0 | 85.9 | 128.9 | 171.8 |
| 19-1/8" | 76" | 60.7 | 121.5 | 182.2 | 210.0 | 95.2 | 190.4 | 210.0 | 210.0 | 81.6 | 163.2 | 210.0 | 210.0 |
| 26-1/2" | | 46.4 | 92.8 | 139.2 | 185.7 | 72.7 | 145.5 | 210.0 | 210.0 | 62.3 | 124.7 | 187.0 | 210.0 |
| 37" | | 36.3 | 72.6 | 108.8 | 145.1 | 56.9 | 113.7 | 170.6 | 210.0 | 48.7 | 97.5 | 146.2 | 194.9 |
| 53-1/8" | | 29.4 | 58.8 | 88.2 | 117.6 | 46.1 | 92.1 | 138.2 | 184.2 | 39.5 | 79.0 | 118.4 | 157.9 |




CLUSTER OF 2, 4, 6 OR 8 ANCHORS (SEE CHARTS ABOVE). ALL OTHER BUCK ANCHORS AS PER SHEET 9. (CLUSTER OF 8 BEING SHOWN)

NOTE: ALUMINUM BUCKS ARE SUPPLIED WITH CLUSTER OF 2 (1 SCREW HOLE PER SIDE) STANDARD. EXTRA HOLES MUST BE FIELD DRILLED IF REQUIRED.




ANCHORS MIN. EDGE DIST. = 2-1/2 IN.

## ANCHORS AT ALUMINUM BUCK FRAMING (AT MULLION ENDS)

FOR WINDOW ANCHORING TO ALUMINUM BUCKS USE #14 SCREWS SPACED AS PER SHEETS 7 & 8.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 5538

JUL 31 2015

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 15-0512.07
Expiration Date May 5, 2020
By Manuel Perez
Miami-Dade Product Control


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W005-04CGI


SERIES '360' ALUM. SINGLE HUNG WDW. (L.M.I.)

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revisions:

| no | date | by | description |
|---|---|---|---|
| C | 11.12.08 | | NO CHANGE THIS SHEET |
| D | 01.03.12 | | CHART REV. |
| E | 08.05.14 | | UPDATED TO 2014 FBC |
| F | 05.05.15 | | NO CHANGE THIS SHEET |

date: 01-28-05
scale: -
dr. by: -
chk. by:

drawing no.
W05-04

sheet 10 of 10