



MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/building](http://www.miamidade.gov/building)

**RC Home Showcase, Inc.**  
**16115 NW 52<sup>nd</sup> Avenue**  
**Miami, FL 33014**

**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 "CM100" Outswing Aluminum Casement Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W04-16**, titled "CM100 Aluminum Casement Window (L.M.I.)", sheets 1 through 11 of 11, dated 03/01/04, with revision **M** dated 11/30/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, 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, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

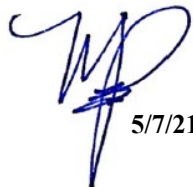
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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

This NOA **revises NOA No. 18-0517.07** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4 and Green Sustainable Attribute (G.S.A.) page G-1, as well as approval document mentioned above.

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



  
5/7/21

NOA No. 20-1223.02  
Expiration Date: July 29, 2024  
Approval Date: May 13, 2021  
Page 1

**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. 06-1130.01 and 11-0922.06)*
2. Drawing No. **W04-16**, titled "CM100 Aluminum Casement Window (L.M.I.)", sheets 1 through 11 of 11, dated 03/01/04, with revision **L** dated 02/28/19, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 18-0517.07)*

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6439**, dated 02/21/11, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under NOA No. 11-0922.06)*
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Drop Load Test (400 Ft. Lb.), per ANSI Z97.1  
along with marked-up drawings and installation diagram of an outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5867**, dated 05/02/09, signed and sealed by Julio E. Gonzalez, P.E.  
*(Submitted under NOA No. 10-0426.09)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of aluminum casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1344**, dated 09/12/03, **HETI-03-1346**, dated 09/16/03, **HETI-03-1350**, dated 10/14/03 and, all signed and sealed by Rafael E. Droz-Seda, P.E.  
*(Submitted under NOA No. 06-1130.01)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-1223.02  
Expiration Date: July 29, 2024  
Approval Date: May 13, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**B. TESTS (CONTINUED)**

4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of aluminum casement window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-03-1848**, dated 09/17/03, **HETI-03-1856**, dated 09/17/03 and **HETI-03-1859**, dated 01/16/04, all signed and sealed by Rafael E. Droz-Seda, P.E.  
*(Submitted under NOA No. 06-1130.01)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 02/16/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No. 18-0213.03)*  
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

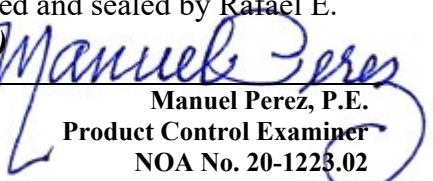
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/18/18, expiring on 07/08/19.  
2. 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.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, and of no financial interest, dated February 15, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No. 18-0213.03)*  
2. Laboratory compliance letter for Test Report No. **FTL-6439**, dated 02/21/11, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Marlin D. Brinson, P.E. *(Submitted under NOA No. 11-0922.06)*  
3. Laboratory compliance letter for Test Report No. **FTL-5867**, dated 05/02/09, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Julio E. Gonzalez, P.E. *(Submitted under NOA No. 10-0426.09)*  
4. Laboratory compliance letters for Test Reports No. **HETI-03-1346**, dated 09/16/03, **HETI-03-1848**, dated 09/17/03, **HETI-03-1856**, dated 09/17/03, **HETI-03-1859**, dated 01/16/04, **HETI-03-1350**, dated 10/14/03 and **HETI-03-1344**, dated 09/12/03, issued by Hurricane Engineering & Testing, Inc., all signed and sealed by Rafael E. Droz-Seda, P.E. *(Submitted under NOA No. 06-1130.01)*

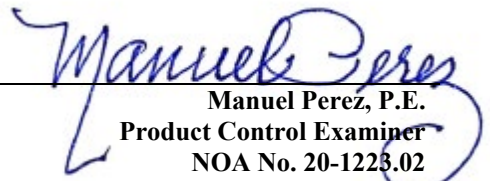
  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-1223.02  
Expiration Date: July 29, 2024  
Approval Date: May 13, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**  
**G. OTHERS**

1. Notice of Acceptance No. **18-0213.03**, issued to RC Home Showcase, Inc. for their Series "CM100" Outswing Aluminum Casement Window - L.M.I., approved on 03/29/18 and expiring on 07/29/19.
2. Simulation Performance, Solar Heat Gain Coefficient, Visible Transmittance, & Condensation Resistance Calculation Report on:
  - 1) **NFRC 100-2004** "Procedure for Determining Fenestration Product U-Factors"
  - 2) **NFRC 200-2004** "Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence"
  - 3) **NFRC 500-2004** "Procedure for Determining Fenestration Product Condensation Resistance Values"Using computer simulation in accordance with NFRC: Frame and Edge Modeling: THERM 5.x, / WINDOW 5.x NFRC Simulation Manual (Approved at test date), of a RC Aluminum Series "CM100" outswing casement aluminum prime window, along with attached drawings and bill of materials included in Appendix A, marked-up by National Certified Testing Laboratories, Test Report No. **NCTL-110-12449.01**, pages 01 through 07 of 07, dated 11/12/09, signed by Richard A. McVicker III, Simulator, and Steven H. Coble, NFRC Accredited Simulator, Simulator-In-Responsible-Charge.
3. NFRC 102-2004 Thermal Performance Test Report on:
  - 1) **NFRC 102-2004** "Test Procedure for Measuring the Steady State Thermal Transmittance of Fenestration Systems"Test report of a series RC Aluminum's Series "CM100" Outswing Aluminum Casement Prime Window with Low E and Argon, along with submittal component drawings, with applicable part numbers, manufacturing and modeling details included in Appendix A, marked-up by National Certified Testing Laboratories, Test Report No. **NCTL-110-12450-1**, pages 1 through 4 of 4, dated 11/30/09, signed by Christian J. Mitchell, Technician, and Robert H. Zeiders, P. E., Vice-President Engineering & Quality Person-In-Responsible Charge.
4. Recycled Content Determination Report on:

Name: Casement Window, CM100  
Raw Material: Aluminum  
Including letter from **Fundiciones Industriales S.A. (FISA)** dated 03/22/10, certifying that the extruded aluminum products contained 30% recycled scrap material, signed by Henry Kronfle, Vice-President.

  
\_\_\_\_\_  
**Manuel Perez, P.E.**  
**Product Control Examiner**  
**NOA No. 20-1223.02**  
**Expiration Date: July 29, 2024**  
**Approval Date: May 13, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W04-16**, titled “CM100 Aluminum Casement Window (L.M.I.)”, sheets 1 through 11 of 11, dated 03/01/04, with revision **M** dated 11/30/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 02/16/18, and updated on 12/04/20 to comply with **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

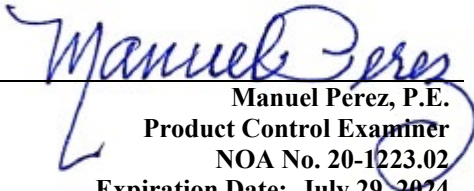
1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated December 04, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **18-0517.07**, issued to RC Home Showcase, Inc. for their Series “CM100” Outswing Aluminum Casement Window - L.M.I., approved on 05/02/19 and expiring on 07/29/24.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 20-1223.02  
Expiration Date: July 29, 2024  
Approval Date: May 13, 2021

**RC Home Showcase, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**GREEN SUSTAINABLE ATTRIBUTES (GSA)**

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

**G.4 – RECYCLED CONTENT / BIO-BASED MATERIAL / RAPIDLY RENEWABLE MATERIAL**

<u>Component Name</u>	<u>% Recycled Content at Manuf.</u>	<u>% Recycled at Disposal</u>	<u>% Bio-based Material</u>	<u>% Renewable Material</u>
1. Window Aluminum	30%	100%	N/A	N/A

**G.8 – U-FACTOR ( THERMAL TRANSMITTANCE) BTU/ HR-FT<sup>2</sup>-<sup>0</sup>F**

**G.9 – SHGC-FACTOR ( SOLAR HEAT GAIN COEFFICIENT) BTU/ HR-FT<sup>2</sup>**

**VT – VISIBLE LIGHT TRANSMITTANCE AT NORMAL INCIDENCE**

**CR – CONDENSATION RESISTANCE**

<u>ID#</u>	<u>Test Report#:</u>	<u>Product Number</u>	<u>Glazing Components:</u>	<u>G.8: U-Factor</u>	<u>G.9: SHGC</u>	<u>VT</u>	<u>CR</u>
	<u>Base line Product</u>	<b>000</b>	5/32 CLR_240#2-SS-D_ARG_BRZ-1/8_090 PVB 1/8	0.62	0.19	0.19	17
1.	<b>NCTL</b> <b>110-12450-1</b>	<b>001</b>	5/32 CLR_240#2-SS-D_ARG_BRZ-1/8_090 PVB 1/8	0.62	0.19	0.19	17
2.		<b>002</b>	5/32 CLR_240#2-SS-D_ARG_CLR-1/8_090 PVB 1/8	0.62	0.20	0.25	17
3.		<b>003</b>	5/32 CLR_240#2-SS-D_ARG_GRN-1/8_090 PVB 1/8	0.62	0.19	0.17	17
4.		<b>004</b>	5/32 CLR_240#2-SS-D_ARG_GRY-1/8_090 PVB 1/8	0.62	0.19	0.23	17

<u>Legend</u>	
<u>Abbreviations:</u>	<u>Description:</u>
SS-D	Desiccant-Filled Stainless Steel Spacer
240#2	Cardinal Low E 240 @ #2 Surface Typical
ARG	90% Argon
PVB	0.090" Poly Vinyl Butryal (PVB) interlayer
CLR	Clear Glass
BRZ	Bronze Tint Glass
GRN	Green Tint Glass
GRY	Gray Tint Glass

**G.10 – C-FACTOR ( THERMAL CONDUCTANCE) BTU/ HR-FT<sup>2</sup>-<sup>0</sup>F**

<u>Component Name</u>	<u>C-Value</u>
1. Whole Window	1.94

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-1223.02  
Expiration Date: July 29, 2024  
Approval Date: May 13, 2021



**CM100 OPERATING/FIXED  
ALUMINUM CASEMENT WINDOWS**

FOR FLANGE FRAME WINDOW CAPACITY SEE SHEETS 2 & 4.  
FOR FLUSH FRAME WINDOW CAPACITY SEE SHEETS 3 & 4.

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.

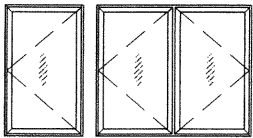
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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 BLDG. CODE & ADOPTED STANDARDS.

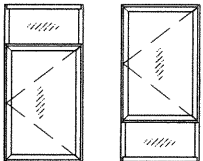
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.  
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

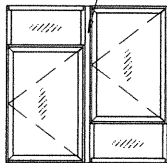
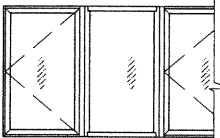
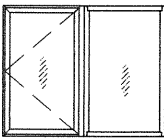
APPROVAL APPLIES TO SINGLE VENT WINDOWS OR DUAL VENT WINDOWS USING INTEGRAL IMPOST.



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



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

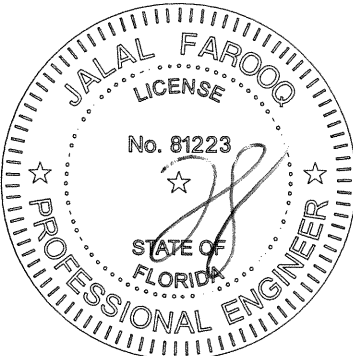


MULLION CAPACITY FOR THIS OPTION SEE SEPARATE MULLION NOA

RATING OF FIXED WINDOWS UNDER SEPARATE NOA.

