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.
3780 W 104th Street,
Hialeah Fl. 33018

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 "HR375" Aluminum Horizontal Rolling Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **375LMNOA-1 Rev A** (former **W09-130**), titled "Series-HR-375 Alum. Horizontal Rolling Window", sheets 1 through 18 of 18, dated 06/03/20, , prepared by manufacturer, signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

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

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

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

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

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

This NOA **revises NOA# 18-1001.07** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No.09-0402.20)

2. Drawing No **W09**-1**3**, titled "Series-375 Alum. Horiz. Rolling Wdw. (L.M.I./S.M.I.)", sheets 1 through 6, 6.1, 7, 8, 8.1, 9 and 10 through 16 of 16, dated 02/27/09, with revision **H** dated 11/13/17, 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.
(Submitted under NOA No.16-0125.07)

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.
(Submitted under NOA No.16-0125.07)

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.
(Submitted under NOA No.16-0125.07)

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

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0610.05
Expiration Date: June 10, 2024
Approval Date: October 22, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports **(CONTINUED)**

5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0907-08**, dated 12/18/08, signed and sealed by Vinu J. Abraham, P.E. ***(Submitted under NOA No. 09-0402.20)***

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 08/31/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. ***(Submitted under NOA No.17-1018.05)***

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. **14-0916.11** 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. **17-0712.03** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 09/07/17, expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014),** with **FBC 6th Edition (2017)**, dated August 31, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. ***(Submitted under NOA No. 17-1018.05)***

2. Laboratory compliance letters for Test Reports No. **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 NOA No.16-0125.07)***

3. Testing Proposal issued by the Product Control Section, dated 12/16/14, signed by Jaime Gascon, P.E., Section Supervisor. ***(Submitted under NOA No.16-0125.07)***

4. Laboratory compliance letter for Test Report No. **HTL–0080–0907–08**, issued by Hurricane Test Laboratory, LLC, dated 12/18/08, signed and sealed by Vinu J. Abraham, P.E. ***(Submitted under NOA No. 09–0402.20)***

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0610.05
Expiration Date: June 10, 2024
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHERS

1. Notice of Acceptance No. **16-0125.07**, issued to CGI Windows & Doors for their Series "375" Aluminum Horizontal Rolling Window - L.M.I., approved on 07/21/16 and expiring on 06/10/19.

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA(s)

A. DRAWINGS

1. None

B. TESTS

1. None

C. CALCULATIONS

1. None

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23**.**

2. Notice of Acceptance No. **18-0301.06** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 05/17/18, expiring on 12/11/23.

F. STATEMENTS

1. None

G. OTHERS

1. Notice of Acceptance No. **17-1018.05**, issued to CGI Windows and Doors, Inc. for their Series "375" Aluminum Horizontal Rolling Window - L.M.I., approved on 12/28/17 and expiring on 06/10/19.

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **375LMNOA-1 Rev A** (former **W09-130**), titled "Series-HR-375 Alum. Horizontal Rolling Window", sheets 1 through 18 of 18, dated 06/03/20, prepared by manufacturer, signed and sealed by Lynn Miller, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0610.05
Expiration Date: June 10, 2024
Approval Date: October 22, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of all PGT Industries, Inc. CGI Windows and Doors, Inc., representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal #**19-1155TP**, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

PGT Industries, Inc. test specimens:

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2,** PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3,** PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal)
all dated 07/13/20 and signed and sealed by Idalmis Ortega, P.E.

CGI Windows and Doors Inc. test specimens:

FTL-20-2108.1, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal) **FTL-20-2108.2,** CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal) **FTL-20-2108.3,** CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal) **FTL-20-2108.4**, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and **FTL-20-2108.5**, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal)
all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 03/26/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

2. Glazing complies with **ASTM E1300-04, -09, -12 and -16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/24.
2. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0610.05
Expiration Date: June 10, 2024
Approval Date: October 22, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letters of conformance to FBC 2020 (**7th** Edition), dated 03/26/20, prepared, signed & sealed by Lynn Miller, P. E.
2. Notification of Successor Engineer per the Florida Administrative Code Section 61G15-27.001, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated 03/26/20, signed and sealed by A. Lynn Miller, P.E.

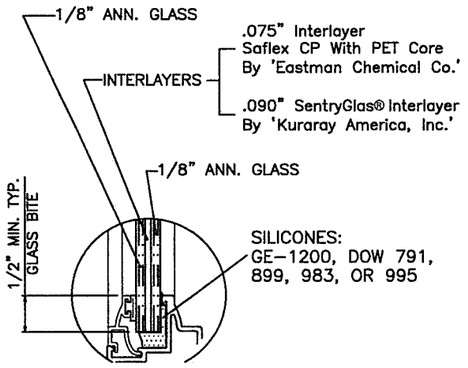
G. OTHER

1. This NOA **revises NOA No. # 18-1001.07** and updates to FBC 2020 (7th Edition), expiring 06/10/24.
2. RER Test proposals #**19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

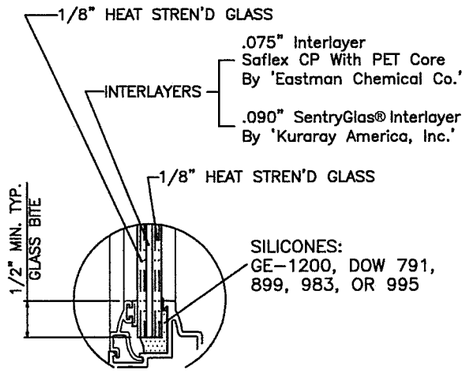
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0610.05
Expiration Date: June 10, 2024
Approval Date: October 22, 2020

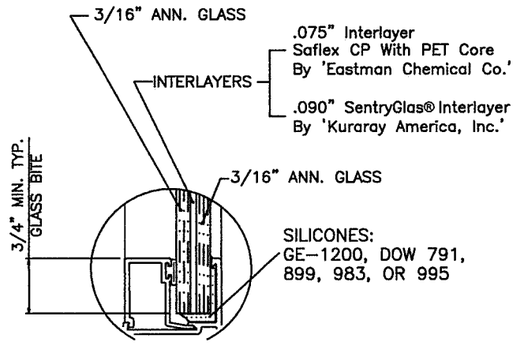
GLASS TYPES



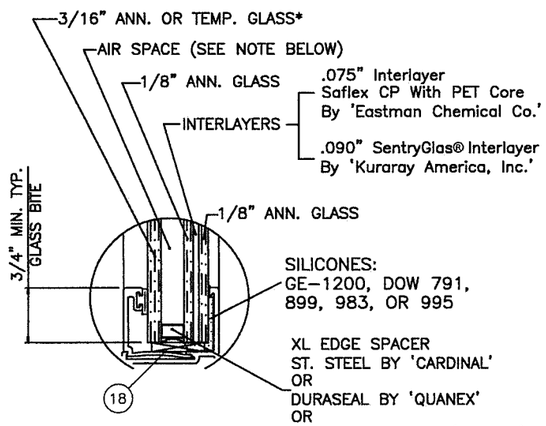
5/16" NOMINAL
GLASS TYPE '1'



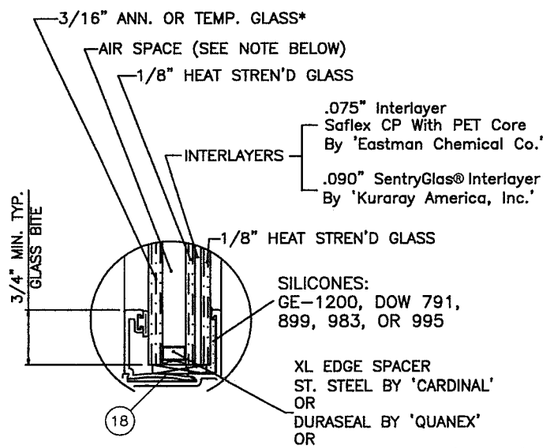
5/16" NOMINAL
GLASS TYPE '2'



7/16" NOMINAL
GLASS TYPE '3'

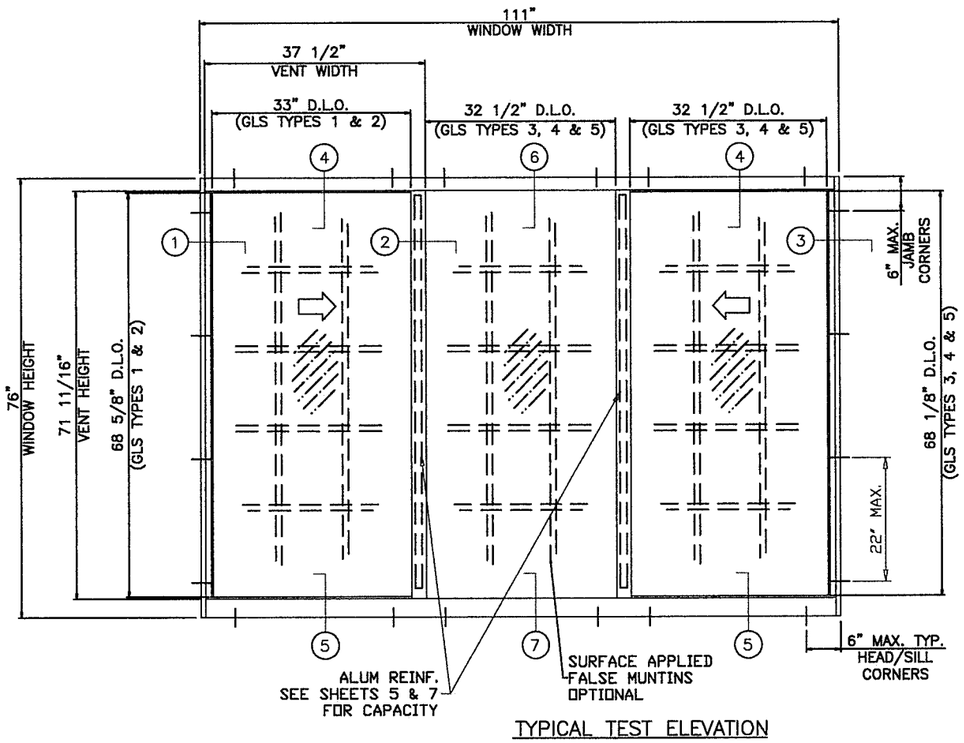


13/16" INSULATED
GLASS TYPE '4'



13/16" INSULATED
GLASS TYPE '5'

* FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, OR FOR SAFETY GLAZING APPLICATIONS PER THE FBC, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.



TYPICAL TEST ELEVATION

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

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 5 AND 8.
FOR INSTALLATION ANCHOR TYPES SEE SHEETS 6 & 9.
EXTRA ANCHORS AT HEAD & SILL ARE SHOWN ON SHEETS 6, 7, 9 & 10.

STEP 3 IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM SHEETS 16 & 17.

STEP 4 FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION CAPACITY FOR 1X4 TUBE FROM CHARTS ON SHEET 14.

STEP 5 FOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 15.

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

SERIES 375 'ESTATE' ALUMINUM HORIZONTAL ROLLER WINDOW
LARGE & SMALL MISSILE

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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 2017/2020 FLORIDA BUILDING CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

Revision: REVISED FOR 2020 FBC, ADDED ANCHOR & BACK-BEDDING TYPE & REFOR-MATTED - JR - 5/29/20

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

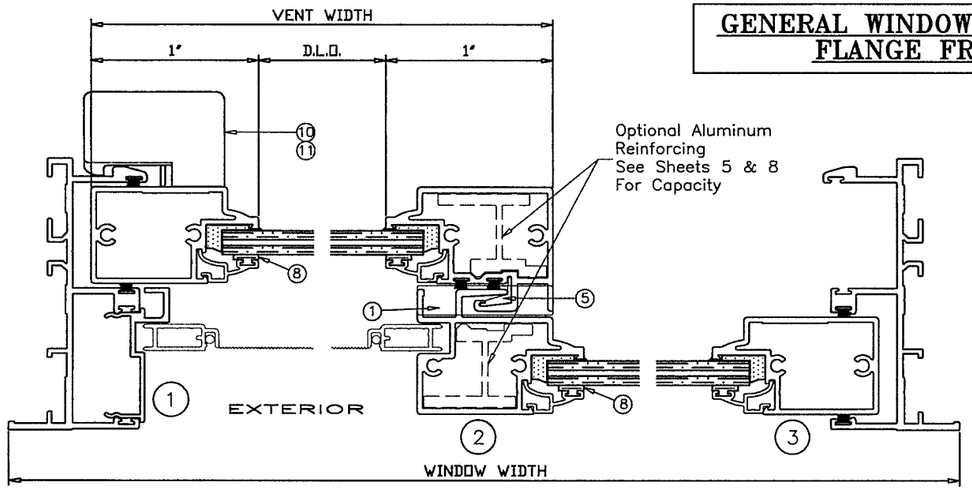
Rev.	Date	Drown By	DWG No.	Sheet	Scale	Desc.	Series
A	05/29/20	J ROSOWSKI	375LMNOA-1	1 OF 18	NTS	GEN. NOTES AND ELEVATIONS	HR375 "ESTATE"

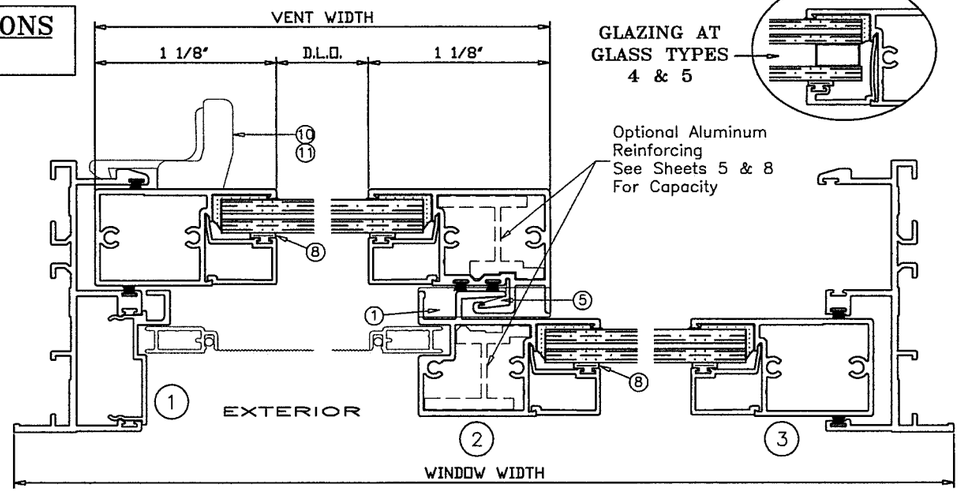
Title: 375 ALUM. HORIZONTAL ROLLER WDW. - LMI

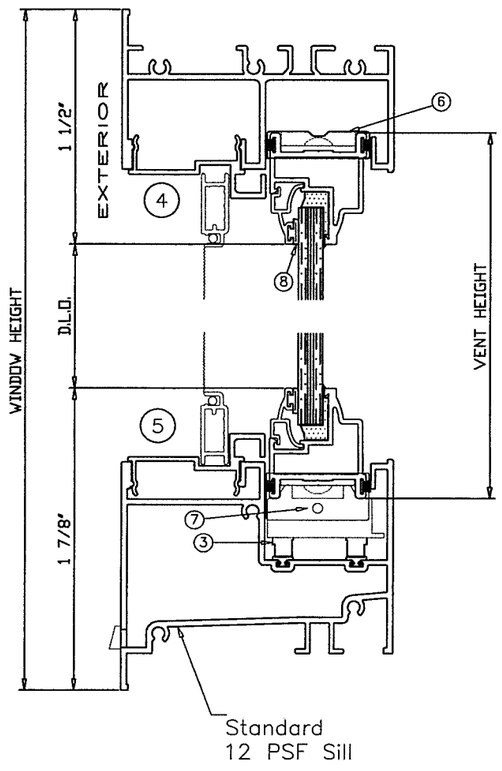
Impact Resistant Windows & Doors WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

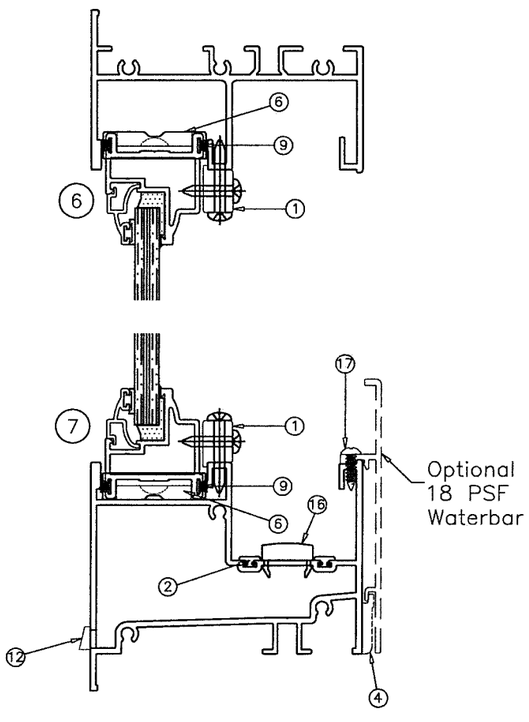
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705

