



Product Approval
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FL #	FL21632-R4	
Application Type	Revision	
Code Version	2023	
Application Status	Approved	
Comments		
Archived	☐	
Product Manufacturer	Eco Window Systems	
Address/Phone/Email	8502 NW 80th Street Suite 103 Medley, FL 33166 (305) 885-5299 jrosowski@pgtindustries.com	
Authorized Signature	Jens Rosowski jrosowski@pgtindustries.com	
Technical Representative	Lynn Miller, P.E.	
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com	
Quality Assurance Representative		
Address/Phone/Email		
Category	Panel Walls	
Subcategory	Storefronts	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	A. Lynn Miller, P.E.	
Florida License	PE-58705	
Quality Assurance Entity	Keystone Certifications, Inc.	
Quality Assurance Contract Expiration Date	12/31/2032	
Validated By	Steven M. Urich, PE ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL21632_R4_COI_Cert of Independence.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	AAMA 501	2015
	ANSI Z97.1	2014
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect	

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

10/19/2023

Date Validated

10/20/2023

Date Pending FBC Approval

10/28/2023

Date Approved

12/13/2023

Summary of Products

FL #	Model, Number or Name	Description
21632.1	Series 1050 Window Wall System	Large missile impact resistant, aluminum window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_WW1050FPA - LMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_WW1050LMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No
21632.2	Series 1050 Window Wall System	Small missile impact resistant, aluminum window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_WW1050FPA - SMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_WW1050SMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No
21632.3	Series 2500 Narrow Window Wall System	Large missile impact resistant, aluminum window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_2500-NARROW-FPA - LMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_WW2500LMI ENG EVAL - REV A2.pdf Created by Independent Third Party: No
21632.4	Series 2500 Narrow Window Wall System	Small missile impact resistant, aluminum window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_2500-NARROW-FPA - SMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_WW2500SMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No
21632.5	Series 400 Window Wall System	Large missile impact resistant, aluminum window wall system with window inserts.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_WW400FPA - LMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_ECO_WW400LMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No
21632.6	Series 400 Window Wall System	Small missile impact resistant, aluminum window wall system with window inserts.

Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_WW400FPA - SMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_ECO_WW400SMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No
21632.7	Series 450 Window Wall System	Large missile impact resistant, aluminum window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_WW450FPA - LMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_ECO_WW450LMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No
21632.8	Series 450 Window Wall System	Small missile impact resistant, aluminum window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL21632_R4_II_WW450FPA - SMI - REV A1.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL21632_R4_AE_ECO_WW450SMI ENG EVAL - REV A1.pdf Created by Independent Third Party: No

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[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