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1223.02**  
Expiration Date: **07/29/2024**  
By: *Manuel Perez*  
Miami-Dade Product Control  
DEC 21 2020



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

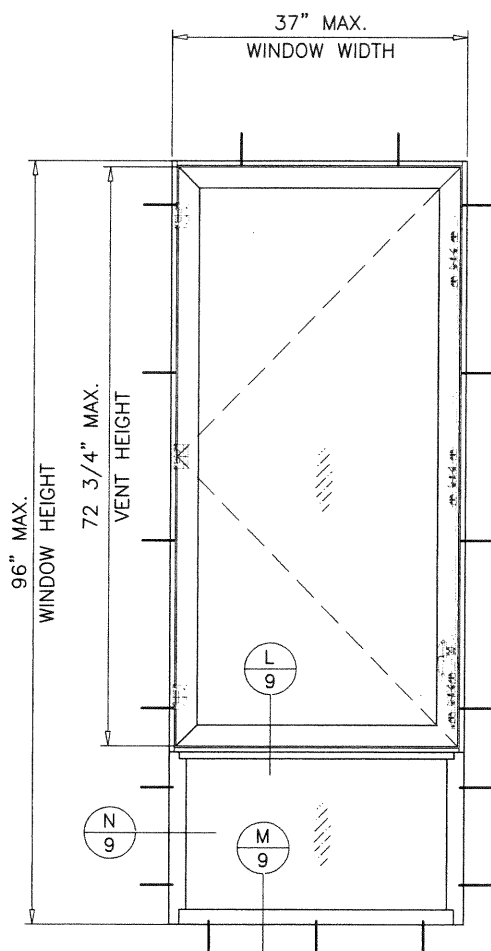
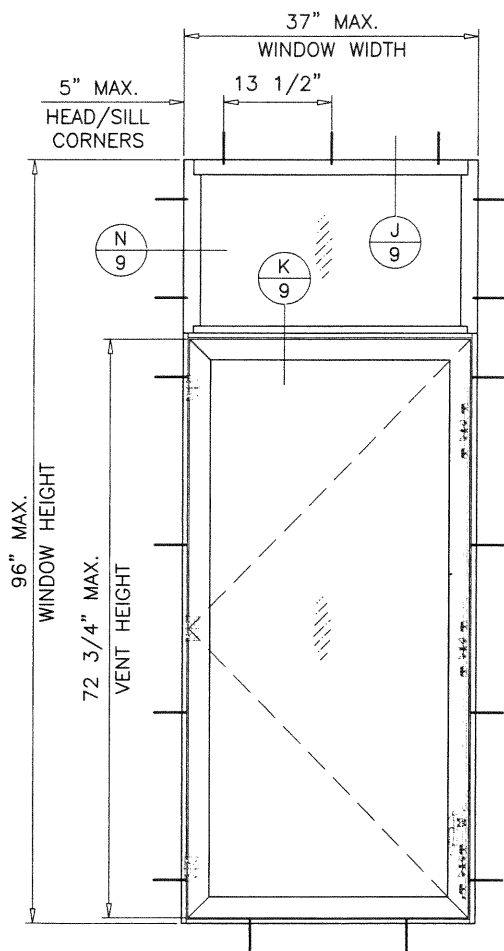
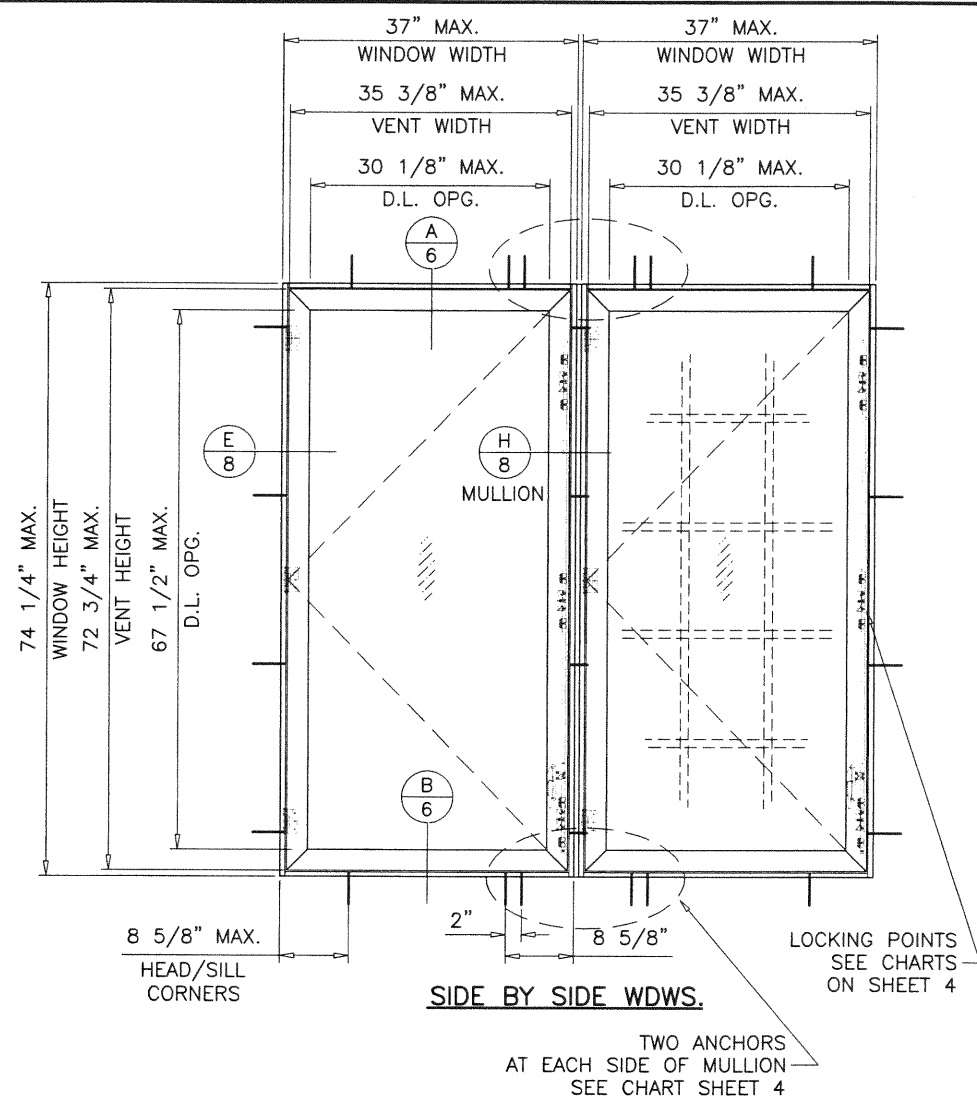
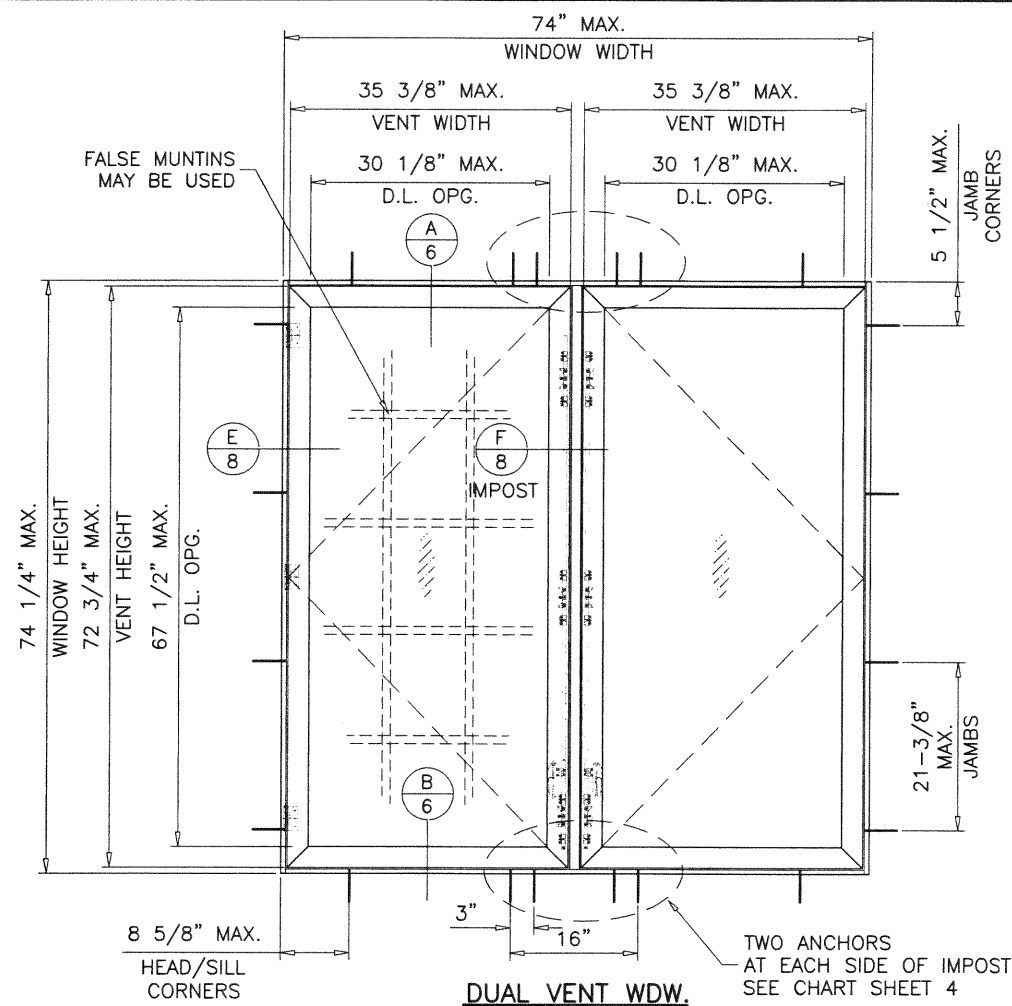
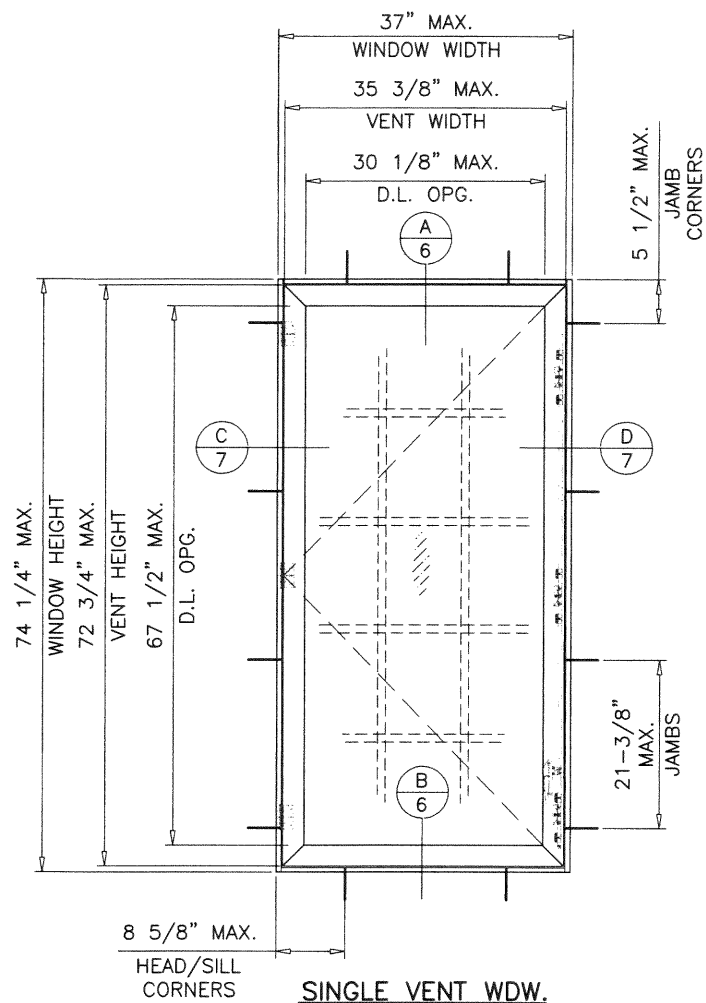
CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)  
RC Home Showcase, Inc.  
16115 NW 52nd Ave.  
Miami, FL. 33014  
TEL. (305) 392-6214 FAX. (305) 260-6432