GENERAL WINDOW SECTIONS
FLANGE FRAME

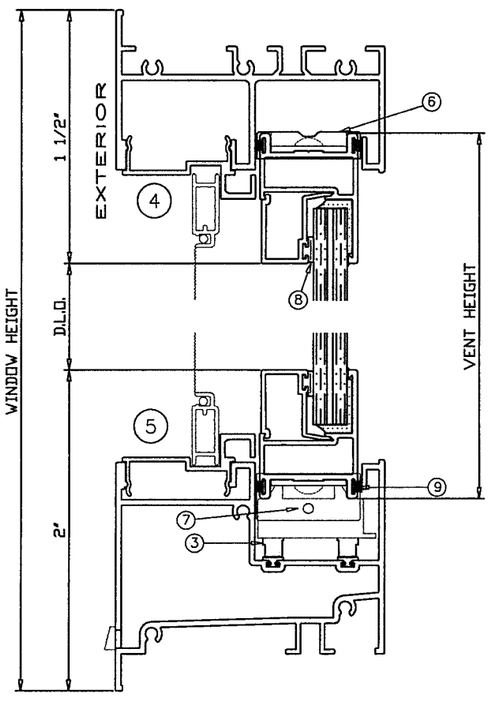


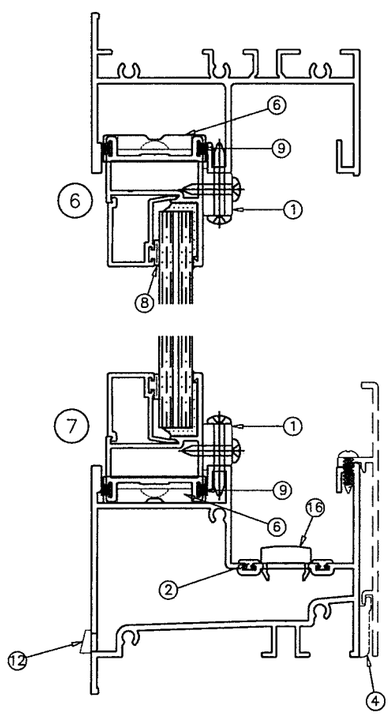






GLASS TYPES
1 & 2





GLASS TYPES
3, 4, & 5

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

Revision:

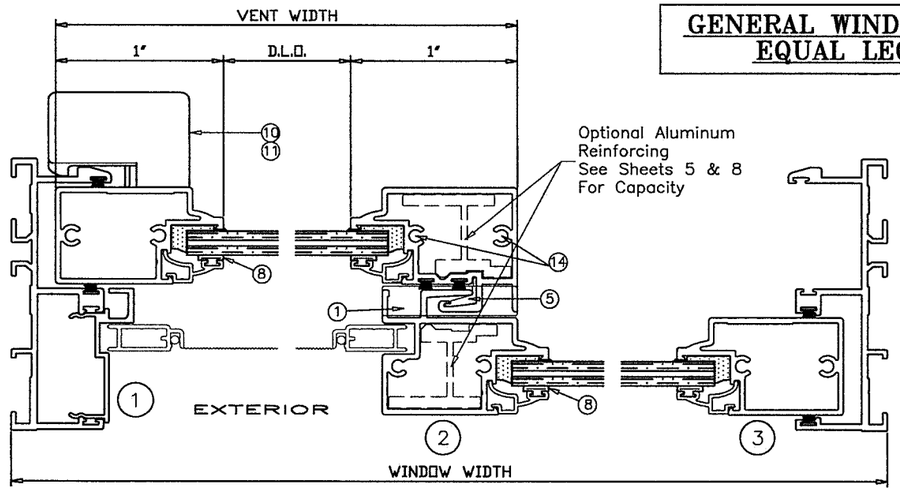
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

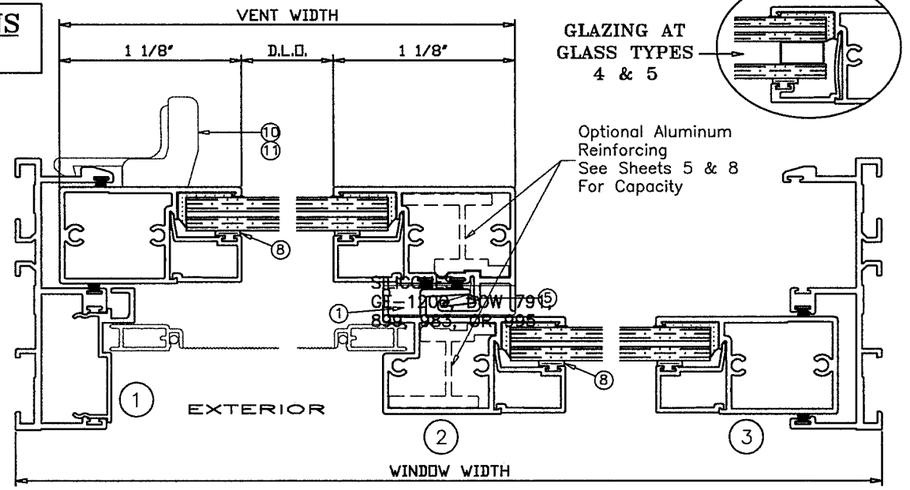
Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

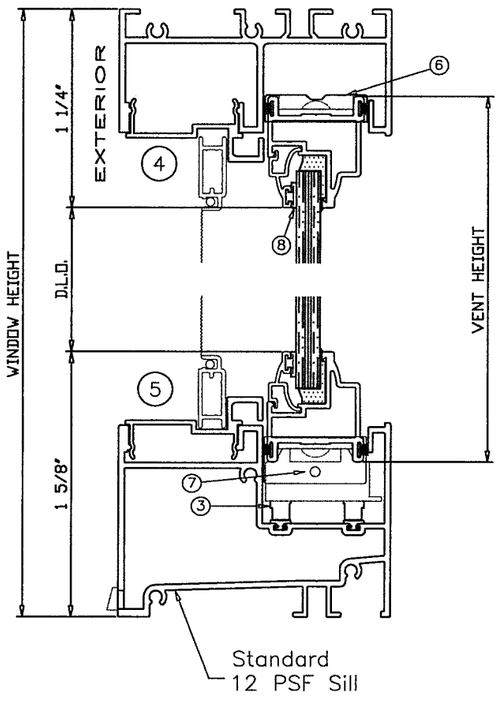
Title	375 ALUM. HORIZONTAL ROLLER WDW. - LMI
Date	05/29/20
Drawn By	J ROSOWSKI
DWG No.	375LMNOA-1
Rev.	A
Desc.	CROSS SECTIONS, FLANGE FRAMES
Scale	NTS
Sheet	2 OF 18
Series	HR375 "ESTATE"

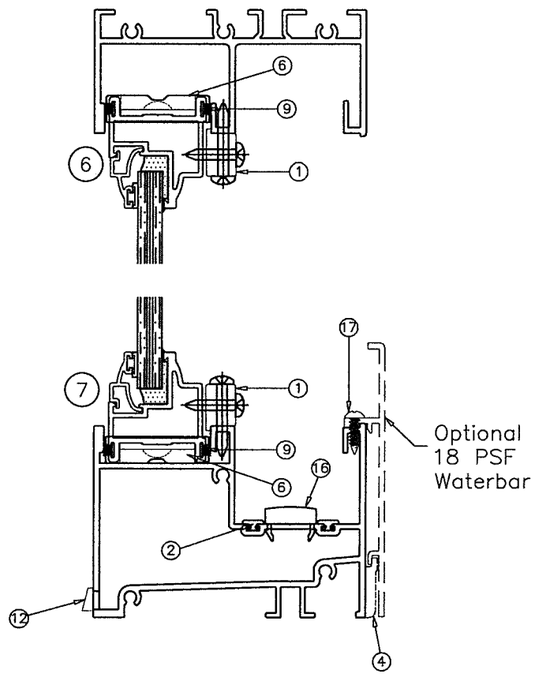
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705

GENERAL WINDOW SECTIONS
EQUAL LEG FRAME

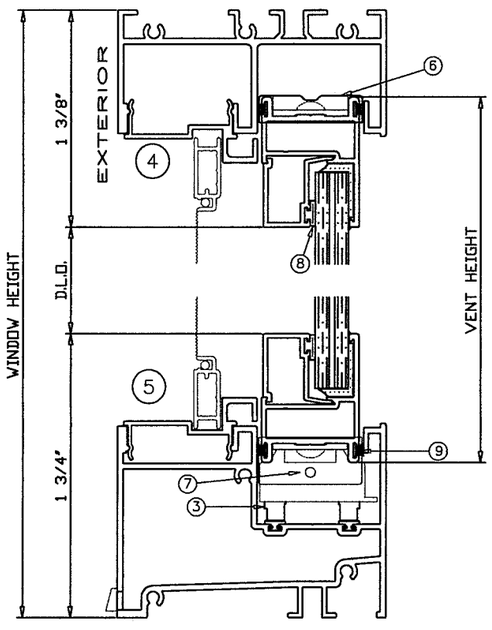


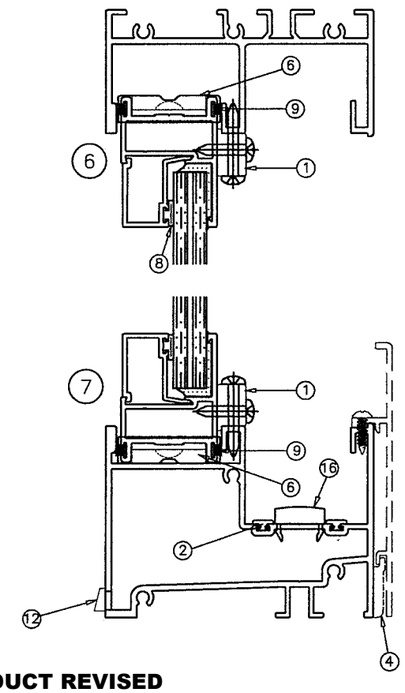






GLASS TYPES
1 & 2





GLASS TYPES
3, 4, & 5

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

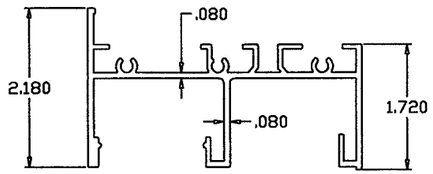
REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

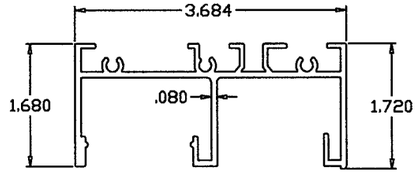
Title	Desc.	Series	Scale	Sheet
375 ALUM. HORIZONTAL ROLLER WDW. - LMI	CROSS SECTIONS, EQUAL LEG FRAMES	HR375 "ESTATE"	NTS	3 OF 18

Date	Drawn By	DWG No.	Rev.
05/29/20	J ROSOWSKI	375LMNOA-1	A

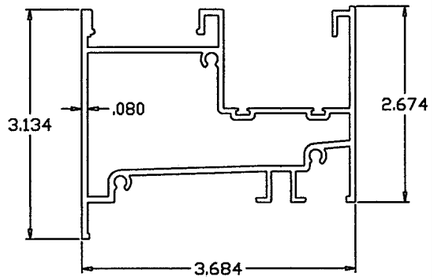
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705



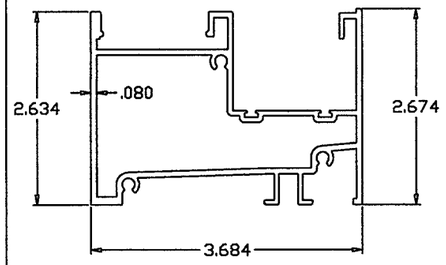
CGI–650
FLANGE FRAME HEAD
6063–T6



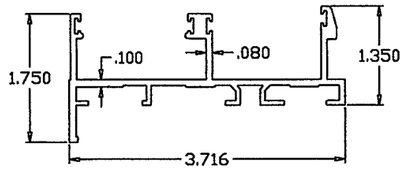
CGI–656
EQUAL LEG FRAME HEAD
6063–T6



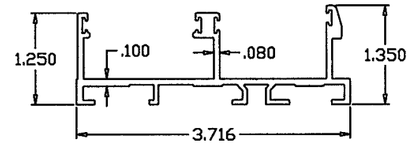
CGI–651
FLANGE FRAME SILL
6063–T6



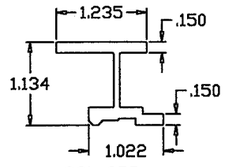
CGI–657
EQUAL LEG FRAME SILL
6063–T6



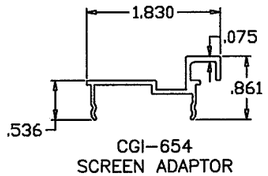
CGI–652
FLANGE FRAME JAMB
6063–T6



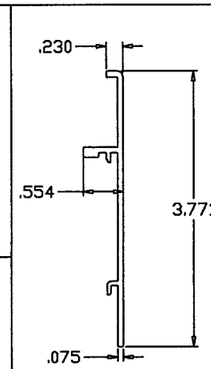
CGI–658
EQUAL LEG FRAME JAMB
6063–T6



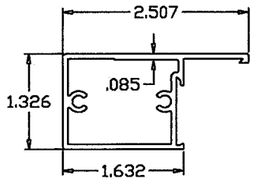
CGI–655
REINFORCEMENT
6063–T6



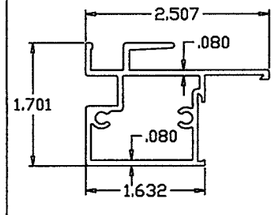
CGI–654
SCREEN ADAPTOR
6063–T5



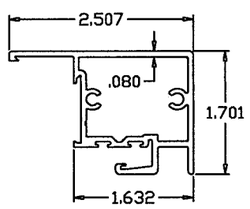
CGI–653
WATERBAR
6063–T5



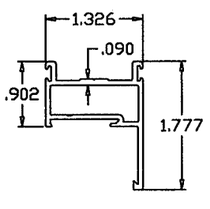
CGI–625
SQUARE LOCK STILE
6063–T6



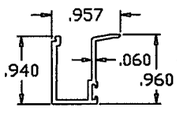
CGI–626
SQUARE FIXED INTERLOCK
6063–T6



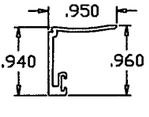
CGI–627
SQUARE OPERABLE INTERLOCK
6063–T6



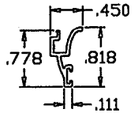
CGI–628
SQUARE TOP/BOTTOM RAIL
6063–T6



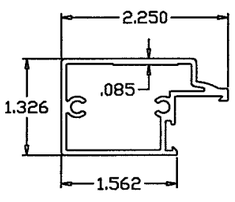
CGI–630
7/16" GLAZING BEAD
6063–T6



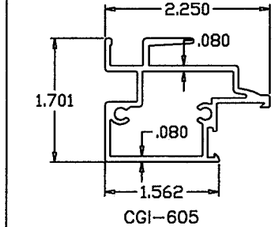
CGI–629
IG GLAZING BEAD
6063–T6



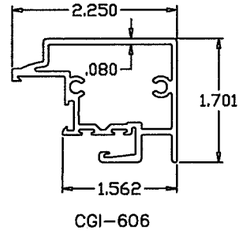
CGI–609
5/16" GLAZING BEAD
6063–T5



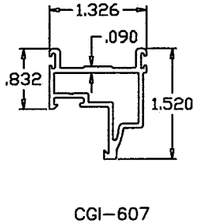
CGI–604
OGEE LOCK STILE
6063–T6



CGI–605
OGEE FIXED INTERLOCK
6063–T6



CGI–606
OGEE OPERABLE INTERLOCK
6063–T6



CGI–607
OGEE TOP/BOTTOM RAIL
6063–T6

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER	REMARKS
1	CGI–614C	2	TIE DOWN BLOCK	ZINC	CUSTOM CASTING	w/ (2) #10 x 3/4" FH SMS into vent & (3) #8 x 1" FH SMS into frame
2	CGI–684	2	ROLLER TRACK INSERT	PVC	CGI EXTRUSION	Continous at frame sill
3	CGI–680	AS REQD.	QUAD ROLLER	NYLON	CUSTOM CASTING	Attached to CGI–685 (vent bottom clip) w/ (1) #6 x 1/2" FH SMS
4	CGI–683	3	WATERBAR CLIP	NYLON	CUSTOM CASTING	w/ (1) #10 x 3/4" FH SMS
5	CGI–612P	1/ INTRLK	INTERLOCK SNUBBER	PVC	CGI EXTRUSION	Continous at interlock
6	CGI–681	2/ OPER 4/ FXD	VENT END CLIP	NYLON	CUSTOM CASTING	Attached w/ vent assembly screws
7	CGI–685	2	OPERABLE VENT BOTTOM CLIP	NYLON	CUSTOM CASTING	Attached w/ vent assembly screws
8	CGI–382V	AS REQD.	VINYL BULB	PVC	CGI EXTRUSION	
9	W2301NG	AS REQD.	WOOL PILE WITH CENTER SOFT FIN (GRAY)	PILE	ULTRAFAB/SCHLEGEL	
10	CGI–615C & 616C	1	EGRESS LOCK AND PULL	ZINC	CUSTOM CASTING	w/ (2) #8 x 5/8" FH SMS
11	CGI–682	1	SELF CLOSING LOCK	ZINC	CUSTOM CASTING	w/ (2) #8 x 5/8" FH SMS
12	HI–FLO WEEPER	3 OR 4	WEEP HOLE COVER	NYLON	PEP	
13	–	3/ CORNER	FRAME ASSEMBLY SCREWS	S/S	VARIES	#10 x 1 1/4" PH SMS
14	–	2/ CORNER	VENT ASSEMBLY SCREWS	S/S	VARIES	#10 x 1 1/4" PH SMS
15	GE–2000	AS REQD.	LOW MODULUS SEALANT	SILICONE	GENERAL ELECTRIC	AT FRAME JOINTS
16	CGI–686	AS REQD.	ACCESS HOLE COVER (w/DRAIN PROVISION)	NYLON	CUSTOM CASTING	Minimum 1 at each Sill install. screw
17	–	AS REQD.	WATERBAR SCREWS AT 25" O.C. MAX.	S/S	VARIES	#6 X 1/4" PH SMS
18	–	2/ LITE	SETTING BLOCK	EPDM	VARIES	DUROMETER 85±5 SHORE A

