



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, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

ECO Windows, LLC
8502 N. W. 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 "1050" Aluminum Window Wall System w/wo Reinforcement- L.M.I.

APPROVAL DOCUMENT: Drawing No. 20-15D Rev A, titled "Series 1050 Alum. Window Wall System (L.M.I.)", sheets 1 through 9 of 9, dated 20-18-20 and last revised on May 12, 2021, prepared by Al-Farooq Corporation, signed and sealed by Javad Farooq, P.E., bearing the Miami-Dade County Product Control 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

Limitations:

1. See design capacity in sheet 2, see Jamb and Mullions capacity in sheets 3 & 4 and anchor capacity in sheet 5. The lower capacity controls from the charts.

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 **Ishaq I. Chanda, P.E.**



NOA No. 20-0224.03
Expiration Date: May 27, 2026
Approval Date: May 27, 2021
Page 1

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5/17/21

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTE

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **20-15D rev A**, titled "Series 1050 Alum. Window Wall System (L.M.I.)", sheets 1 through 9 of 9 dated 02-18-2020 and last revised on May 12, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, 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) Drop Load Test, per ANSI Z97.1 (400 foot-pound impact)
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-10936**, dated 02/10/2020, signed and sealed by Idalmis Ortega, P.E.
Note: This test report was revised and re-issued by FTL lab dated 04-06-2020, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 04/02/21, 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

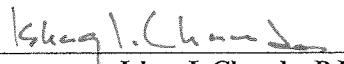
1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**", expiring on 07/04/23.

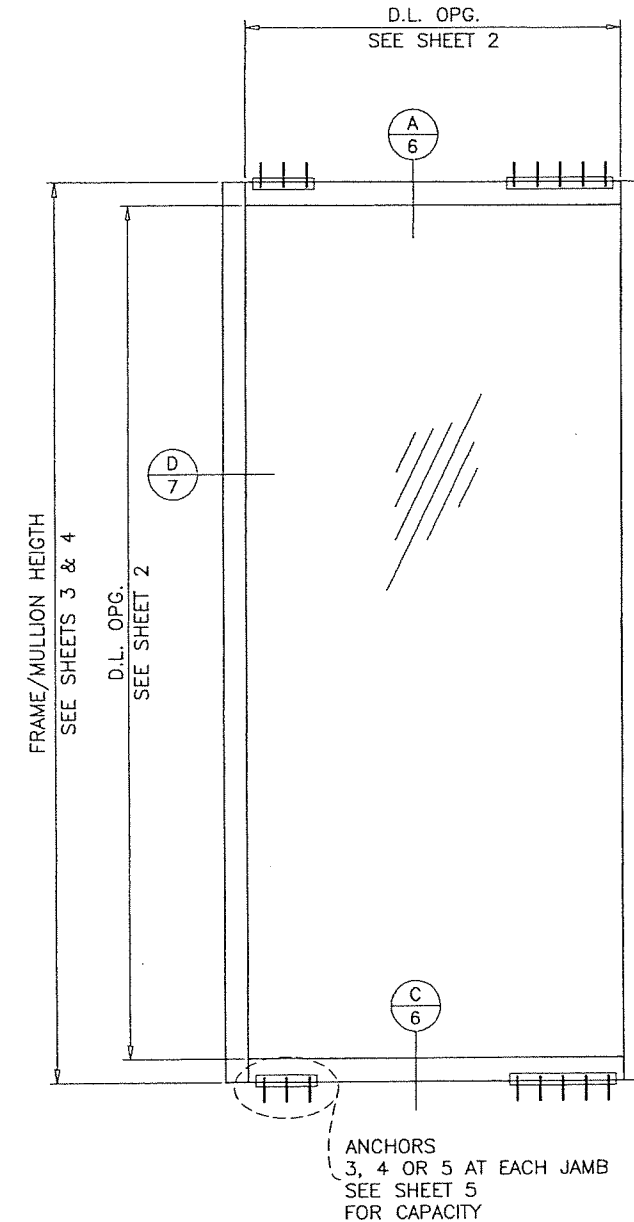
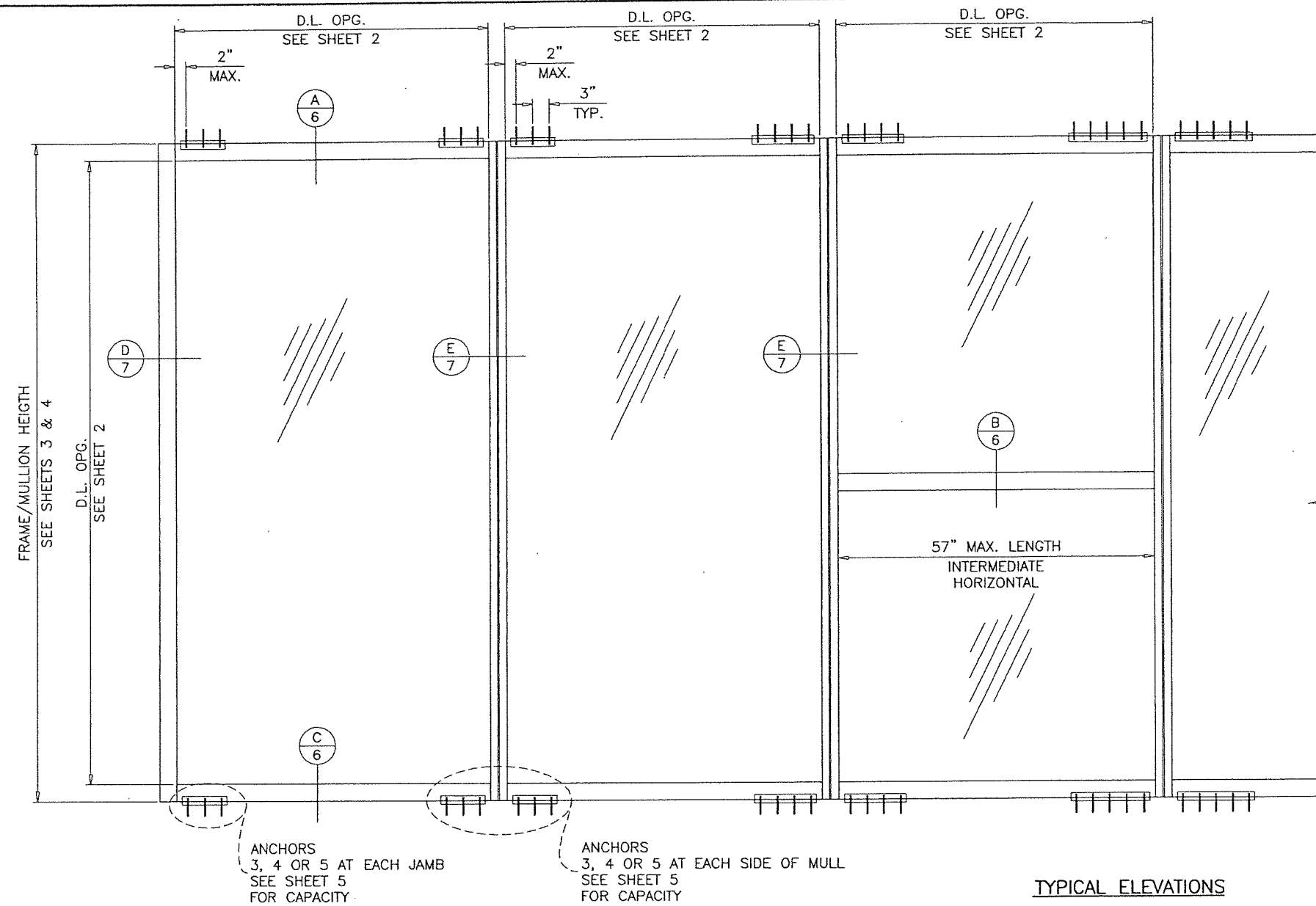
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated 04/02/2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Testing Proposal #19-0537 issued by the Product Control Section, dated 06/05/19, signed by Manny Perez, P.E.


Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0220.03
Expiration Date: May 27, 2026
Approval Date: May 27, 2021



TYPICAL ELEVATIONS

SERIES 1050 ALUMINUM WINDOW WALL SYSTEM

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 & 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** FOR JAMBS, USING SHEET 7, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

Approved as complying with
Florida Building Code
Date MAY 27, 2021
NOA# 20-0229-03
Miami Dade Product Control

By Ishtaq I. Chaudhry

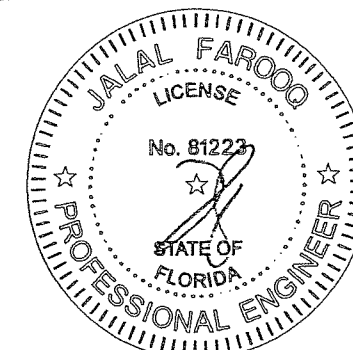
SINGLE 'O' PANEL:

FRAME WIDTH = D.L.O. WIDTH + 6.0"
FRAME HEIGHT = D.L.O. HEIGHT + 6.0"

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
LARGE MISSILE IMPACT



MAY 12 2021

af c
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
STORE 20-15D-ECO

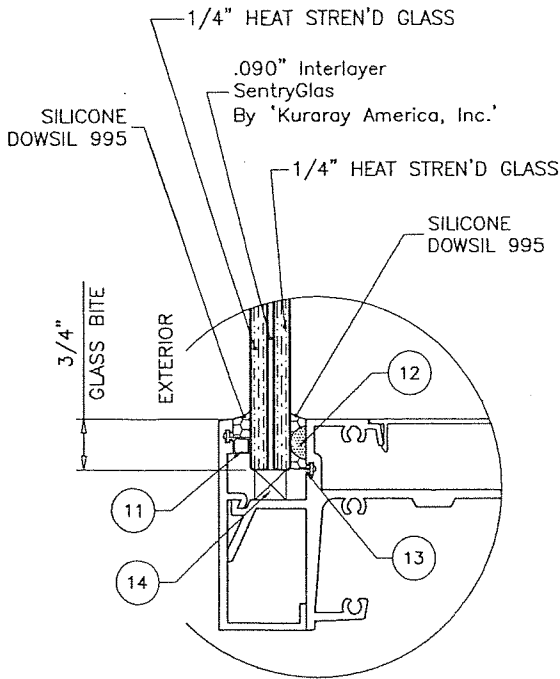
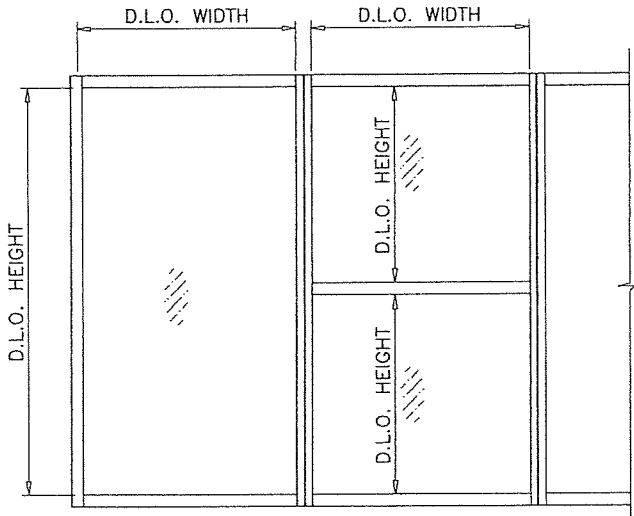
SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	no	date	by	description	REV. PER	COMMENTS
	A	06.19.20				
date:	02-18-20					
scale:	1/2"=1'-0"					
dr. by:	TARIQ					
chk. by:						
drawing no.	20-15D					
sheet	1 of 9					

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
36"	78"	100.0	140.0
42"		100.0	140.0
48"		100.0	140.0
54"		100.0	140.0
60"		95.0	133.0
66"		86.4	120.9
72"		79.2	110.8
78"		73.1	102.3
81"		73.1	102.3
36"	90"	100.0	140.0
42"		100.0	140.0
48"		100.0	140.0
54"		100.0	140.0
60"		95.0	133.0
66"		86.4	120.9
72"		79.2	110.8
78"		73.1	102.3
81"		73.1	102.3
36"	102"	100.0	140.0
42"		100.0	140.0
48"		100.0	140.0
54"		100.0	140.0
60"		95.0	133.0
66"		86.4	120.9
72"		79.2	110.8
78"		73.1	102.3
81"		73.1	102.3
36"	114"	100.0	140.0
42"		100.0	140.0
48"		100.0	140.0
54"		100.0	140.0
57"		100.0	134.0
36"	126"	100.0	140.0
42"		100.0	140.0
48"		100.0	140.0
36"	138"	100.0	140.0
42"		100.0	140.0
45"		100.0	140.0

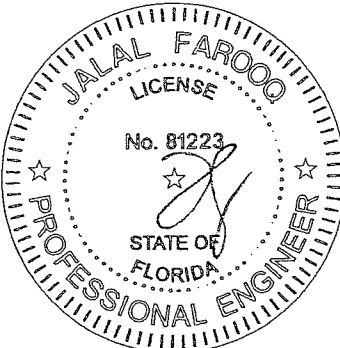
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



GLAZING DETAIL
9/16" OVERALL LAM. GLASS

Approved as complying with the
Florida Building Code
Date 5/27/21
NOA# 26-0224-03
Miami Dade Product Control
By Isheq J. Chaudhry



MAY 12 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 9538)
TEL. (305) 264-8100 FAX. (305) 262-6978

STORE 20-15D-ECO

SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	no.	date	by	description
	A	06.19.20		NO CHANGE THIS SHEET

date: 02-18-20

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

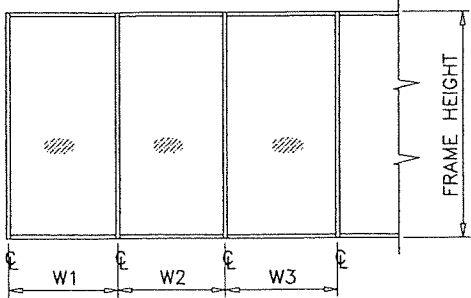
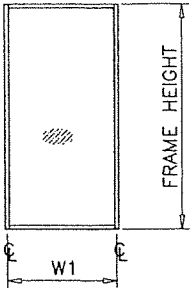
drawing no.

20-15D

sheet 2 of 9

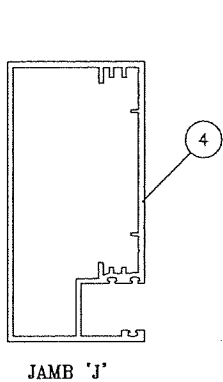
JAMB & MULLION LOAD CAPACITY - PSF											
JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J'		JAMB 'J1'		MULL 'M'		MULL 'M1'		MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
42"	84"	100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
66"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
72"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
78"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
84"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
42"	96"	100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
66"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
72"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
78"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
84"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
42"	108"	100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
66"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
72"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
78"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
84"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
42"	120"	100.0	140.0	100.0	140.0	100.0	129.1	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	114.4	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	-	-	100.0	139.5	100.0	140.0
60"		100.0	140.0	100.0	140.0	-	-	100.0	127.7	100.0	140.0
66"		100.0	140.0	100.0	140.0	-	-	100.0	127.7	100.0	140.0
72"		100.0	140.0	100.0	140.0	-	-	100.0	127.7	100.0	140.0
78"		100.0	140.0	100.0	140.0	-	-	100.0	127.7	100.0	140.0
84"		100.0	140.0	100.0	140.0	-	-	100.0	127.7	100.0	140.0
42"	132"	100.0	140.0	100.0	140.0	-	-	-	-	100.0	140.0
48"		100.0	139.5	100.0	140.0	-	-	-	-	100.0	140.0
42"	144"	100.0	120.5	100.0	140.0	-	-	-	-	100.0	140.0
48"		100.0	106.5	100.0	140.0	-	-	-	-	100.0	135.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

