



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, FL 33175
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Eco Window Systems, LLC
8502 NW 80th Street
Medley, FL 33166

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 "Eco-Guard 50" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-40**, titled "Eco-Guard Series-50 Alum. S.H. Wdw. (L.M.I.)", sheets 1 through 4 of 4, dated 07/18/12, with revision "C" dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Section 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 No. 17-0809.37 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P. E.**



S.Z.
02/11/2021

NOA No. 20-1119.15
Expiration Date: November 21, 2022
Approval Date: February 11, 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. 12-0820.08)*
2. Drawing No. **W12-40**, titled "Eco-Guard Series-50 Alum. S.H. Wdw. (L.M.I.)", sheets 01 through 04 of 04, dated 07/18/12, with revision "A" dated 11/25/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 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, Type "A-A" Window, Grade 10, Level LV 1 per ASTM F 588-07 and per FBC 2411 3.2.1, TAS 202-94
7) Standard Test Methods for Deglazing Force of Fenestration Products per ASTM E 987-88 (2009)
8) Standard Test Methods for Determination of Operating Force of Sliding Windows and Doors per ASTM E 2068-00 (2008)
along with marked-up drawings and installation diagram of a single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6951**, dated 07/02/12, signed and sealed by Marlin D. Brinson, P. E.
(Submitted under NOA No. 12-0820.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)**, dated 07/19/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.
2. **Glazing complies with ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 09/07/17, expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)**, and of no financial interest, dated 07/19/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E



Sifang Zhao, P. E.
Product Control Examiner
NOA No. 20-1119.15
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Eco Window Systems, LLC.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHERS

1. Notice of Acceptance No. **14-1212.02**, issued to Eco Window Systems, LLC for their Series “ECO-Guard 50” Aluminum Single Hung Window – L.M.I., approved on 11/21/12 and expiring on 11/21/17.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W12-40**, titled “Eco-Guard Series-50 Alum. S.H. Wdw. (L.M.I.)”, sheets 1 through 4 of 4, dated 07/18/12, with revision “C” dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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. **20-0915.22** issued to **Kuraray America, Inc.** for their “Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)**, and of no financial interest, dated 11/05/2020, prepared by Al-Farooq Corporation and signed and sealed by Jalal Farooq, P.E.

G. OTHERS

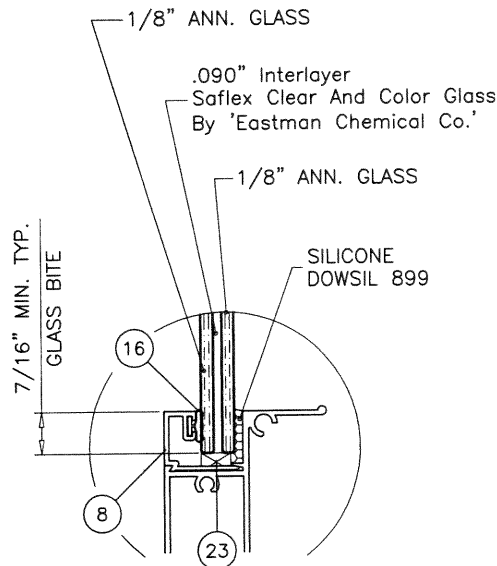
1. Notice of Acceptance No. **17-0809.37**, issued to Eco Window Systems, LLC for their Series “ECO-Guard 50” Aluminum Single Hung Window – L.M.I., approved on 10/26/2017 and expiring on 11/21/22.



Sifang Zhao, P. E.
Product Control Examiner
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DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		5/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
19-1/8"	26"	55.0	60.0
26-1/2"		55.0	60.0
37"		55.0	60.0
44"		55.0	60.0
53-1/8"		55.0	60.0
19-1/8"	38-3/8"	55.0	60.0
26-1/2"		55.0	60.0
37"		55.0	60.0
44"		55.0	60.0
53-1/8"		55.0	60.0
19-1/8"	50-5/8"	55.0	60.0
26-1/2"		55.0	60.0
37"		55.0	60.0
44"		55.0	60.0
53-1/8"		55.0	60.0
19-1/8"	63"	55.0	60.0
26-1/2"		55.0	60.0
37"		55.0	60.0
44"		55.0	60.0
53-1/8"		55.0	60.0
19-1/8"	76"	55.0	60.0
26-1/2"		55.0	60.0
37"		55.0	60.0
44"		55.0	60.0
53-1/8"		55.0	60.0

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



GLAZING DETAIL

ECO-GUARD SERIES-50
ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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.