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control

Material	Min. F_y	Min. F_u
1/4" Tek or Self-drilling Steel Screw, Gr 5	81 ksi	105 ksi
1/4" Hilti Kwik-Con II	157 ksi	163 ksi
1/4" Elco UltraCon	155 ksi	177 ksi
1/4" DeWalt UltraCon+	148 ksi	164 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Date: 05/29/20
Drawn By: J ROSOWSKI
Dwg. No.: 375LMNOA-1
Rev.: A
Title: 375 ALUM. HORIZONTAL ROLLER WDW. - LMI
Desc.: EXTRUSIONS AND BOM
Scale: NTS
Sheet: 4 OF 18
Series: HR375 "ESTATE"

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

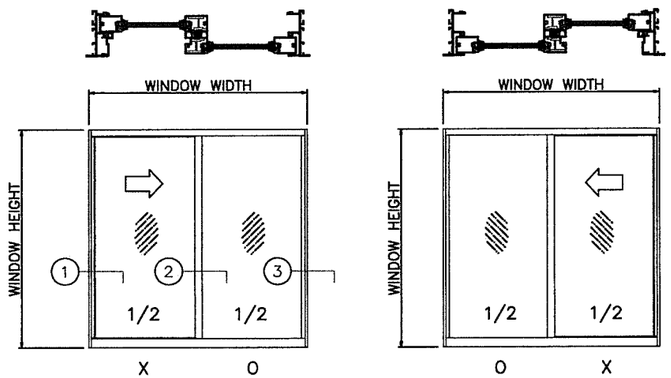
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
a2 6/3/20

A. LYNN MILLER, P.E.
P.E.# 58705

WINDOW DIMS.			INTERLOCKS WITHOUT REINFORCING						INTERLOCKS WITH REINFORCING					
WIDTH		HEIGHT	GLASS TYPE 1		GLASS TYPE 4		GLASS TYPES 2, 3 & 5		GLASS TYPE 2		GLASS TYPE 3		GLASS TYPE 5	
2 PANEL	3 PANEL		EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36"	54"	36"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54"	81"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
60"	90"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
66"	99"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
72"	108"		120.0	145.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
78"	117"		120.0	130.6	120.0	145.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
84"	126"		118.3	118.3	120.0	131.9	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
36"	54"	48"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		120.0	135.1	120.0	135.1	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		120.0	123.1	120.0	123.1	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54"	81"		114.2	114.2	114.2	114.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
60"	90"		107.4	107.4	107.4	107.4	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
66"	99"		102.3	102.3	102.3	102.3	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
72"	108"		98.5	98.5	98.5	98.5	120.0	147.7	120.0	150.0	120.0	150.0	120.0	150.0
78"	117"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
84"	126"		83.9	83.9	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
36"	54"	54"	120.0	131.3	120.0	131.3	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		116.4	116.4	116.4	116.4	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		105.5	105.5	105.5	105.5	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54"	81"		97.3	97.3	97.3	97.3	120.0	145.9	120.0	150.0	120.0	150.0	120.0	150.0
60"	90"		90.9	90.9	90.9	90.9	120.0	136.4	120.0	150.0	120.0	150.0	120.0	150.0
66"	99"		86.0	86.0	86.0	86.0	120.0	128.9	120.0	150.0	120.0	150.0	120.0	150.0
72"	108"		82.1	82.1	82.1	82.1	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
78"	117"		78.6	78.6	79.1	79.1	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
84"	126"		74.6	74.6	76.7	76.7	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
36"	54"	60"	115.9	115.9	115.9	115.9	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		102.3	102.3	102.3	102.3	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		92.3	92.3	92.3	92.3	120.0	138.5	120.0	150.0	120.0	150.0	120.0	150.0
54"	81"		84.7	84.7	84.7	84.7	120.0	127.1	120.0	150.0	120.0	150.0	120.0	150.0
60"	90"		78.8	78.8	78.8	78.8	118.2	118.2	120.0	150.0	120.0	150.0	120.0	150.0
66"	99"		74.1	74.1	74.1	74.1	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
72"	108"		70.4	70.4	70.4	70.4	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
78"	117"		67.3	67.3	67.3	67.3	100.0	100.0	120.0	120.0	117.7	117.7	120.0	120.0
84"	126"		64.9	64.9	64.9	64.9	97.4	97.4	120.0	120.0	110.6	110.6	120.0	120.0
36"	54"	66"	103.7	103.7	103.7	103.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		91.3	91.3	91.3	91.3	120.0	136.9	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		82.1	82.1	82.1	82.1	120.0	123.1	120.0	150.0	120.0	150.0	120.0	150.0
54"	81"		75.0	75.0	75.0	75.0	112.6	112.6	120.0	150.0	120.0	150.0	120.0	150.0
60"	90"		69.5	69.5	69.5	69.5	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
66"	99"		65.1	65.1	65.1	65.1	97.7	97.7	120.0	120.0	120.0	120.0	120.0	120.0
72"	108"		61.6	61.6	61.6	61.6	92.3	92.3	120.0	120.0	116.7	116.7	120.0	120.0
78"	117"		58.7	58.7	58.7	58.7	88.0	88.0	117.3	117.3	107.3	107.3	117.3	117.3
84"	126"		56.3	56.3	56.3	56.3	84.4	84.4	112.6	112.6	100.9	100.9	112.6	112.6
36"	54"	72"	93.8	93.8	93.8	93.8	120.0	140.7	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		82.4	82.4	82.4	82.4	120.0	123.5	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		73.9	73.9	73.9	73.9	110.8	110.8	120.0	147.7	120.0	147.7	120.0	147.7
54"	81"		67.3	67.3	67.3	67.3	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
60"	90"		62.2	62.2	62.2	62.2	93.3	93.3	120.0	120.0	120.0	120.0	120.0	120.0
66"	99"		58.1	58.1	58.1	58.1	87.1	87.1	116.2	116.2	116.2	116.2	116.2	116.2
72"	108"		54.7	54.7	54.7	54.7	82.1	82.1	109.4	109.4	107.5	107.5	109.4	109.4
78"	117"		52.0	52.0	52.0	52.0	77.9	77.9	103.9	103.9	98.2	98.2	103.9	103.9
36"	54"	76"	88.2	88.2	88.2	88.2	120.0	132.3	120.0	150.0	120.0	150.0	120.0	150.0
42"	63"		77.3	77.3	77.3	77.3	116.0	116.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	72"		69.3	69.3	69.3	69.3	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
54"	81"		63.0	63.0	63.0	63.0	94.6	94.6	120.0	120.0	120.0	120.0	120.0	120.0
60"	90"		58.1	58.1	58.1	58.1	87.2	87.2	116.3	116.3	116.3	116.3	116.3	116.3
66"	99"		54.2	54.2	54.2	54.2	81.3	81.3	108.4	108.4	108.4	108.4	108.4	108.4
72"	108"		50.8	50.8	50.9	50.9	76.4	76.4	101.7	101.7	101.9	101.9	101.9	101.9

WINDOW DIMS.			INTERLOCKS WITHOUT REINFORCING						INTERLOCKS WITH REINFORCING					
WIDTH		HEIGHT	GLASS TYPE 1		GLASS TYPE 4		GLASS TYPES 2, 3 & 5		GLASS TYPE 2		GLASS TYPE 3		GLASS TYPE 5	
2 PANEL	3 PANEL		EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
26−1/2"	39−3/4"	38−3/8"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	55−1/2"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	79−11/16"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
74"	111"		120.0	131.8	120.0	144.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
79−1/2"	119−1/4"		120.0	120.2	120.0	134.1	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
106−1/4"	159−3/8"		80.7	80.7	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
26−1/2"	39−3/4"	50−5/8"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	55−1/2"		120.0	139.0	120.0	139.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	79−11/16"		107.2	107.2	107.2	107.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
74"	111"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
79−1/2"	119−1/4"		83.2	83.2	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
106−1/4"	159−3/8"		66.0	66.0	73.6	73.6	100.0	100.0	120.0	120.0	107.6	107.6	120.0	120.0
26−1/2"	39−3/4"	63"	120.0	142.4	120.0	142.4	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	55−1/2"		107.0	107.0	107.0	107.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	79−11/16"		80.5	80.5	80.5	80.5	120.0	120.8	120.0	150.0	120.0	150.0	120.0	150.0
74"	111"		64.6	64.6	64.6	64.6	96.9	96.9	120.0	120.0	118.3	118.3	120.0	120.0
79−1/2"	119−1/4"		62.1	62.1	62.1	62.1	93.1	93.1	120.0	120.0	110.4	110.4	120.0	120.0
26−1/2"	39−3/4"	72"	120.0	122.8	120.0	122.8	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	55−1/2"		91.6	91.6	91.6	91.6	120.0	137.5	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	79−11/16"		68.2	68.2	68.2	68.2	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
74"	111"		53.7	53.7	53.7	53.7	80.6	80.6	107.5	107.5	103.9	103.9	107.5	107.5
26−1/2"	39−3/4"	76"	115.7	115.7	115.7	115.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	55−1/2"		86.1	86.1	86.1	86.1	120.0	129.2	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	79−11/16"		63.9	63.9	63.9	63.9	95.8	95.8	120.0	120.0	120.0	120.0	120.0	120.0
74"	111"		50.0	50.0	50.0	50.0	75.0	75.0	100.0	100.0	98.8	98.8	100.0	100.0

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



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

GLAZING/REINFORCEMENT PERFORMANCE VALUES EQUAL PANELS

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

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

MAXIMUM VENT SIZE IS 18.7 SQ. FT.
AND MAXIMUM VENT HEIGHT IS 71 11/16"

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Desc.	Series	Scale	Sheet	DWG No.	Drawn By	Date	Rev.
375 ALUM. HORIZONTAL ROLLER WDW. - LMI	DESIGN PRESSURE 1	HR375 "ESTATE"	NTS	5 OF 18	375LMNOA-1	J ROSOWSKI	05/29/20	A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705

WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
WIDTH		HEIGHT	'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
2 PANEL	3 PANEL		EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	54"	36"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42"	63"		150.0	150.0	150.0	150.0	150.0	150.0	118.9	150.0	150.0
48"	72"		150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
54"	81"		143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
60"	90"		129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
66"	99"		117.3	150.0	150.0	97.5	150.0	150.0	75.6	150.0	150.0
72"	108"		117.3	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
78"	117"		99.3	150.0	150.0	82.5	150.0	150.0	64.0	128.0	150.0
84"	126"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	148.6
36"	54"	48"	150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
42"	63"		138.3	150.0	150.0	114.9	150.0	150.0	104.0	150.0	150.0
48"	72"		121.0	150.0	150.0	100.5	150.0	150.0	78.0	150.0	150.0
54"	81"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	136.7	150.0
60"	90"		96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
66"	99"		88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	141.8
72"	108"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
78"	117"		74.5	148.9	150.0	61.8	123.7	150.0	48.0	96.0	120.0
84"	126"		69.1	138.3	150.0	57.4	114.9	143.6	44.6	89.1	111.4
36"	54"	54"	143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
42"	63"		122.9	150.0	150.0	102.1	150.0	150.0	79.2	150.0	150.0
48"	72"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
54"	81"		95.6	150.0	150.0	79.4	150.0	150.0	61.6	123.3	150.0
60"	90"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	135.7
66"	99"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
72"	108"		71.7	150.0	150.0	59.6	119.1	148.9	50.4	92.4	115.6
78"	117"		66.2	132.4	150.0	59.6	109.9	137.4	42.7	85.3	106.7
84"	126"		61.5	122.9	150.0	51.0	102.1	127.6	39.6	79.2	99.0
36"	54"	60"	129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
42"	63"		110.6	150.0	150.0	91.9	150.0	150.0	71.3	142.6	150.0
48"	72"		96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
54"	81"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	138.7
60"	90"		77.4	150.0	150.0	64.3	128.6	150.0	49.9	99.8	124.8
66"	99"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
72"	108"		64.5	129.1	150.0	53.6	107.2	134.0	41.6	83.2	104.0
78"	117"		59.6	119.1	148.9	49.5	99.0	123.7	38.4	76.8	96.0
84"	126"		55.3	110.6	138.3	45.9	91.9	114.9	35.7	71.3	89.1
36"	54"	66"	117.3	150.0	150.0	97.5	150.0	150.0	75.6	150.0	150.0
42"	63"		100.6	150.0	150.0	83.5	150.0	150.0	64.8	129.7	150.0
48"	72"		88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	141.8
54"	81"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
60"	90"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
66"	99"		64.0	128.0	150.0	53.2	106.3	132.9	41.3	82.5	103.1
72"	108"		58.7	117.3	146.7	48.7	97.5	121.8	37.8	75.5	94.5
78"	117"		54.2	108.3	135.4	45.0	90.0	112.4	34.9	69.8	87.3
84"	126"		50.3	100.5	125.7	41.8	83.5	104.4	32.4	64.8	81.0
36"	54"	72"	107.6	150.0	150.0	89.3	83.5	150.0	69.3	138.7	150.0
42"	63"		92.2	150.0	150.0	75.6	150.0	150.0	59.4	118.9	148.6
48"	72"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
54"	81"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
60"	90"		64.5	129.1	150.0	53.6	107.2	134.0	41.6	83.2	104.0
66"	99"		58.7	117.3	146.7	48.7	97.5	121.8	37.8	75.6	94.5
72"	108"		53.8	107.6	134.4	44.7	89.3	111.7	34.7	69.3	86.7
78"	117"		49.6	99.3	124.1	41.2	82.5	103.1	32.0	64.0	80.0
36"	54"	76"	101.9	99.3	150.0	84.6	150.0	150.0	65.7	131.4	150.0
42"	63"		87.3	150.0	150.0	72.5	145.1	150.0	56.3	112.6	140.8
48"	72"		76.4	150.0	150.0	63.5	126.9	150.0	49.3	98.5	123.2
54"	81"		67.9	135.9	150.0	56.4	112.8	141.1	43.8	87.6	109.5
60"	90"		61.1	122.3	150.0	50.8	101.6	126.9	39.4	78.8	98.5
66"	99"		55.8	111.2	138.9	46.2	92.3	115.4	35.8	71.7	89.6
72"	108"		50.9	101.9	127.4	42.3	84.6	105.8	32.8	65.7	82.1

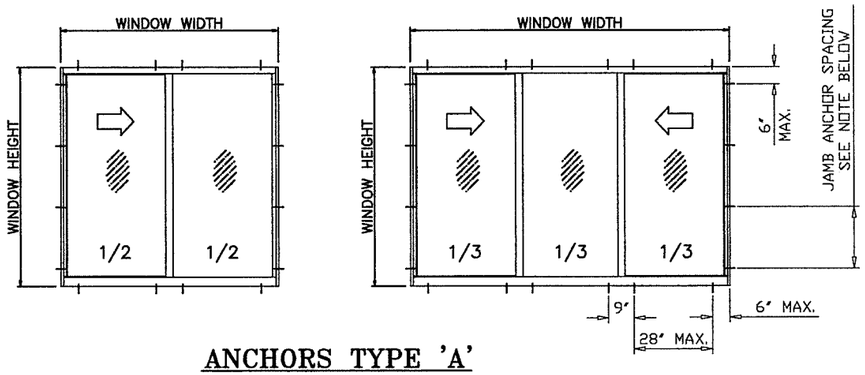
All values shown are Design PSF (Pounds per Square Foot)

ANCHOR CAPACITY EQUAL PANELS

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control

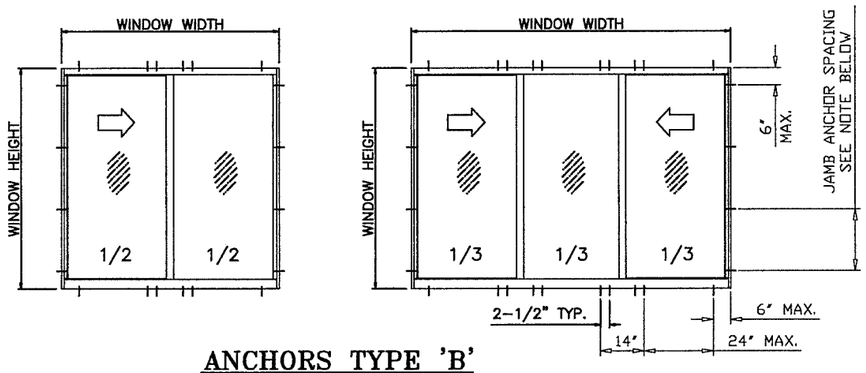
JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER THAN 1/4" TO 1/2".