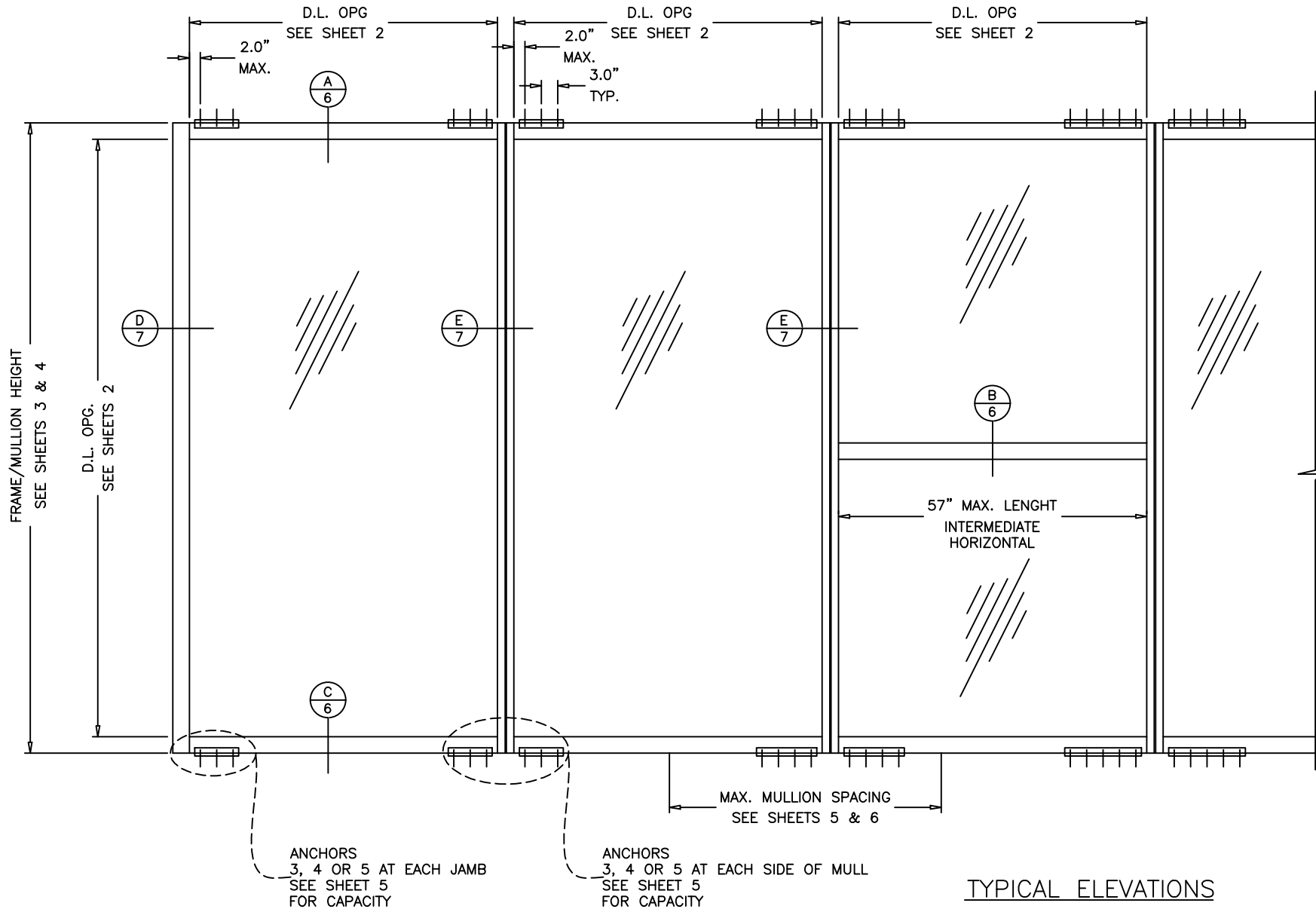
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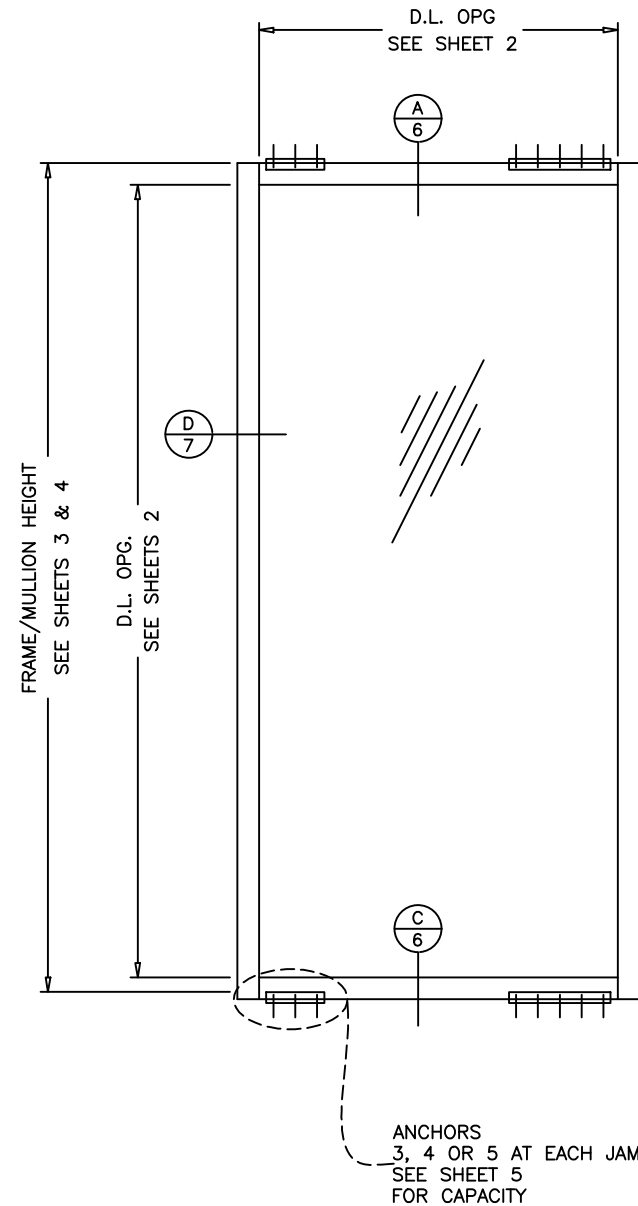
Product Approval Accepts:



FLORIDA PRODUCT APPROVAL #21632



TYPICAL ELEVATIONS



SINGLE 'O' PANEL:

FRAME WITH = 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.

LAMINATED GLASS
LARGE MISSILE IMPACT

ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS
IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE
SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A
AND CPSC 16 CFR 1201, CATEGORY II. THIS
INCLUDES LAMINATED GLASS THAT IS
MANUFACTURED WITH ANNEALED GLASS PLIES.
FOR APPLICATIONS WHERE THE WINDOW IS BEING
USED AS A GUARD, HEAT STRENGTHENED OR
TEMPERED LAMINATED GLASS MUST BE USED.

SERIES 1050 ALUMINUM WINDOW WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 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 AS LISTED, 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 FLORIDA BUILDING CODE.

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)'.

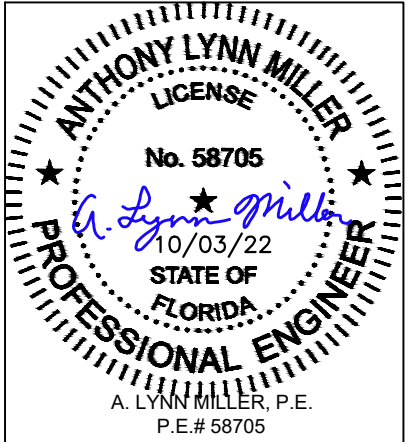
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT 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 SHEET 3 & 4
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 5 SELECT ANCHOR
OPTION WITH DESIGN RATING 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 PRESSURE DETERMINED
THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

Revision:	