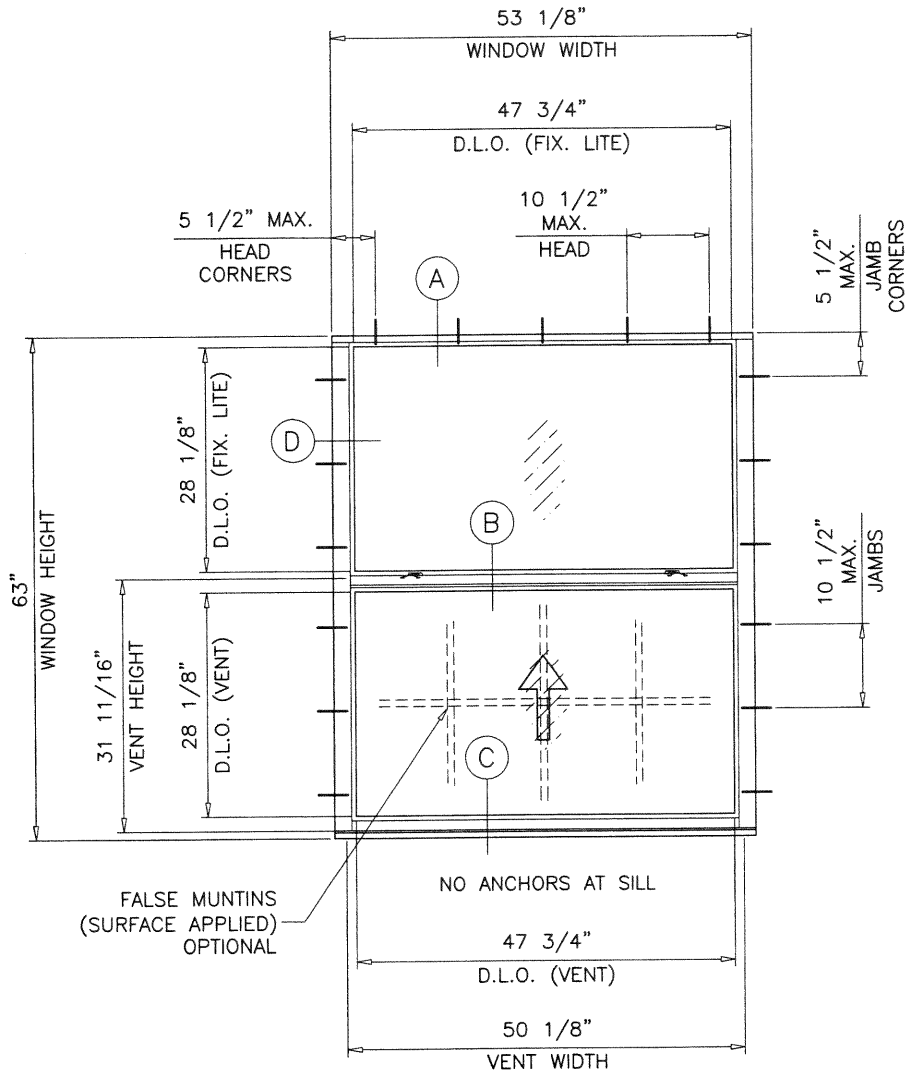
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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.

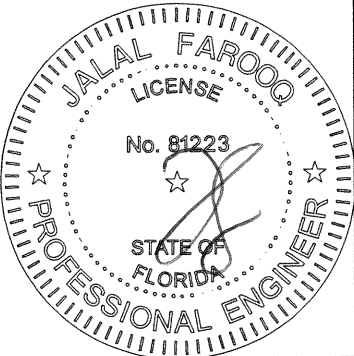
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



TYPICAL ELEVATION
TESTED UNITS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1119.15
Expiration Date 11/21/2022
By [Signature]
Miami-Dade Product Control