ALL VALUES SHOWN ARE DESIGN PSF VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL WITH WATERBAR ADAPTER. FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 80.0 PSF



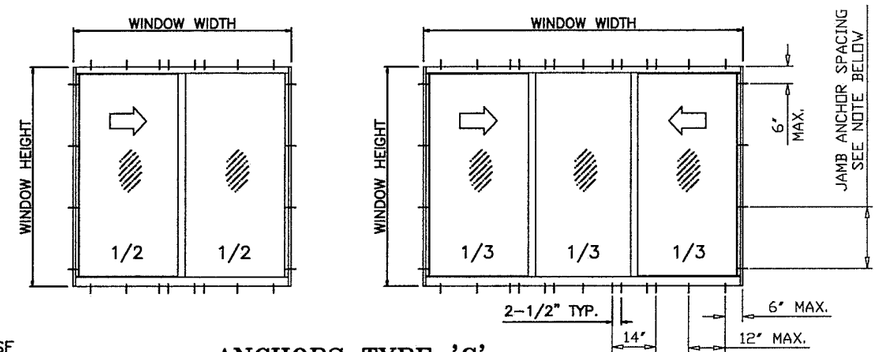
ANCHORS TYPE 'A'

2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF



ANCHORS TYPE 'B'

4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'

4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Desc.	Series
375 ALUM. HORIZONTAL ROLLER WDW. - LMI	DESIGN PRESSURE 2	HR375 "ESTATE"

Date	Drawn By	DWG No.	Sheet	Scale	Rev.
05/29/20	J ROSOWSKI	375LMNOA-1	6 OF 18	NTS	A

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20

A. LYNN MILLER, P.E.
P.E.# 58705

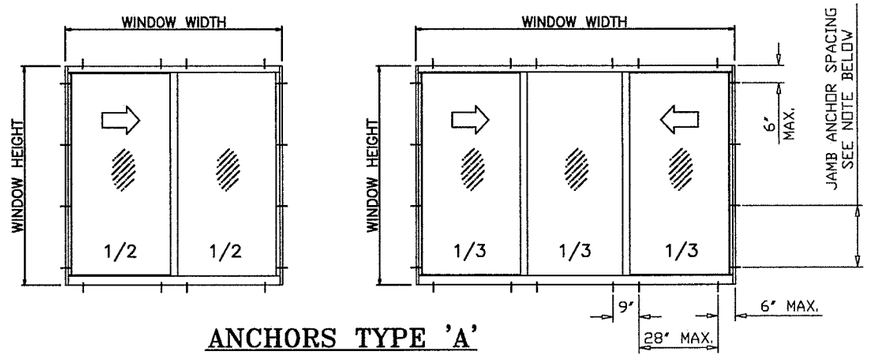
WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
			'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
WIDTH		HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
2 PANEL	3 PANEL										
26–1/2"	39–3/4"	38–3/8"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
37"	55–1/2"		150.0	150.0	150.0	150.0	150.0	150.0	126.6	150.0	150.0
53–1/8"	79–11/16"		136.7	150.0	150.0	113.6	150.0	150.0	88.1	150.0	150.0
74"	111"		98.2	150.0	150.0	81.5	150.0	150.0	63.3	126.6	150.0
79–1/2"	119–1/4"		91.2	150.0	150.0	75.7	150.0	150.0	58.8	117.8	147.3
106–1/4"	159–3/8"			136.7	150.0	56.8	150.0	142.0	44.1	88.2	110.2
26–1/2"	39–3/4"	50–5/8"	150.0	150.0	150.0	150.0	150.0	150.0	131.5	150.0	150.0
37"	55–1/2"		148.8	150.0	150.0	123.6	150.0	150.0	95.9	150.0	150.0
53–1/8"	79–11/16"		103.7	150.0	150.0	86.1	150.0	150.0	66.8	133.6	150.0
74"	111"		74.4	148.8	150.0	61.8	123.6	150.0	48.0	95.9	119.9
79–1/2"	119–1/4"		69.1	138.5	150.0	57.4	115.1	143.8	44.6	89.3	111.6
106–1/4"	159–3/8"		51.8	103.7	129.6	43.0	86.1	107.6	33.4	66.8	83.5
26–1/2"	39–3/4"	63"	150.0	150.0	150.0	136.1	150.0	150.0	105.7	150.0	150.0
37"	55–1/2"		119.6	150.0	150.0	99.3	150.0	150.0	77.1	150.0	150.0
53–1/8"	79–11/16"		83.3	150.0	150.0	69.2	138.4	150.0	53.7	107.4	134.2
74"	111"		59.6	119.5	149.5	49.7	99.3	124.2	38.5	107.4	96.4
79–1/2"	119–1/4"		55.5	111.3	139.2	46.1	92.5	115.6	35.8	71.8	89.7
26–1/2"	39–3/4"	72"	143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
37"	55–1/2"		104.8	150.0	150.0	86.9	150.0	150.0	67.5	134.9	150.0
53–1/8"	79–11/16"		72.9	145.8	150.0	60.5	121.1	150.0	47.0	94.0	117.5
74"	111"		52.3	104.6	130.8	43.5	86.9	108.6	33.7	67.5	84.3
26–1/2"	39–3/4"	78"	135.0	150.0	150.0	112.8	150.0	150.0	87.6	150.0	150.0
37"	55–1/2"		99.1	150.0	150.0	82.3	150.0	150.0	63.9	127.8	150.0
53–1/8"	79–11/16"		69.0	138.1	150.0	57.3	114.7	143.4	44.5	89.0	111.3
74"	111"		49.6	99.1	123.9	41.2	82.3	102.9	32.0	63.0	79.9

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

JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER THAN 1/4" TO 1/2".

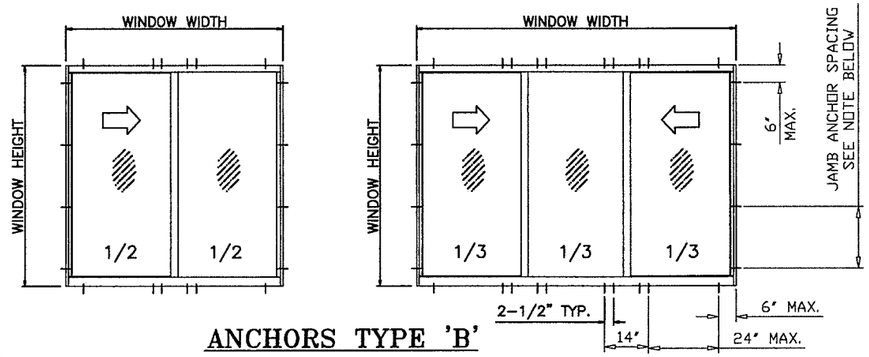
ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL WITH WATERBAR ADAPTER. FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 80.0 PSF

ANCHOR CAPACITY EQUAL PANELS



ANCHORS TYPE 'A'

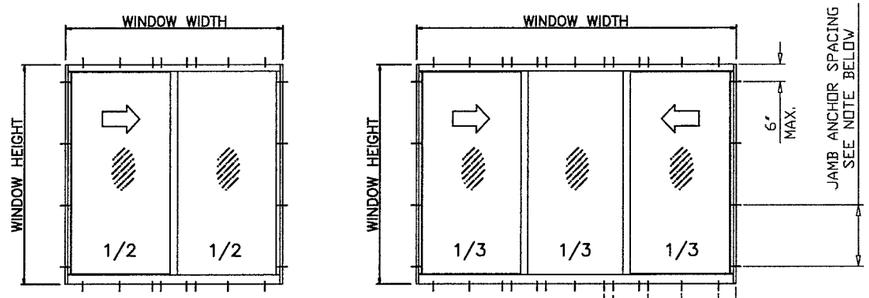
2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF



ANCHORS TYPE 'B'

4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control



ANCHORS TYPE 'C'

4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Date 05/29/20
Drawn By J ROSOWSKI
DWG No. 375LMNOA-1
Rev. A

Impact Resistant Windows & Doors
WE'RE STRONGER™

CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title 375 ALUM. HORIZONTAL ROLLER WDW. - LMI
Desc. DESIGN PRESSURE 3
Series HR375 "ESTATE"
Scale NTS
Sheet 7 OF 18

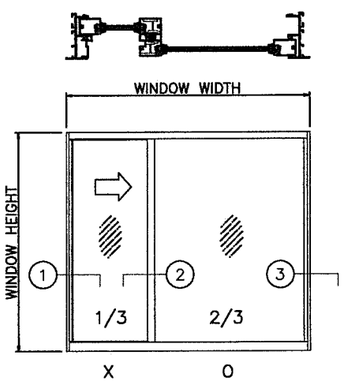
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/5/20

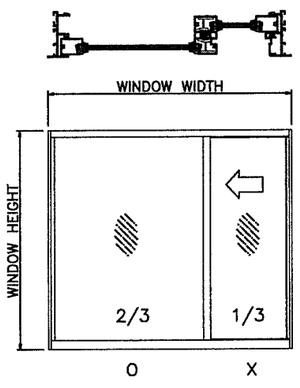
A. LYNN MILLER, P.E.
P.E.# 58705

WINDOW DIMS.			INTERLOCKS WITHOUT REINFORCING						INTERLOCKS WITH REINFORCING					
WIDTH		HEIGHT	GLASS TYPE 1		GLASS TYPE 4		GLASS TYPES 2, 3 & 5		GLASS TYPE 2		GLASS TYPE 3		GLASS TYPE 5	
2 PANEL	3 PANEL		EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
36"	48"	36"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	56"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	64"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54"	72"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
60"	80"		120.0	135.3	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
66"	88"		118.4	118.4	120.0	132.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
72"	96"		104.5	104.5	116.6	116.6	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
78"	104"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
84"	112"		83.8	83.8	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
96"	128"		71.9	71.9	80.2	80.2	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
108"	144"		61.5	61.5	68.6	68.6	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
36"	48"	48"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	56"		120.0	130.6	120.0	139.4	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	64"		116.1	116.1	120.0	127.9	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54"	72"		105.6	105.6	117.7	117.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
60"	80"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
66"	88"		83.9	83.9	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
72"	96"		77.6	77.6	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
78"	104"		72.4	72.4	80.8	80.8	100.0	100.0	120.0	120.0	118.4	118.4	120.0	120.0
84"	112"		67.5	67.5	75.3	75.3	100.0	100.0	120.0	120.0	110.4	110.4	120.0	120.0
36"	48"	54"	120.0	134.3	120.0	134.3	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	56"		111.5	111.5	119.7	119.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	64"		97.5	97.5	108.7	108.7	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54"	72"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
60"	80"		80.1	80.1	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
66"	88"		74.7	74.7	83.3	83.3	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
72"	96"		70.0	70.0	78.1	78.1	100.0	100.0	120.0	120.0	114.5	114.5	120.0	120.0
78"	104"		65.6	65.6	73.2	73.2	100.0	100.0	120.0	120.0	107.9	107.9	120.0	120.0
36"	48"	60"	118.2	118.2	118.2	118.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	56"		98.7	98.7	104.8	104.8	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48"	64"		84.0	84.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
54"	72"		76.9	76.9	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
60"	80"		70.5	70.5	78.6	78.6	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
66"	88"		66.4	66.4	74.1	74.1	100.0	100.0	120.0	120.0	110.6	110.6	120.0	120.0
36"	48"	66"	105.5	105.5	105.5	105.5	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	56"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
48"	64"		77.5	77.5	84.2	84.2	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
54"	72"		68.3	68.3	76.2	76.2	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
60"	80"		62.3	62.3	69.5	69.5	100.0	100.0	120.0	120.0	110.2	110.2	120.0	120.0
36"	48"	72"	95.3	95.3	95.3	95.3	120.0	143.0	120.0	150.0	120.0	150.0	120.0	150.0
42"	56"		80.1	80.1	84.0	84.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
48"	64"		69.4	69.4	75.6	75.6	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
54"	72"		60.8	60.8	67.8	67.8	100.0	100.0	120.0	120.0	116.7	116.7	120.0	120.0
36"	48"	76"	85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
42"	56"		78.7	78.7	78.7	78.7	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
48"	64"		65.0	65.0	70.7	70.7	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
54"	72"		56.6	56.6	63.1	63.1	96.9	96.9	113.1	113.1	112.0	112.0	120.0	120.0

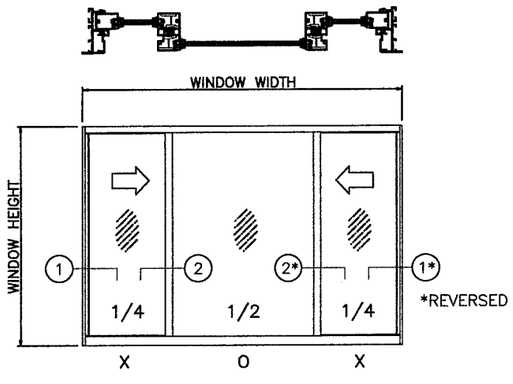
All values shown are Design PSF (Pounds per Square Foot)

WINDOW DIMS.			INTERLOCKS WITHOUT REINFORCING						INTERLOCKS WITH REINFORCING					
WIDTH		HEIGHT	GLASS TYPE 1		GLASS TYPE 4		GLASS TYPES 2, 3 & 5		GLASS TYPE 2		GLASS TYPE 3		GLASS TYPE 5	
2 PANEL	3 PANEL		EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
26−1/2"	35−5/16"	38−3/8"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	49−5/16"		120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	71"		120.0	147.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
74"	99"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
79−1/2"	106"		84.6	84.6	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
106−1/4"	142"		58.8	58.8	65.5	65.5	100.0	100.0	117.5	117.5	111.0	111.0	120.0	120.0
26−1/2"	35−5/16"	50−5/8"	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	49−5/16"		120.0	142.5	120.0	142.5	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	71"		98.8	98.8	110.2	110.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
74"	99"		72.0	72.0	80.3	80.3	100.0	100.0	120.0	120.0	119.0	119.0	120.0	120.0
79−1/2"	106"		68.2	68.2	76.1	76.1	100.0	100.0	120.0	120.0	111.7	111.7	120.0	120.0
26−1/2"	35−5/16"	63"	120.0	144.3	120.0	144.3	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	49−5/16"		109.1	109.1	109.1	109.1	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	71"		73.4	73.4	81.9	81.9	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
26−1/2"	35−5/16"	72"	120.0	124.2	120.0	124.2	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	49−5/16"		93.2	93.2	93.2	93.2	120.0	139.7	120.0	150.0	120.0	150.0	120.0	150.0
53−1/8"	71"		61.6	61.6	68.7	68.7	100.0	100.0	120.0	120.0	119.4	119.4	120.0	120.0
26−1/2"	35−5/16"	76"	117.0	117.0	117.0	117.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
37"	49−5/16"		85.0	85.0	85.0	85.0	100.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0
53−1/8"	71"		57.4	57.4	64.0	64.0	97.9	97.9	114.7	114.7	114.7	114.7	120.0	120.0





PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
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

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

MAXIMUM VENT SIZE IS 18.7 SQ. FT. AND MAXIMUM VENT HEIGHT IS 71 11/16"