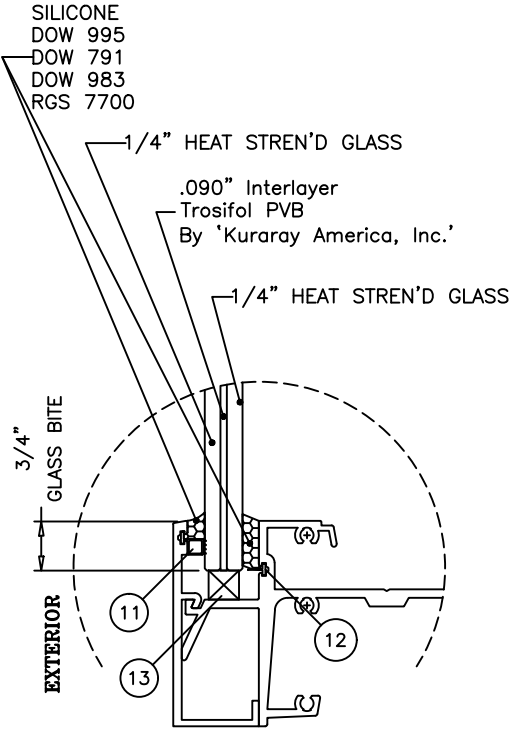
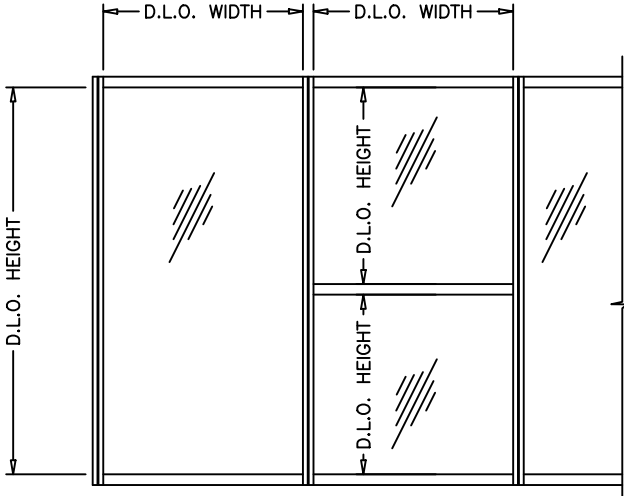
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	8/26/2022	A.M.	WW1050FPA - LMI	Rev.	A
					No.	DWG
 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)	GENERAL INFORMATION & ELEVATION	1 OF 9	Sheet	SERIES 1050	
						Desc.



GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	POS. (+)	NEG. (-)
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"	90"	73.1	102.3
81"		73.1	102.3
36"		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
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
63"		90.5	126.7
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

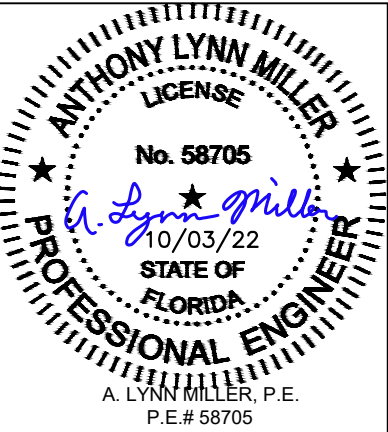
INTERPOLATION BETWEEN WIDTHS
OR HEIGHTS ALLOWED.

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



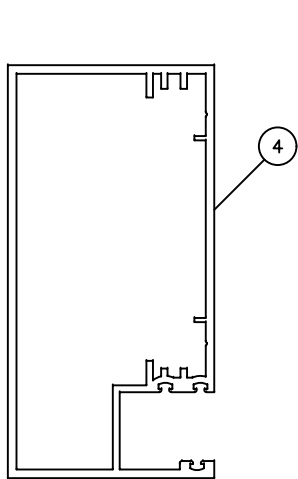
GLASS DETAIL
9/16" OVERALL LAM. GLASS

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	8/26/2022	A.M.	WW1050FPA - LMI	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)	DESIGN LOAD CAPACITY & GLAZING DETAIL	2 OF 9	Sheet
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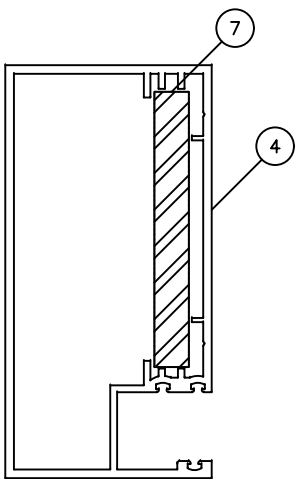


JAMB & MULLION LOAD CAPACITY – PSF											
JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J'		JAMB 'J1'		MULL 'M'		MULL 'M1'		MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
42"	84"	100.0	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	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
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

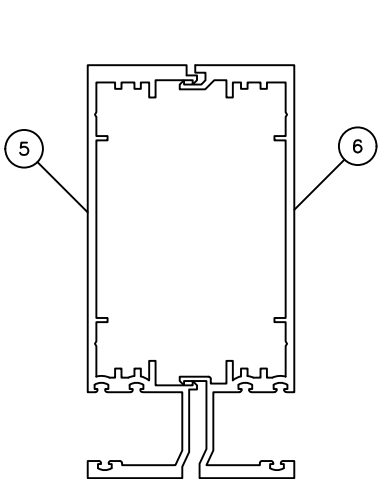
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



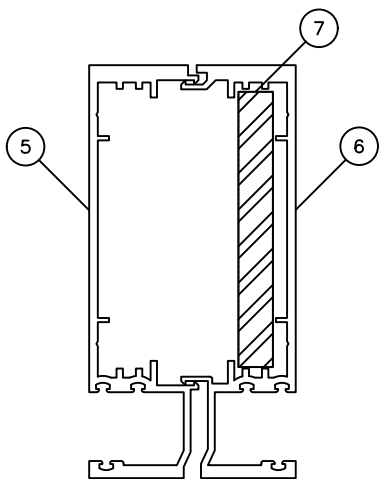
JAMB 'J'



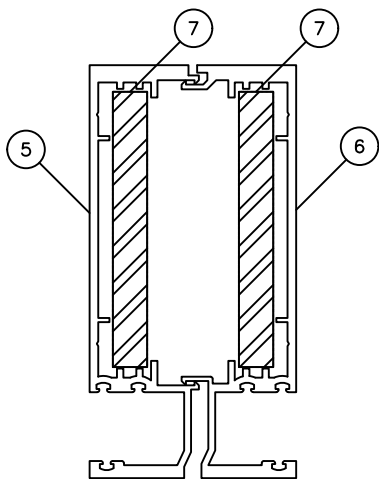
JAMB 'J1'



