



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

www.miamidade.gov/economy

Eco Window Systems, LLC
8502 NW 80 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 "150" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W18-49D**, titled "Series-150 Alum. S.H. Wdw. (L.M.I.)", sheets 1 through 8 of 8, dated 04/23/18, with revision "A" dated 06/05/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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



S.2.
06/28/2018

NOA No. 18-0503.01
Expiration Date: July 05, 2023
Approval Date: July 05, 2018
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W18-49D**, titled "Series-150 Alum. S.H. Wdw. (L.M.I.)", sheets 1 through 8 of 8, dated 04/23/18, with revision "A" dated 06/05/18, 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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagrams of 53 1/8" wide x 96" high and 53 1/8" wide x 76" high (LMI), Series 150 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-9886**, dated 02/08/18, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-6th Edition (2017)**, dated 03/23/18, 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. NOA 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. NOA 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.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-6th Edition (2017)**, and of no financial interest, dated March 30, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

G. OTHERS

1. None.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 18-0503.01
Expiration Date: July 05, 2023
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THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

SERIES-150 (L.M.I.)
ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHART SHOWN ON SHEET 3.

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) 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.

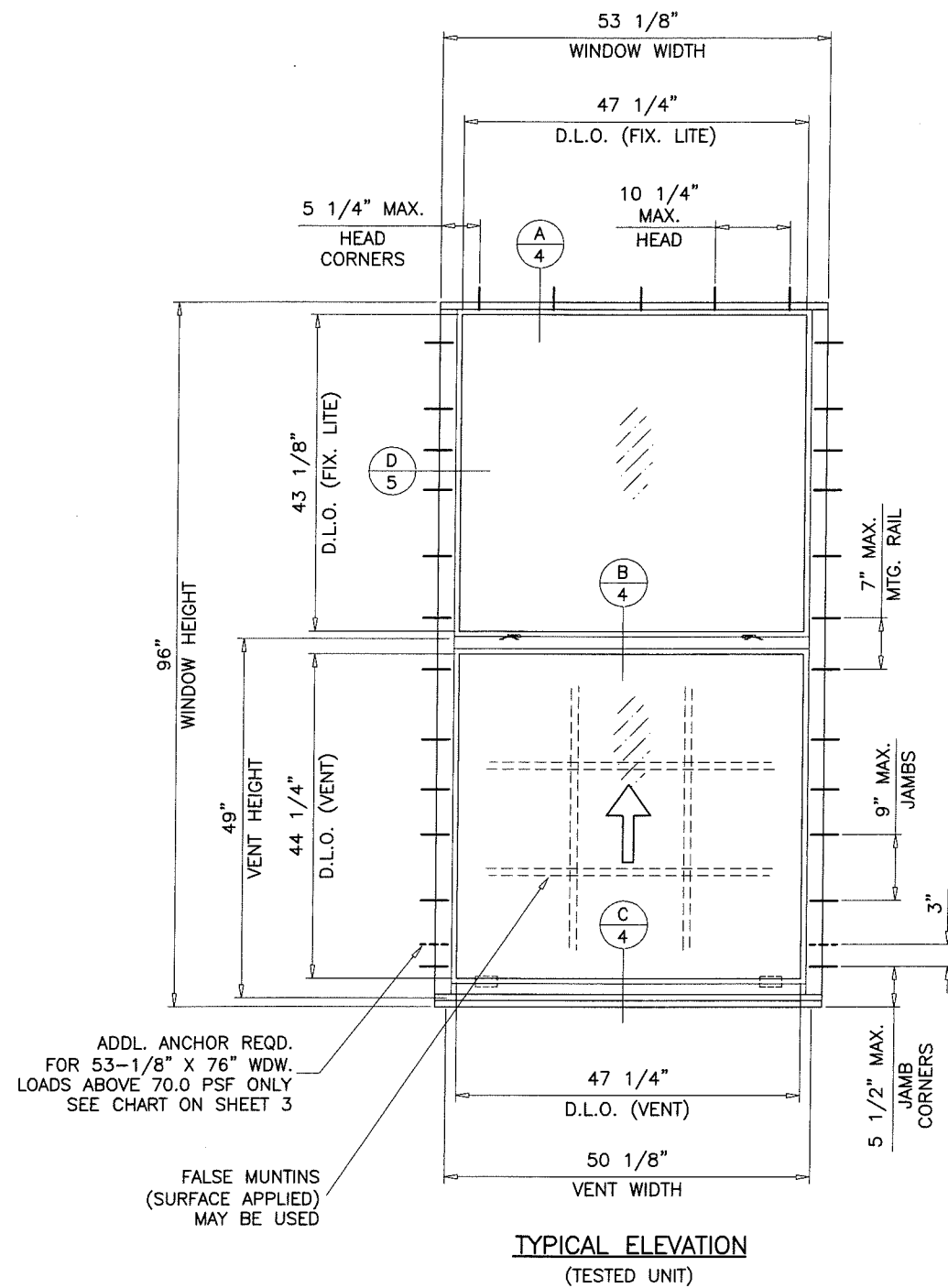
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 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.

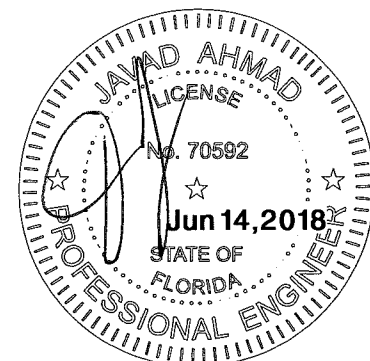
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.



LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Approved as complying with the
Florida Building Code
Date 07/05/2018
NOA# 18-0503.01
Miami Dade Product Control

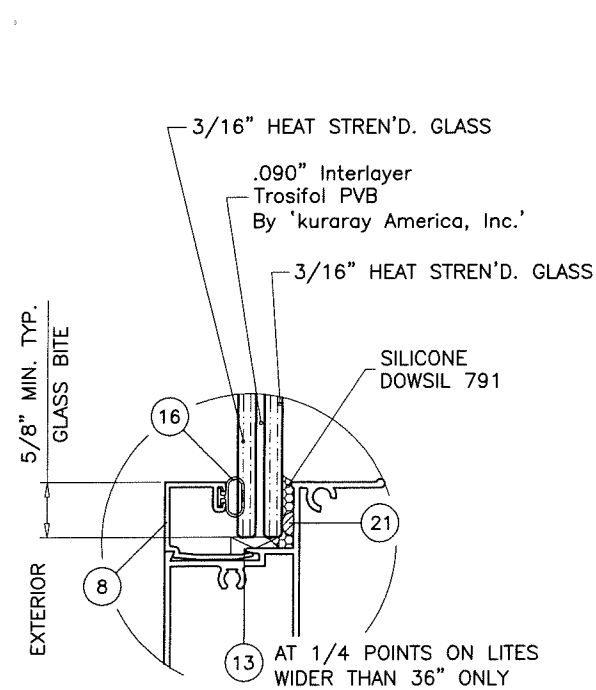
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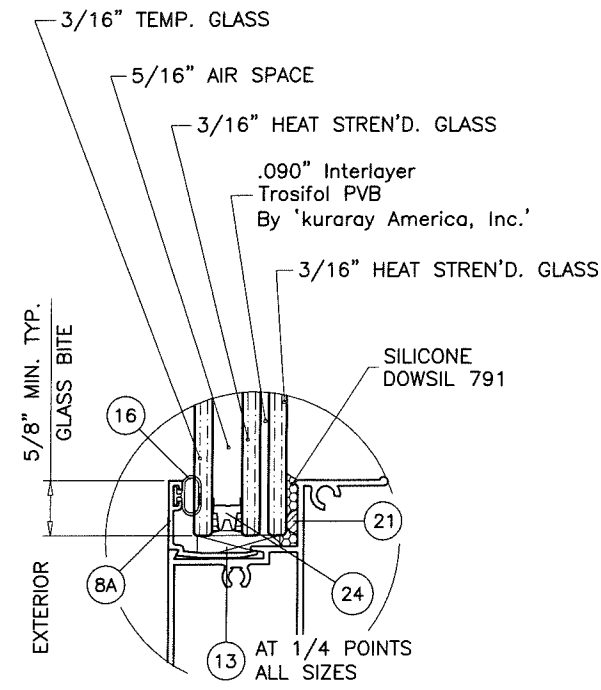
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-49D-ECO