GLAZING/REINFORCEMENT PERFORMANCE VALUES UNEQUAL PANELS

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title: 375 ALUM. HORIZONTAL ROLLER WDW. - LMI
Desc.: DESIGN PRESSURE 4
Date: 05/29/20
Drawn By: J ROSOWSKI
DWG No.: 375LMNOA-1
Rev.: A
Series: HR375 "ESTATE"
Scale: NTS
Sheet: 8 OF 18

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705

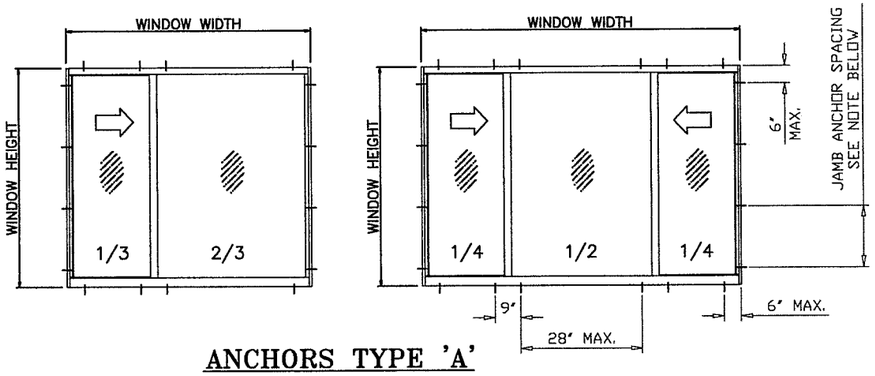
WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
WIDTH		HEIGHT	'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
2 PANEL	3 PANEL		EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)
36"	48"	36"	150.0	150.0	150.0	150.0	150.0	150.0	138.7	150.0	150.0
42"	56"		150.0	150.0	150.0	150.0	150.0	150.0	118.9	150.0	150.0
48"	64"		150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
54"	72"		143.4	150.0	150.0	119.1	150.0	150.0	92.4	150.0	150.0
60"	80"		129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
66"	88"		117.3	150.0	150.0	57.5	150.0	150.0	75.6	150.0	150.0
72"	96"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	136.7	150.0
78"	104"		99.3	150.0	150.0	82.5	150.0	150.0	64.0	128.0	150.0
84"	112"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	148.6
96"	128"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
108"	144"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
36"	48"	48"	150.0	150.0	150.0	134.0	150.0	150.0	104.0	150.0	150.0
42"	56"		138.3	150.0	150.0	114.9	150.0	150.0	69.1	150.0	150.0
48"	64"		121.0	150.0	150.0	100.5	150.0	150.0	78.0	150.0	150.0
54"	72"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
60"	80"		96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
66"	88"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
72"	96"		74.5	148.9	150.0	61.8	123.7	150.0	48.0	96.0	120.0
78"	104"		69.1	138.3	150.0	57.4	114.9	143.6	44.6	89.1	111.4
36"	48"	54"	143.4	150.0	150.0	119.1	150.0	150.0	44.6	150.0	150.0
42"	56"		122.9	150.0	150.0	102.1	150.0	150.0	79.2	150.0	150.0
48"	64"		107.6	150.0	150.0	89.3	150.0	150.0	69.3	150.0	150.0
54"	72"		95.6	150.0	150.0	79.4	150.0	150.0	61.6	123.3	150.0
60"	80"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	138.7
66"	88"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
72"	96"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
78"	104"		66.2	132.4	150.0	55.0	109.9	137.4	42.7	85.3	106.7
36"	48"	60"	129.1	150.0	150.0	107.2	150.0	150.0	83.2	150.0	150.0
42"	56"		110.6	150.0	150.0	91.9	150.0	150.0	71.3	142.6	150.0
48"	64"		95.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
54"	72"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	138.7
60"	80"		77.4	150.0	150.0	64.3	128.6	150.0	49.9	99.8	124.8
66"	88"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
36"	48"	66"	117.3	150.0	150.0	97.5	150.0	150.0	75.6	150.0	150.0
42"	56"		100.6	150.0	150.0	83.5	150.0	150.0	64.8	129.7	150.0
48"	64"		88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	141.8
54"	72"		78.2	150.0	150.0	65.0	129.9	150.0	50.4	100.8	126.1
60"	80"		70.4	140.8	150.0	58.5	116.9	146.2	45.4	90.8	113.5
36"	48"	72"	107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
42"	56"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	148.6
48"	64"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	130.0
54"	72"		71.7	143.4	150.0	59.6	119.1	148.9	46.2	92.4	115.6
36"	48"	76"	101.9	150.0	150.0	84.6	150.0	150.0	65.7	131.4	150.0
42"	56"		87.3	150.0	150.0	72.5	145.1	150.0	56.3	112.6	140.8
48"	64"		76.4	150.0	150.0	53.5	126.9	150.0	49.3	96.5	123.2
54"	72"		67.9	135.9	150.0	56.4	112.8	141.1	43.8	87.6	109.5

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

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 80.0 PSF

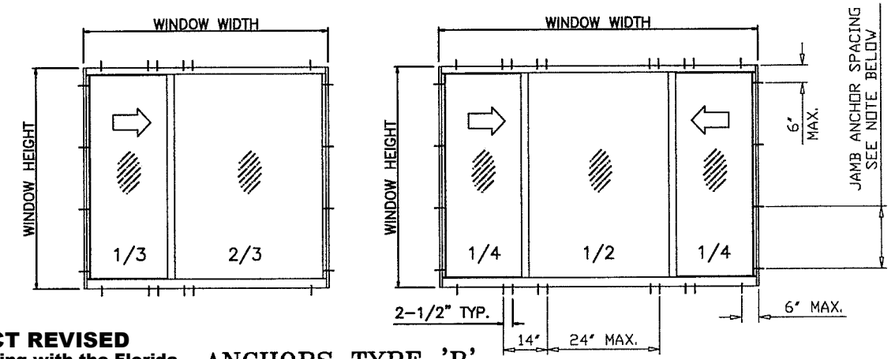
JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER THAN 1/4" TO 1/2".

ANCHOR CAPACITY UNEQUAL PANELS



ANCHORS TYPE 'A'

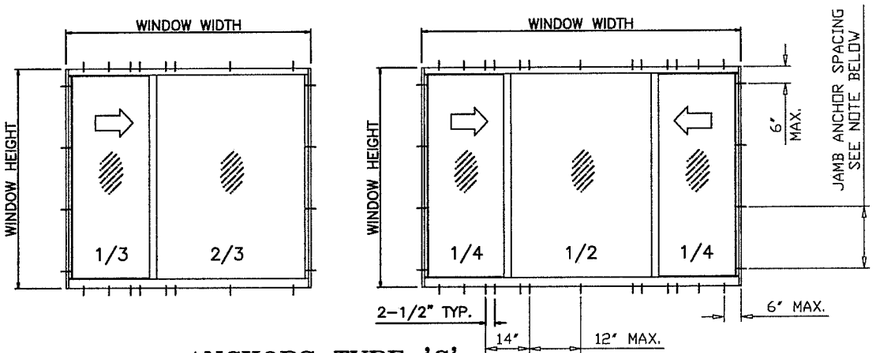
2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

ANCHORS TYPE 'B'

4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'

4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Date 05/29/20
Drawn By J ROSOWSKI
DWG No. 375LMNOA-1
Rev. A
Sheet 9 OF 18
Scale NTS
Series HR375 "ESTATE"
Desc. DESIGN PRESSURE 5
Title 375 ALUM. HORIZONTAL ROLLER WDW. - LMI

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705

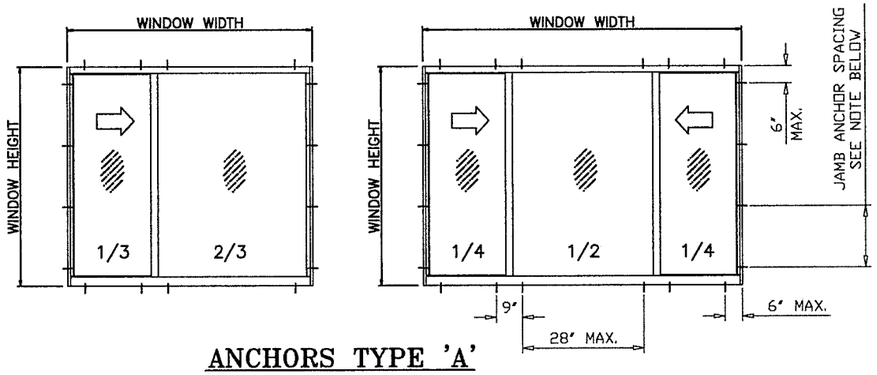
WINDOW DIMS.			1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
			ANCHORS TYPE:			ANCHORS TYPE:			ANCHORS TYPE:		
			'A'	'B'	'C'	'A'	'B'	'C'	'A'	'B'	'C'
WIDTH		HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
2 PANEL	3 PANEL										
26–1/2"	35–5/16"	38–3/8"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
37"	49–5/16		150.0	150.0	150.0	150.0	150.0	150.0	126.6	150.0	150.0
53–1/8"	71"		136.4	150.0	150.0	113.3	150.0	150.0	87.9	150.0	150.0
74"	99"		97.8	150.0	150.0	81.3	150.0	150.0	63.1	126.1	150.0
79–1/2"	106"		97.8	150.0	150.0	75.9	150.0	150.0	58.9	117.8	147.3
106–1/4"	142"		68.2	136.4	150.0	56.7	113.3	141.6	44.0	87.9	109.9
26–1/2"	35–5/16"	50–5/8"	150.0	150.0	150.0	150.0	150.0	150.0	134.0	150.0	150.0
37"	49–5/16		148.8	150.0	150.0	123.6	150.0	150.0	96.0	150.0	150.0
53–1/8"	71"		103.4	150.0	150.0	85.9	150.0	150.0	66.7	133.3	150.0
74"	99"		74.2	148.3	150.0	61.8	150.0	150.0	47.8	95.6	119.5
79–1/2"	106"		69.3	138.5	150.0	57.5	115.1	143.8	44.7	89.3	111.0
26–1/2"	35–5/16"	63"	150.0	150.0	150.0	138.7	150.0	150.0	107.7	150.0	150.0
37"	49–5/16		150.0	150.0	150.0	99.3	150.0	150.0	77.1	150.0	150.0
53–1/8"	71"		63.1	150.0	150.0	69.0	138.0	150.0	53.6	107.1	133.9
26–1/2"	35–5/16"	72"	146.1	150.0	150.0	121.4	150.0	150.0	94.2	150.0	150.0
37"	49–5/16		104.6	150.0	150.0	86.9	150.0	150.0	67.5	134.9	150.0
53–1/8"	71"		104.6	145.4	150.0	60.4	120.8	150.0	46.9	93.7	117.2
26–1/2"	35–5/16"	78"	138.4	150.0	150.0	115.0	150.0	150.0	89.3	150.0	150.0
37"	49–5/16		99.1	150.0	150.0	82.3	150.0	150.0	63.9	127.8	159.8
53–1/8"	71"		68.9	137.8	150.0	57.2	114.4	143.0	44.4	88.8	111.0

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

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 80.0 PSF

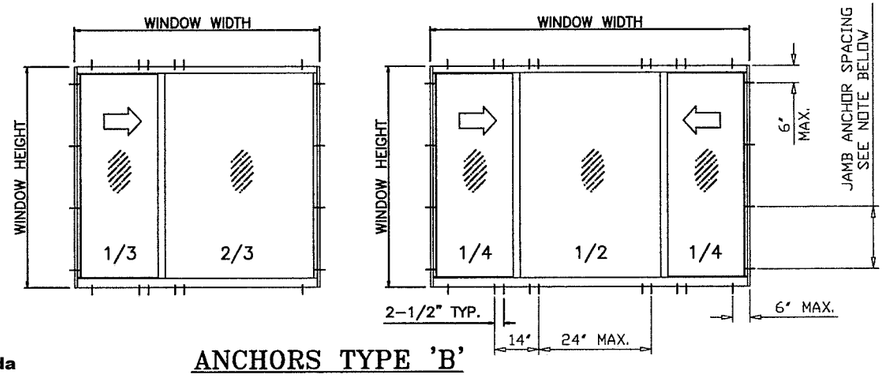
JAMB ANCHOR SPACING
20" MAX. FOR SHIMS UP TO 1/4".
10" MAX. FOR SHIMS GREATER THAN 1/4" TO 1/2".

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control



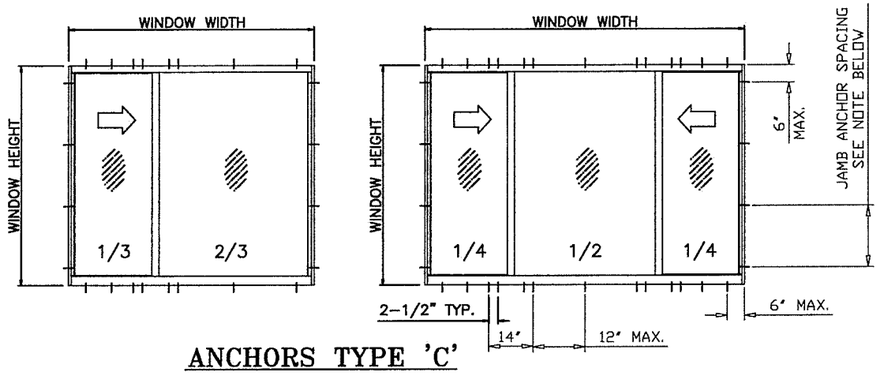
ANCHORS TYPE 'A'

2 ANCHORS AT MTG. STILE ENDS
28" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 55 PSF



ANCHORS TYPE 'B'

4 ANCHORS AT MTG. STILE ENDS
24" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 100 PSF



ANCHORS TYPE 'C'

4 ANCHORS AT MTG. STILE ENDS
12" MAX. SPACING BETWEEN ANCHORS
LIMIT MAX. DESIGN LOADS TO 150 PSF

ANCHOR CAPACITY UNEQUAL PANELS

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

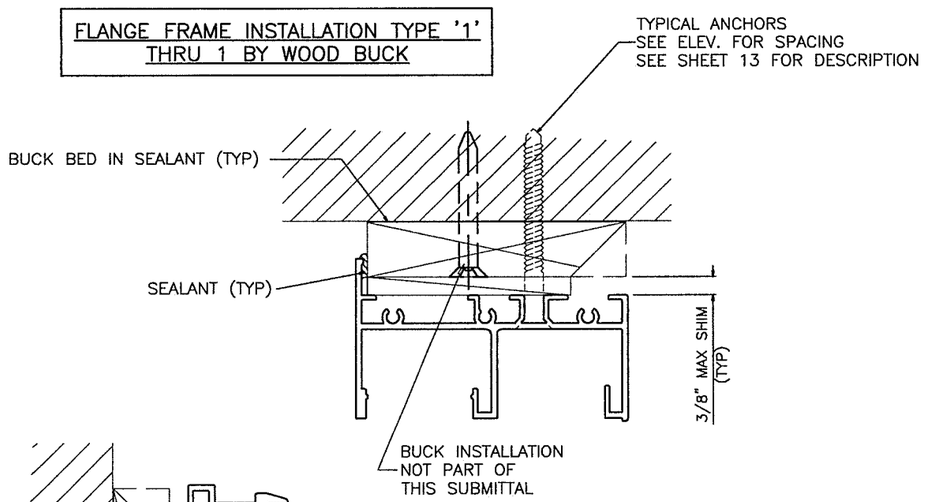
Date	05/29/20
Drawn By	J ROSOWSKI
DWG No.	375LMNOA-1
Rev.	A
Sheet	10 OF 18
Scale	NTS
Series	HR375 "ESTATE"
Desc.	DESIGN PRESSURE 6
Title	375 ALUM. HORIZONTAL ROLLER WDW. - LMI

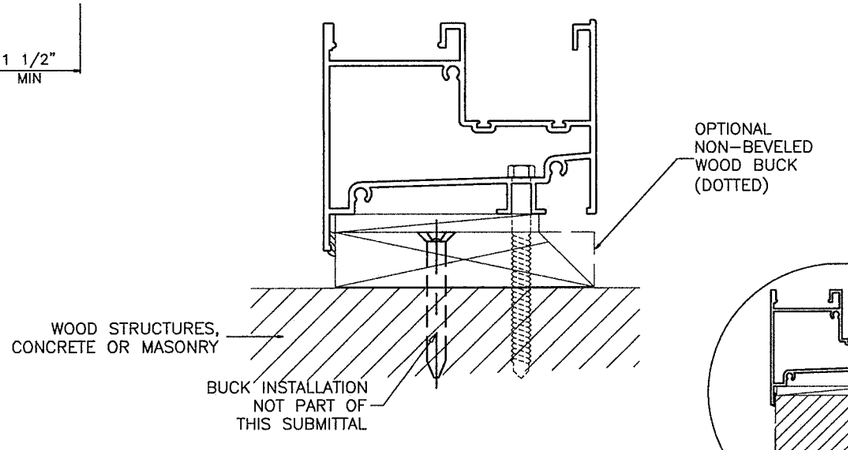
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20