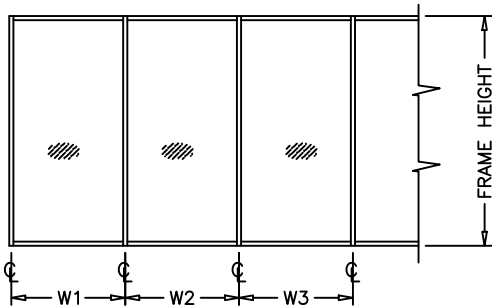
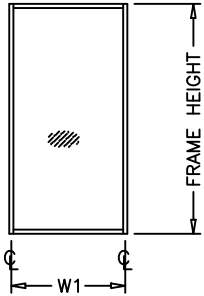
MULLION 'M'



MULLION 'M1'



MULLION 'M2'

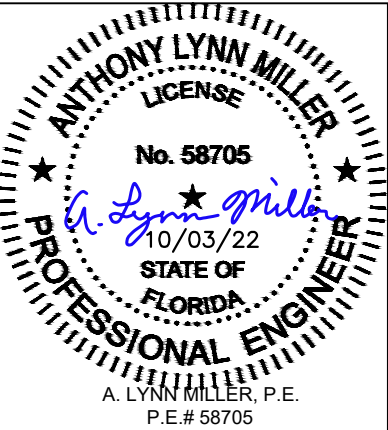


WIDTH (W) = W1
AT FRAME JAMB

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

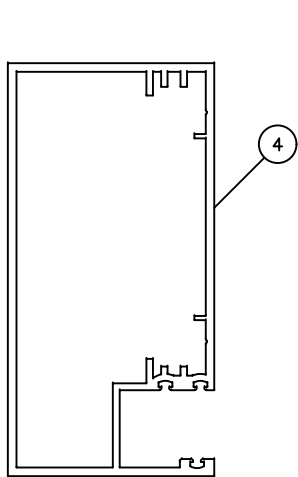
NOTE:
LOWER CAPACITY OF JAMBS 'J' OR 'J1' AND MULLION 'M', 'M1' OR 'M2'
SHALL CONTROL WHEN USED IN COMBINATION.

 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		REGISTRATION #29296		8/26/2022		Rev.	A																				
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													Date														
ECO WINDOW SYSTEMS, LLC.		REGISTRATION #29296		8/26/2022		A.M.		DWG		No.		3 OF 9		Sheet		SERIES 1050		JAMB AND MULLION CHART		Drawn By		8/26/2022		Rev.		A	
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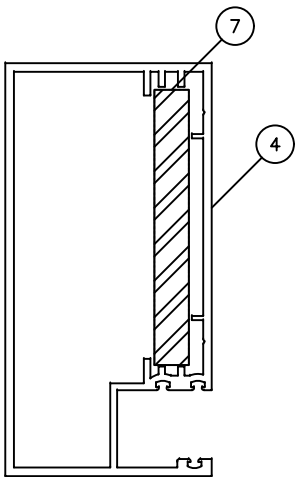


JAMB & MULLION LOAD CAPACITY – PSF											
JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J'		JAMB 'J1'		MULL 'M'		MULL 'M1'		MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
42"	84"	100.0	140.0	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	140.0	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

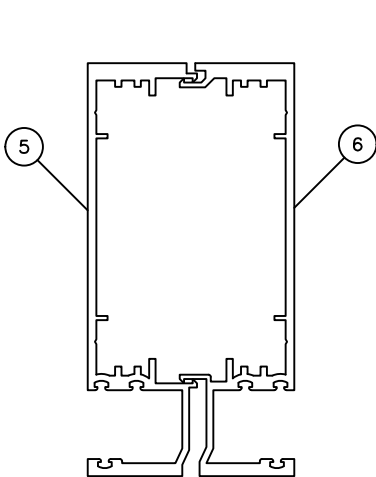
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



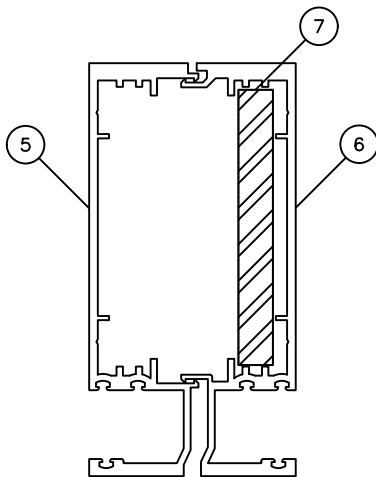
JAMB 'J'



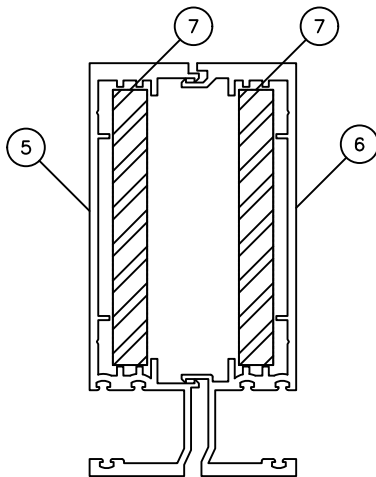
JAMB 'J1'



MULLION 'M'