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



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

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-40ECO

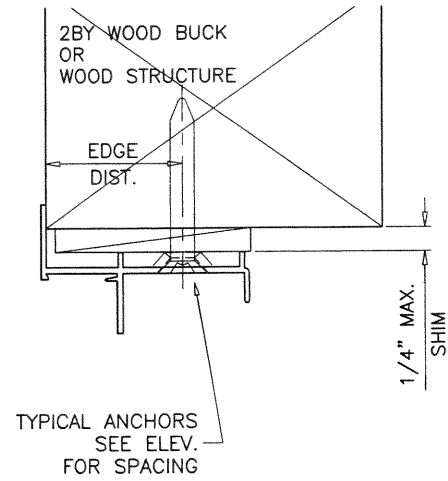
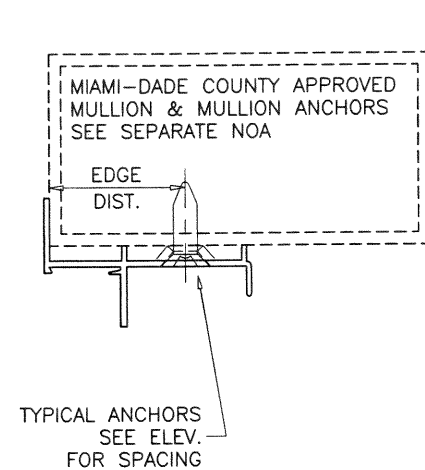
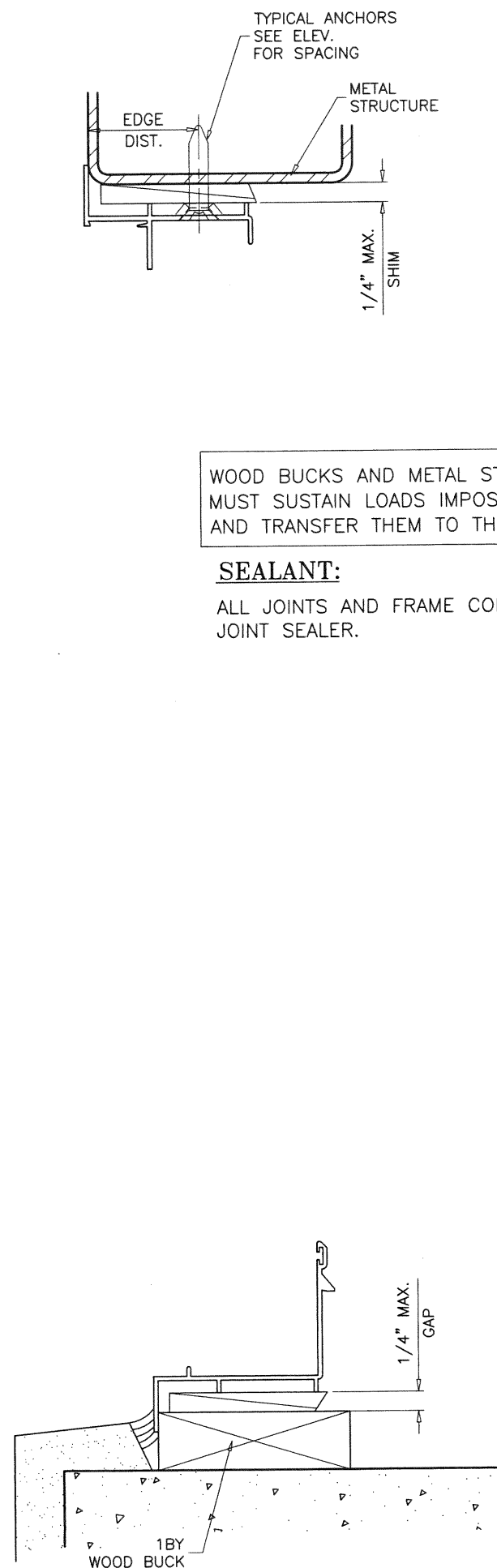
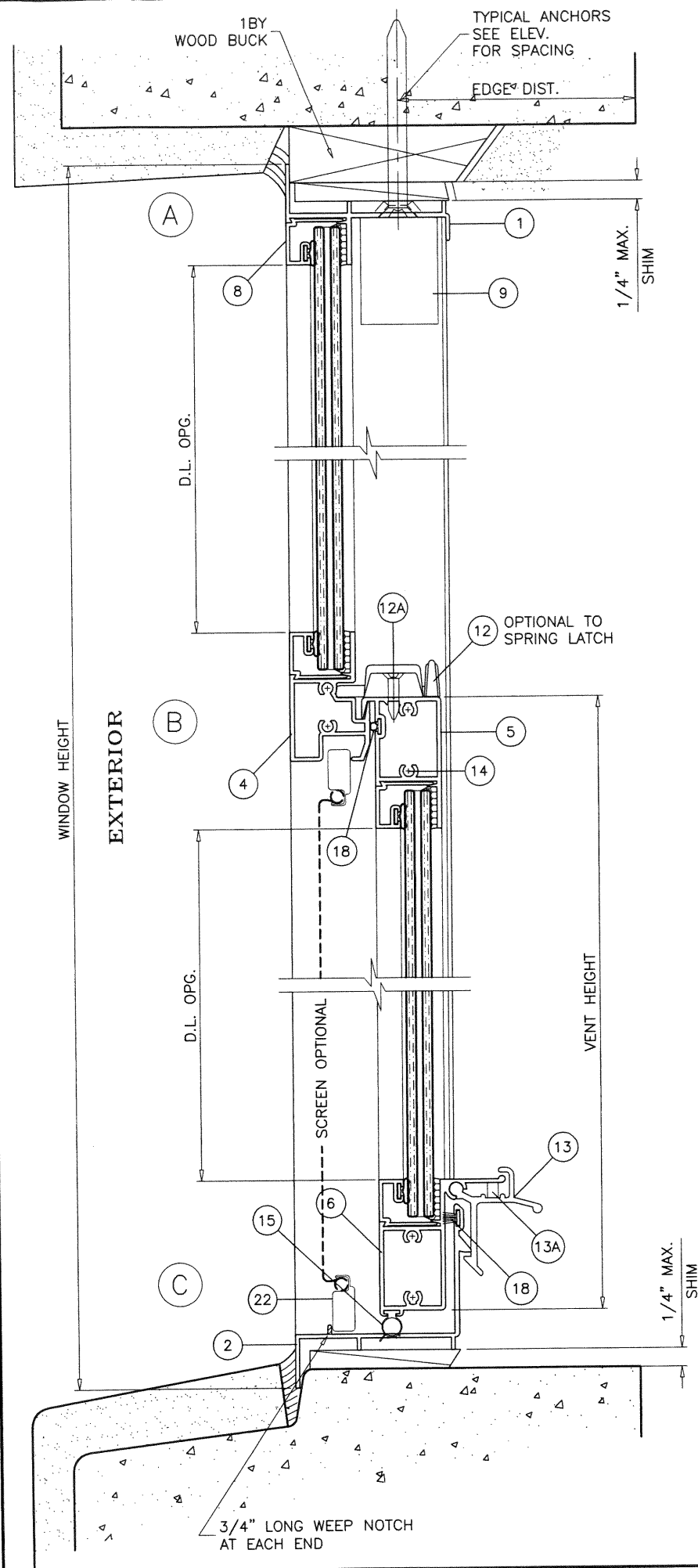
ECO-GUARD SERIES-50 ALUM S.H. WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