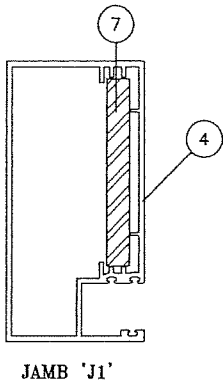


WIDTH (W) = W1
AT FRAME JAMB

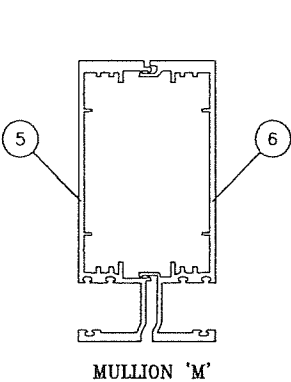
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



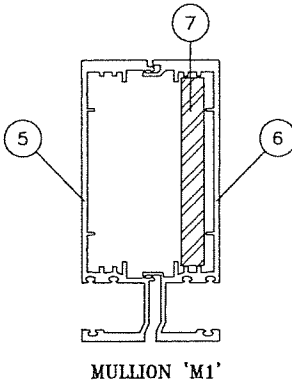
Ix IN ⁴	Sx IN ³
11.791	3.819



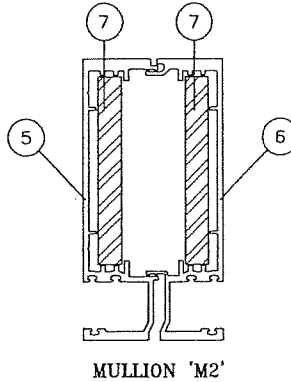
	Ix IN ⁴	Sx IN ³
ALUMINUM	11.791	3.819
STEEL	2.6667	1.3333
TOTAL Ix ALUM + Ix STL X 2.9	19.4479	



Ix IN ⁴	Sx IN ³
15.7335	5.2354

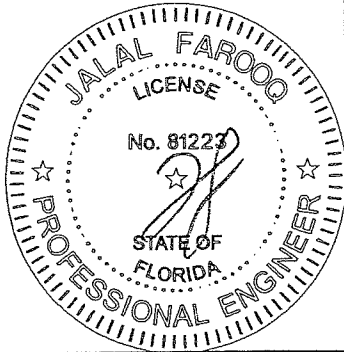


	Ix IN ⁴	Sx IN ³
ALUMINUM	15.7335	5.2354
STEEL	2.6667	1.3333
TOTAL Ix ALUM + Ix STL X 2.9	23.3904	



	Ix IN ⁴	Sx IN ³
ALUMINUM	15.7335	5.2354
STEEL	5.3334	2.6667
TOTAL Ix ALUM + Ix STL X 2.9	31.0472	

Approved as complying with the
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Miami Dade Product Control
By Ismael I. Chaves



MAY 12 2021

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STORE 20-15D-ECO

revisions:	no	date	by	description
	A	06.19.20		REV. PER PER COMMENTS

date: 02-18-20

scale: -

dr. by: TARIQ

chk. by:

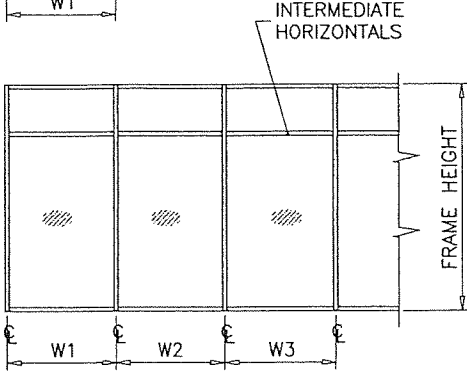
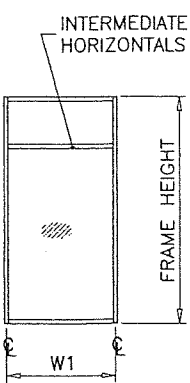
drawing no.
20-15D

sheet 3 of 9

NOTE:
LOWER CAPACITY OF JAMBS 'J' OR 'J1' AND MULLION 'M', 'M1' OR 'M2'
SHALL CONTROL WHEN USED IN COMBINATION.

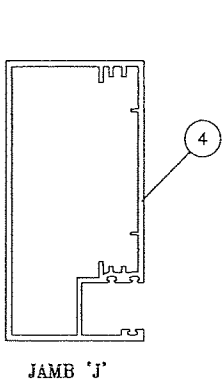
JAMB & MULLION LOAD CAPACITY - PSF JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J'		JAMB 'J1'		MULL 'M'		MULL 'M1'		MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
42"	84"	100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
66"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
72"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
78"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
84"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
42"	96"	100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
66"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
72"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
42"	108"	100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	130.0	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0	-	-	100.0	140.0	100.0	140.0
66"		100.0	140.0	100.0	140.0	-	-	100.0	131.7	100.0	140.0
42"	120"	100.0	140.0	100.0	140.0	100.0	124.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	108.5	100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0	-	-	100.0	130.3	100.0	140.0
60"		100.0	138.8	100.0	140.0	-	-	100.0	117.3	100.0	140.0
42"	132"	100.0	140.0	100.0	140.0	-	-	-	-	100.0	140.0
48"		100.0	132.6	100.0	140.0	-	-	-	-	100.0	140.0
42"	144"	100.0	116.7	100.0	140.0	-	-	-	-	100.0	140.0
48"		100.0	102.1	100.0	140.0	-	-	-	-	100.0	131.2

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

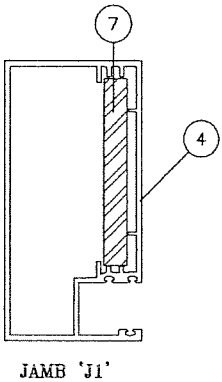


WIDTH (W) = W1
AT FRAME JAMB

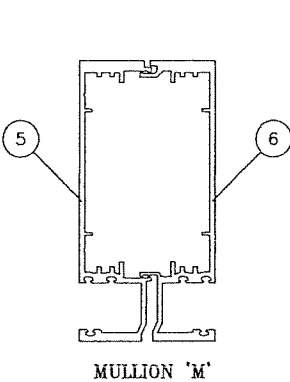
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AT FRAME MULLION



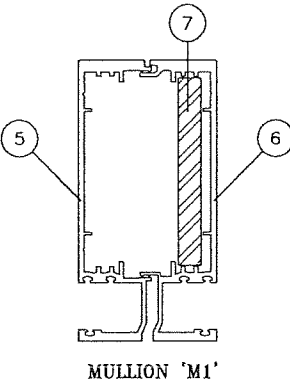
Ix IN ⁴	Sx IN ³
11.791	3.819



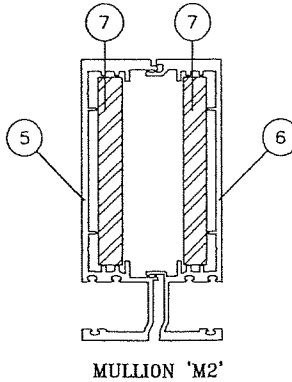
	Ix IN ⁴	Sx IN ³
ALUMINUM	11.791	3.819
STEEL	2.6667	1.3333
TOTAL Ix ALUM + Ix STL X 2.9	19.4479	



Ix IN ⁴	Sx IN ³
15.7335	5.2354



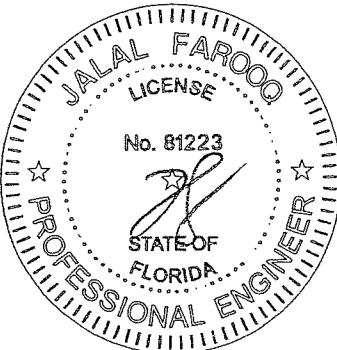
	Ix IN ⁴	Sx IN ³
ALUMINUM	15.7335	5.2354
STEEL	2.6667	1.3333
TOTAL Ix ALUM + Ix STL X 2.9	23.3904	



	Ix IN ⁴	Sx IN ³
ALUMINUM	15.7335	5.2354
STEEL	5.3334	2.6667
TOTAL Ix ALUM + Ix STL X 2.9	31.0472	

NOTE:
LOWER CAPACITY OF JAMBS 'J' OR 'J1' AND MULLION 'M', 'M1' OR 'M2'
SHALL CONTROL WHEN USED IN COMBINATION.