SERIES-150 ALUM SINGLE HUNG WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
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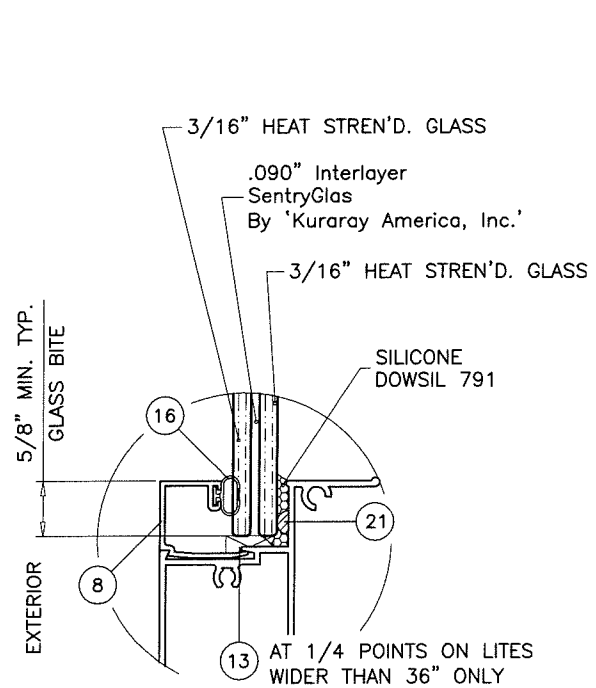
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no	date	date	REV. PER RER COMMENTS
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date:	04-23-18	scale:	1/2" = 1'-0"
dr. by:	TARIQ	chk. by:	
drawing no.	18-49D	sheet	1 of 8



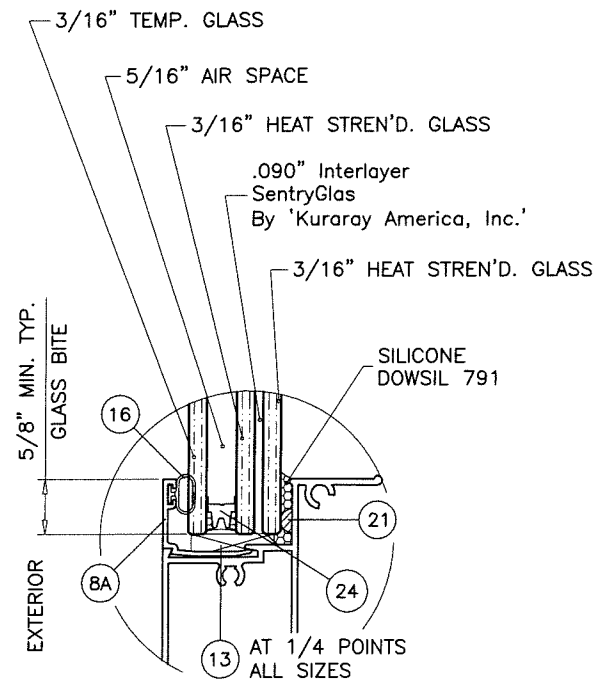
GLASS TYPE 'G1'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'G2'
15/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'G3'
7/16" OVERALL LAM. GLASS

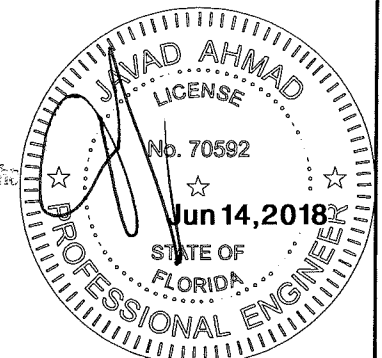


GLASS TYPE 'G4'
15/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

Approved as complying with the
Florida Building Code
Date 01/05/2018
NOA# 18-0503.01
Miami Dade Product Control

By [Signature]

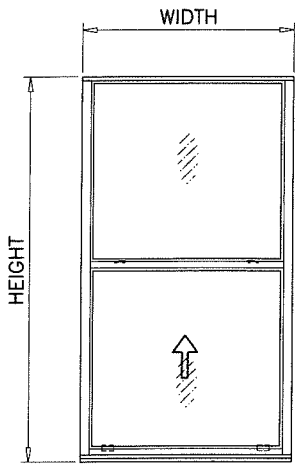


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revisions:		no	date	by	description
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date:	04-23-18	scale:	1/2" = 1"	dr. by:	TARIQ
		chk. by:			
drawing no.		18-49D			
sheet		2 of 8			

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPES 'G1' & 'G2'		GLASS TYPES 'G3' & 'G4'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	38-3/8" (4)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	80.0	120.0
19-1/8"	50-5/8" (6)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	80.0	120.0
19-1/8"	63" (6)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	80.0	120.0
19-1/8"	76" (8)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	80.0	120.0 *
19-1/8"	84" (10)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	-	-
19-1/8"	96" (12)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	-	-
53-1/8"		70.0	70.0	-	-



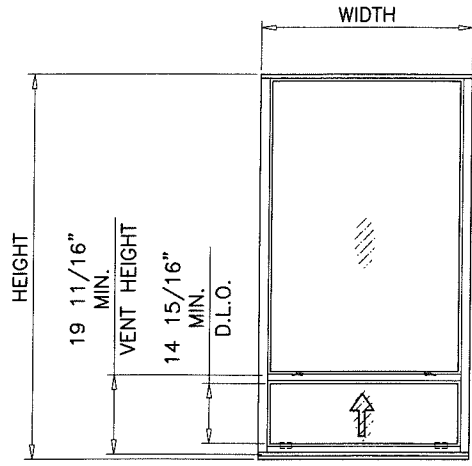
EQUAL LITES

* ADDL. ANCHOR REQD. AT SILL ENDS FOR THIS SIZE AND LOAD ONLY.