no	date	by	description
A	11.25.14		UPDATED TO 2014 FBC
B	07.20.17		UPDATED TO 2017 FBC
C	11.05.20		UPDATED TO 2020 FBC

date: 07-18-12	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
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drawing no.
W12-40

sheet 1 of 4



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

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY 'ITW' ($F_u=125$ KSI, $F_y=100$ KSI)

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

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

INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ 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. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIM SPACE)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.) (NO SHIM SPACE)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

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

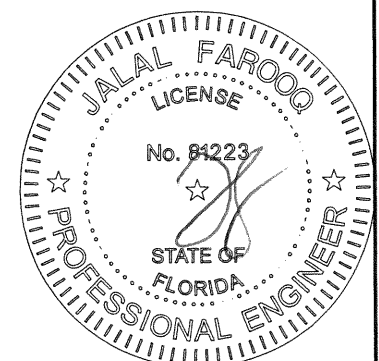
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD OR JAMBS $f'_c = 3000$ PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-1119.15**

Expiration Date **11/21/2022**

By
Miami-Dade Product Control

REV 1 0 2020



ECO-GUARD SERIES-50 ALUM S.H. WDW. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

8502 N.W. 80th STREET
MEDLEY, FL. 33166

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revisions:

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date: 07-18-12

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.