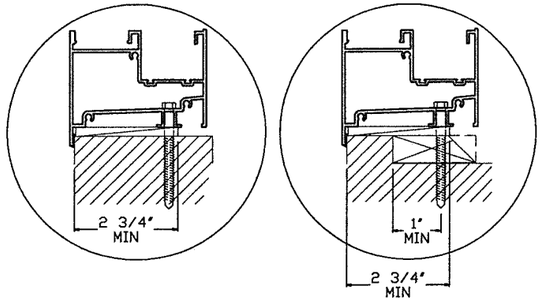
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION CONDITIONS FLANGE FRAME

FLANGE FRAME INSTALLATION TYPE '1' THRU 1 BY WOOD BUCK



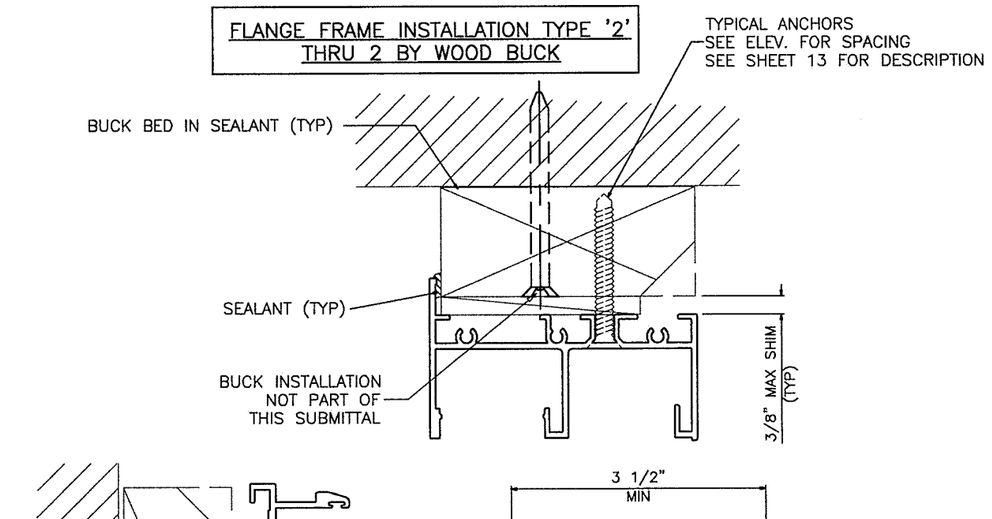


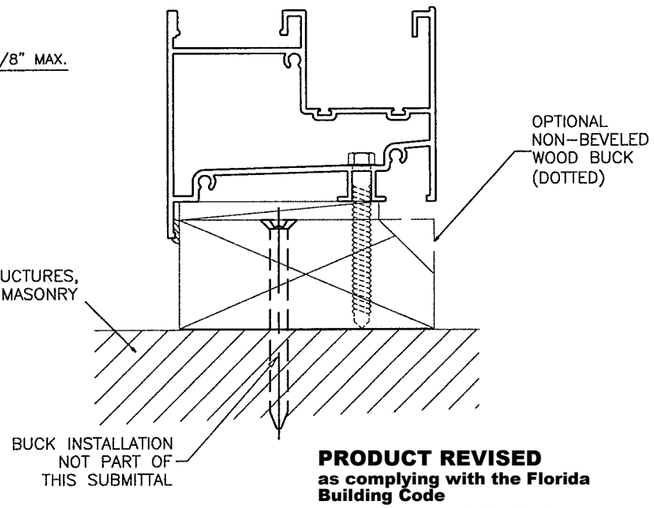


Optional Pre–Cast Sill

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

FLANGE FRAME INSTALLATION TYPE '2' THRU 2 BY WOOD BUCK





PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors WERE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

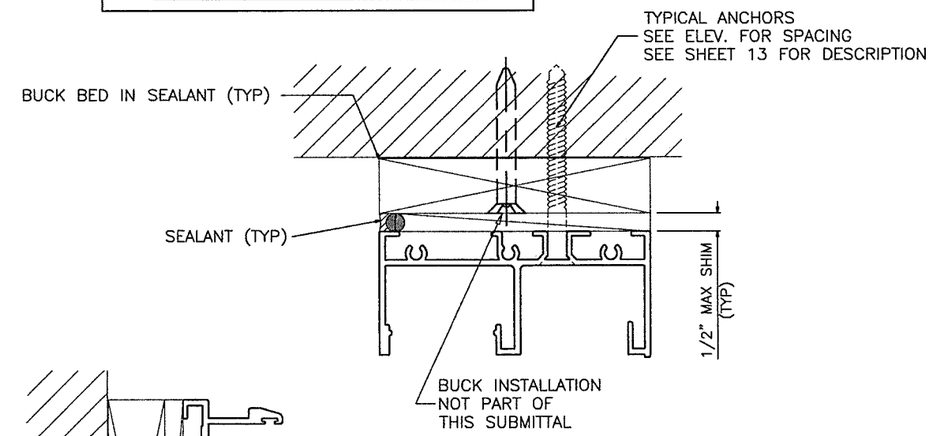
Date	05/29/20
Drawn By	J ROSOWSKI
Rev.	A
DWG No.	375LMNOA-1
Sheet	11 OF 18
Scale	NTS
Series	HR375 "ESTATE"
Desc.	FLANGE INSTALLATION
Title	375 ALUM. HORIZONTAL ROLLER WDW. - LMI

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/3/20

A. LYNN MILLER, P.E.
P.E.# 58705

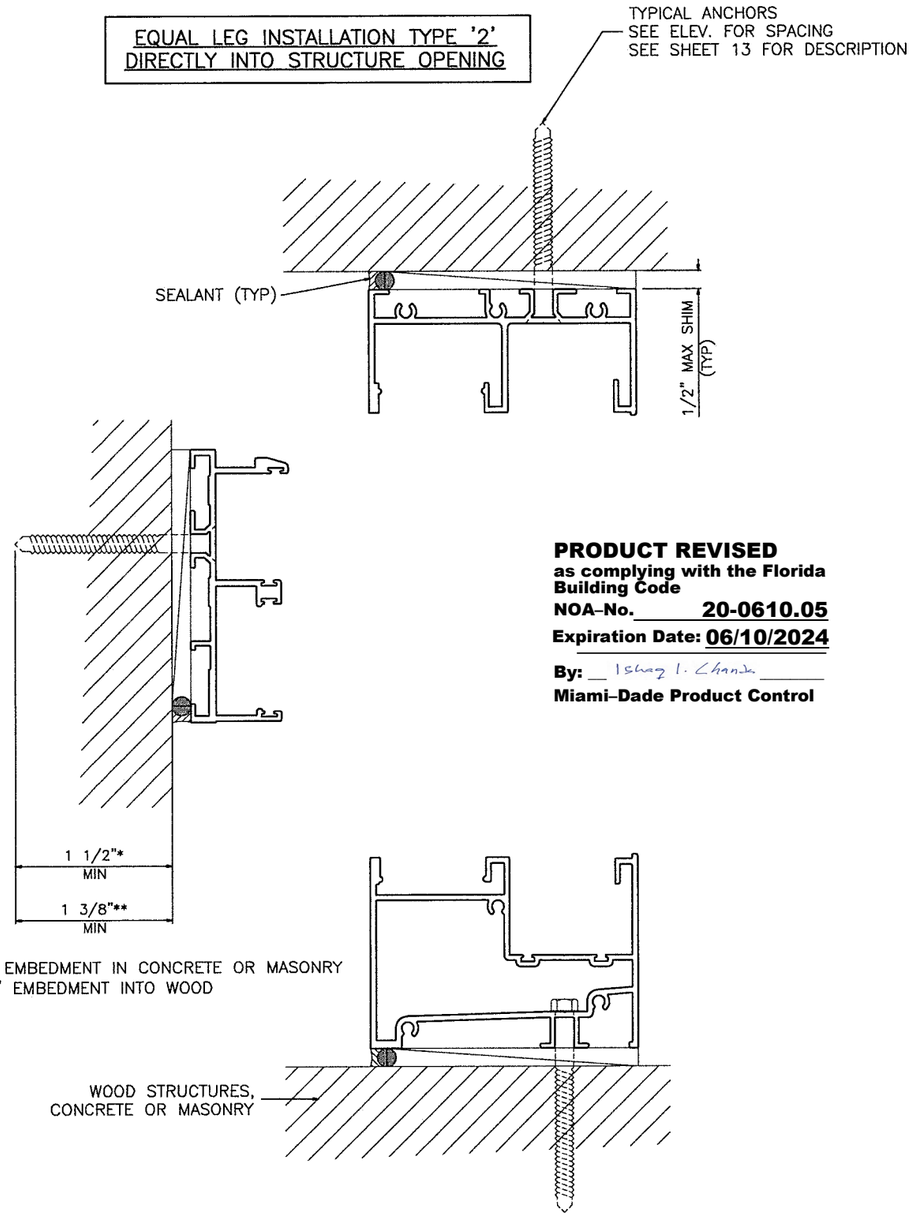
INSTALLATION CONDITIONS EQUAL LEG FRAME

EQUAL LEG INSTALLATION TYPE '1' THRU 1 OR 2 BY WOOD BUCK



*1 1/2" EMBEDMENT IN CONCRETE OR MASONRY
**1 3/8" EMBEDMENT INTO WOOD

EQUAL LEG INSTALLATION TYPE '2' DIRECTLY INTO STRUCTURE OPENING



*1 1/2" EMBEDMENT IN CONCRETE OR MASONRY
**1 3/8" EMBEDMENT INTO WOOD

PRODUCT REVISED
as complying with the Florida Building Code
NOA No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

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

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

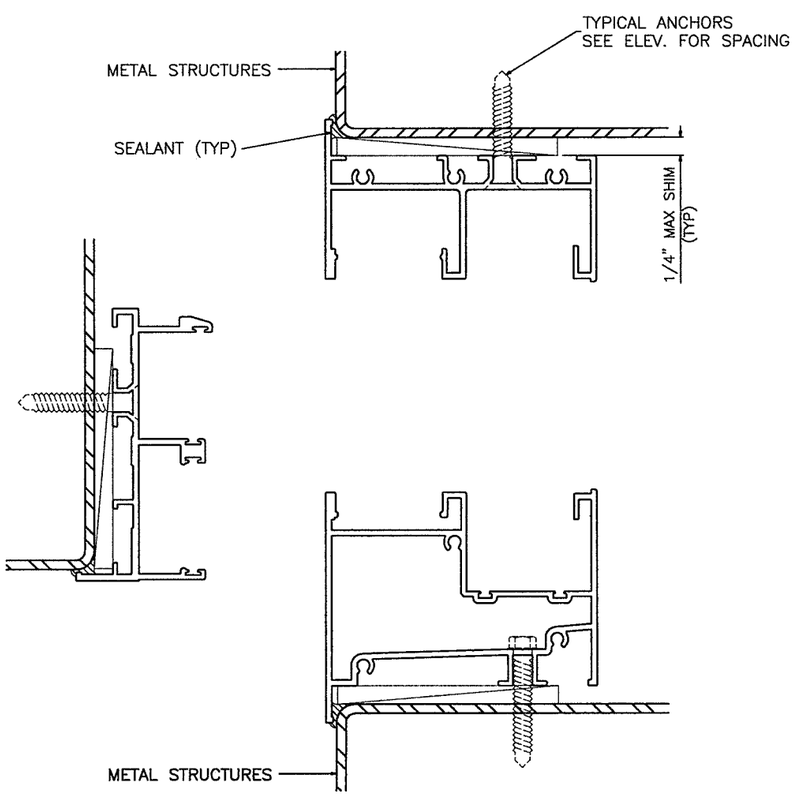
Date	05/29/20
Drawn By	J ROSOWSKI
Rev.	A
DWG No.	375LMNOA-1
Sheet	12 OF 18
Scale	NTS
Series	HR375 "ESTATE"
Desc.	EQUAL LEG INSTALLATION
Title	375 ALUM. HORIZONTAL ROLLER WDW. - LMI

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20

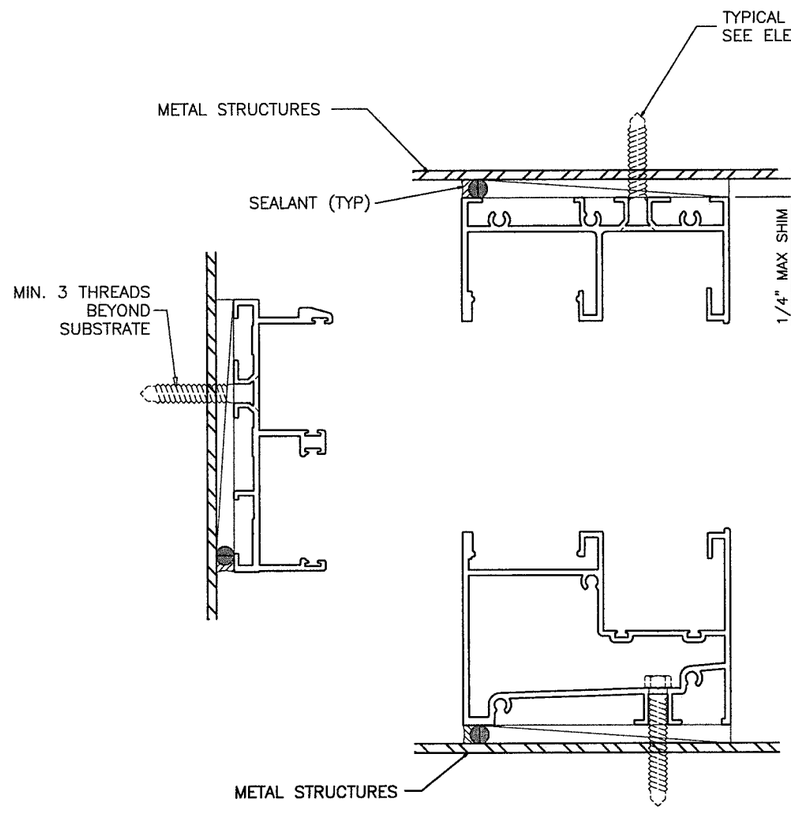
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION CONDITIONS METAL STRUCTURES

FLANGE FRAME INSTALLATION



EQUAL LEG FRAME INSTALLATION



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 CONCRETE (HEAD/SILL)
1–1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY
1–1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1–1/2" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063–T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
(NOT APPLICABLE FOR SHIM THICKNESSES OVER 1/4".)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–3/8" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1–1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY
1" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1–1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

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.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control

Revision: ADDED ANCHOR TYPE - JR - 5/29/20

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Desc.	Series
375 ALUM. HORIZONTAL ROLLER WDW. - LMI	INSTALLATION INTO METAL	HR375 "ESTATE"

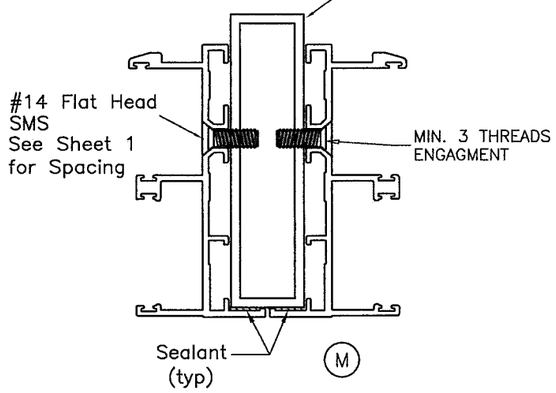
Date	Drawn By	Rev.	Scale	Sheet
05/29/20	J ROSOWSKI	A	NTS	13 OF 18

DWG No.
375LMNOA-1

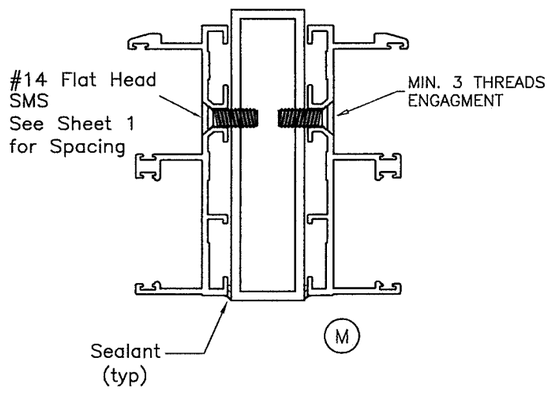
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/3/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