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

UNEQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPES 'G1' & 'G2'		GLASS TYPES 'G3' & 'G4'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	38-3/8" (4)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	80.0	120.0
19-1/8"	50-5/8" (6)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	80.0	120.0
53-1/8"		70.0	70.0	80.0	120.0
19-1/8"	63" (6)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	80.0	120.0
48"		70.0	70.0	-	-
53-1/8"		70.0	70.0	-	-
19-1/8"	76" (8)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	-	-
48"		70.0	70.0	-	-
53-1/8"		70.0	70.0	-	-
19-1/8"	84" (10)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	80.0	120.0
30"		70.0	70.0	80.0	120.0
42"		70.0	70.0	-	-
48"		70.0	70.0	-	-
53-1/8"		70.0	70.0	-	-
19-1/8"	96" (12)	70.0	70.0	80.0	120.0
26-1/2"		70.0	70.0	-	-
30"		70.0	70.0	-	-
42"		70.0	70.0	-	-
48"		70.0	70.0	-	-
53-1/8"		70.0	70.0	-	-

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

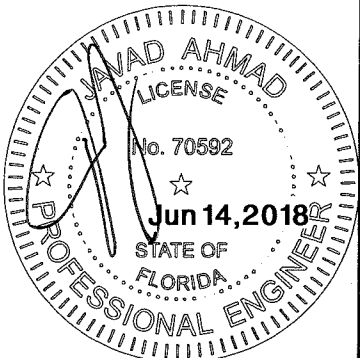


UNEQUAL LITES (ORIEL TYPE)

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

Approved as complying with the
Florida Building Code
Date 07/05/2018
NOAH 10-0523.01
Miami Dade Product Control

By [Signature]



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

SERIES-150 ALUM SINGLE HUNG WDW. (L.M.I.)

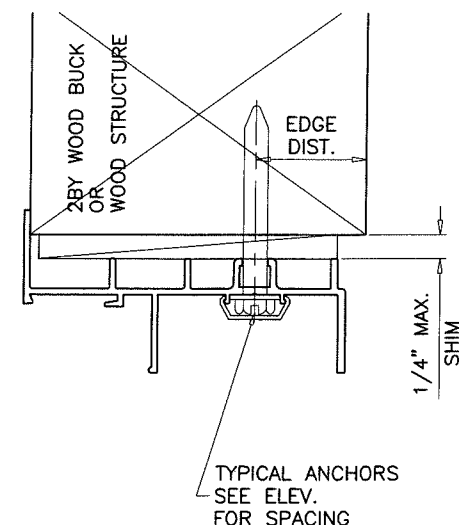
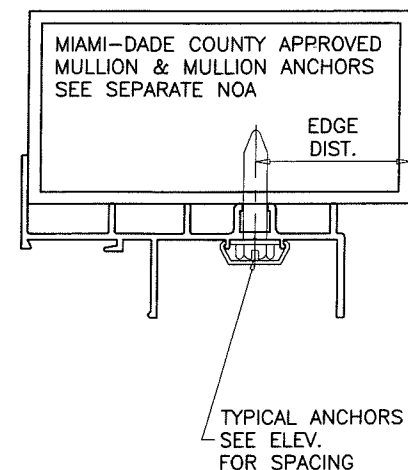
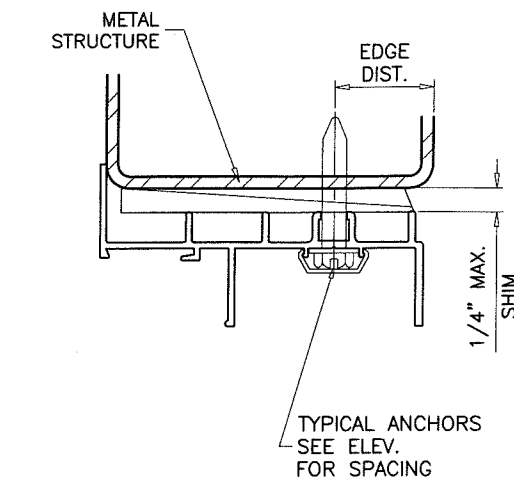
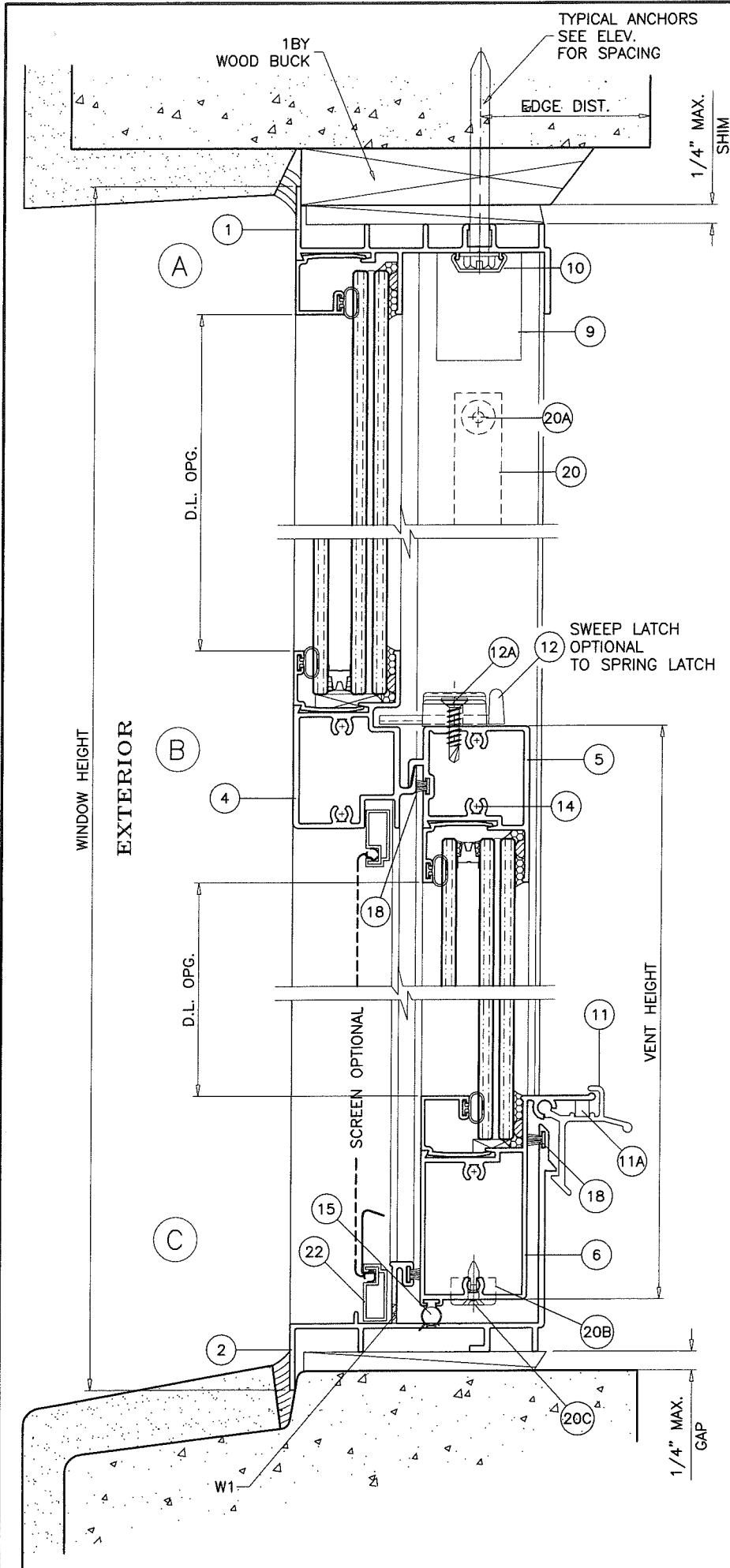
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revisions:
no. date by description
A 06.05.18 REV. PER RER COMMENTS

date: 04-23-18
scale: -
dr. by: TARIQ
chk. by:

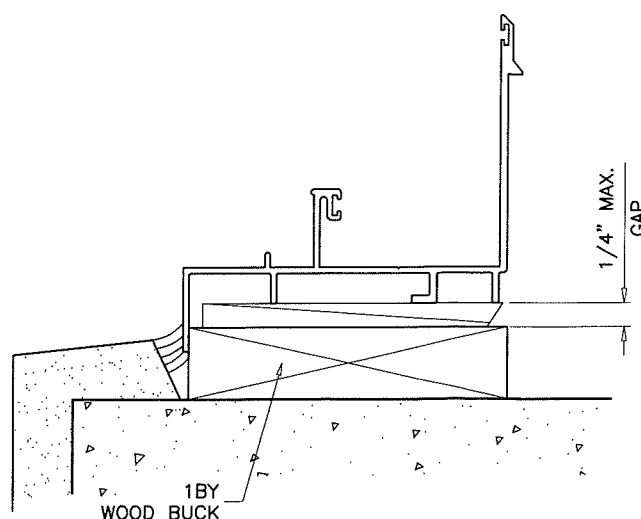
drawing no.
18-49D
sheet 3 of 8

COMP-ANL\18-49D-ECO



WEEPHOLES:

W1 = 1/4" X 3/4" WEEPHOLES AT 12-1/2" FROM EACH END



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD (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)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

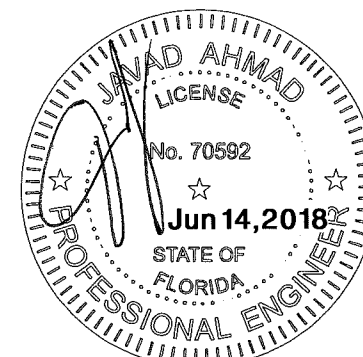
INTO WOOD STRUCTURE = 1" MIN.

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.

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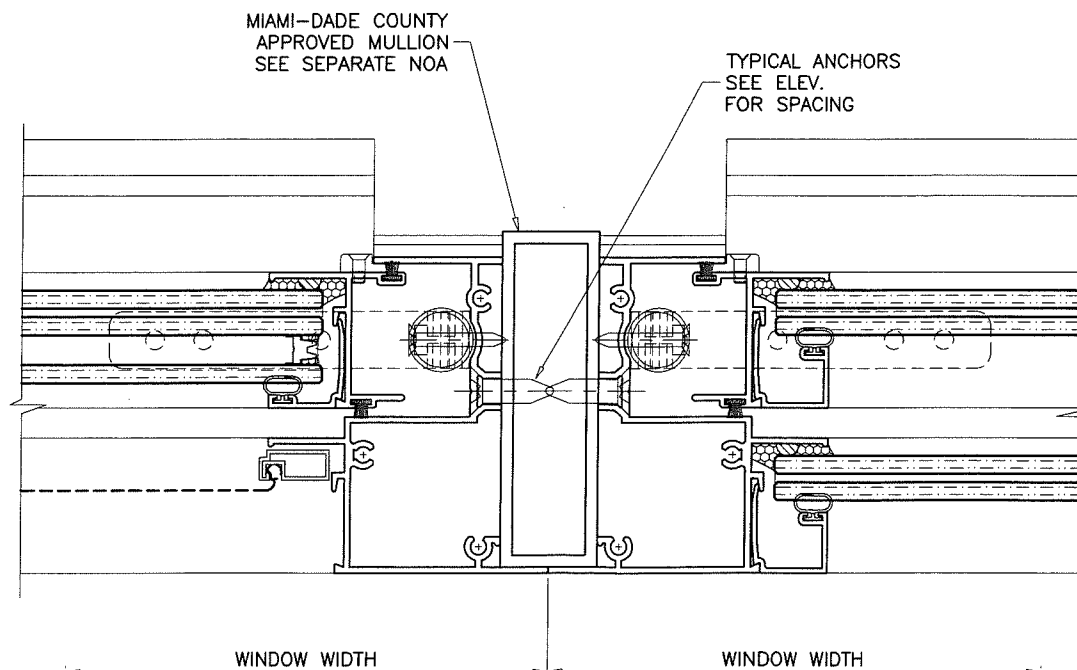
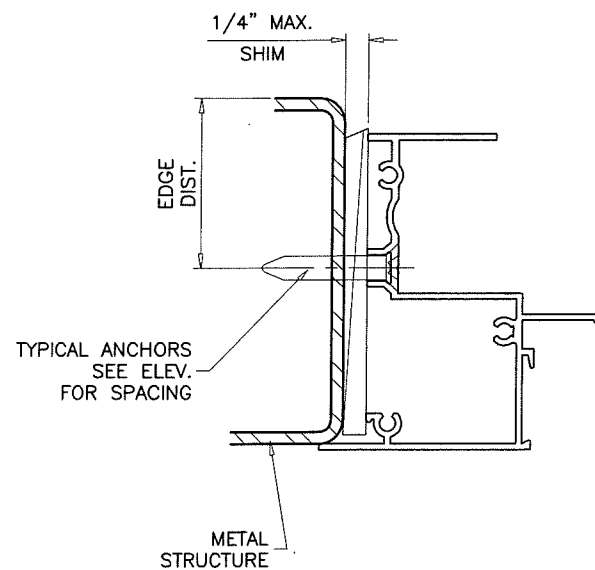
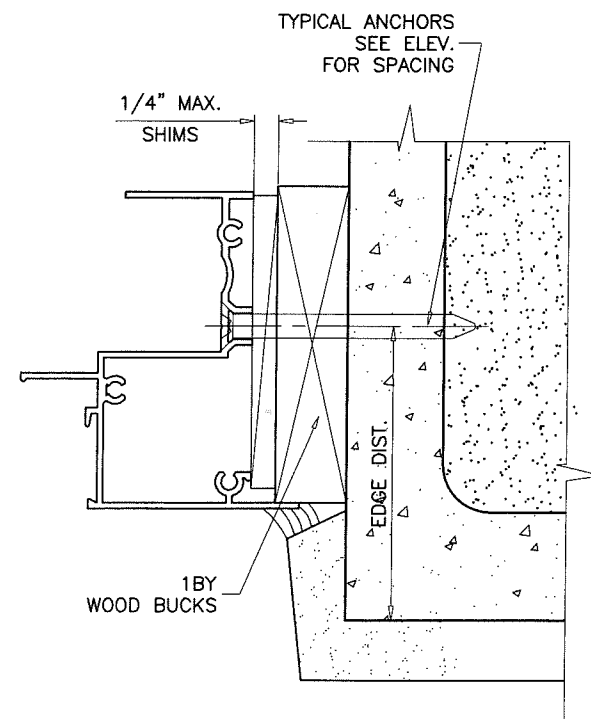
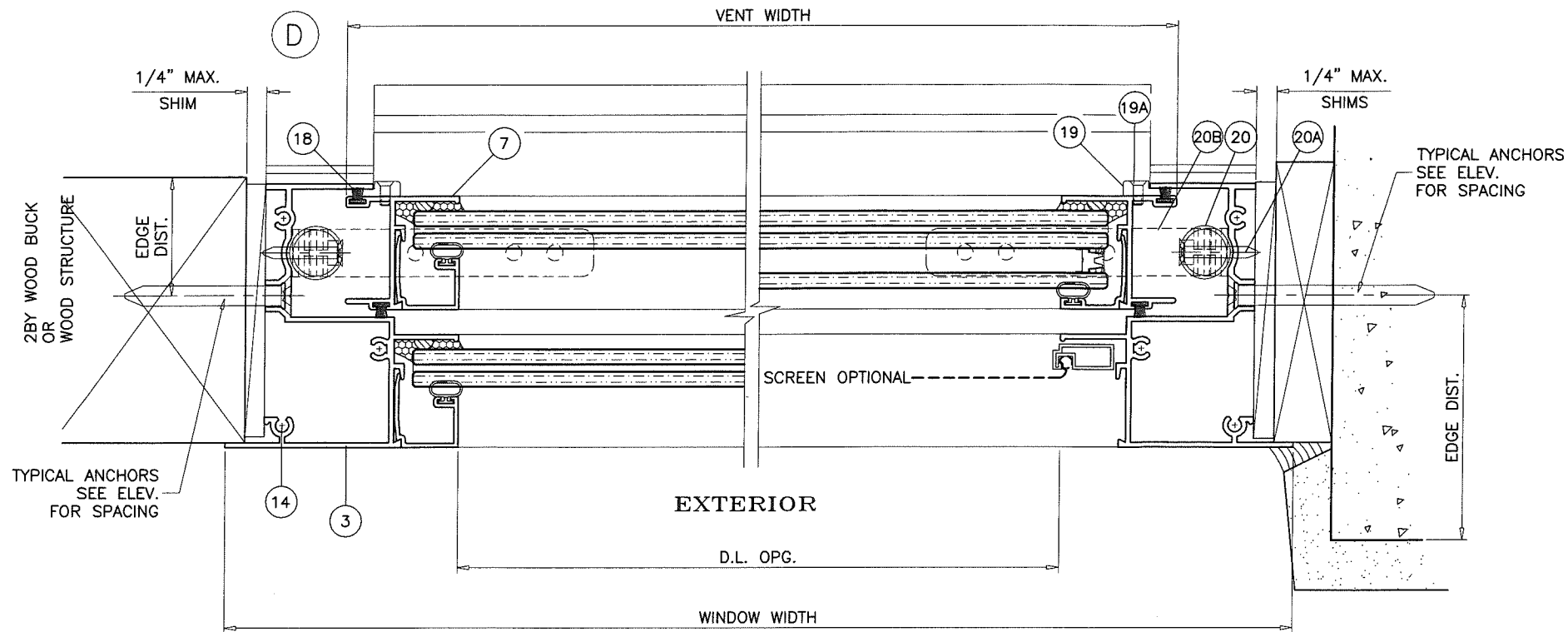
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revisions:	no	date	by	description
	A	06.05.18		NO CHANGE THIS SHEET
date:	04-23-18			
scale:	1/2" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	18-49D			
sheet	4 of 8			