W12-40

sheet 2 of 4

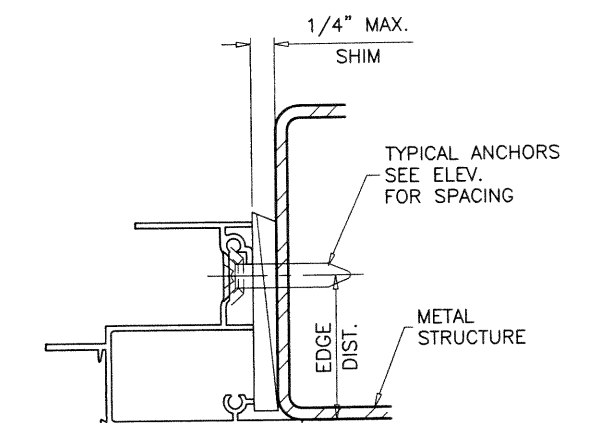
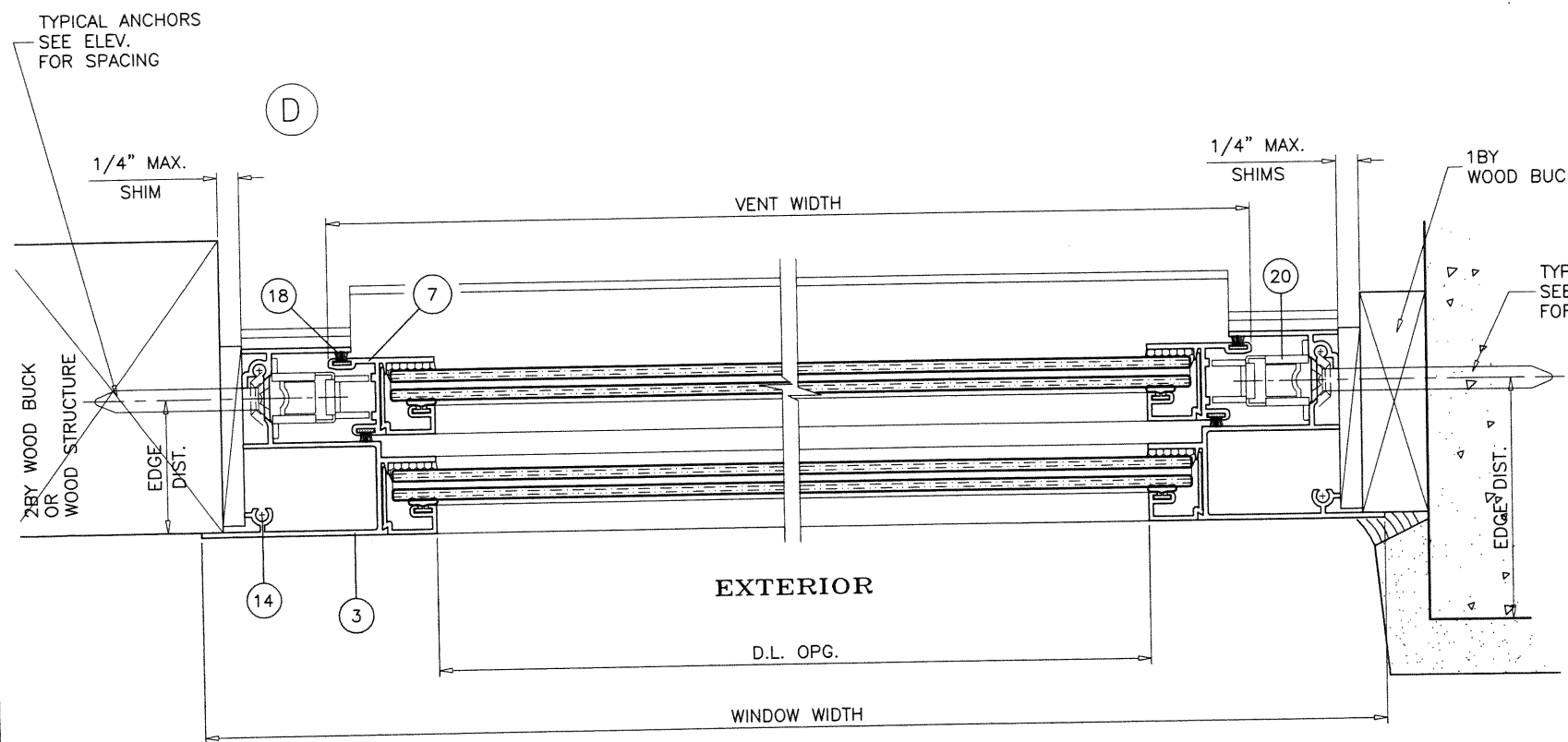
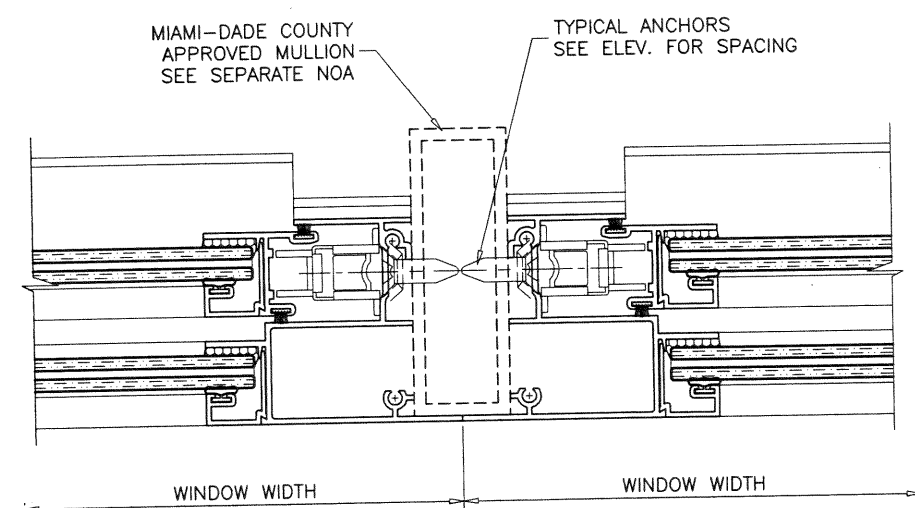
AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)