MULLION PERFORMANCE

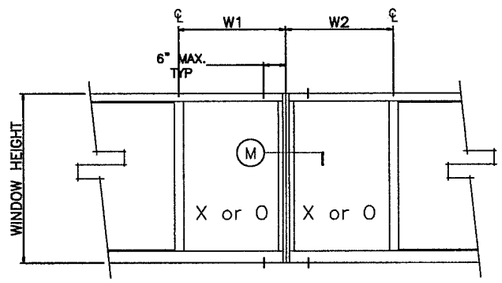
MULLION AT FLANGE WINDOWS
1" x 4" x 1/8" thk. Aluminum Tube Mullion (6063–T6)
(unclipped at ends)
(Mull length = Wdw Height – 1")



MULLION AT FLANGE WINDOWS
1" x 4" x 1/8" thk. Aluminum Tube Mullion (6063–T6)
(unclipped at ends)
(Mull length = Wdw Height – 1")

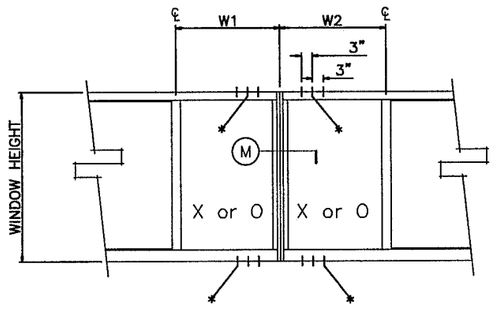


STANDARD INSTALLATION



MULTIPLE OPENING
(2 OR MORE WINDOWS)
w/ 1 SCREW ON EACH SIDE OF MULLION

HIGH LOAD INSTALLATION



MULTIPLE OPENING
(2 OR MORE WINDOWS)
w/ 2 OR 3 SCREWS ON EACH SIDE OF MULLION
(* = ADDITIONAL HOLES TO BE DRILLED BY INSTALLER)

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

MULLION DESIGN LOAD CAPACITY – PSF		
TRIBUTARY WIDTH	WINDOW HEIGHT	EXT.(+) INT.(–)
24"	54"	150.0
28"		150.0
30"		150.0
32"		150.0
36"		120.0
39"		120.0
40"		120.0
42"		120.0
44"		120.0
46"		120.0
48"		120.0
52"		120.0
24"	60"	150.0
28"		150.0
30"		150.0
32"		120.0
36"		120.0
39"		120.0
40"		120.0
42"		120.0
44"		120.0
46"		120.0
24"	66"	150.0
28"		120.0
30"		120.0
32"		120.0
36"		120.0
39"		120.0
40"		120.0
42"		120.0

MULLION DESIGN LOAD CAPACITY – PSF		
TRIBUTARY WIDTH	WINDOW HEIGHT	EXT.(+) INT.(–)
24"	72"	150.0
28"		120.0
30"		120.0
32"		120.0
36"		120.0
39"		120.0
24"	76"	120.0
28"		120.0
30"		120.0
32"		120.0
36"		120.0
37"		120.0

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

MULLION DESIGN LOAD CAPACITY – PSF		
TRIBUTARY WIDTH	WINDOW HEIGHT	EXT.(+) INT.(–)
18"	38–3/8"	150.0
26–1/2"		150.0
37"		150.0
44"		150.0
56"		120.0
71"		120.0
18"	50–5/8"	150.0
26–1/2"		150.0
37"		120.0
44"		120.0
55"		120.0
18"	63"	150.0
26–1/2"		150.0
37"		120.0
44"		120.0
18"	72"	150.0
26–1/2"		120.0
37"		120.0
39"		120.0
18"	76"	150.0
26–1/2"		120.0
37"		120.0

NOTE:
VALUES FROM CHARTS MAY BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 80.0 PSF

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Desc.	Series
375 ALUM. HORIZONTAL ROLLER WDW. - LMI	MULLION DP 1	HR375 "ESTATE"

Date	Drawn By	DWG No.	Sheet	Scale	Rev.
05/29/20	J ROSOWSKI	375LMNOA-1	14 OF 18	NTS	A

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20

A. LYNN MILLER, P.E.
P.E.# 58705

PERFORMANCE VALUES OF UNCLIPPED MULLION ANCHORS

EXT.(+) & INT.(−)

		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
TRIBUTARY WIDTH	WINDOW HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
24"	54"	107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
28"		92.2	150.0	150.0	76.6	150.0	150.0	59.4	118.9	150.0
30"		86.0	150.0	150.0	71.5	142.9	150.0	55.5	110.9	150.0
32"		80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	150.0
36"		71.7	143.4	150.0	59.6	119.1	150.0	46.2	92.4	138.7
48"		53.8	107.6	150.0	44.7	89.3	134.0	34.7	69.3	104.0
52"		49.6	99.3	148.9	41.2	82.5	123.7	32.0	64.0	96.0
24"	60"	96.8	150.0	150.0	80.4	150.0	150.0	62.4	124.8	150.0
28"		83.0	150.0	150.0	68.9	137.8	150.0	53.5	107.0	150.0
30"		77.4	150.0	150.0	64.3	128.6	150.0	49.1	99.8	149.8
32"		72.6	145.2	150.0	60.3	120.6	150.0	46.8	93.6	140.4
36"		64.5	129.1	150.0	53.6	107.2	150.0	41.6	83.2	124.8
48"		58.1	116.2	150.0	48.2	96.5	144.7	37.4	74.9	112.3
52"		52.8	105.6	150.0	43.9	87.7	131.6	34.0	68.1	102.1
24"	66"	88.0	150.0	150.0	73.1	146.2	150.0	56.7	113.5	150.0
28"		75.4	150.0	150.0	62.6	125.3	150.0	48.6	97.2	145.9
30"		70.4	140.8	150.0	58.5	116.9	150.0	45.4	90.8	136.1
32"		66.0	132.0	150.0	54.8	109.6	150.0	42.5	85.1	127.6
36"		58.7	117.3	150.0	48.7	97.5	146.2	37.8	75.6	113.5
48"		52.8	105.6	150.0	43.9	87.7	131.6	34.0	68.1	102.1
24"	72"	80.7	150.0	150.0	67.0	134.0	150.0	52.0	104.0	150.0
28"		69.1	138.3	150.0	57.4	114.9	150.0	44.6	89.1	133.7
30"		64.5	129.1	150.0	53.6	107.2	150.0	41.6	83.2	124.8
32"		60.5	121.0	150.0	50.3	100.5	150.0	39.0	78.0	117.0
36"		53.8	107.6	150.0	44.7	89.3	134.0	34.7	69.3	104.0
24"	76"	76.4	150.0	150.0	63.5	126.9	150.0	49.3	98.5	147.8
28"		65.5	131.0	150.0	54.4	108.8	150.0	42.2	84.5	126.7
30"		61.1	122.3	150.0	50.8	101.6	150.0	39.4	78.8	118.2
32"		57.3	114.6	150.0	47.6	95.2	142.8	36.8	73.9	110.8
36"		50.9	101.9	150.0	42.3	84.6	126.9	32.8	65.7	98.5

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

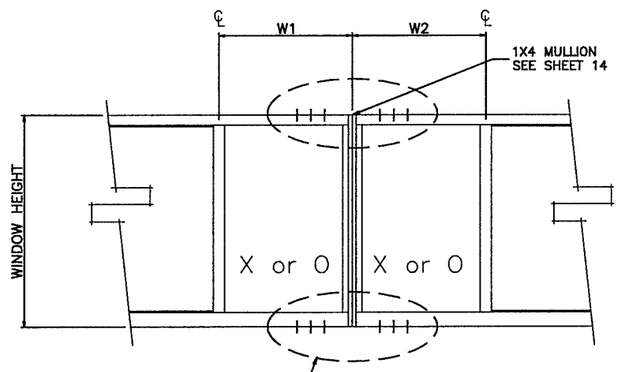
PERFORMANCE VALUES OF UNCLIPPED MULLION ANCHORS

EXT.(+) & INT.(−)

		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
TRIBUTARY WIDTH	WINDOW HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
18"	38-3/8"	150.0	150.0	150.0	150.0	150.0	150.0	130.1	150.0	150.0
26-1/2"		137.1	150.0	150.0	113.8	150.0	150.0	88.4	150.0	150.0
37"		98.2	150.0	150.0	81.5	150.0	150.0	63.3	126.6	150.0
44"		82.6	150.0	150.0	68.6	137.1	150.0	53.2	106.4	150.0
56"		64.9	129.7	150.0	53.9	107.7	150.0	41.8	83.6	125.4
71"		51.2	102.3	150.0	42.5	85.0	127.5	33.0	66.0	98.9
18"	50-5/8"	150.0	150.0	150.0	127.1	150.0	150.0	98.6	150.0	150.0
26-1/2"		103.9	150.0	150.0	86.3	150.0	150.0	67.0	134.0	150.0
37"		74.4	148.8	150.0	61.8	123.6	150.0	48.0	95.9	143.9
44"		62.6	125.2	150.0	52.0	104.0	150.0	40.3	80.7	121.0
18"	63"	122.9	150.0	150.0	102.1	150.0	150.0	79.2	150.0	150.0
26-1/2"		83.5	150.0	150.0	69.3	138.7	150.0	53.8	107.6	150.0
37"		59.8	119.6	150.0	49.7	99.3	149.0	38.5	77.1	115.6
44"		50.3	100.6	150.0	41.8	83.5	125.3	32.4	64.8	97.2
18"	72"	107.6	150.0	150.0	89.3	150.0	150.0	69.3	138.7	150.0
26-1/2"		73.1	146.1	150.0	60.7	121.4	150.0	47.1	94.2	141.3
37"		52.3	104.6	150.0	43.5	86.9	130.4	33.7	67.5	101.2
18"	76"	101.9	150.0	150.0	84.6	150.0	150.0	65.7	131.4	150.0
26-1/2"		69.2	138.4	150.0	57.5	115.0	150.0	44.6	89.2	133.8
37"		49.6	99.1	148.7	41.2	82.3	123.5	32.0	63.9	95.9

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$



NOTE:
VALUES FROM CHARTS MAY BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXT.(+) LOADS TO 80.0 PSF

MULLION ANCHORS ADJACENT TO MULLIONS AT HEAD & SILL ALL OTHER WINDOW ANCHORS AS PER SHEETS 11 THRU 14

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Date 05/29/20
Drawn By J ROSOWSKI
Rev. A
DWG No. 375LMNOA-1
Sheet 15 OF 18
Scale NTS
Series HR375 "ESTATE"
Desc. MULLION DP 2
Title 375 ALUM. HORIZONTAL ROLLER WDW. - LMI

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
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LICENSE
No. 58705
STATE OF FLORIDA
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6/3/20

A. LYNN MILLER, P.E.
P.E.# 58705

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 5 & 8 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.

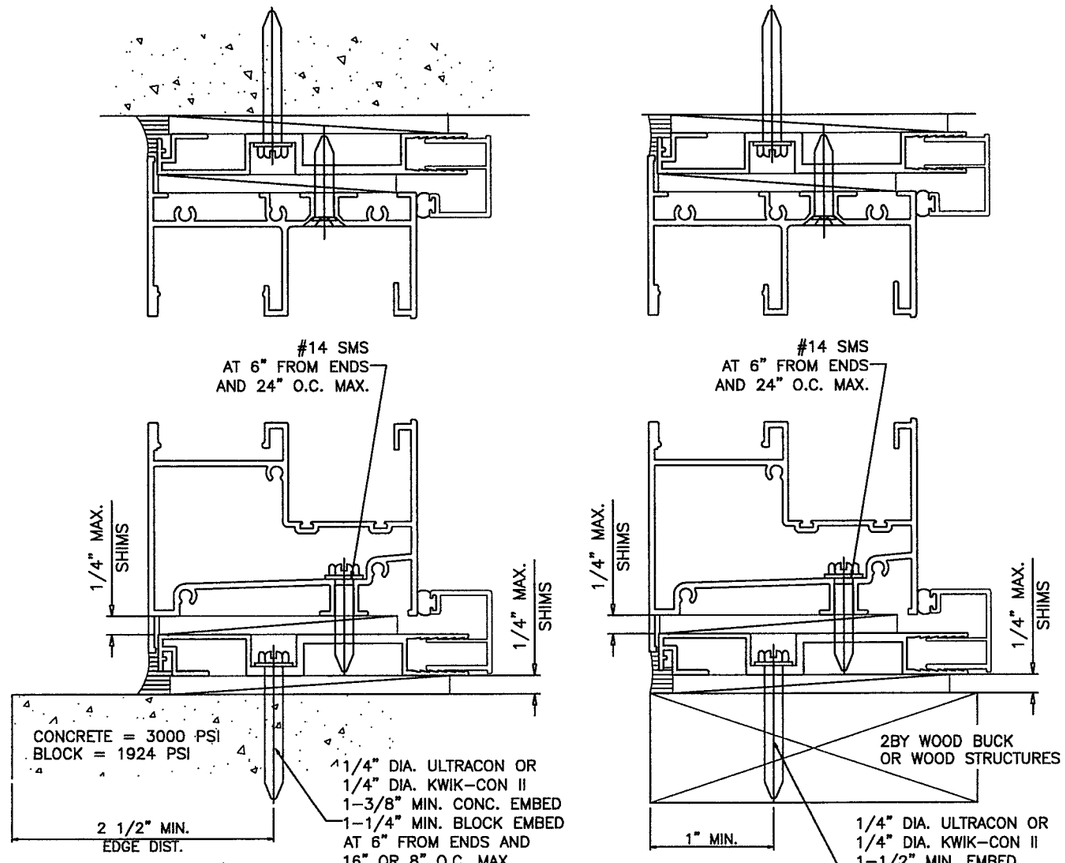
PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS
EXT.(+) & INT.(–)

WINDOW DIMS.		ANCHORS AT 16" O.C.		ANCHORS AT 8" O.C.	
WIDTH	HEIGHT	WOOD/BLOCK	CONC.	WOOD/BLOCK	CONC.
36"	36"	150.0	150.0	150.0	150.0
48"		150.0	150.0	150.0	150.0
56"		124.6	150.0	150.0	150.0
60"		112.8	150.0	150.0	150.0
64"		128.7	150.0	150.0	150.0
72"		109.6	150.0	150.0	150.0
80"		114.6	150.0	150.0	150.0
84"		107.6	150.0	150.0	150.0
88"		101.5	144.0	150.0	150.0
96"		106.3	150.0	150.0	150.0
108"		92.1	130.7	150.0	150.0
112"		100.8	143.0	150.0	150.0
117"		95.7	135.8	150.0	150.0
126"		98.7	140.0	150.0	150.0
144"		94.0	133.3	150.0	150.0
36"	48"	150.0	150.0	150.0	150.0
48"		148.0	150.0	150.0	150.0
56"		111.0	150.0	150.0	150.0
60"		98.7	140.0	150.0	150.0
64"		111.0	150.0	150.0	150.0
72"		92.5	131.3	150.0	150.0
80"		95.1	135.0	150.0	150.0
84"		88.8	126.0	148.0	150.0
88"		83.3	118.1	150.0	150.0
96"		86.3	122.5	148.0	150.0
108"		74.0	105.0	137.4	150.0
112"		80.7	114.5	141.3	150.0
117"		76.4	108.4	143.2	150.0
126"		78.4	111.2	139.3	150.0
144"		74.0	105.0	133.2	150.0
36"	54"	131.6	150.0	150.0	150.0
48"		118.4	150.0	150.0	150.0
56"		108.9	150.0	150.0	150.0
60"		95.7	135.8	150.0	150.0
64"		106.7	150.0	150.0	150.0
72"		87.7	124.4	150.0	150.0
80"		89.4	126.8	148.9	150.0
84"		83.1	117.9	138.5	150.0
88"		77.6	110.2	142.3	150.0
96"		80.1	113.6	137.3	150.0
108"		68.2	96.8	126.7	150.0
112"		74.3	105.4	130.0	150.0
117"		70.2	99.6	131.6	150.0
126"		71.8	101.8	127.6	150.0
144"		67.5	95.7	121.4	150.0
36"	60"	112.8	150.0	150.0	150.0
48"		98.7	140.0	150.0	150.0
56"		95.1	135.0	150.0	150.0
60"		94.7	134.4	150.0	150.0
64"		94.7	134.4	150.0	150.0
72"		84.6	120.0	150.0	150.0
80"		85.2	121.0	142.1	150.0
84"		78.9	112.0	131.6	150.0
88"		73.5	104.3	134.7	150.0
96"		75.3	106.9	129.2	150.0
108"		63.8	90.5	118.4	150.0
112"		69.3	98.3	121.3	150.0
117"		65.3	92.7	122.5	150.0
126"		66.6	94.5	118.4	150.0

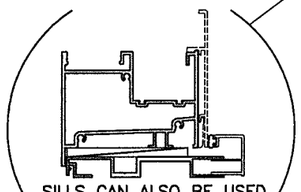
PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS
EXT.(+) & INT.(–)