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drawing no.

18-49D

sheet 5 of 8

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

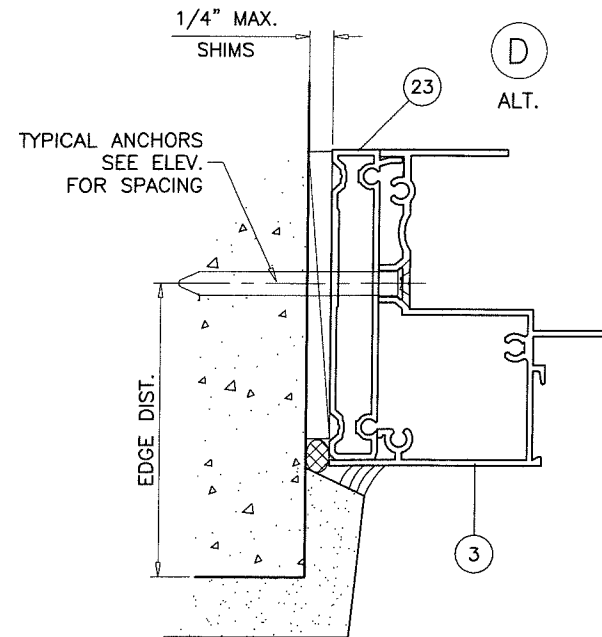
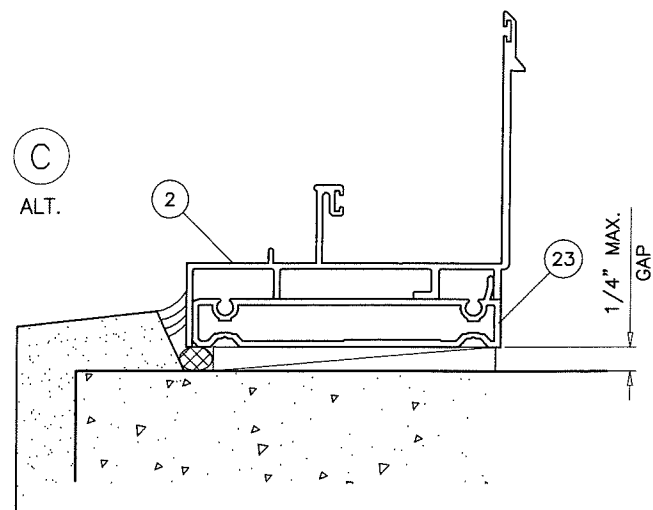
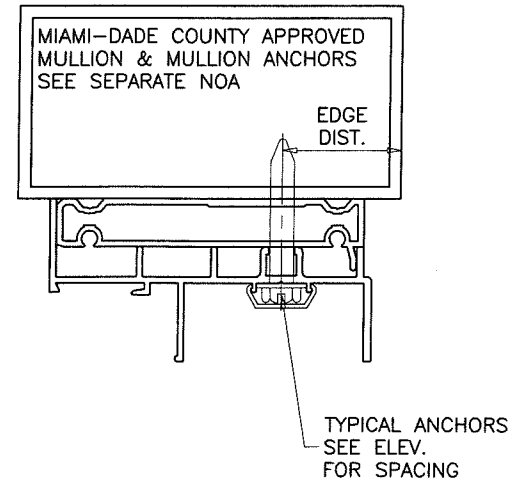
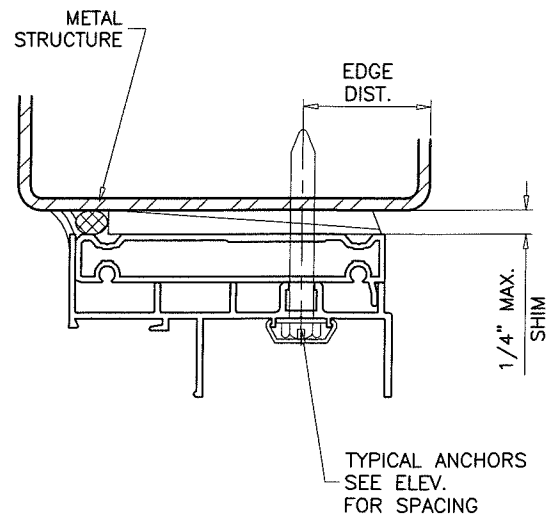
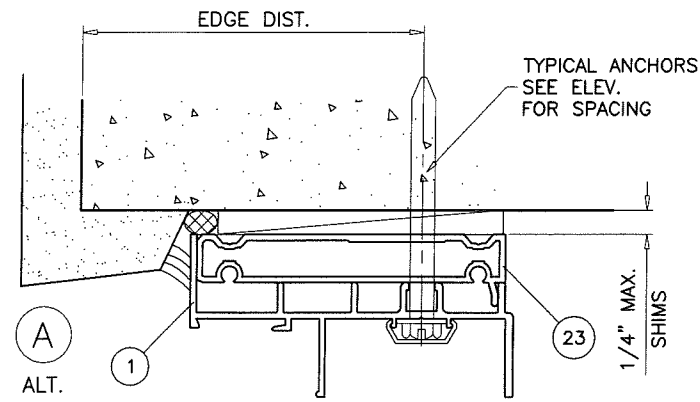
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(C.A.N. 3538)