no	date	by	description
I	08.11.15		REV. PER RER COMMENTS
J	11.10.15		NO CHANGE THIS SHEET
K	02.22.18		UPDATED TO 2017 FBC
L	02.28.19		NO CHANGE THIS SHEET
M	11.30.20		UPDATED TO 2020 FBC

date: 03-01-04  
scale: --  
dr. by: TARIQ  
chk. by:

drawing no.  
**W04-16**  
sheet 1 of 11

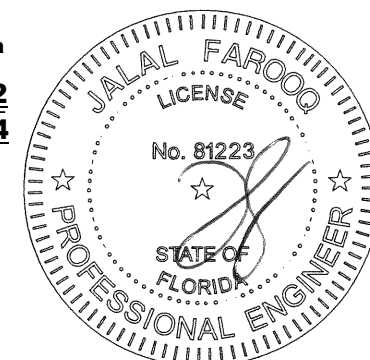
COMP-ANL\W04-16RC



# FLANGE FRAME WINDOWS

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 4.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-1223.02**  
Expiration Date: **07/29/2024**  
By: *Manuel Perez*  
Miami-Dade Product Control  
DEC 21 2020



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

CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)  
**RC Home Showcase, Inc.**  
16115 NW 52nd Ave.  
Miami, FL 33014  
TEL. (305) 392-6214 FAX. (305) 260-6432

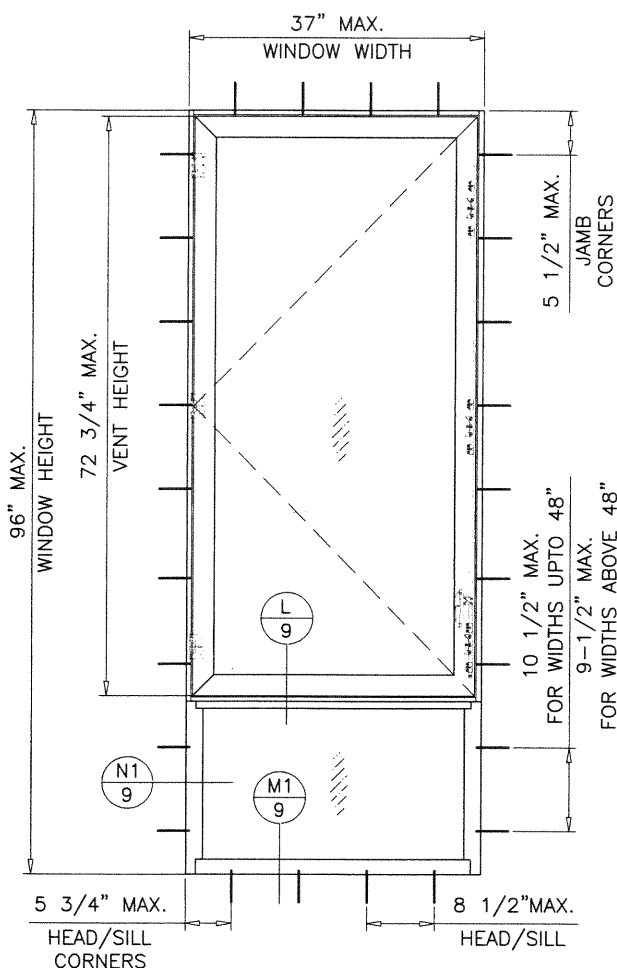
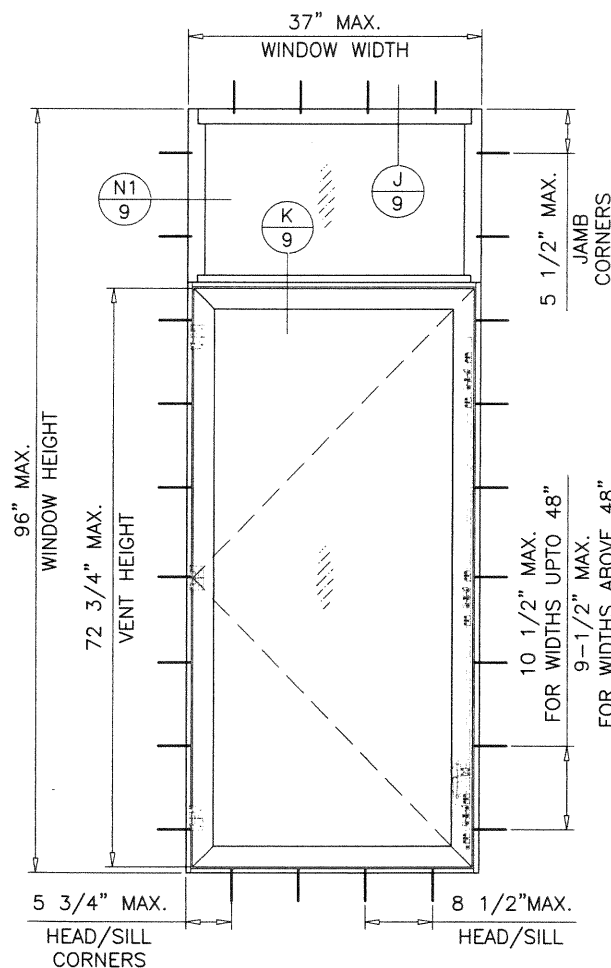
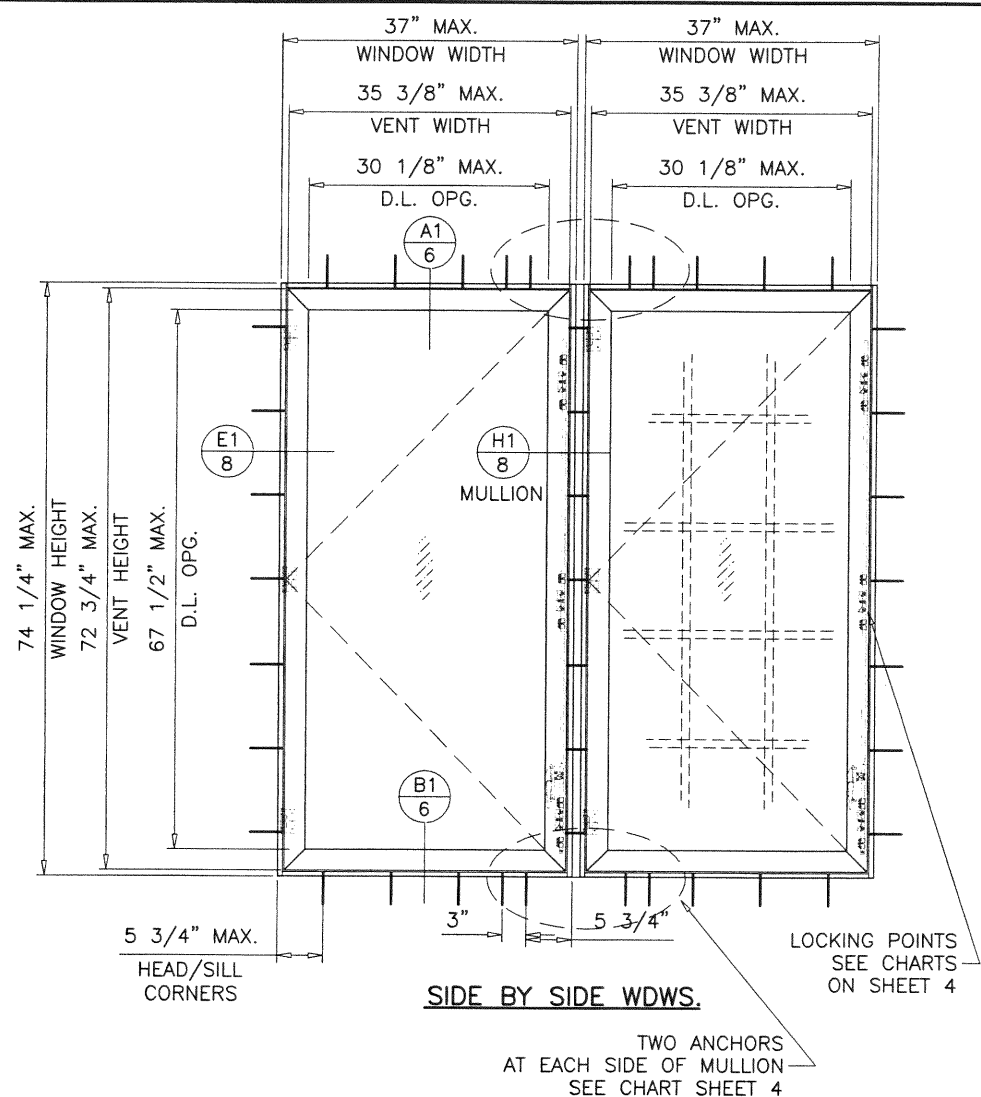
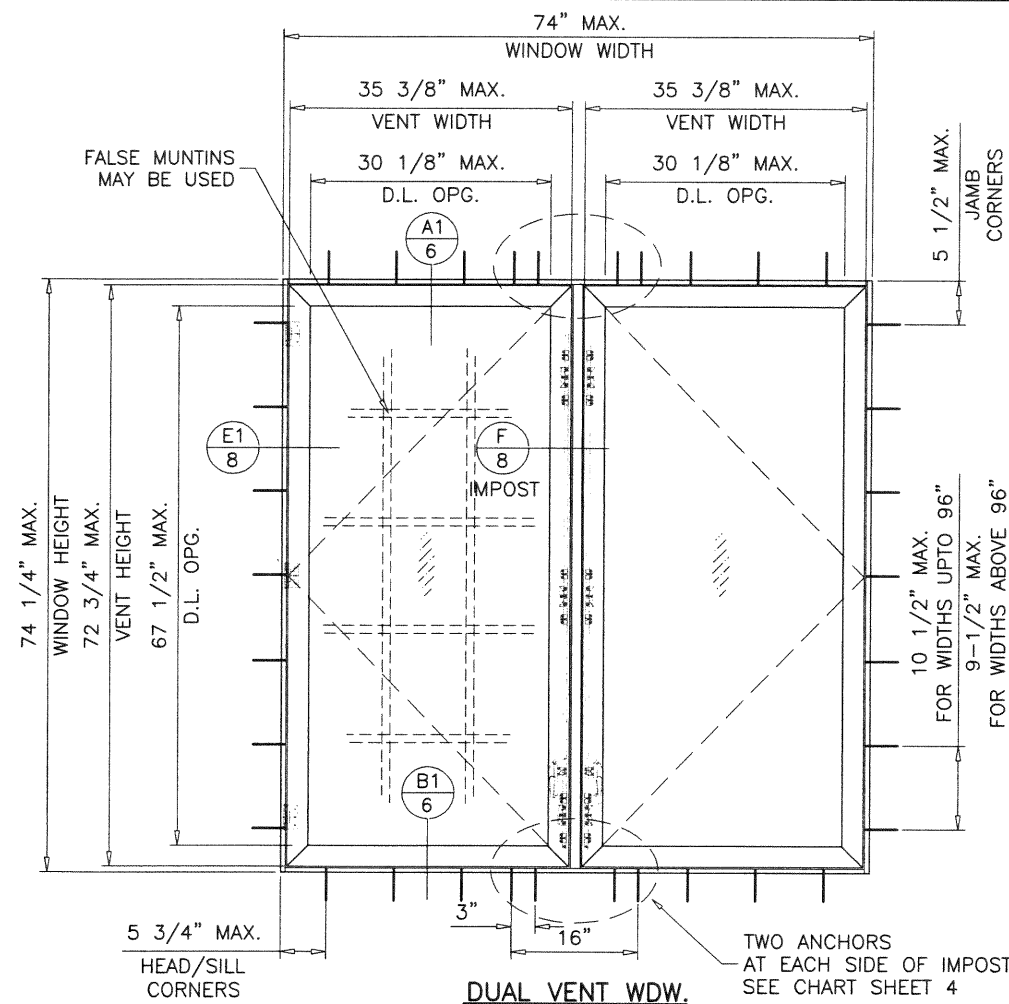
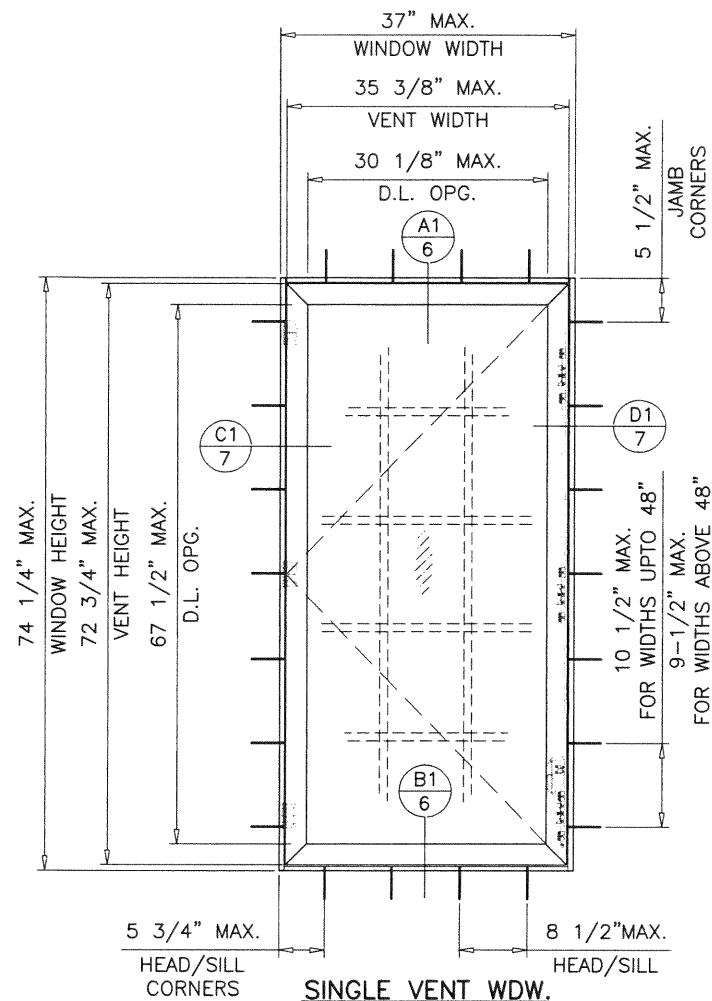
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J	11.10.15	NO	CHANGE THIS SHEET
K	02.22.18	UPDATED	TO 2017 FBC
L	02.28.19	NO	CHANGE THIS SHEET
M	11.30.20	UPDATED	TO 2020 FBC