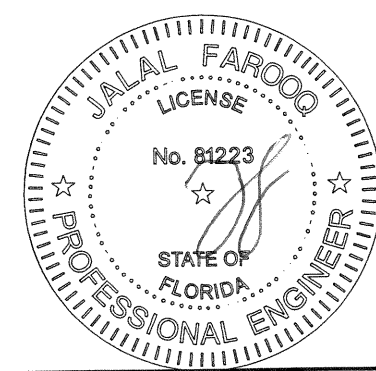
TEL. (305) 264-8100 FAX (305) 262-6978

COMP-ANL W12-40ECO



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E51	1	FRAME HEAD	6063-T6	-
2	E52	1	FRAME SILL	6063-T6	-
3	E53	2	FRAME JAMB	6063-T6	-
4	E54	1	FIXED MTG. RAIL	6063-T6	-
5	E55	1	VENT TOP RAIL	6063-T6	-
6	E56	1	VENT BOTTOM RAIL	6063-T6	-
7	E57	2	VENT SIDE RAIL	6063-T6	-
8	E58	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
9	E59	2/VENT	SASH STOP	6063-T5	-
12	SL203P	2/VENT	SWEEP LATCH	ZAMAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
13	FY-113	2/ VENT	SPRING LOADED LATCH	6063-T6	ALTERNATE TO SWEEP LATCH
13A	-	1/ LATCH	LATCH SPRING	ST. STEEL	-
14	#8 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
15	E207	AS REQD.	BOTTOM RAIL SEAL - SERIES 101	NEOPRENE	ULTRAFAB
16	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
18	W23181	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
20	-	2/ VENT	BLOCK AND TACKLE BALANCE	-	-
21	E60	2/ VENT	SASH CAM	NYLON	-
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 85±5 SHORE A

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By *[Signature]*
Miami-Dade Product Control



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COMP - ANL \ W12 - 40ECO

ECO-GUARD SERIES-50 ALUM S.H. WDW. (L.M.I.)