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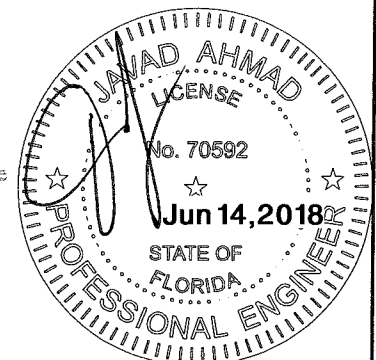
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER
SEE SHEETS 4 & 5 FOR WINDOW DETAILS

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Date 07/05/2018
NOA# 18-0503.01
Miami Dade Product Control

By [Signature]

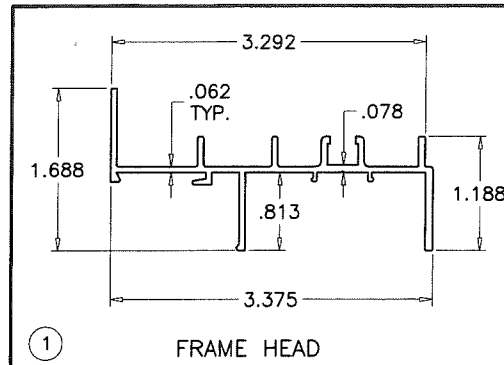


AL-FAROOQ CORPORATION
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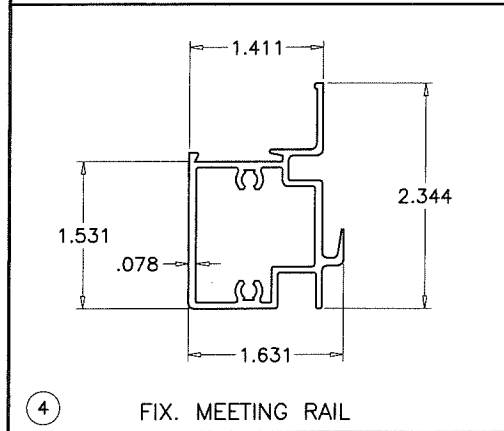
SERIES-150 ALUM SINGLE HUNG WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL (305) 885-5299 FAX (305) 885-5902

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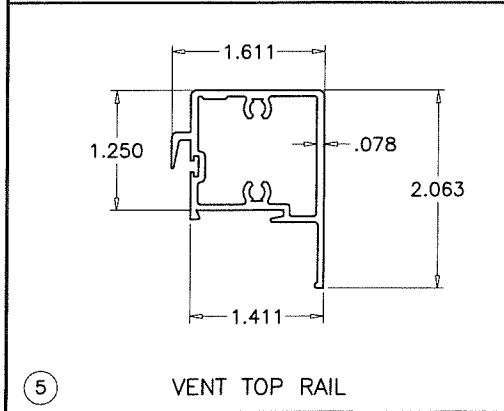
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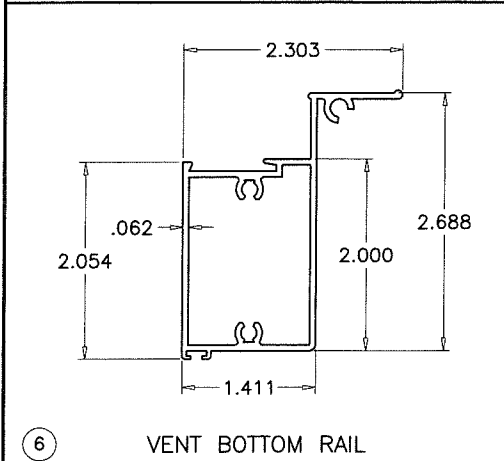
① FRAME HEAD