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

drawing no. **W04-16**  
sheet 2 of 11

COMP-ANL\W04-16RC

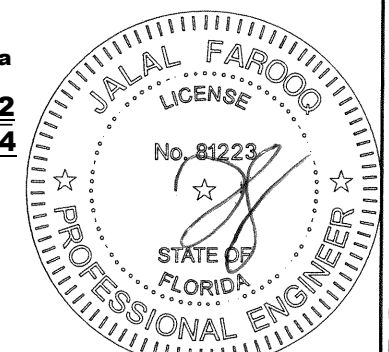




DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 4.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1223.02**  
Expiration Date: **07/29/2024**  
By: *Manuel Perez*  
Miami-Dade Product Control

DEC 21 2020



FLUSH FRAME WINDOWS

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

CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)  
**RC Home Showcase, Inc.**  
16115 NW 52nd Ave.  
Miami, FL. 33014  
TEL. (305) 392-6214  
FAX. (305) 260-6432

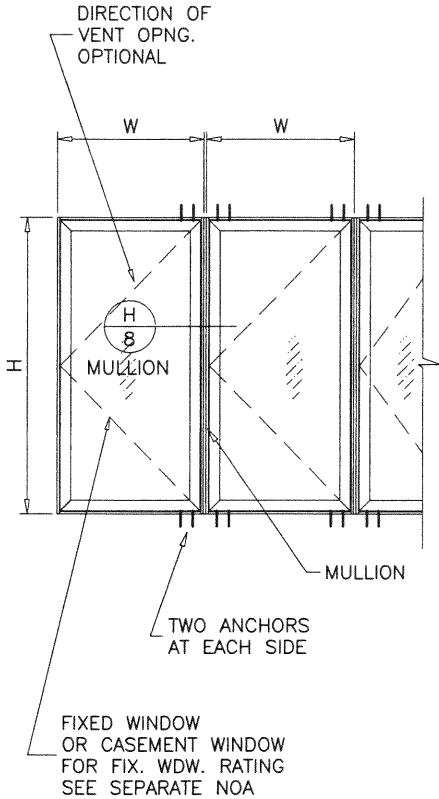
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K	02.22.18	UPDATED TO 2017 FBC	
L	02.28.19	NO CHANGE THIS SHEET	
M	11.30.20	UPDATED TO 2020 FBC	

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

drawing no.  
**W04-16**

sheet 3 of 11

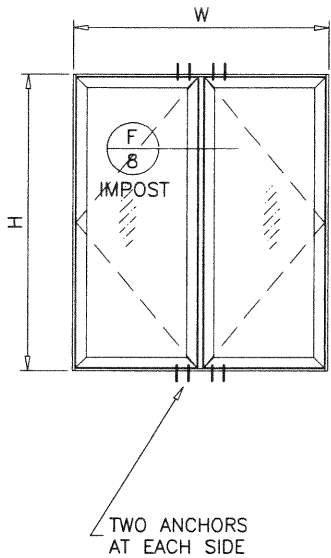
DESIGN LOAD CAPACITY - PSF SIDE BY SIDE SINGLE VENT WDWS.			
WINDOW DIMS.		GLASS TYPES 'A' & 'B'	
		1 X 3 MULL	1 X 4 MULL
WIDTH (W)	HEIGHT (H)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
19-1/8"	38-3/8"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	48"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	50-5/8"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	60"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	63"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	66"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	72"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	74-1/4"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		79.2	80.0
37"		66.6	80.0



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

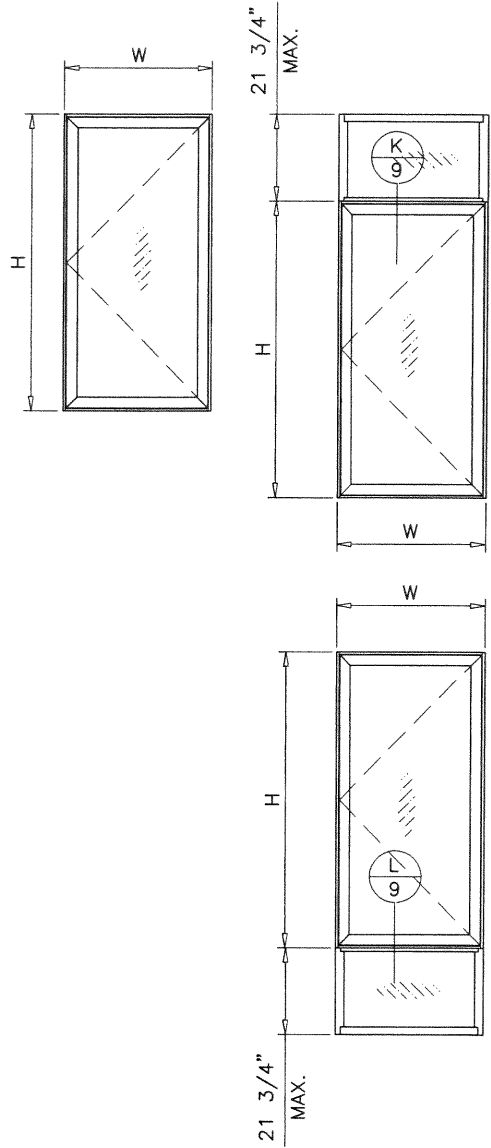
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

DESIGN LOAD CAPACITY - PSF DUAL VENT WINDOWS		
WINDOW DIMS.		GLASS TYPES 'A' & 'B'
		EXT.(+) INT.(-)
37"	38-3/8"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
96"		80.0
106-1/4"		80.0
37"	50-5/8"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
96"		80.0
106-1/4"		80.0
37"	60"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"	63"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"	66"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"	72"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"	74-1/4"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		78.9



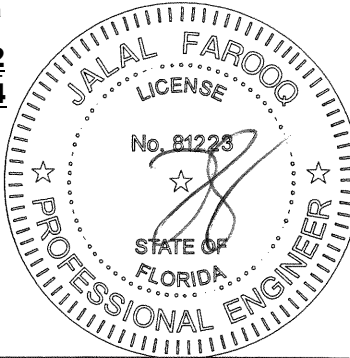
WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
42"	2	2
74-1/4"	3	3

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



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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1223.02**  
Expiration Date: **07/29/2024**  
By: *Manuel Peres*  
Miami-Dade Product Control  
DEC 21 2020



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)

**RC Home Showcase, Inc.**  
16115 NW 52nd Ave.  
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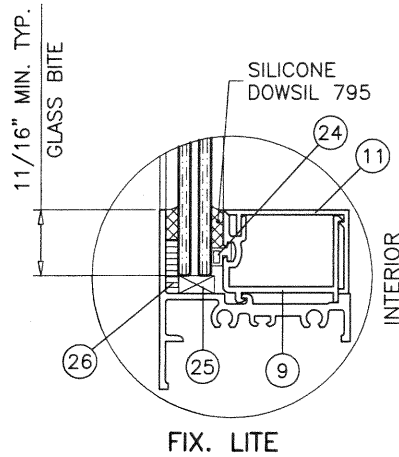
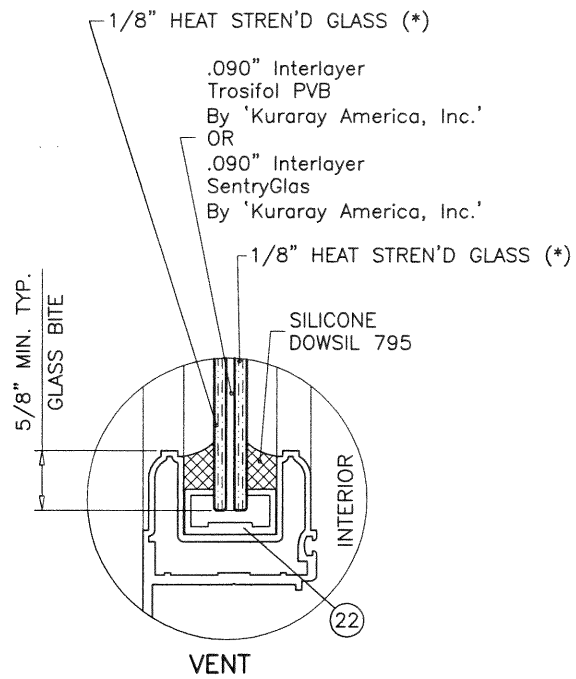
revisions:

no.	date	by	description
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J	11.10.15	NO	CHANGE THIS SHEET
K	02.22.18	UPDATED	TO 2017 FBC
L	02.28.19	NO	CHANGE THIS SHEET
M	11.30.20	UPDATED	TO 2020 FBC