Approved as complying with the
Florida Building Code
Date 5/27/21
NOA# 20-0224-03
Miami Dade Product Control
By Shag1.Chen



MAY 12 2021

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

SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)

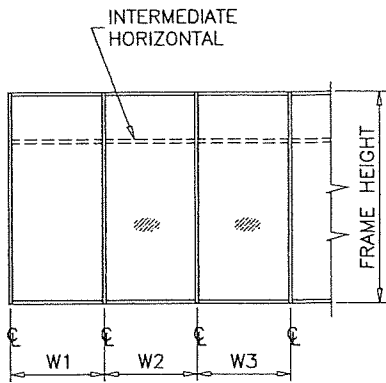
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:		date	by	description
no	date	by	description	REV. PER COMMENTS
1	05/19/20	A		
date: 02-18-20				
scale: -				
dr. by: TARIQ				
chk. by:				
drawing no. 20-15D				
sheet 4 of 9				

STORE 20-15D-ECO

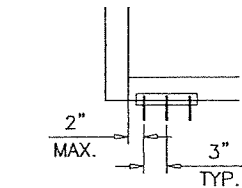
HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPES 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3/C3	B4/C4	B5/C5
42"	84"	132.2	140.0	140.0	140.0	140.0	140.0
48"		115.7	140.0	140.0	140.0	140.0	140.0
54"		102.9	137.1	140.0	140.0	140.0	140.0
60"		92.6	123.4	140.0	133.7	140.0	140.0
66"		84.2	112.2	140.0	121.6	140.0	140.0
72"		77.1	102.9	128.6	111.4	140.0	140.0
78"		71.2	94.9	118.7	102.9	137.1	140.0
84"		66.1	88.2	110.2	95.5	127.3	140.0
42"	96"	115.7	140.0	140.0	140.0	140.0	140.0
48"		101.3	135.0	140.0	140.0	140.0	140.0
54"		90.0	120.0	140.0	130.0	140.0	140.0
60"		81.0	108.0	135.0	117.0	140.0	140.0
66"		73.6	98.2	122.7	106.4	140.0	140.0
72"		67.5	90.0	112.5	97.5	130.0	140.0
42"	108"	102.9	137.1	140.0	140.0	140.0	140.0
48"		90.0	120.0	140.0	130.0	140.0	140.0
54"		80.0	106.7	133.3	115.6	140.0	140.0
60"		72.0	96.0	120.0	104.0	138.7	140.0
66"		65.5	87.3	109.1	94.5	126.1	140.0
42"	120"	92.6	123.4	140.0	133.7	140.0	140.0
48"		81.0	108.0	135.0	117.0	140.0	140.0
54"		72.0	96.0	120.0	104.0	138.7	140.0
60"		64.8	86.4	108.0	93.6	124.8	140.0
42"	132"	84.2	112.2	140.0	121.6	140.0	140.0
48"		73.6	98.2	122.7	106.4	140.0	140.0
42"	144"	77.1	102.9	128.6	111.4	140.0	140.0
48"		67.5	90.0	112.5	97.5	130.0	140.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

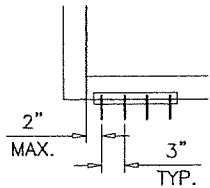


WIDTH (W) = W1
AT FRAME JAMB

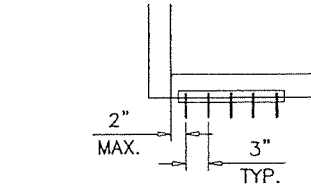
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



A3, B3, C3



A4, B4, C4

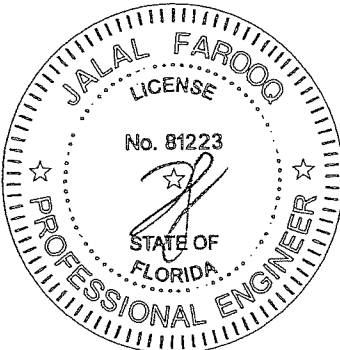


A5, B5, C5

ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

Approved as complying with the
Florida Building Code
Date 5/27/21
NOA# 20-0224.03
Miami Dade Product Control
By Ishag I. Chouk



MAY 12 2021

af c

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

SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)