WINDOW DIMS.		ANCHORS AT 16" O.C.		ANCHORS AT 8" O.C.	
WIDTH	HEIGHT	WOOD/BLOCK	CONC.	WOOD/BLOCK	CONC.
36"	66"	123.3	150.0	150.0	150.0
48"		105.7	150.0	150.0	150.0
56"		100.2	142.1	150.0	150.0
60"		94.7	134.4	150.0	150.0
64"		97.9	139.0	150.0	150.0
72"		82.8	117.5	149.0	150.0
80"		82.4	117.0	137.4	150.0
84"		76.0	107.8	126.6	150.0
88"		70.5	100.0	129.2	150.0
96"		71.8	101.8	123.0	150.0
108"		60.3	85.5	111.9	150.0
112"		65.4	92.8	114.4	150.0
117"		61.5	87.3	115.3	150.0
126"		62.5	88.7	111.1	150.0
36"	72"	109.6	150.0	150.0	150.0
48"		92.5	131.3	150.0	150.0
56"		86.5	122.7	150.0	150.0
60"		84.6	120.0	150.0	150.0
64"		83.2	118.1	149.8	150.0
72"		82.2	116.7	148.0	150.0
80"		80.7	114.5	134.5	150.0
84"		74.0	105.0	123.3	150.0
88"		68.3	96.9	125.2	150.0
96"		69.1	98.0	118.4	150.0
108"		57.6	81.7	106.9	150.0
112"		62.3	88.4	109.1	150.0
117"		58.5	83.0	109.6	150.0
36"	76"	102.1	144.8	150.0	150.0
48"		85.4	121.2	150.0	150.0
56"		79.3	112.5	142.7	150.0
60"		77.2	109.6	139.0	150.0
64"		75.7	107.4	136.2	150.0
72"		74.0	105.0	133.2	150.0
80"		73.8	104.7	132.8	150.0
84"		73.2	103.8	121.9	150.0
88"		67.3	95.5	123.4	150.0
96"		67.7	96.0	116.0	150.0
108"		56.1	79.6	104.2	147.8

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

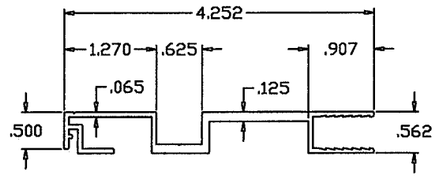


TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM

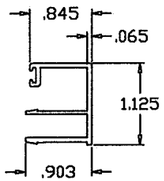


NOTE:
VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXT.(+) LOADS TO 80.0 PSF



ALUMINUM BUCK
6063–T6



OPTIONAL COVER
6063–T6

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami–Dade Product Control

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
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3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

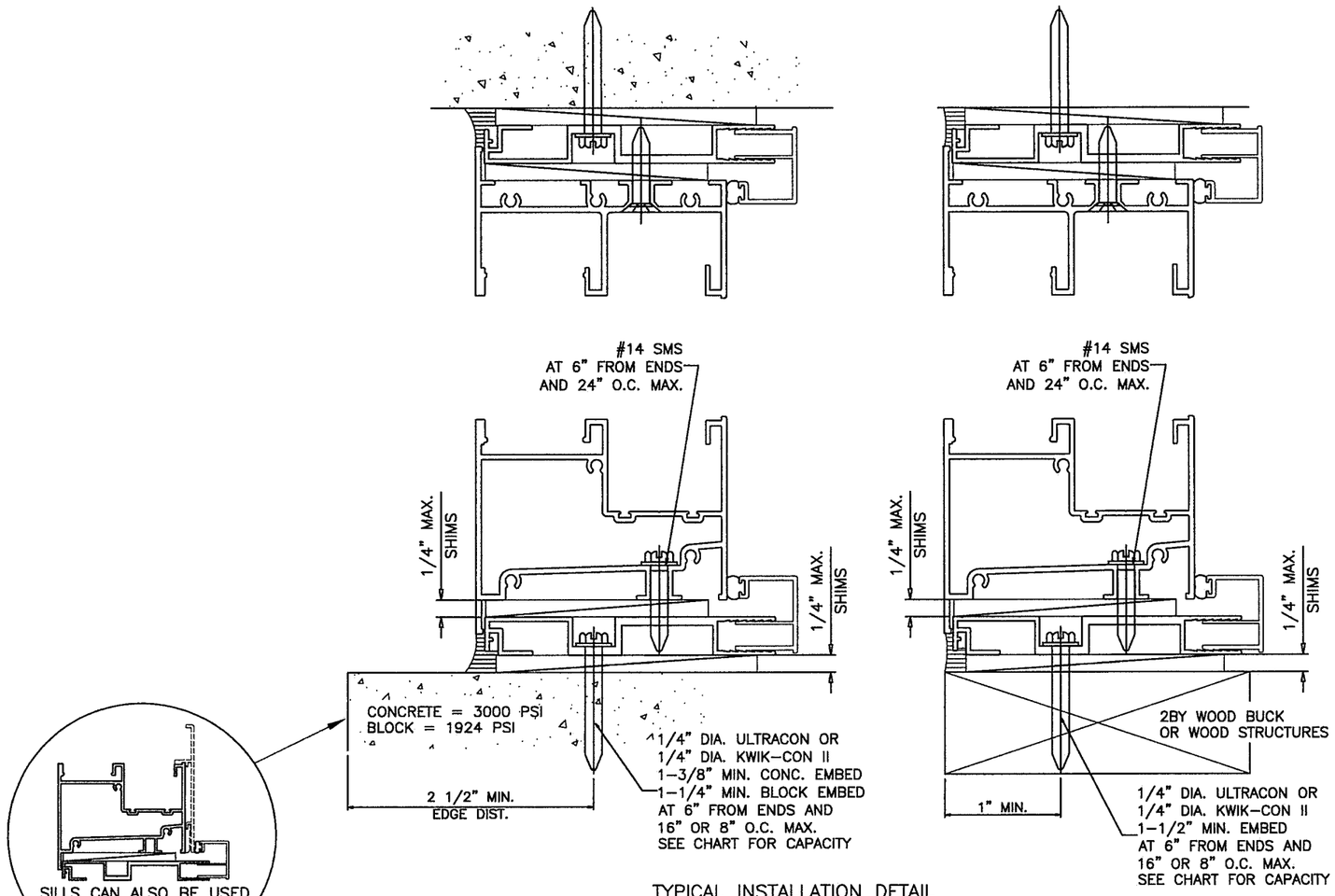
Title	Date	Drawn By	Rev.
375 ALUM. HORIZONTAL ROLLER WDW. - LMI	05/29/20	J ROSOWSKI	A
Desc.	DWG No.		
ALUM BUCK DP 1	375LMNOA-1		
Series	Scale	Sheet	
HR375 "ESTATE"	NTS	16 OF 18	

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20

A. LYNN MILLER, P.E.
P.E.# 58705

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 5 & 8 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



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

PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS
EXT.(+) & INT.(–)

WINDOW DIMS.		ANCHORS AT 16" O.C.		ANCHORS AT 8" O.C.	
WIDTH	HEIGHT	WOOD/BLOCK	CONC.	WOOD/BLOCK	CONC.
26–1/2"	38–3/8"	150.0	150.0	150.0	150.0
53–1/8"		130.9	150.0	150.0	150.0
79–11/16"		110.2	150.0	150.0	150.0
106–1/4"		89.3	126.7	150.0	150.0
111"		96.8	137.3	150.0	150.0
119–1/4"		88.8	126.0	150.0	150.0
159–3/8"		87.2	123.7	150.0	150.0
26–1/2"	50–5/8"	150.0	150.0	150.0	150.0
53–1/8"		121.1	150.0	150.0	150.0
79–11/16"		92.9	131.8	150.0	150.0
106–1/4"		72.8	103.3	135.2	150.0
111"		78.6	111.5	137.6	150.0
119–1/4"		71.7	101.7	134.4	150.0
159–3/8"		69.1	98.0	125.6	150.0
26–1/2"	63"	150.0	150.0	150.0	150.0
53–1/8"		110.1	150.0	150.0	150.0
79–11/16"		84.2	119.5	140.4	150.0
106–1/4"		63.4	89.9	117.7	150.0
111"		68.1	96.6	119.1	150.0
119–1/4"		61.7	87.5	115.7	150.0
26–1/2"	72"	136.9	150.0	150.0	150.0
53–1/8"		88.3	125.3	150.0	150.0
79–11/16"		81.3	115.4	135.5	150.0
106–1/4"		59.0	83.7	109.6	150.0
111"		63.1	89.6	110.5	150.0
26–1/2"	76"	128.2	150.0	150.0	150.0
53–1/8"		81.1	115.1	146.1	150.0
79–11/16"		73.8	104.7	132.8	150.0
106–1/4"		57.5	81.6	106.8	150.0
111"		61.5	87.2	107.6	150.0

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

NOTE:
VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXT.(+) LOADS TO 80.0 PSF

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
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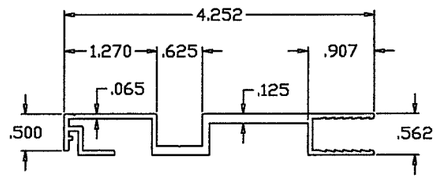
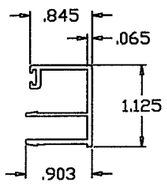
Miami-Dade Product Control



ALUMINUM BUCK
6063–T6



OPTIONAL COVER
6063–T6

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Impact Resistant Windows & Doors
WE'RE STRONGER™
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Series	Title	Scale	Sheet	Rev.
HR375 "ESTATE"	375 ALUM. HORIZONTAL ROLLER WDW. - LMI	NTS	17 OF 18	A

Desc.	Date	DWG No.	Drawn By
ALUM BUCK DP 2	05/29/20	375LMNOA-1	J ROSOWSKI

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/3/20
A. LYNN MILLER, P.E.
P.E.# 58705

PERFORMANCE VALUES OF ALUMINUM BUCK ANCHORS AT MULLION JOINTS

EXT.(+) & INT.(−)

TRIBUTARY WIDTH	WINDOW HEIGHT	ANCHORS INTO WOOD OR HOLLOW BLOCK			ANCHORS INTO CONCRETE		
		CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
24"	54"	65.8	131.6	150.0	93.3	150.0	150.0
28"		56.4	112.8	150.0	80.0	150.0	150.0
32"		49.3	98.7	148.0	70.0	140.0	150.0
36"		43.9	87.7	131.6	62.2	124.4	150.0
39"		40.5	81.0	121.4	57.4	114.9	150.0
40"		39.5	78.9	118.4	56.0	112.0	150.0
42"		37.6	75.2	112.8	53.3	106.7	150.0
44"		35.9	71.8	107.6	50.9	101.8	150.0
46"		34.3	68.6	103.0	48.7	97.4	146.1
48"		32.9	65.8	98.7	46.7	93.3	140.0
52"		30.4	60.7	91.1	43.1	86.2	129.2
24"	60"	59.2	118.4	150.0	84.0	150.0	150.0
28"		50.7	101.5	150.0	72.0	144.0	150.0
32"		44.4	88.8	133.2	63.0	126.0	150.0
36"		39.5	78.9	118.4	56.0	112.0	150.0
39"		36.4	72.9	109.3	51.7	103.4	150.0
40"		35.5	71.0	106.6	50.4	100.8	150.0
42"		33.8	67.7	101.5	48.0	96.0	144.0
44"		32.3	64.6	96.9	45.8	91.6	137.5
46"		30.9	61.8	92.7	43.8	87.7	131.5
24"	66"	53.8	107.6	150.0	76.4	150.0	150.0
28"		46.1	92.3	138.4	65.5	130.9	150.0
32"		40.4	80.7	121.1	57.3	114.5	150.0
36"		35.9	71.8	107.6	50.9	101.8	150.0
39"		33.1	66.2	99.4	47.0	94.0	141.0
40"		32.3	64.6	96.9	45.8	91.6	137.5
42"		30.8	61.5	92.3	43.6	87.3	130.9
24"	72"	49.3	98.7	148.0	70.0	140.0	150.0
28"		42.3	84.6	126.9	60.0	120.0	150.0
32"		37.0	74.0	111.0	52.5	105.0	150.0
36"		32.9	65.8	98.7	46.7	93.3	140.0
39"		30.4	60.7	91.1	43.1	86.2	129.2
24"	76"	46.7	93.5	140.2	66.3	132.6	150.0
28"		40.1	80.1	120.2	56.8	113.7	150.0
32"		35.1	70.1	105.2	49.7	99.5	149.2
36"		31.2	62.3	93.5	44.2	88.4	132.6

PERFORMANCE VALUES OF ALUMINUM BUCK ANCHORS AT MULLION JOINTS

EXT.(+) & INT.(−)

TRIBUTARY WIDTH	WINDOW HEIGHT	ANCHORS INTO WOOD OR HOLLOW BLOCK			ANCHORS INTO CONCRETE		
		CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6
18"	38-3/8"	123.4	150.0	150.0	150.0	150.0	150.0
26-1/2'		83.8	150.0	150.0	118.9	150.0	150.0
37"		60.0	120.1	150.0	85.2	150.0	150.0
44"		50.5	101.0	150.0	71.6	143.3	150.0
56"		39.7	79.3	119.0	56.3	112.6	150.0
71"		31.3	62.6	93.9	44.4	88.8	150.0
18"	50-5/8"	93.6	150.0	150.0	132.7	150.0	150.0
26-1/2'		63.5	127.1	150.0	90.2	150.0	150.0
37"		45.5	91.0	136.5	64.6	129.2	150.0
44"		38.3	76.5	114.8	54.3	108.6	150.0
18"	63"	75.2	150.0	150.0	106.7	150.0	150.0
26-1/2'		51.1	102.1	150.0	72.5	144.9	150.0
37"		36.6	73.1	109.7	51.9	103.8	150.0
44"		30.8	61.5	92.3	43.6	87.3	130.9
18"	72"	65.8	131.6	150.0	93.3	150.0	150.0
26-1/2'		44.7	89.4	134.0	63.4	126.8	150.0
37"		32.0	64.0	96.0	45.4	90.8	136.2
18"	76"	62.3	124.6	150.0	88.4	150.0	150.0
26-1/2'		42.3	84.7	127.0	60.1	120.1	150.0
37"		30.3	60.6	90.9	43.0	86.0	129.0

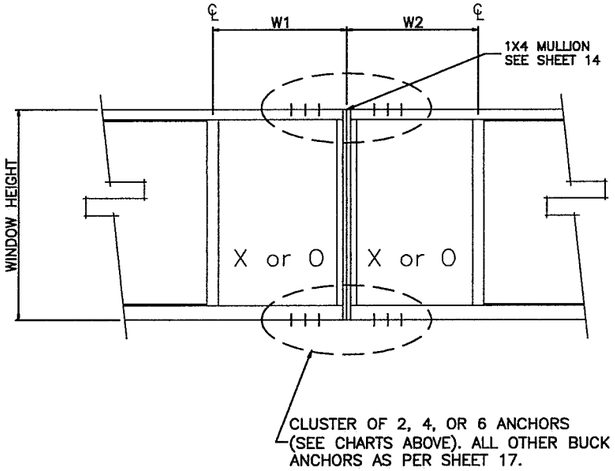
All values shown are Design PSF (Pounds per Square Foot)

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

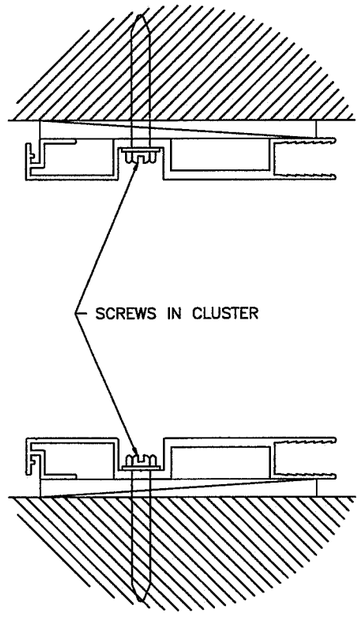
ALL VALUES SHOWN ARE DESIGN PSF
VALUES FOR EXT.(+) LOADS SHOWN ARE FOR
SILL WITH WATERBAR ADAPTER.
FOR WINDOWS WITHOUT WATERBAR ADAPTER
LIMIT EXT.(+) LOADS TO 80.0 PSF

VALUES FROM CHARTS MAY
BE INTERPOLATED BETWEEN SIZES

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0610.05
Expiration Date: 06/10/2024
By: Ishaq I. Chanda
Miami-Dade Product Control



ALUMINUM BUCK ANCHORS
ADJACENT TO MULLIONS AT HEAD & SILL
ALL OTHER ALUMINUM BUCK ANCHORS
AS PER SHEET 16

Revision:

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05/29/20	J ROSOWSKI	A

DWG No.	Scale	Sheet
375LMNOA-1	NTS	18 OF 18

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