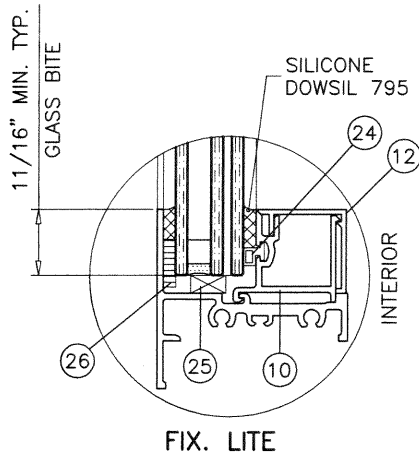
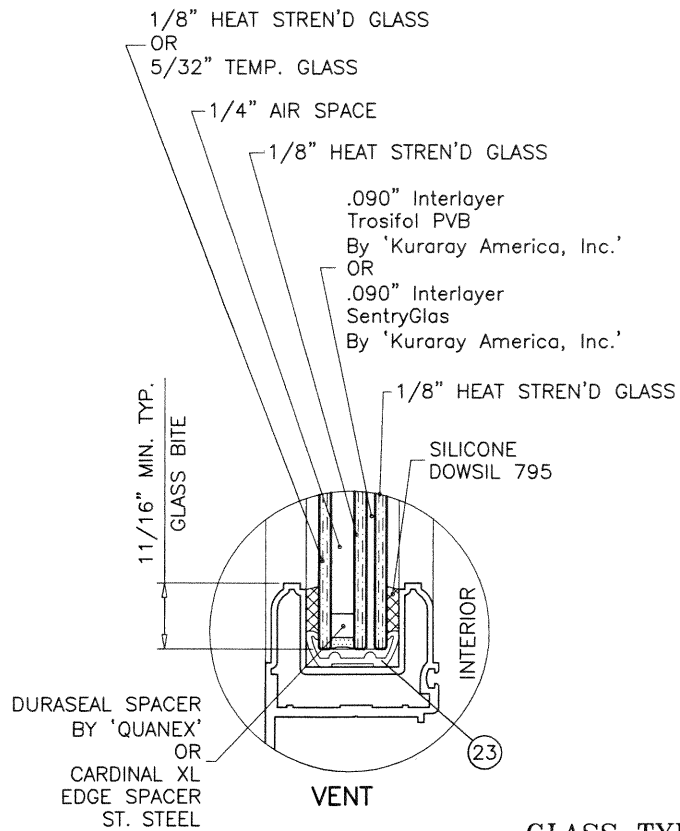
date: 03-01-04  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no. **W04-16**  
sheet 4 of 11





GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

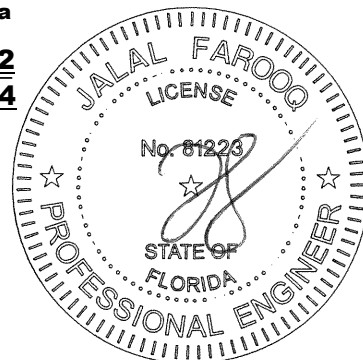
NOTE:  
IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING  
EXTERIOR PLY OF GLASS TYPE 'B' MUST BE TEMPERED.

(\*) GLASS TYPES 'A'  
1/8" THK. H.S. GLASS CAN BE UPGRADED  
UP TO 1/4" THK. H.S. GLASS

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPLIER/REMARKS
1	CM100-001	2/ WDW	FRAME JAMB	6063-T6	-
2	CM100-002	2/ WDW	FRAME HEAD AND SILL	6063-T6	-
3	CM100-007	AS REQD.	FRAME JAMB (FIX.)	6063-T6	FOR FIXED WINDOW
4	CM100-008	AS REQD.	HORIZ. IMPOST	6063-T6	FOR FIXED WINDOW
5	CM100-012	AS REQD.	JAMB ANCHOR CLIP	6063-T6	-
6	CM100-013	AS REQD.	VENT HINGE	6005-T5	INSTALLED WITH (3) #10 X 3/8" MS
7	CM100-014	AS REQD.	FRAME HINGE	6005-T5	INSTALLED WITH (2) #10 X 3/8" MS
8	CM100-015	AS REQD.	FRAME HEAD/SILL (FIX.)	6063-T6	FOR FIXED WINDOW
9	CM100-016	4/ WDW	GLAZING BEAD (LAM. GLASS)	6063-T6	FOR FIXED WINDOW
10	CM100-017	4/ WDW	GLAZING BEAD (LAM. INS. GLASS)	6063-T6	FOR FIXED WINDOW
11	CM100-018	4/ WDW	SNAP COVER (LAM. GLASS)	6063-T6	FOR FIXED WINDOW
12	CM100-019	4/ WDW	SNAP COVER (LAM. INSUL. GLASS)	6063-T6	FOR FIXED WINDOW
13	CM100-032	AS REQD.	VERTICAL IMPOST	6063-T6	-
14	CM100-021	2/ IMPOST	ANCHOR CLIP FOR VERTICAL IMPOST	6063-T6	-
15	CM100-022	-	ANCHOR ARM OPERATOR	6063-T6	-
16	-	AS REQD.	SCREENS	ALUMINUM	OPTIONAL
19	CM100-026	4	VENT STILE	6063-T6	-
20	CM100-027	1/ CORNER	CORNER LOCK	6063-T6	-
21	V-033	AS REQD.	TREMCO TR-5804N SPONGE	NEOPRENE	-
22	P-049	AS REQD.	GLAZING INSERT	RIGID PVC	MELTPOINT
23	V-055	AS REQD.	VINYL FOR LAM. INSUL. GLASS - VENT	PVC	DUROMETER 75±5 SHORE A
24	V-059	AS REQD.	VINYL FOR LAM. & LAM. INSUL. GLASS (FIX.)	PVC	MELTPOINT, DUROMETER 75±5 SHORE A
25		AS REQD.	3/16" X 3/8" X 4" LG. SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
26		AS REQD.	1/8" X 1/2" SINGLE FACE TAPE	-	-
27	P-025	-	PLASTIC CAM M & M	NYLON	-
30	CD25 & CD35	-	SINGLE ARM OPERATOR	ST. STEEL	ROTO HARDWARE SYSTEMS
31	-	-	-	-	-
32	LB05-6645	-	3 POINT LOCK ASSEMBLY	-	ROTO HARDWARE SYSTEMS
33	GT553	-	GUIDE HOUSING	-	ATTACHED W/ (3) #8 X 3/4" SMS
34	GS001	-	STRIKER	-	ATTACHED W/ (3) #8 X 1/2" SMS
35	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREW	ST. STEEL	PH PHL. SMS
36	#10 X 1/2"	2/ CORNER	VENT ASSEMBLY SCREWS	ST. STEEL	FH PHL. SMS
37	#10 X 3/4"	4/ CORNER	IMPOST ASSEMBLY SCREWS	ST. STEEL	PH PHL. SMS
38	#10 X 3/4"	2/ SIDE	IMPOST ASSEMBLY SCREWS	ST. STEEL	FH PHL. SMS
39	CM100-032	AS REQD.	FLUSH ADAPTER HEAD/SILL	6063-T6	-
40	CM100-033	AS REQD.	FLUSH ADAPTER JAMB	6063-T6	-

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1223.02**  
Expiration Date: **07/29/2024**  
By: *Manuel Peres*  
Miami-Dade Product Control

DEC 21 2020



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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**RC Home Showcase, Inc.**  
16115 NW 52nd Ave.  
Miami, FL. 33014  
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revisions:	no	date	by	description
	I	08.11.15	REV PER	COMMENTS
	J	11.10.15	NO CHANGE	THIS SHEET
	K	02.22.18	UPDATED TO	2017 FBC
	L	02.28.19	ALT. GLASS	OPTIONS ADDED
	M	11.30.20	UPDATED TO	2020 FBC

date: 03-01-04

scale: 1/2" = 1"

dr. by: TARIQ

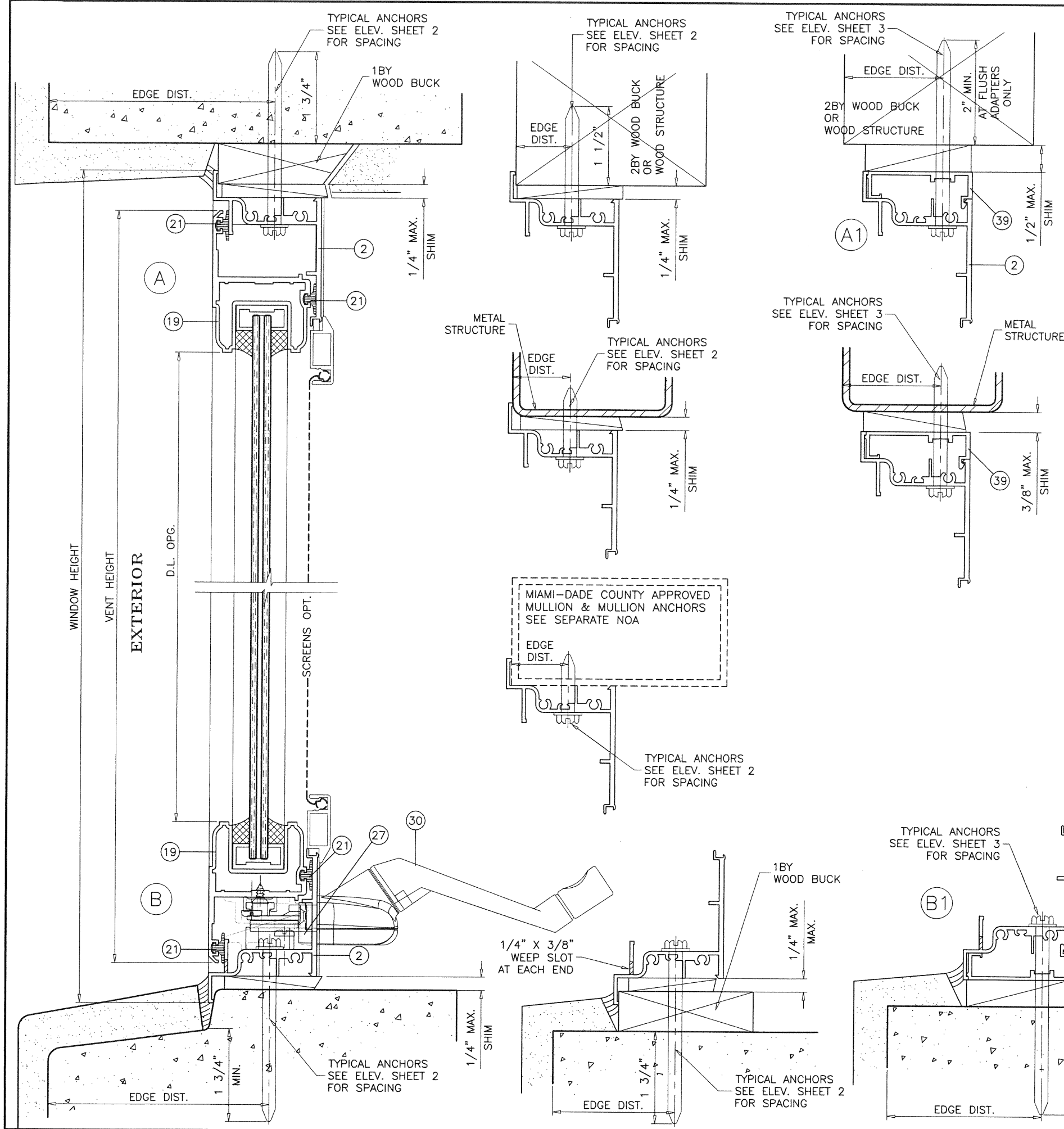
chk. by:

drawing no.