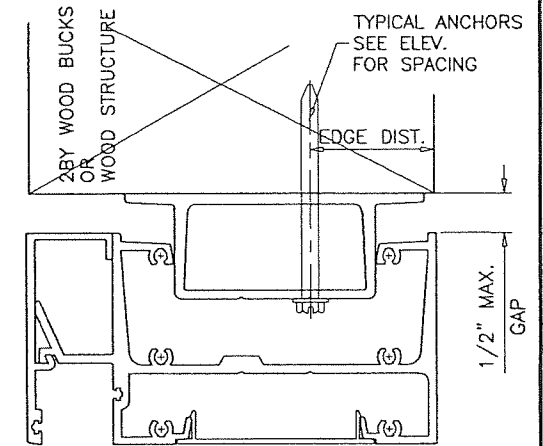
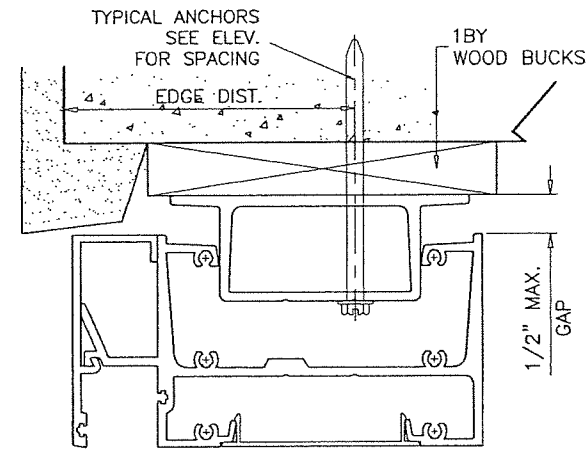
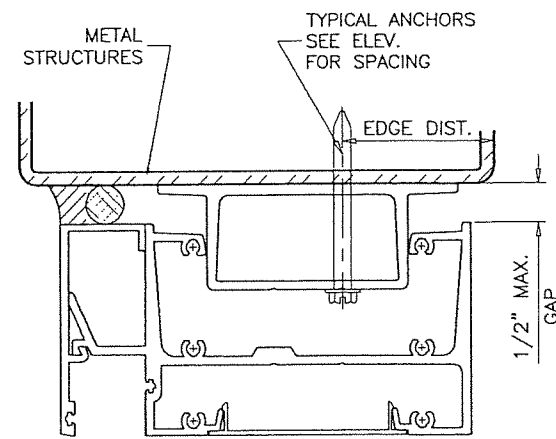
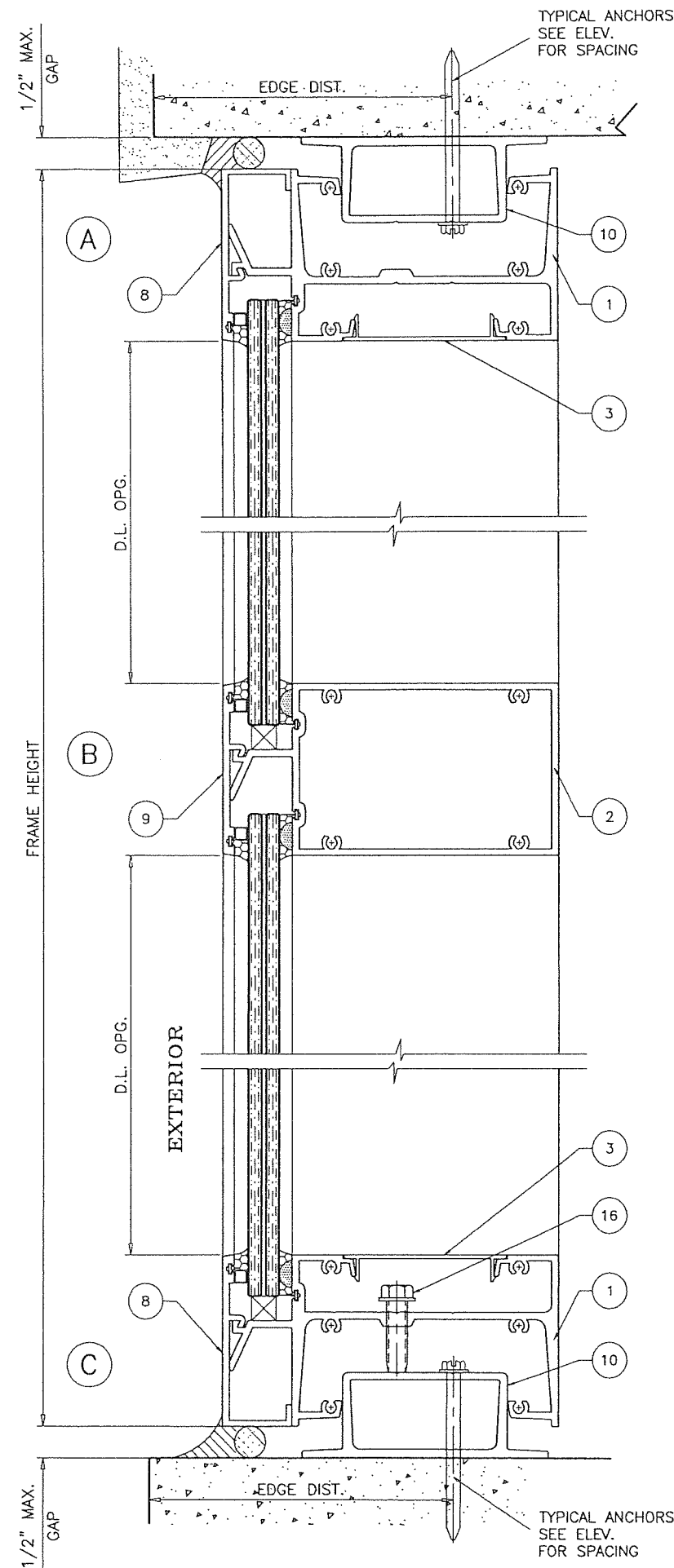
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	no	date	by	description
	A	06.19.20		NO CHANGE THIS SHEET

date:	02-18-20	scale:	-	dr. by:	TARIQ	chk. by:	
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drawing no.	20-15D
sheet	5 of 9

STORE 20-15D-ECO



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'ECO WINDOW' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'— 1/4" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY BUCKS INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'B'— 1/4" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
 DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'C'— # 14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 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)

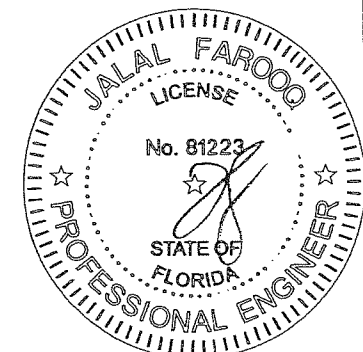
TYPICAL EDGE DISTANCE

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

WOOD AT HEAD OR SILL SG = 0.55 MIN.
 CONCRETE AT HEAD OR SILL $f'_c = 3000$ PSI MIN.

Approved as complying with the
 Florida Building Code
 Date 5/27/21
 NOA# 20-0224-03
 Miami Dade Product Control

By Sheng L. Chen



MAY 12 2021

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

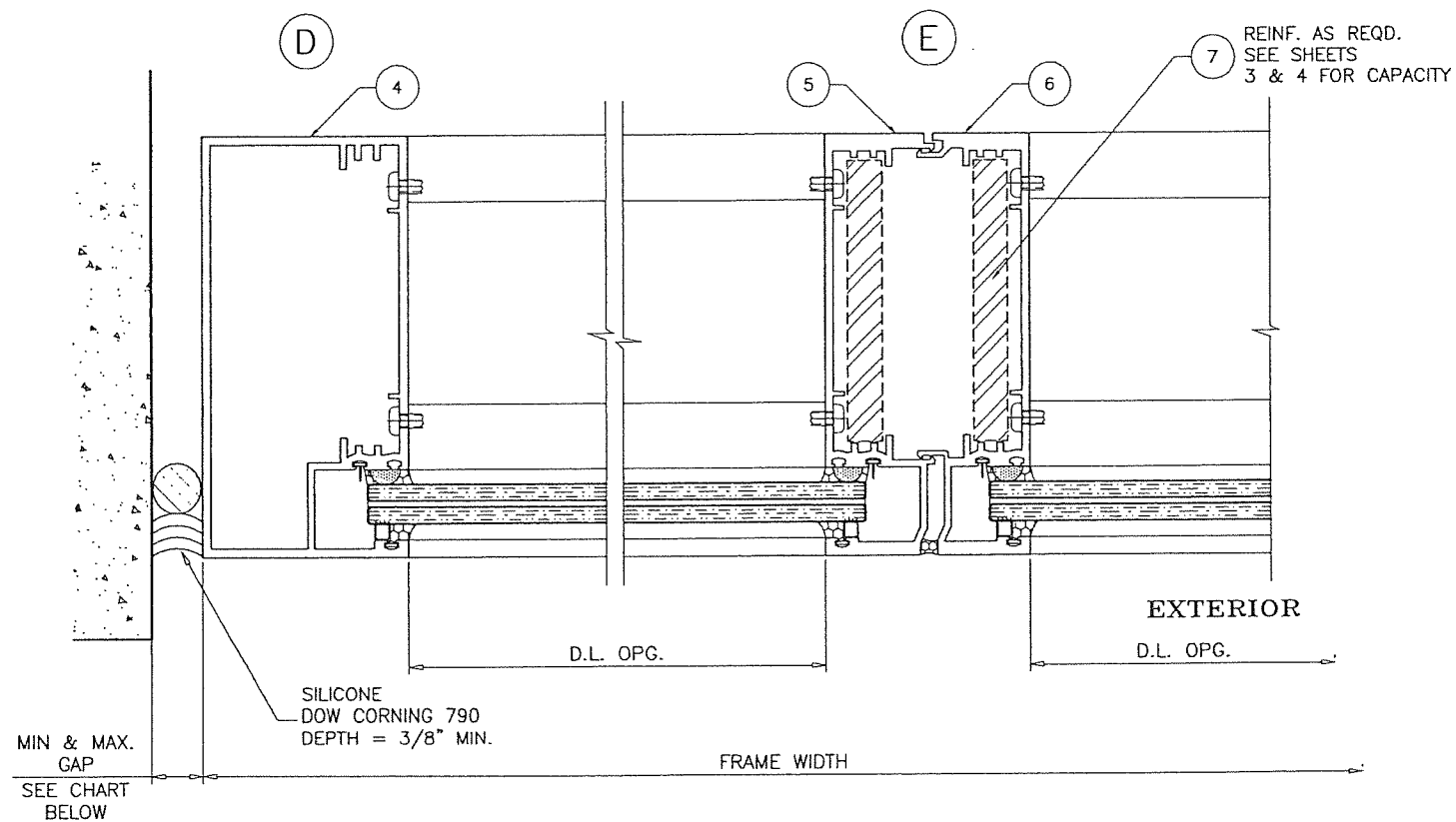
STORE 20-15D-ECO

SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
 8502 N.W. 80th STREET
 MEDLEY, FL. 33166
 TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	no	date	by	description
	A	06.19.20		NO CHANGE THIS SHEET