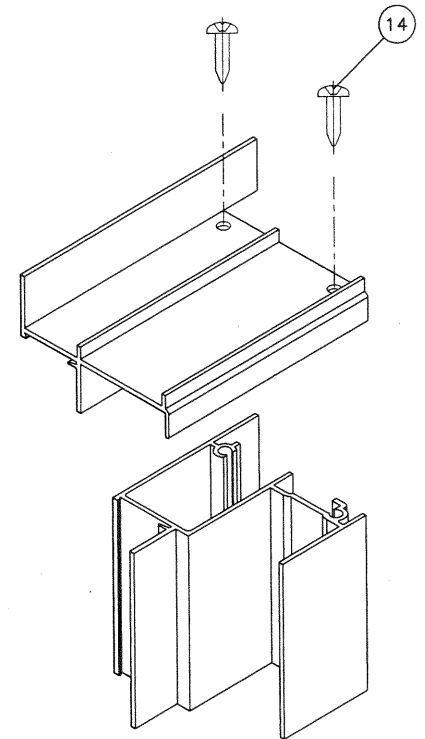
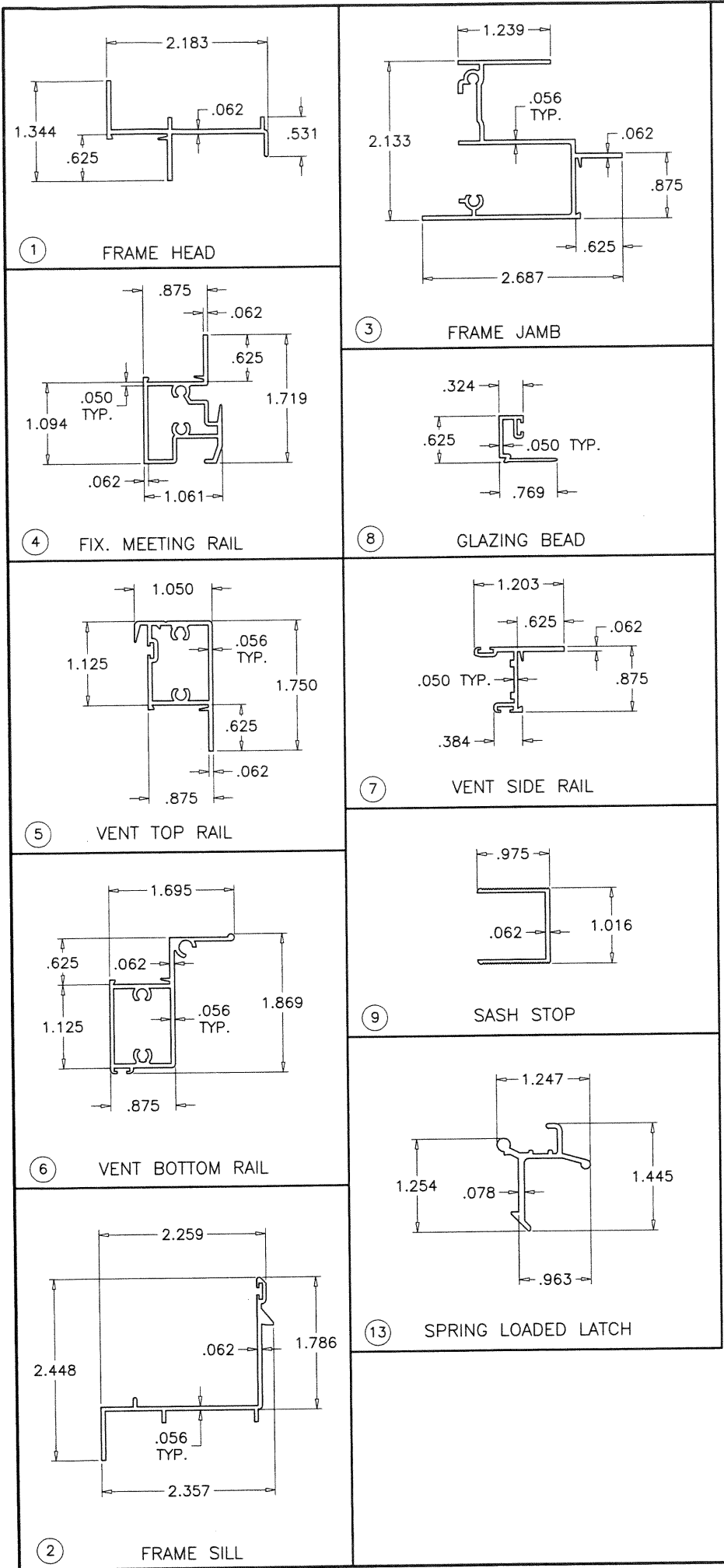
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revisions:

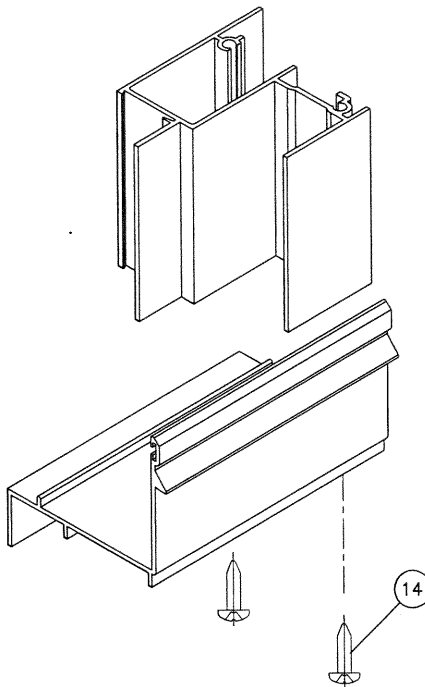
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chk. by:

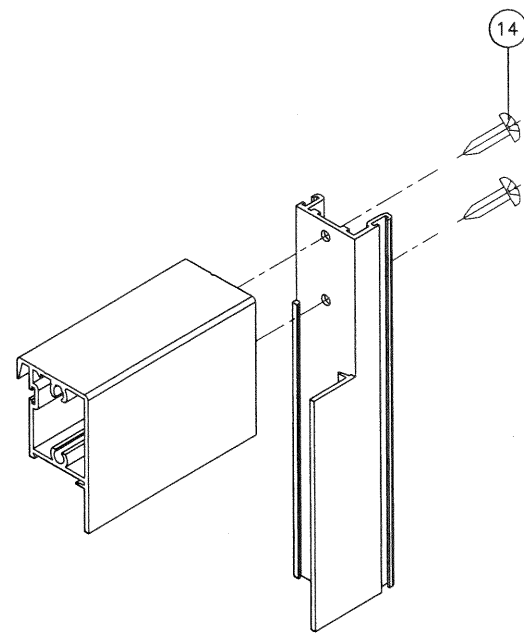
drawing no.
W12-40
sheet 3 of 4



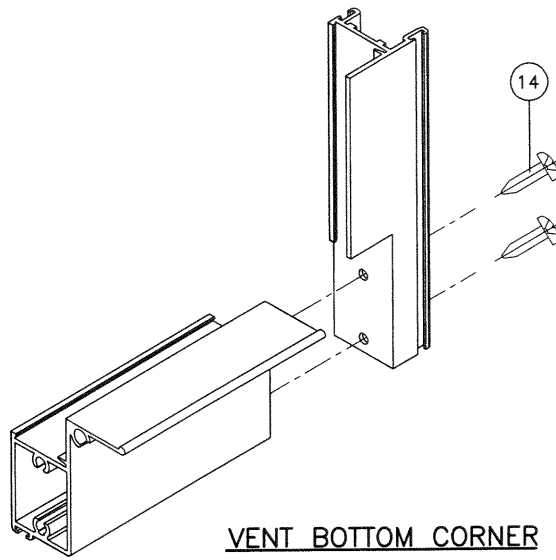
FRAME TOP CORNER



FRAME BOTTOM CORNER



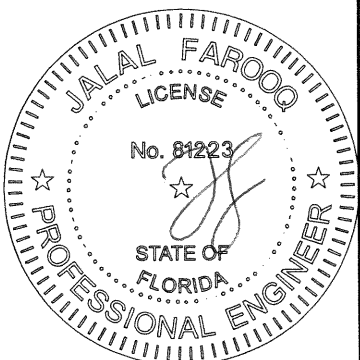
VENT TOP CORNER



VENT BOTTOM CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-1119.15**
Expiration Date **11/21/2022**
By **Miami-Dade Product Control**

NOV 10 2020



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

ECO-GUARD SERIES-50 ALUM S.H. WDW. (L.M.I.)

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no	date	description
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date: 07-18-12

scale: 1/2" = 1"

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chk. by:

drawing no. **W12-40**

sheet 4 of 4