**W04-16**

sheet 5 of 11

COMP-ANL\W04-16RC



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

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
**1/4" DIA. KWIK-CON II+ BY 'HILTI'** (Fu=138 KSI, Fy=137 KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
THRU 1BY BUCKS INTO CONC. OR BLOCKS  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**1/4" DIA. TEKS OR SELF-DRILLING SCREWS** (GRADE 5 CRS)  
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

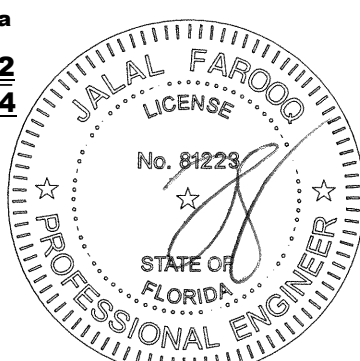
**#14 SMS OR SELF-DRILLING SCREWS** (GRADE 2 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (NO SHIMS)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**CRITICAL EDGE DISTANCE**  
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

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

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
**NOA-No. 20-1223.02**  
**Expiration Date: 07/29/2024**  
By: *Manuel Perera*  
Miami-Dade Product Control



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COMP-ANL\W04-16RC

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

**RC Home Showcase, Inc.**  
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Miami, FL 33014  
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revisions:	
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date: 03-01-04

scale: 1/2" = 1"

dr. by: TARIQ

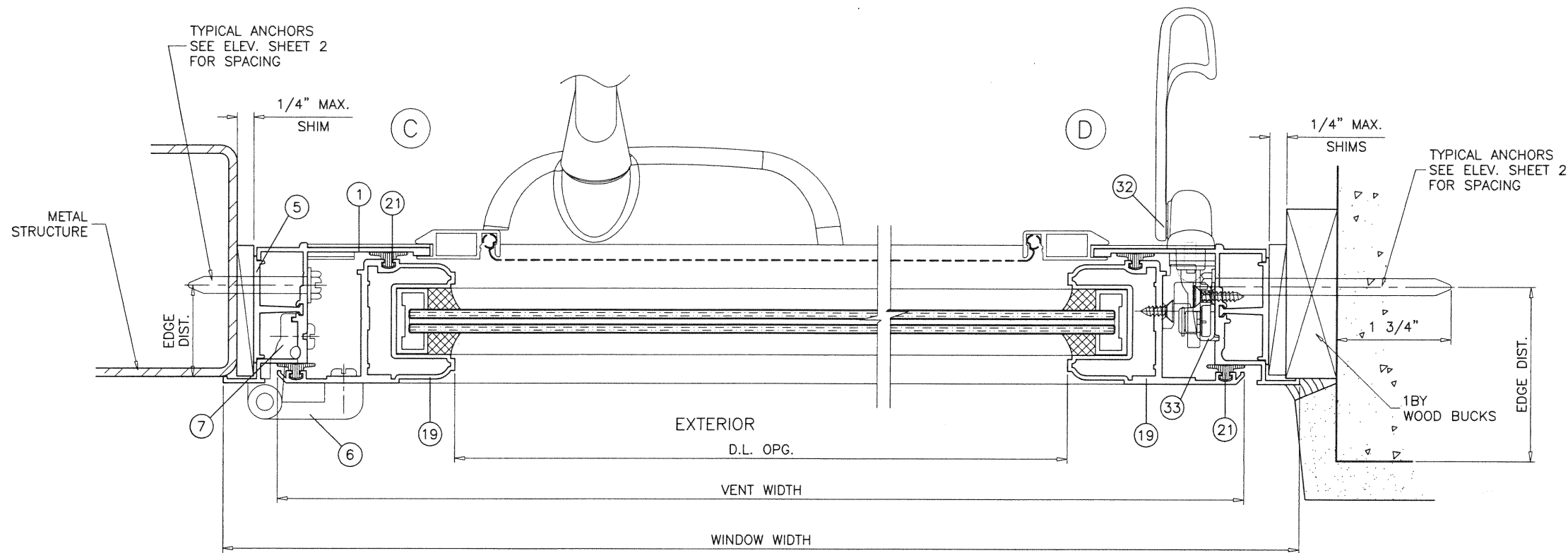
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**W04-16**

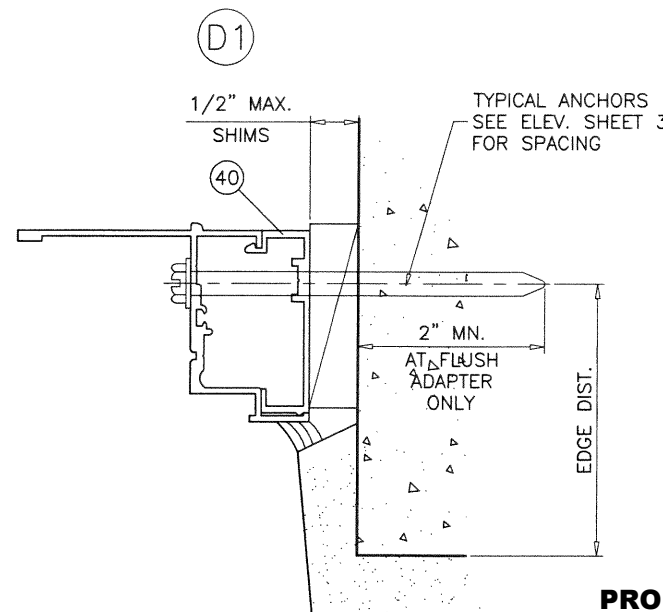
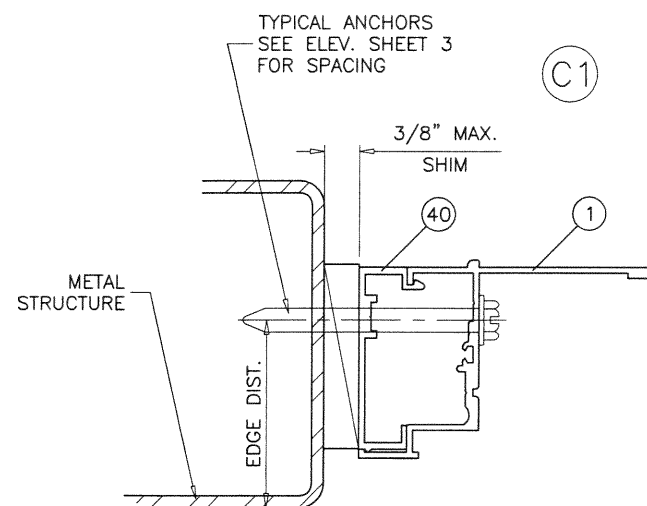
sheet 6 of 11

DEC 21 2020



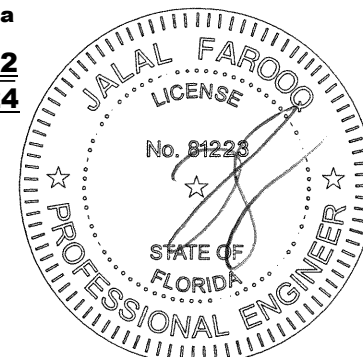


SINGLE VENT WINDOWS



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-1223.02**  
Expiration Date: **07/29/2024**  
By: *Manuel Torres*  
Miami-Dade Product Control

DEC 21 2020



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

CM100 ALUMINUM CASEMENT WINDOW (L.M.I.)  
**RC Home Showcase, Inc.**  
16115 NW 52nd Ave.  
Miami, FL. 33014  
TEL. (305) 392-6214 FAX. (305) 260-6432

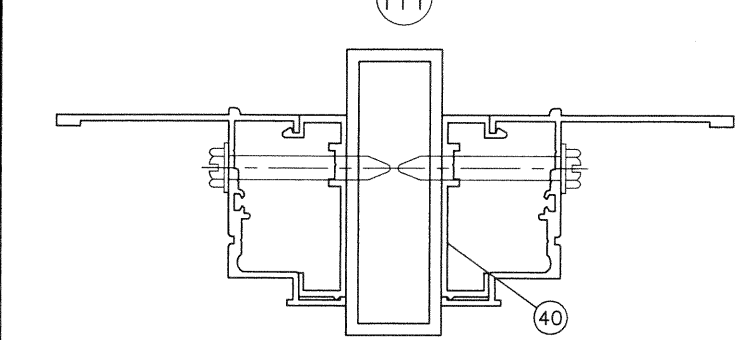
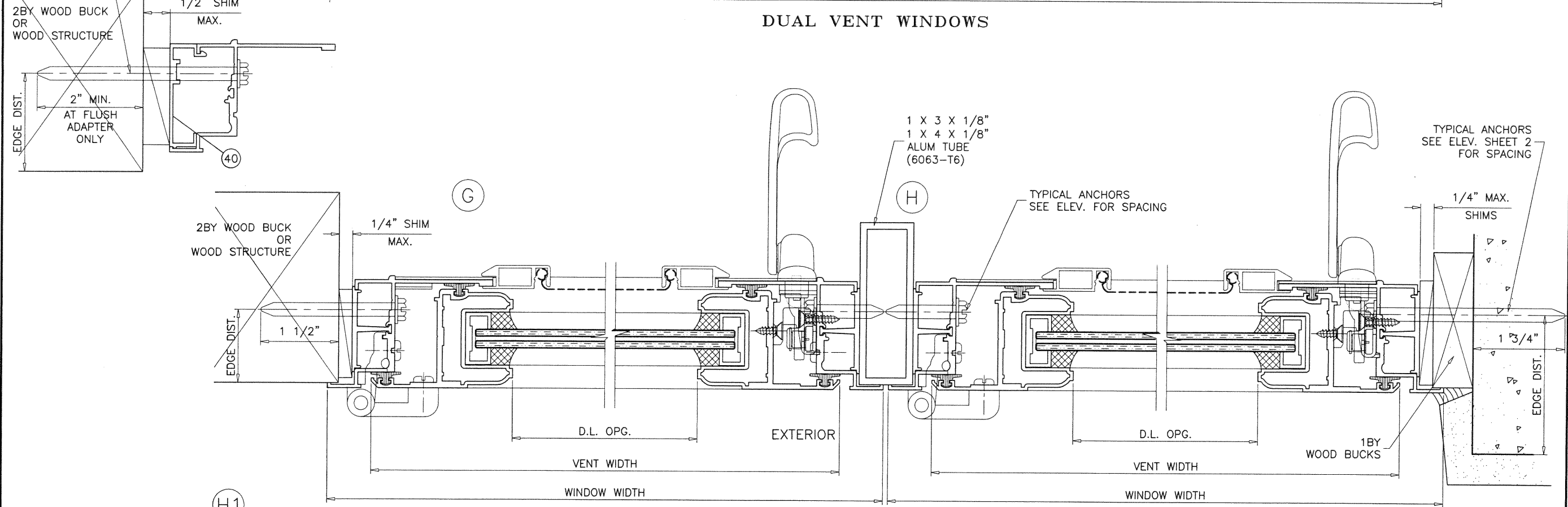
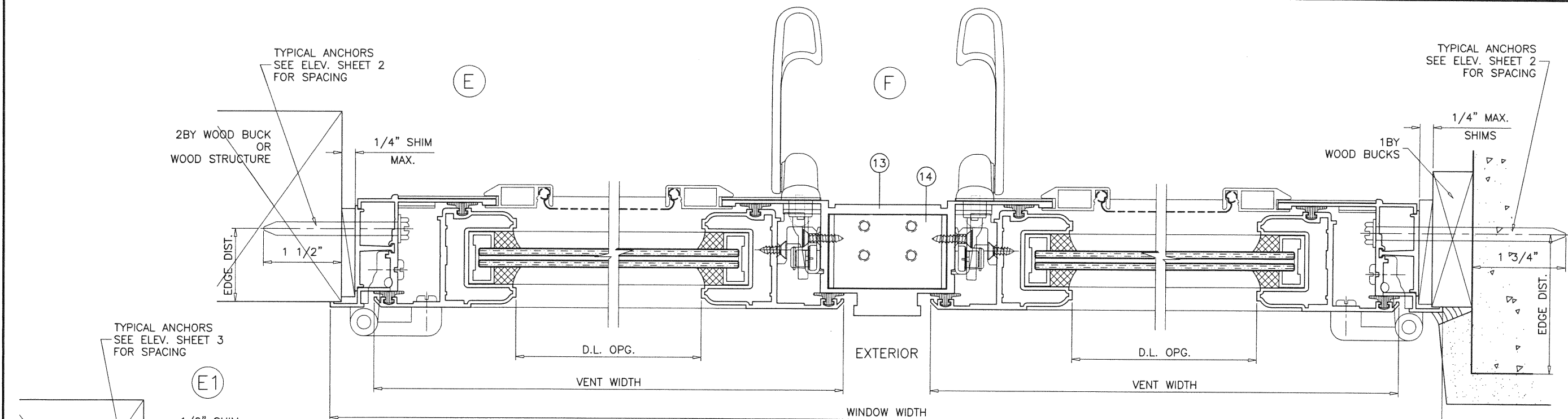
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L	02.28.19		NO CHANGE THIS SHEET
M	11.30.20		UPDATED TO 2020 FBC