date: 02-18-20
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

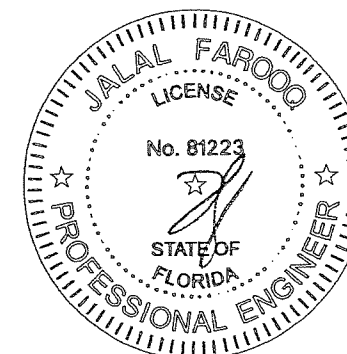
drawing no.
20-15D
 sheet 6 of 9



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
78"	1/4"	3/4"
96"	5/16"	3/4"
120"	3/8"	3/4"
144"	1/2"	3/4"

NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
 ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
 GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

Approved as complying with the
 Florida Building Code
 Date 5/27/21
 NOA# 20-0224-03
 Miami Dade Product Control
 By Ishag I. Hamdi



MAY 12 2021

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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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STORE 20-15D-ECO

SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)

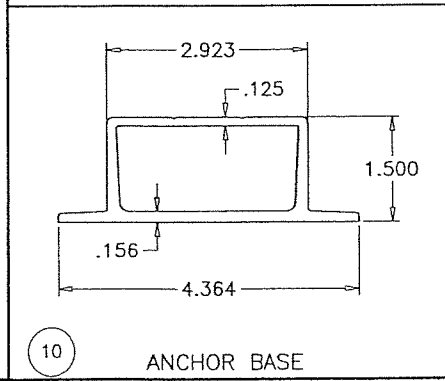
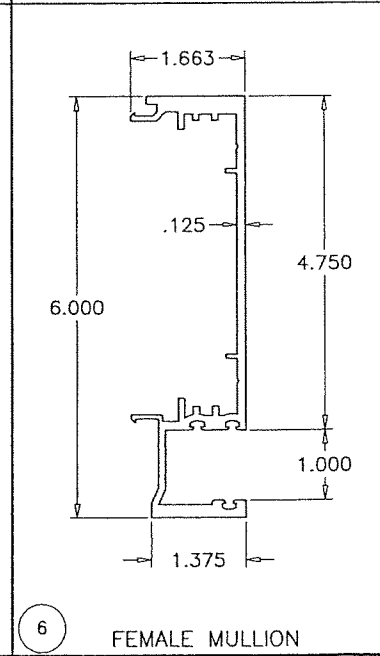
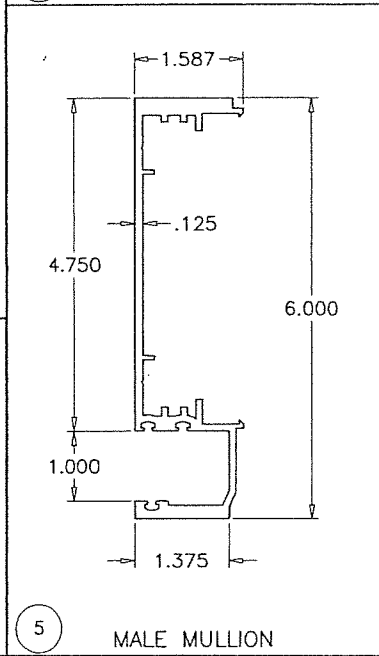
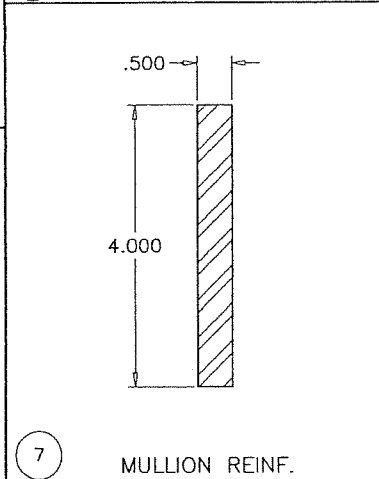
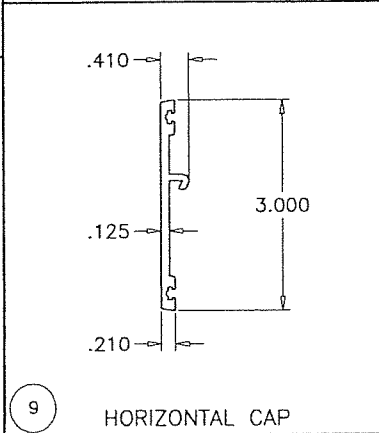
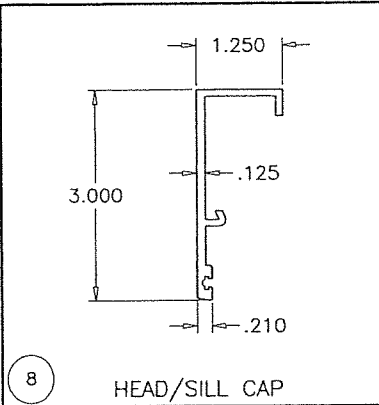
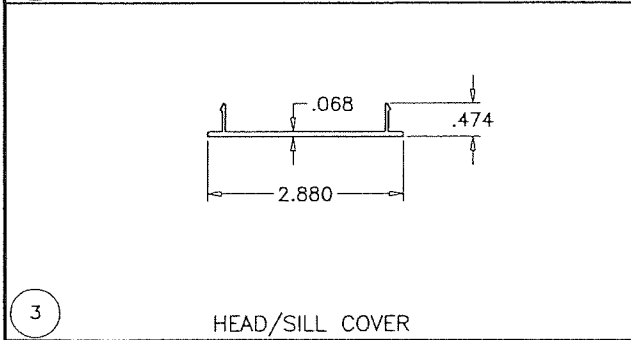
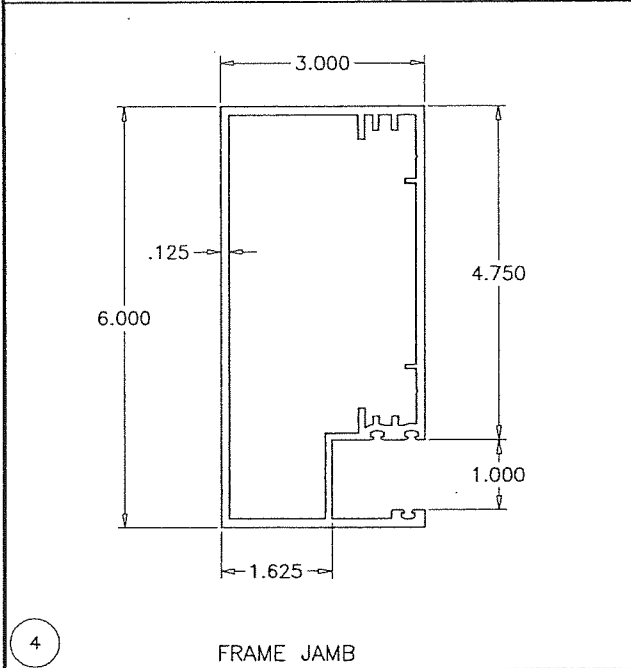
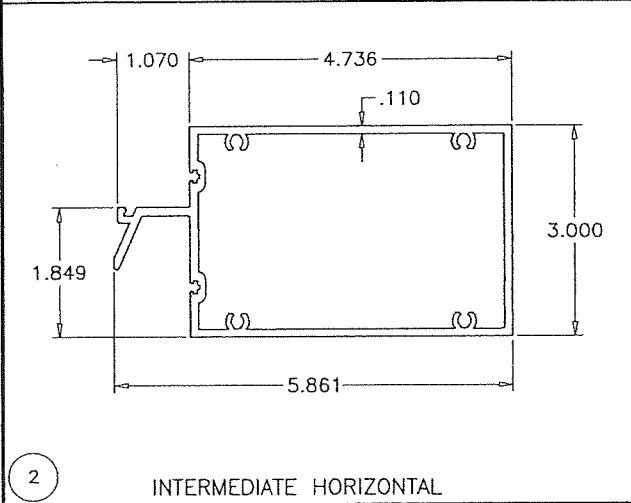
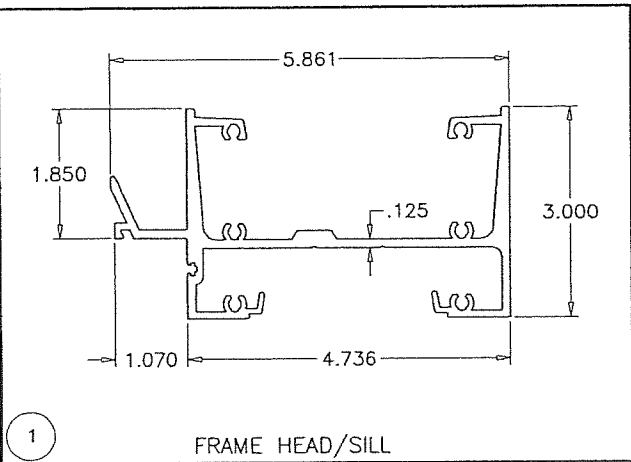
ECO WINDOW SYSTEMS, LLC.
 8502 N.W. 80th STREET
 MEDLEY, FL. 33166
 TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