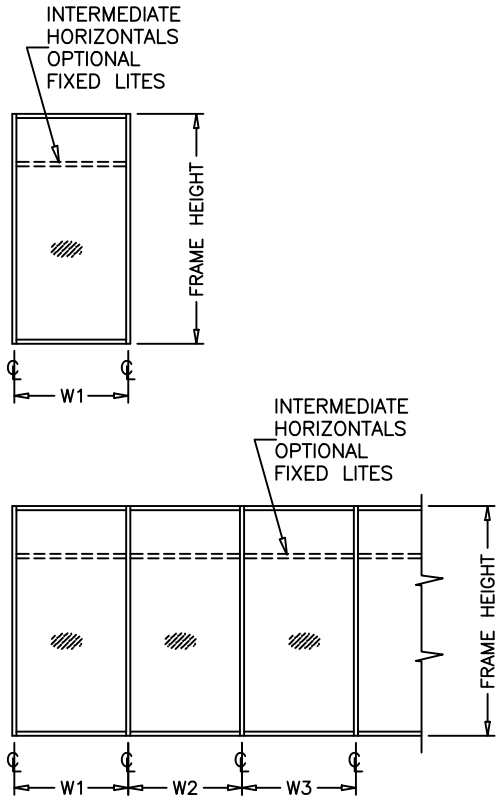


MULLION 'M1'



MULLION 'M2'

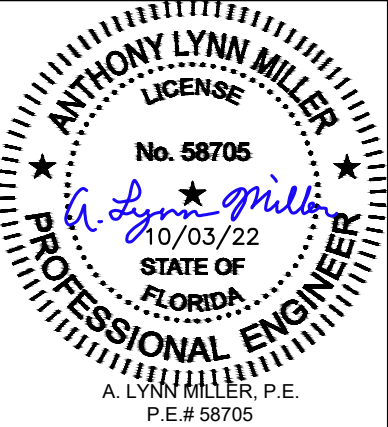
NOTE:
LOWER CAPACITY OF JAMBS 'J' OR 'J1' AND MULLION 'M', 'M1' OR 'M2'
SHALL CONTROL WHEN USED IN COMBINATION.



WIDTH (W) = W1
AT FRAME JAMB

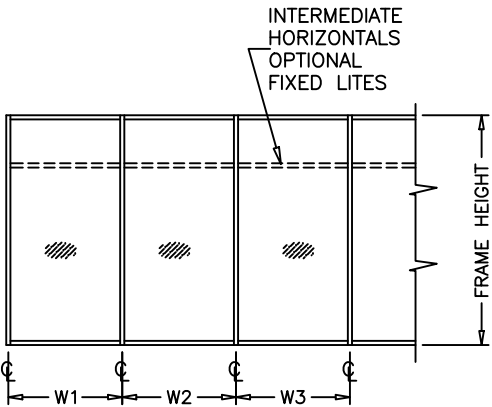
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	8/26/2022	A.M.	WW1050FPA - LMI	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)	JAMB AND MULLION CHART CONT.	4 OF 9	Sheet
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)	JAMB AND MULLION CHART CONT.	4 OF 9	Sheet
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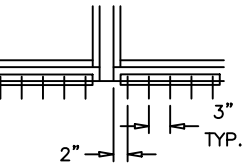
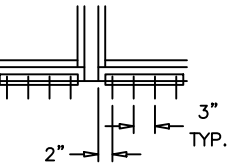
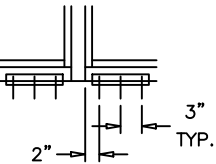
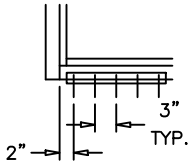
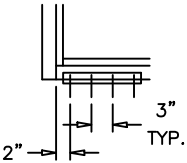
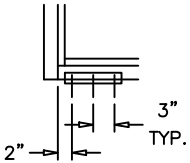
HEAD/SILL ANCHOR DESIGN LOAD CAPACITY – PSF POS.(+) & NEG(-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3/C3	B4/C4	B5/C5
42"	84"	132.2	140.0	140.0	140.0	140.0	140.0
48"		115.7	140.0	140.0	140.0	140.0	140.0
54"		102.9	137.1	140.0	140.0	140.0	140.0
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.*	118.7	120.9	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	115.7	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

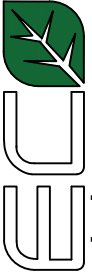
A5, B5, C5

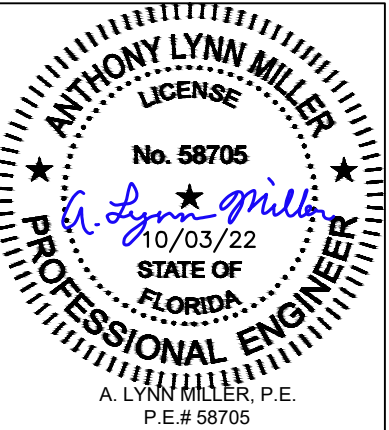
ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