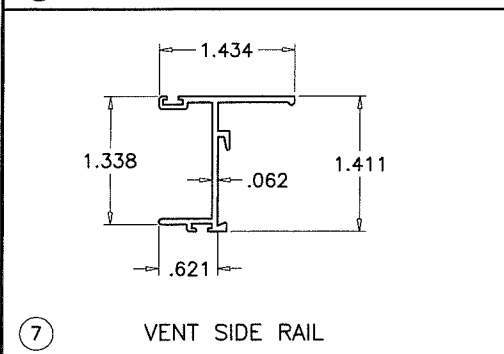
④ FIX. MEETING RAIL



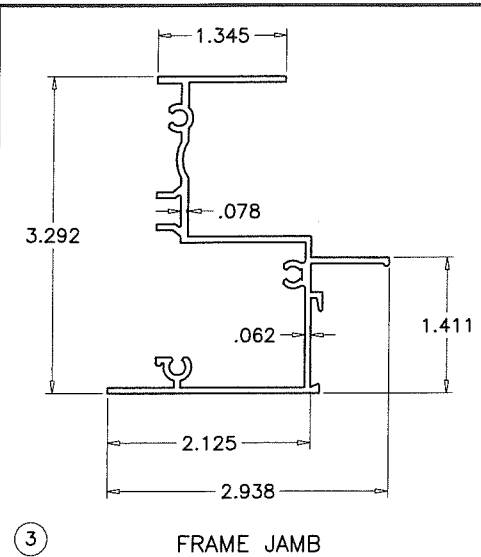
⑤ VENT TOP RAIL



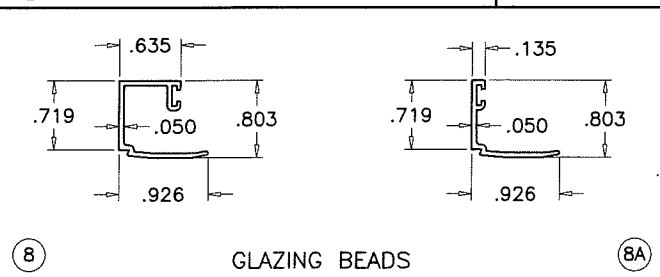
⑥ VENT BOTTOM RAIL



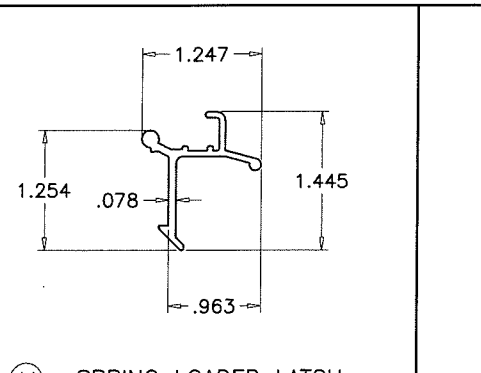
⑦ VENT SIDE RAIL



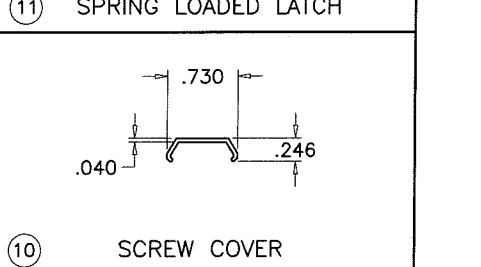
③ FRAME JAMB



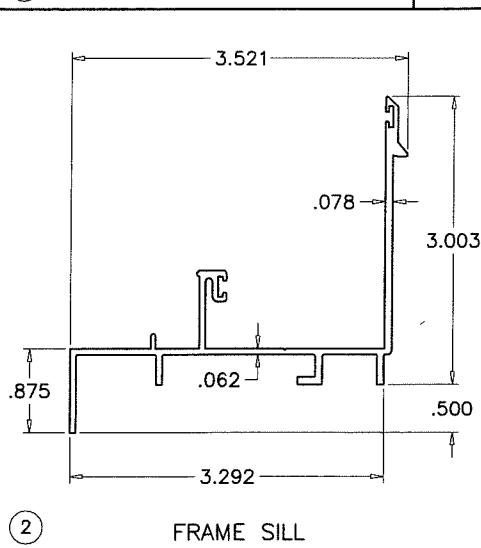
⑧ GLAZING BEADS



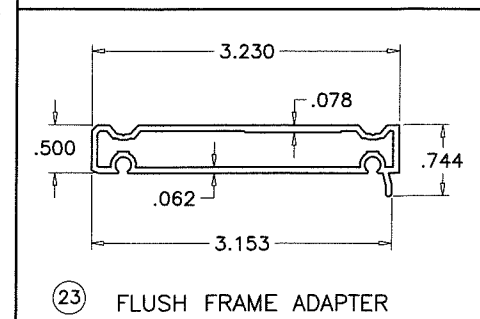
⑪ SPRING LOADED LATCH



⑩ SCREW COVER



② FRAME SILL

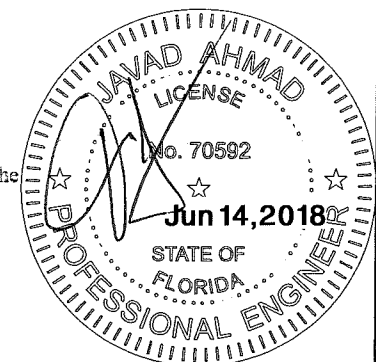


②③ FLUSH FRAME ADAPTER

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E151	1	FRAME HEAD	6063-T6	-
2	E152	1	FRAME SILL	6063-T6	-
3	E153	2	FRAME JAMB	6063-T6	-
4	E154	1	FIXED MTG. RAIL	6063-T6	-
5	E155	1	VENT TOP RAIL	6063-T6	-
6	E156	1	VENT BOTTOM RAIL	6063-T6	-
7	E157	2	VENT SIDE RAIL	6063-T6	-
8	E159	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
8A	E158	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
9	FY116	2/VENT	SASH STOP	6063-T5	-
10	E162	AS REQD.	SCREW COVER	6063-T6	-
11	FY113	2/VENT	SPRING LOADED LATCH, AT 6" FROM ENDS	6063-T6	-
11A	-	1/ LATCH	LATCH SPRING	ST. STEEL	-
12	SL203P	2/VENT	SWEEP LATCH, AT 12" FROM ENDS	ZAMAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
13	-	AS REQD.	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
14	#10 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
14A	#10 X 1-1/4"	2/ CORNER	FLUSH FRAME ADAPTER FASTENERS	CRS	FH SMS
15	E207	AS REQD.	BOTTOM RAIL SEAL - SERIES 101	NEOPRENE	ULTRAFAB
16	TR.3020	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	TECHNO RUBBER
17	E163	2/ VENT	SASH TOP GUIDE	DERLIN	M&M PLASTICS
18	W23181	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
19	E164	4/ VENT	SASH SIDE GUIDE	DERLIN	M&M PLASTICS
19A	#6 X 3/8"	1/ GUIDE	SASH GUIDE INST. SCREW	CRS	OH SMS TYPE B
20	F210	2/VENT	SASH BALANCE	-	SUPERBOOST BY BSI
20A	#8 X 1"	1/ BALANCE	BALANCE INST. SCREW	ST STEEL	FH SMS
20B	21B02 UEK	1/ BALANCE	BALANCE BRACKET	STEEL	CALDWELL
20C	#8 X 1/2"	2/ BRACKET	BRACKET FASTENER	ST. STEEL	PH SMS
21	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	E161	-	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL
24	-	-	INSUL. GLASS EDGE SPACER	ST. STEEL	CARDINAL XL