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chk. by:

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**W04-16**  
sheet 7 of 11

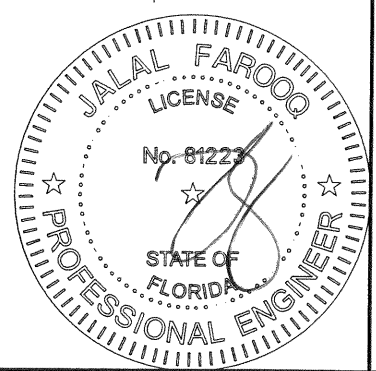
COMP-ANL\W04-16RC



DUAL VENT WINDOWS

SIDE BY SIDE WINDOWS

**PRODUCT REVISED**  
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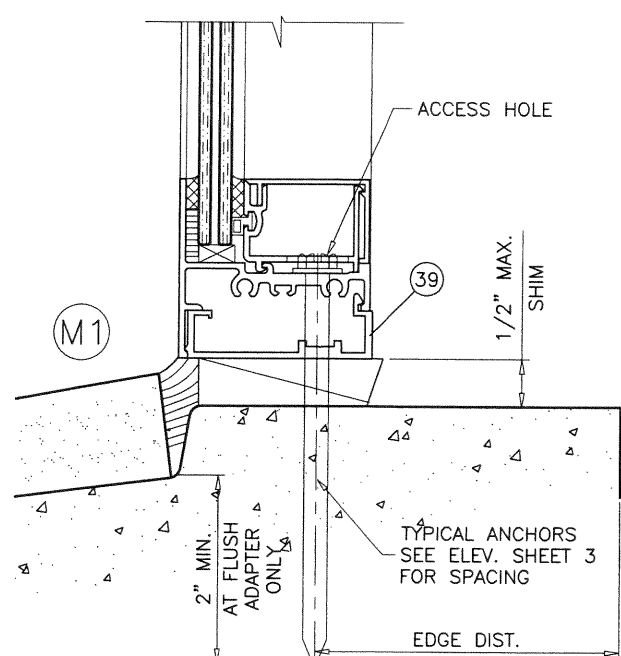
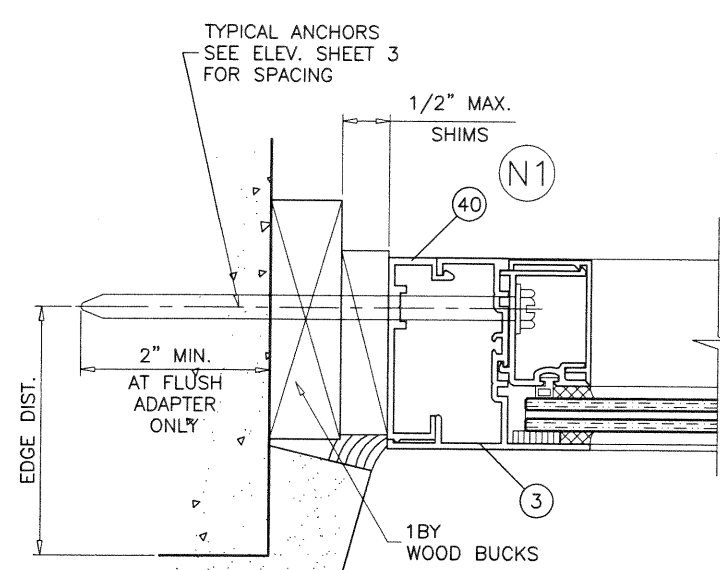
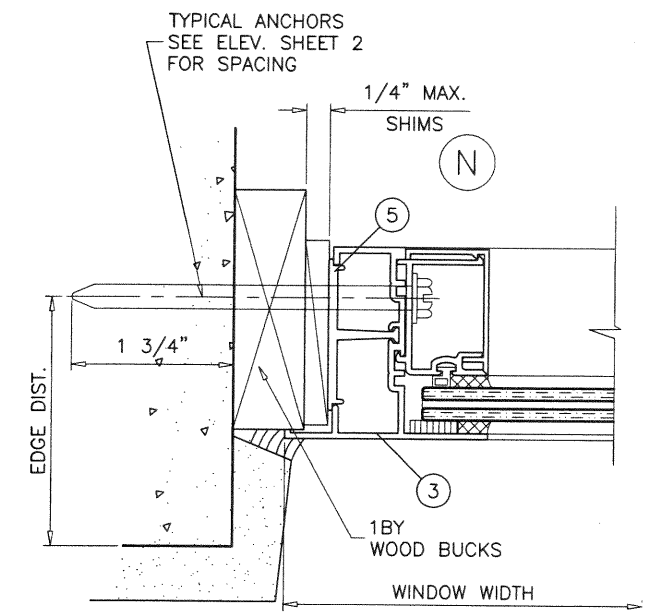
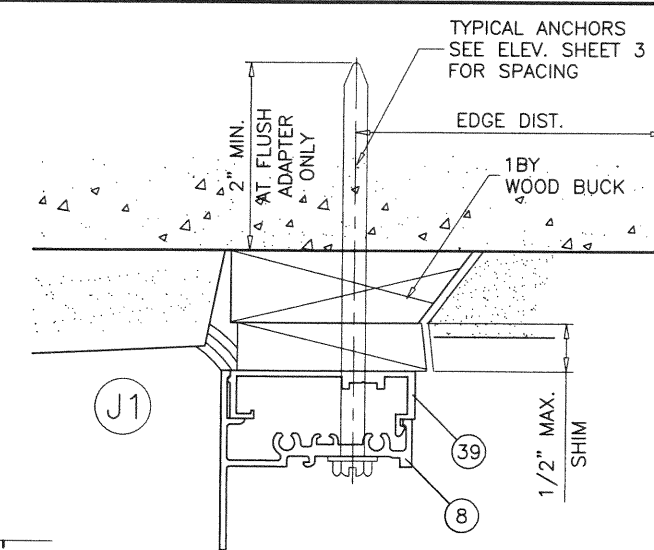
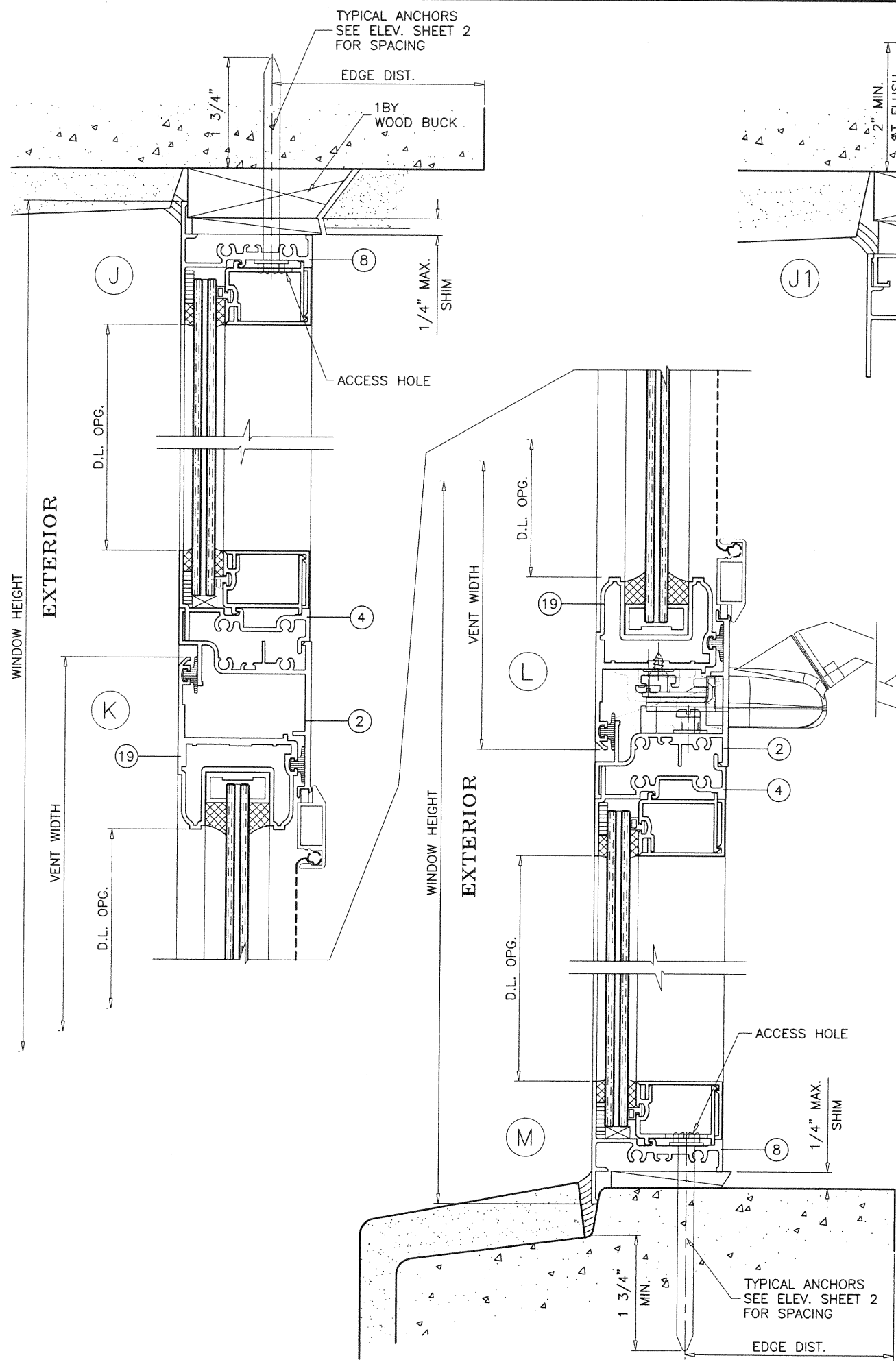
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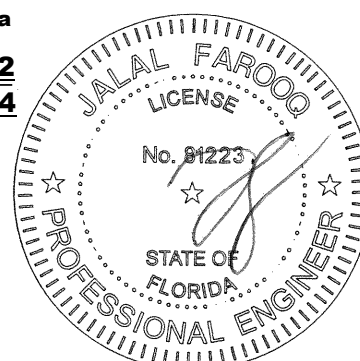