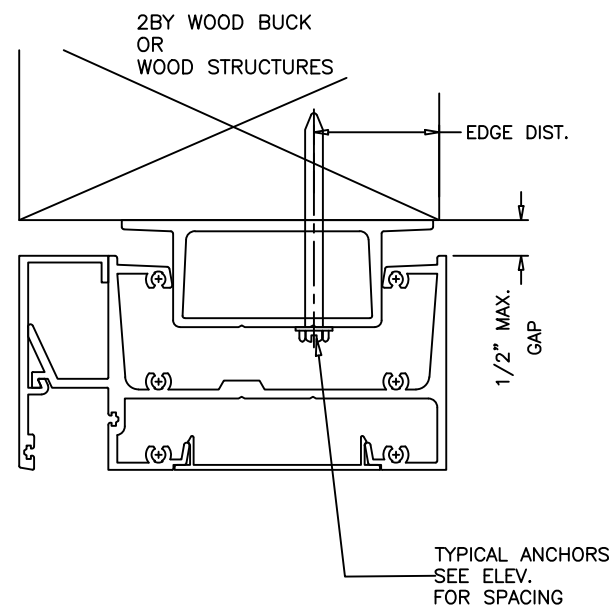
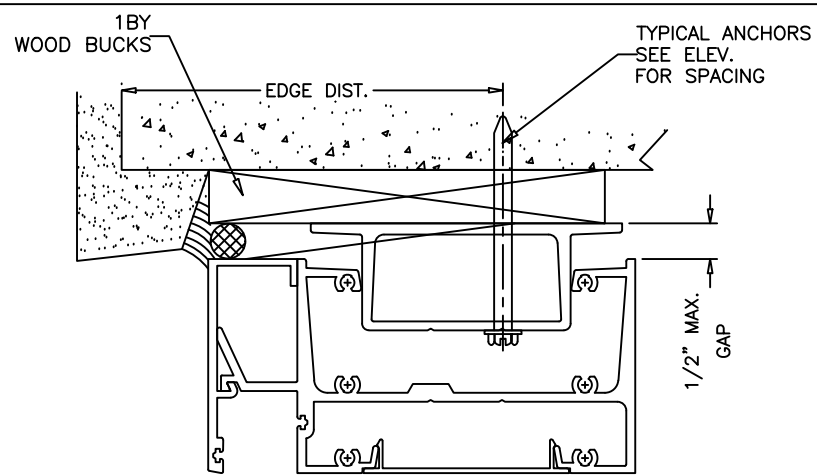
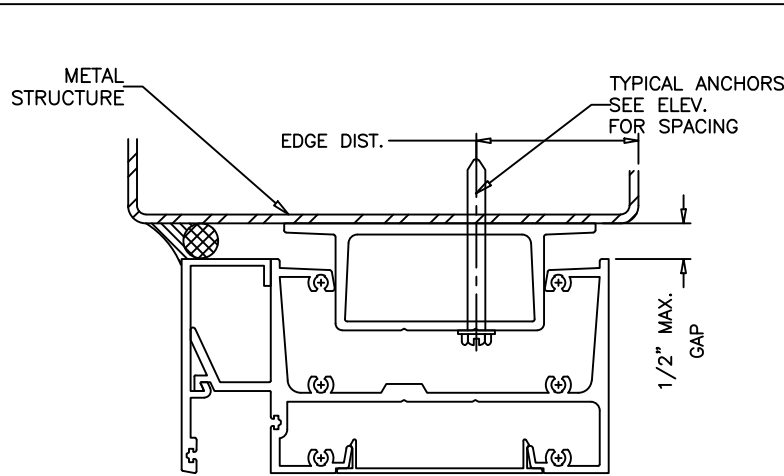
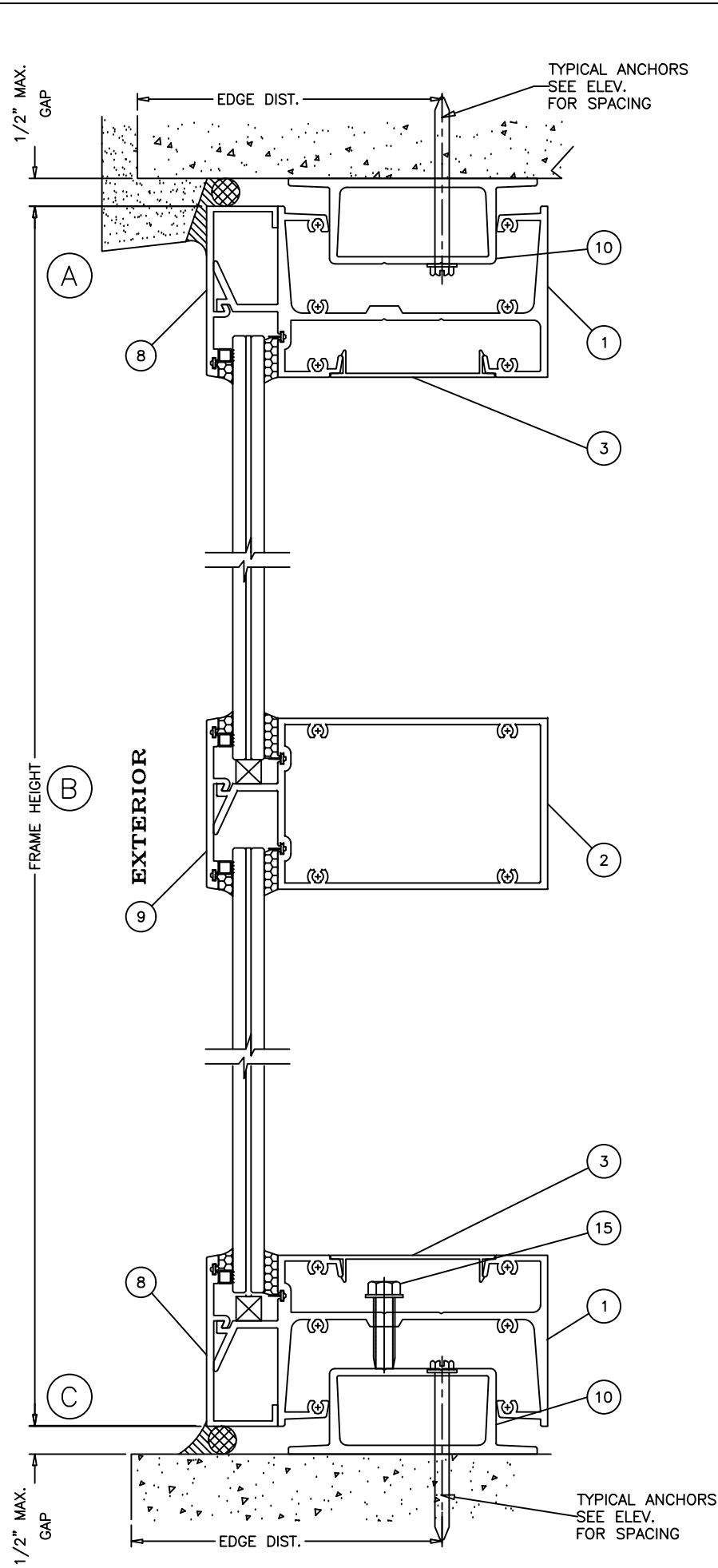
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