no	date	by	description
A	06.19.20		NO CHANGE THIS SHEET

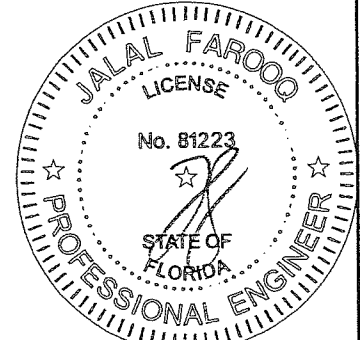
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 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
20-15D
 sheet 7 of 9



ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E1055	AS REQD.	FRAME HEAD/SILL	6063-T6	-
2	E1053	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	E1058	AS REQD.	HEAD/SILL COVER	6063-T5	-
4	E1054	AS REQD.	FRAME JAMB	6063-T6	-
5	E1052	AS REQD.	MALE MULLION	6063-T6	-
6	E1051	AS REQD.	FEMALE MULLION	6063-T6	-
7	-	AS REQD.	MULLION REINF.	STEEL	-
8	E1056	AS REQD.	HEAD/SILL CAP	6063-T6	-
9	E1057	AS REQD.	HORIZONTAL CAP	6063-T6	-
10	E1059	AS REQD.	ANCHOR BASE	6063-T6	-
11	E1060	4/ LITE	EXTERIOR GLASS SPACER	EPDM	DUROMETER 70±5 SHORE A
12	-	4/ LITE	INTERIOR GLASS SPACER	EPDM	DUROMETER 80±5 SHORE A
13	E1061	4/ LITE	SILICONE DAM	EPDM	DUROMETER 80±5 SHORE A
14	-	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS (LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
15	#12 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST/ST	PH SMS
16	5/16" MACH. BOLT	2/ LITE	LEVELING SCREW	ST/ST	-

Approved as complying with the
Florida Building Code
Date 5/27/21
NOA# 20-0224-03
Miami Dade Product Control
By Khalid I. Chaudhry



MAY 12 2021

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

STORE 20-15D-ECO

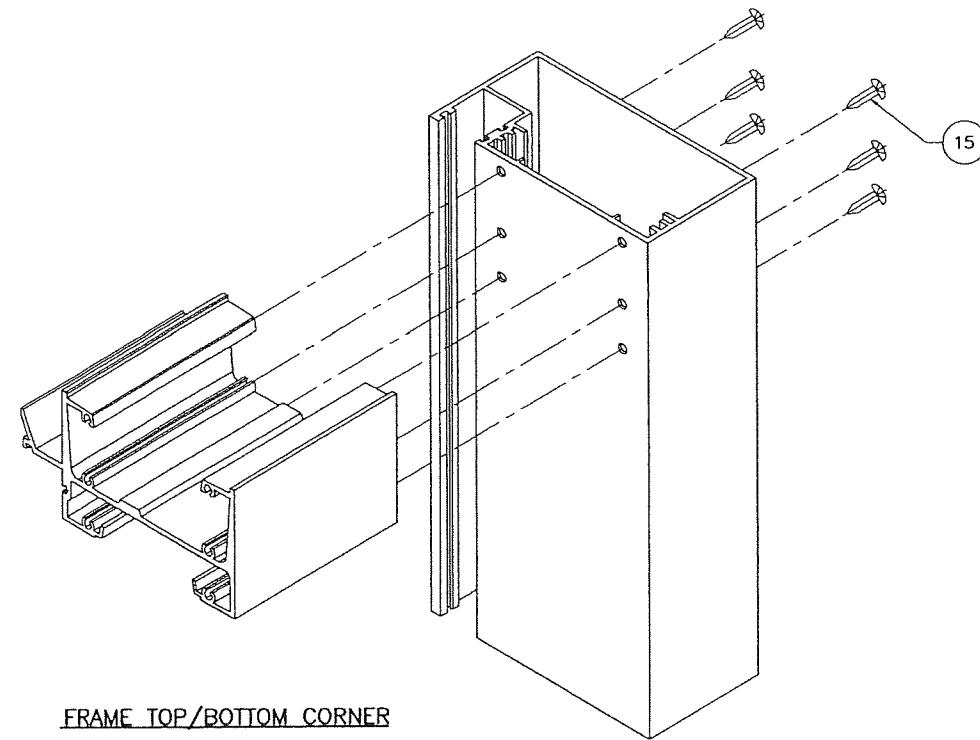
SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
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Revisions:
no. date by description
A 06.19.20 NO CHANGE THIS SHEET