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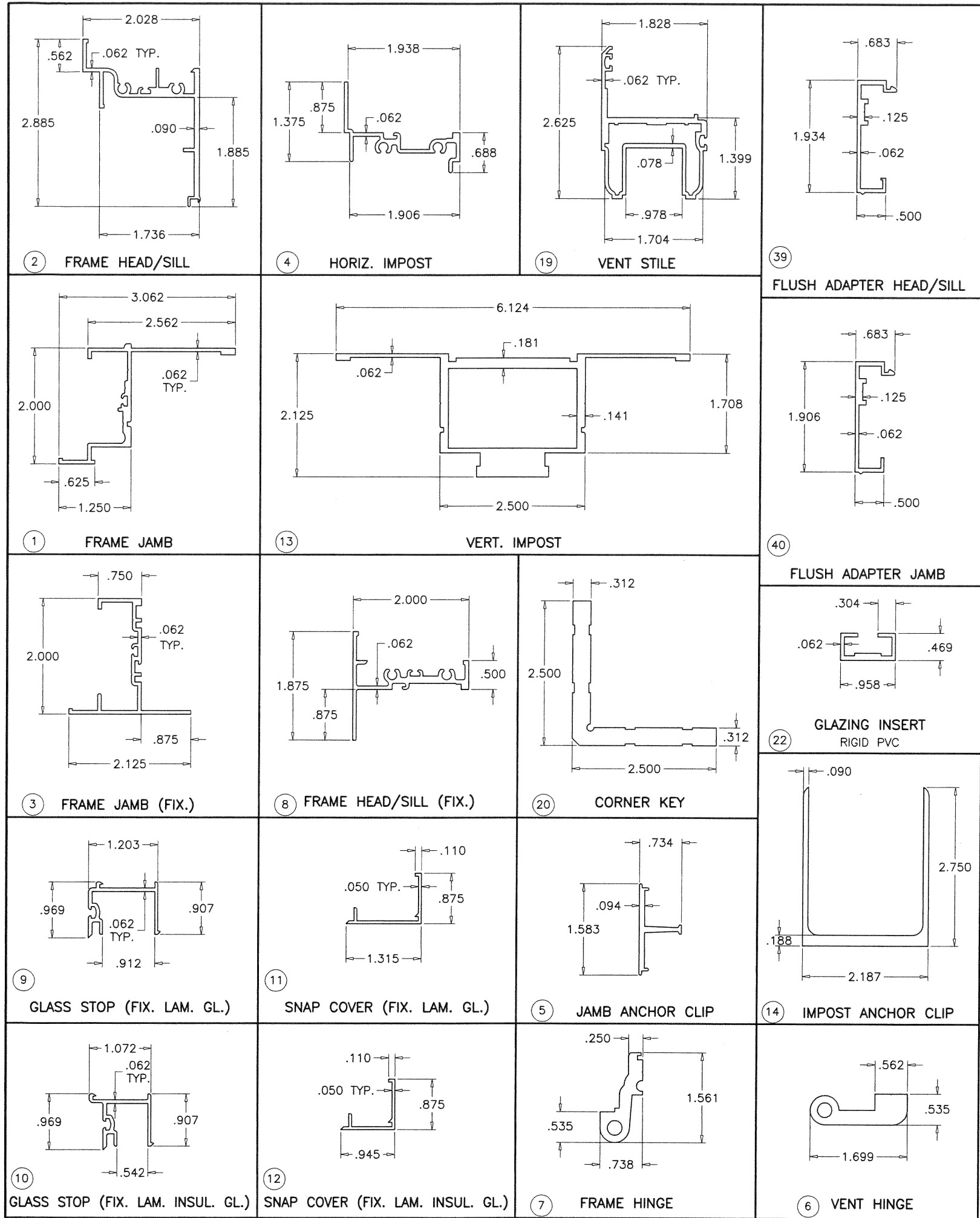
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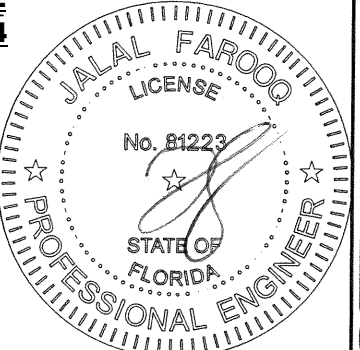
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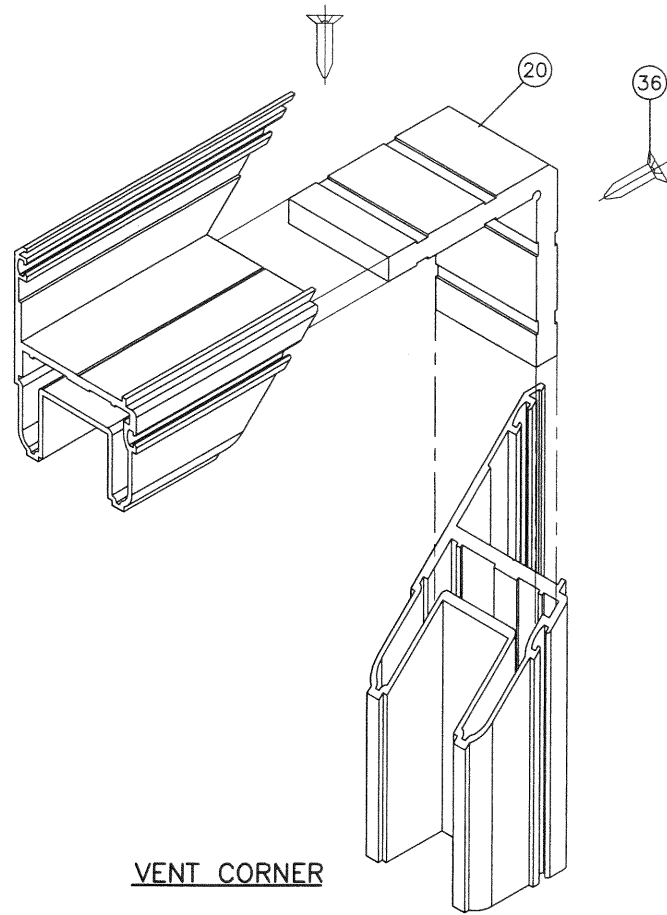
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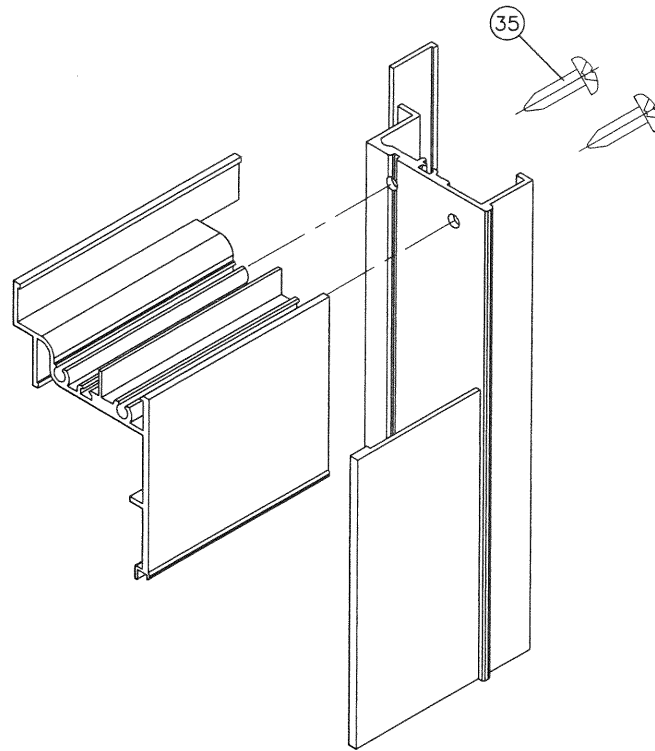
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drawing no. **W04-16**  
sheet 10 of 11

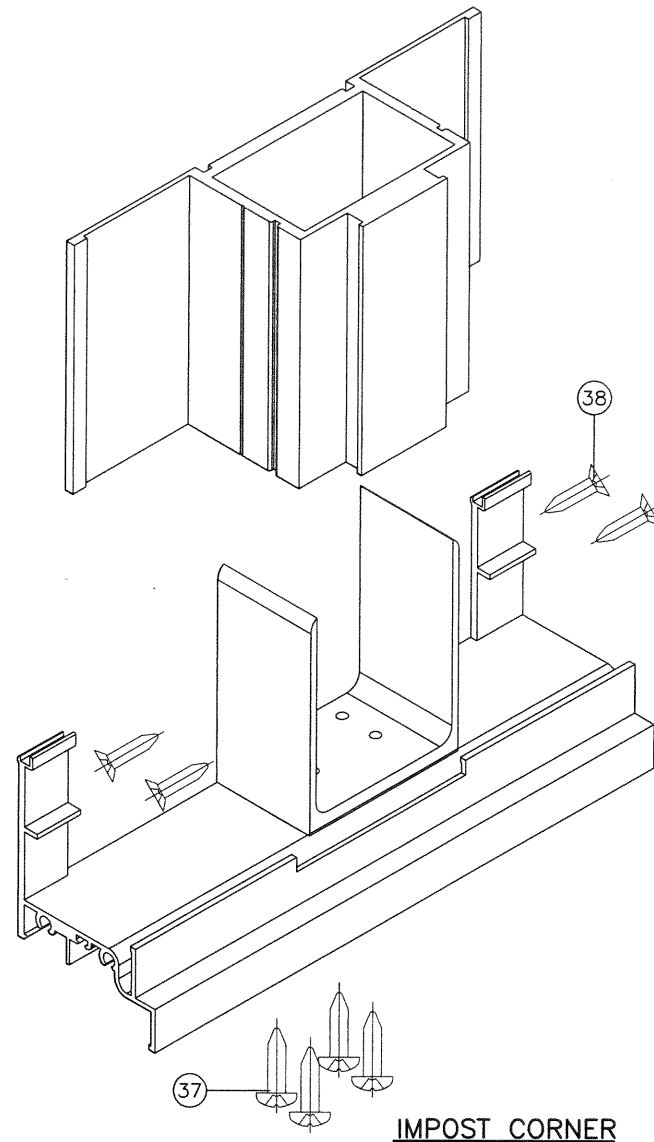




VENT CORNER



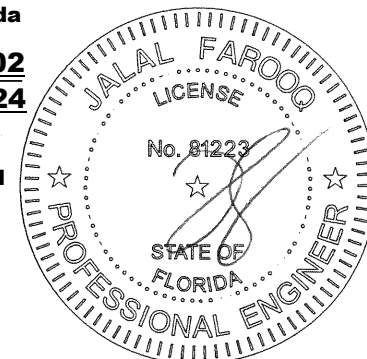
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IMPOST CORNER

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