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

 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
Title		SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)		Date	8/26/2022
Desc.		ANCHOR SPACING AND CAPACITIES		Drawn By	A.M.
Series		SERIES 1050	Sheet	5 OF 9	DWG No.
					WW1050FPA - LMI
					Rev.
					A





1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WINDOWS' MUST SUSTAIN 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' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'B'

1/4" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO WOOD STRUCTURES
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE OR BLOCKS

TYPE 'C'

#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 CRS)
 INTO FBC APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

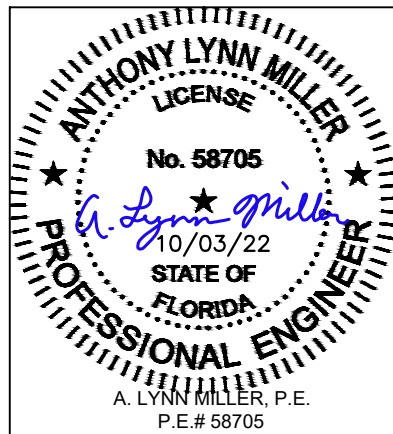
ANCHOR EDGE DISTANCES

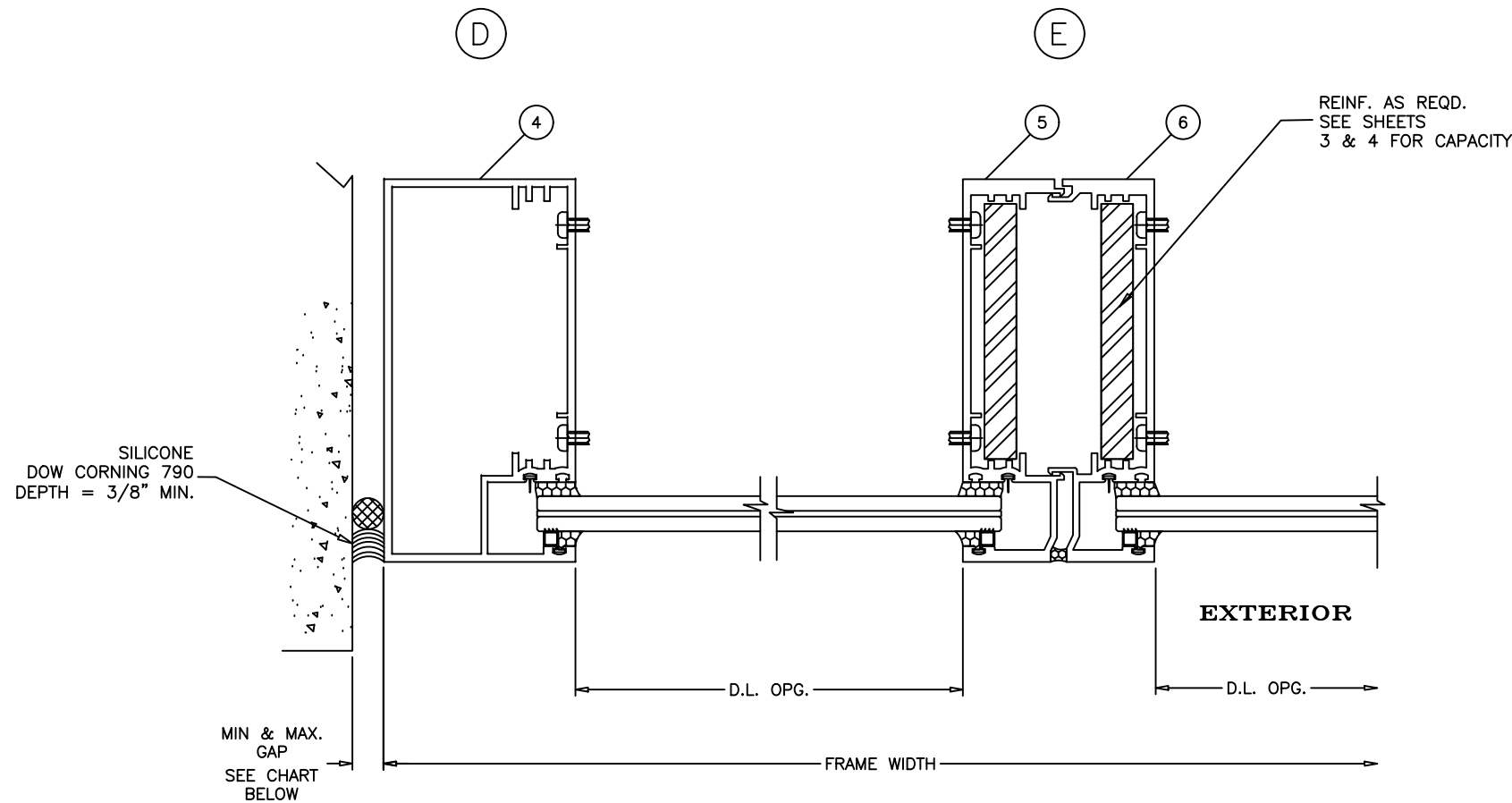
INTO CONCRETE = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

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.