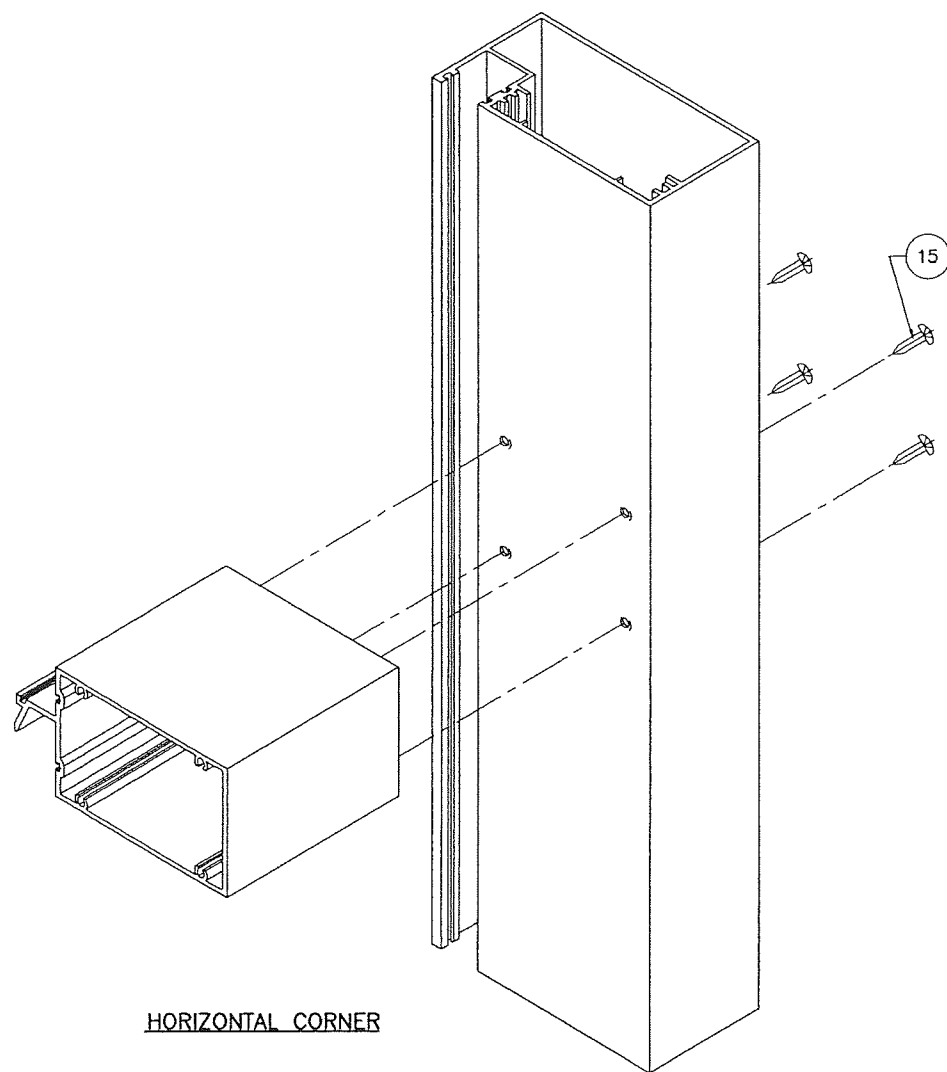
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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-15D

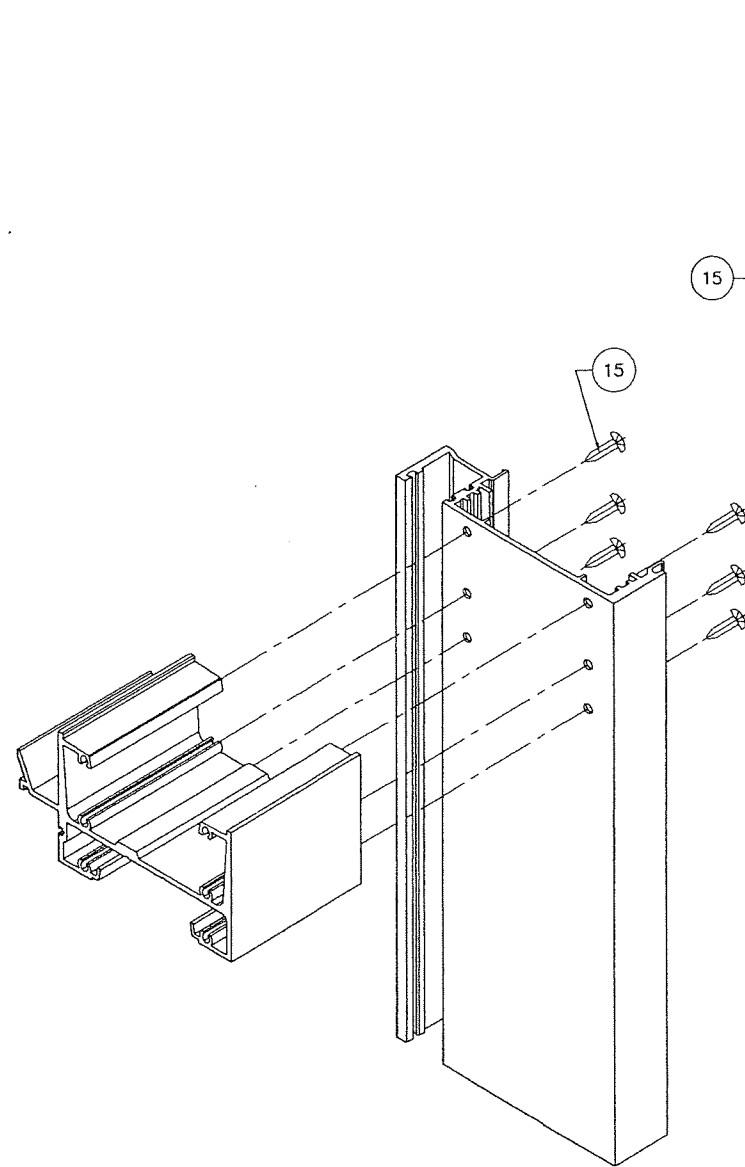
sheet 8 of 9



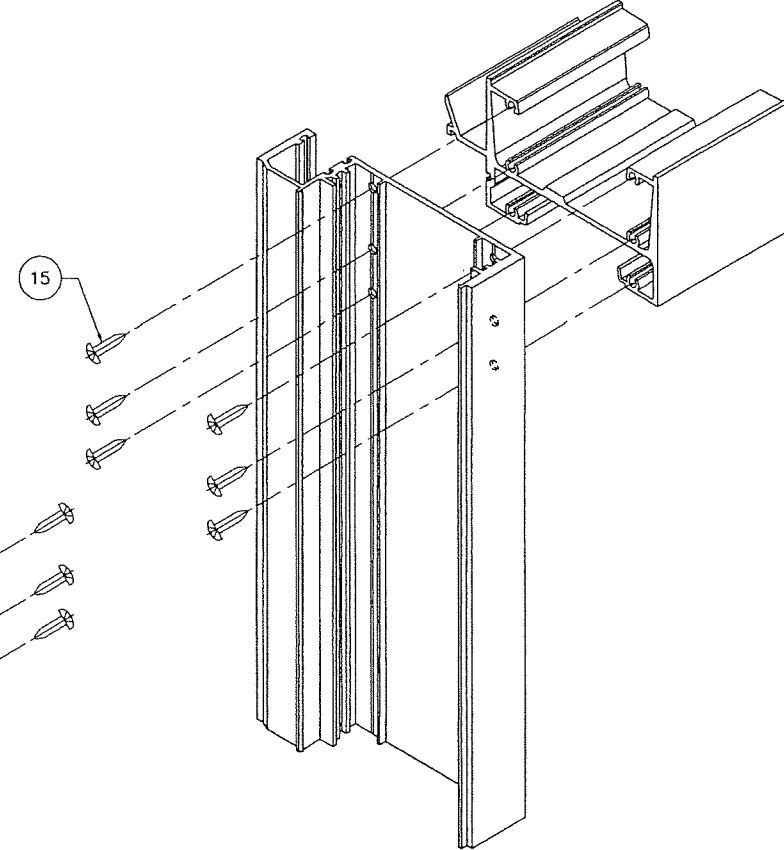
FRAME TOP/BOTTOM CORNER



HORIZONTAL CORNER

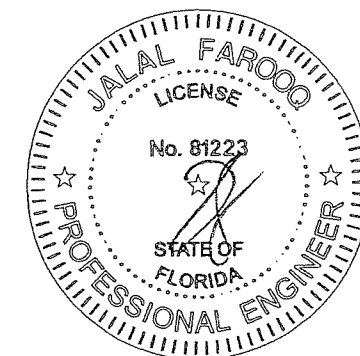


MULLION CORNER



Approved as complying with the
Florida Building Code
Date 5/27/21
NOA# 20-0224-03
Miami Dade Product Control
By Ishay I. Chandra

MAY 12 2021



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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af c
STORE 20-15D-ECO

SERIES 1050 ALUM WINDOW WALL SYS. (L.M.I.)
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revisions:		by description	
no	date	no	description
A	05.19.20		NO CHANGE THIS SHEET

date: 02-18-20
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-15D
sheet 9 of 9