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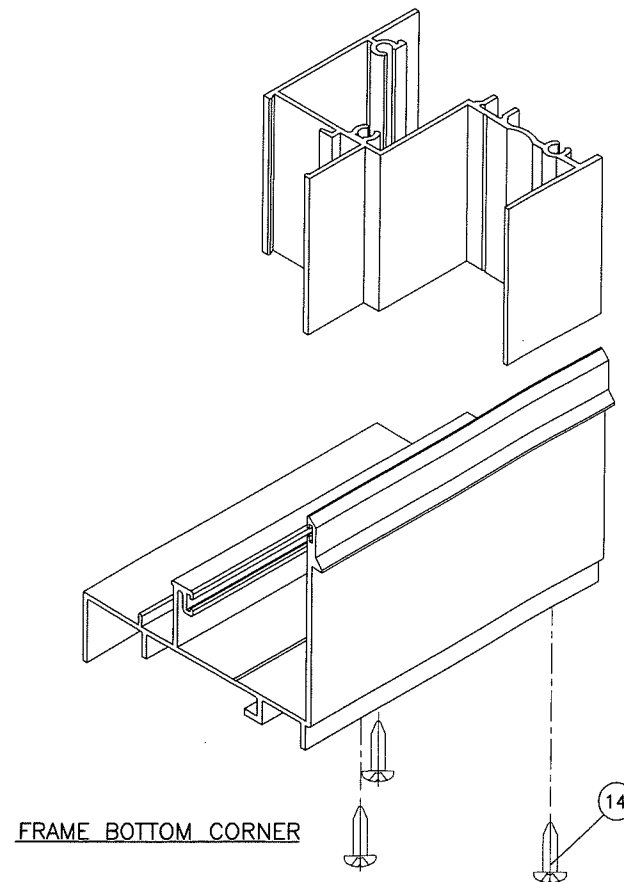
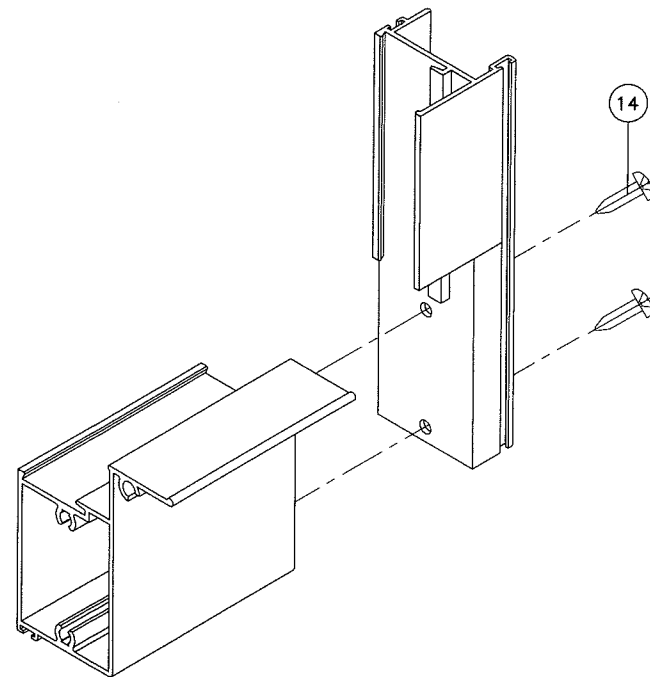
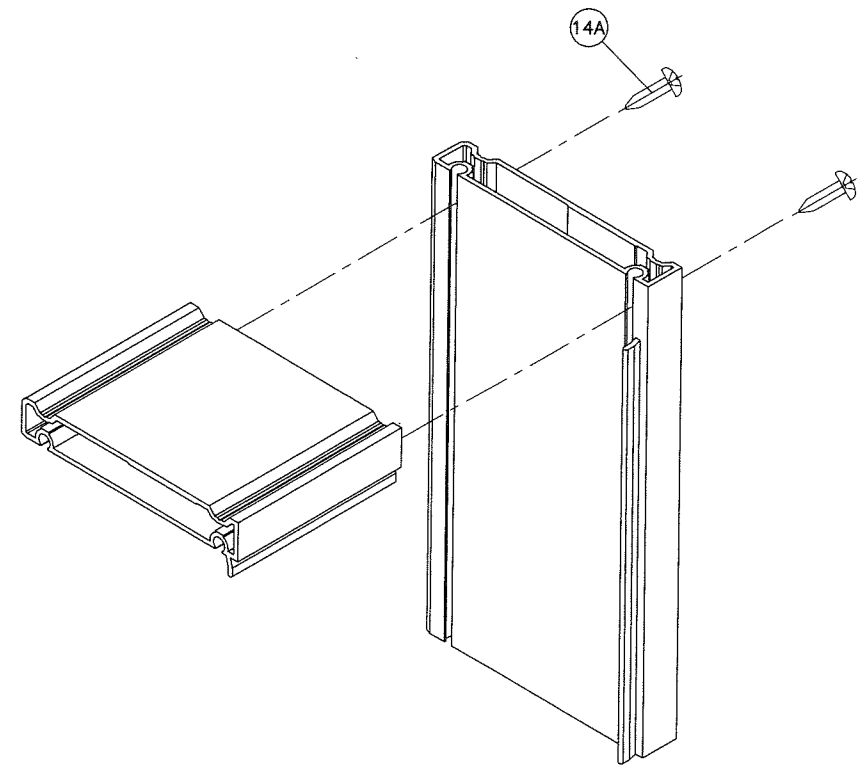
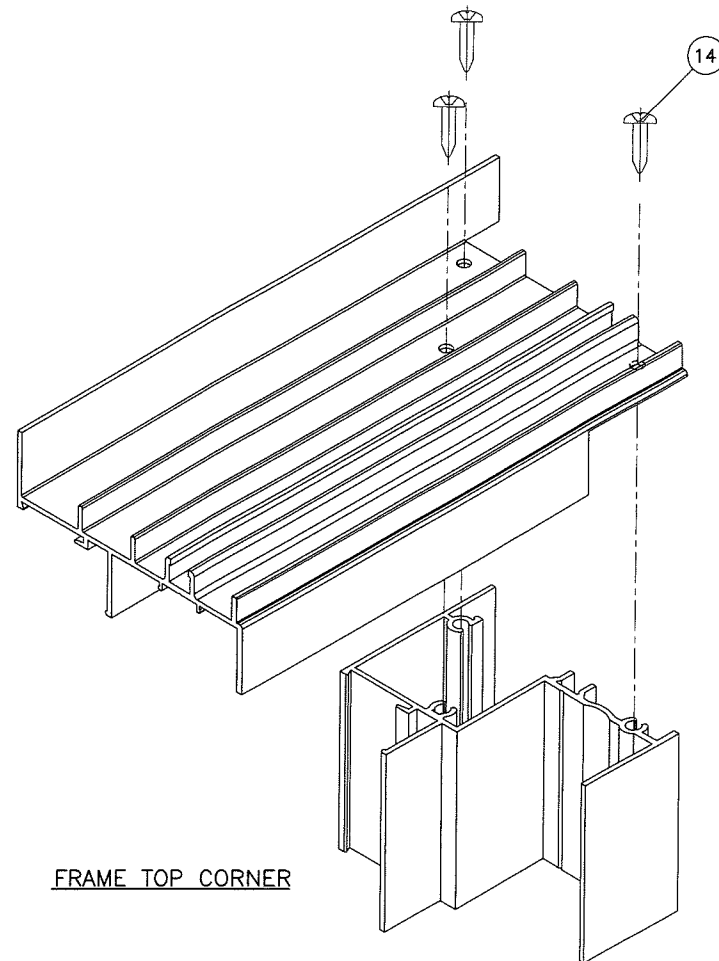
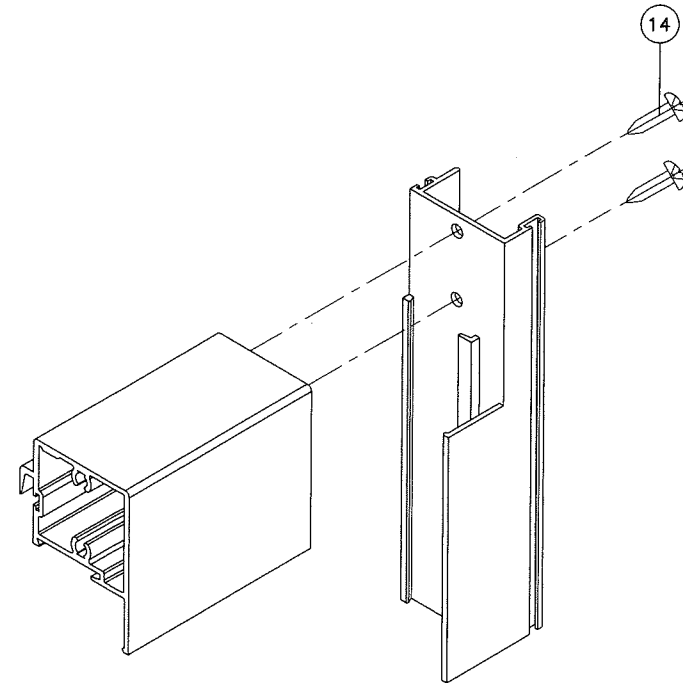
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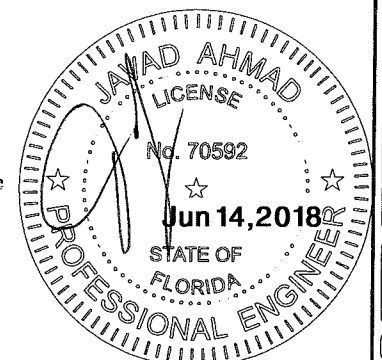
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SERIES-150 ALUM SINGLE HUNG WDW. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8503 N.W. 80th STREET

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AL-FAROOQ CORPORATION
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