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	8/26/2022	A.M.	WW1050FPA - LMI	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)	VERTICAL SECTION DETAIL & ANCHOR SPECIFICATIONS	SERIES 1050	6 OF 9	Sheet





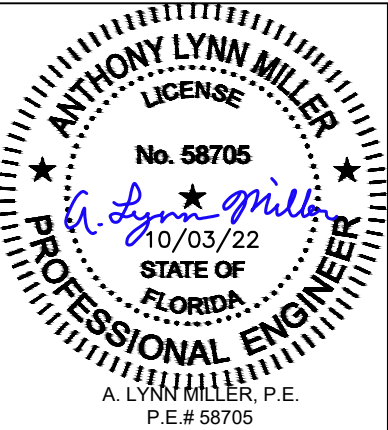
MAX. FRAME HEIGHT UP TO	GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
78"	1/4"	3/4"
96"	5/16"	3/4"
120"	3/8"	3/4"
144"	1/2"	3/4"

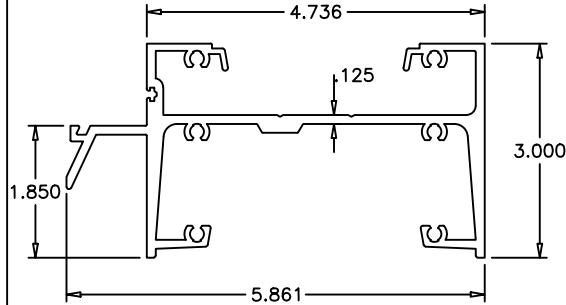
NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATIBILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

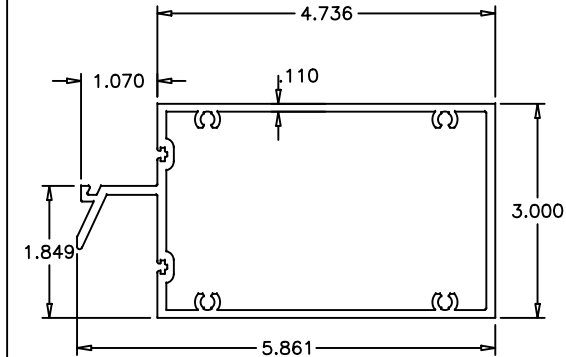
GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		REGISTRATION #29296		8/26/2022		Rev.	A
				Date			
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)		A.M.		WW1050FPA - LMI	
		UNSECURED JAMB HORIZONTAL DETAILS		By		DWC	
		SERIES 1050		Sheet		7 OF 9	
Series Desc.		Title					

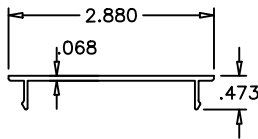




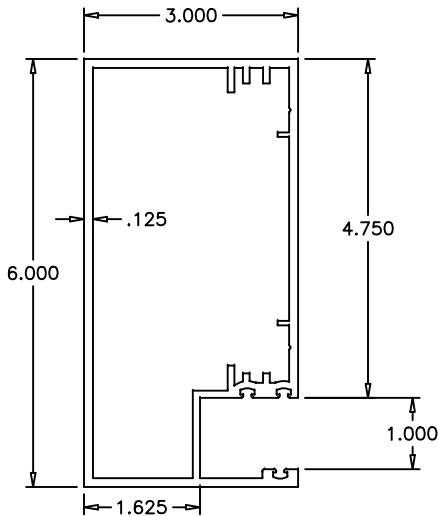
1 FRAME HEAD/SILL



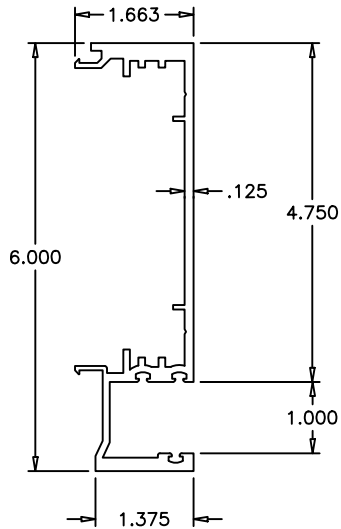
2 INTERMEDIATE HORIZONTAL



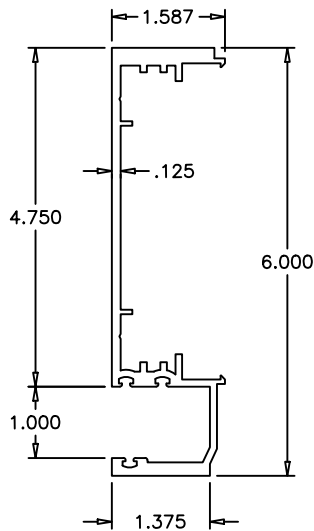
3 HEAD/SILL COVER



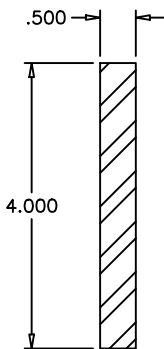
4 FRAME JAMB



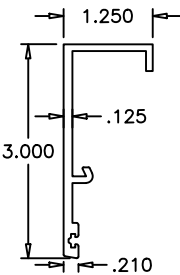
5 MALE MULLION



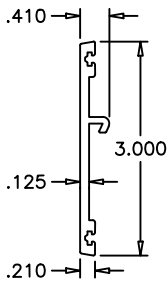
6 FEMALE MULLION



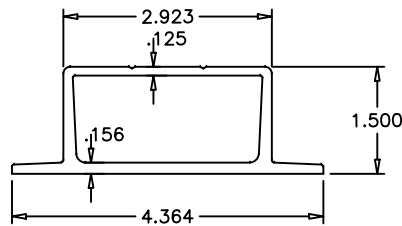
7 MULLION REINF



8 HEAD/SILL CAP



9 HORIZONTAL CAP

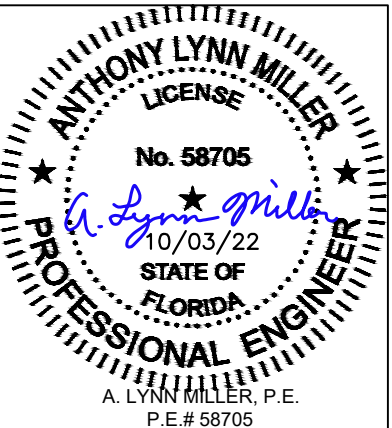


10 ANCHOR BASE

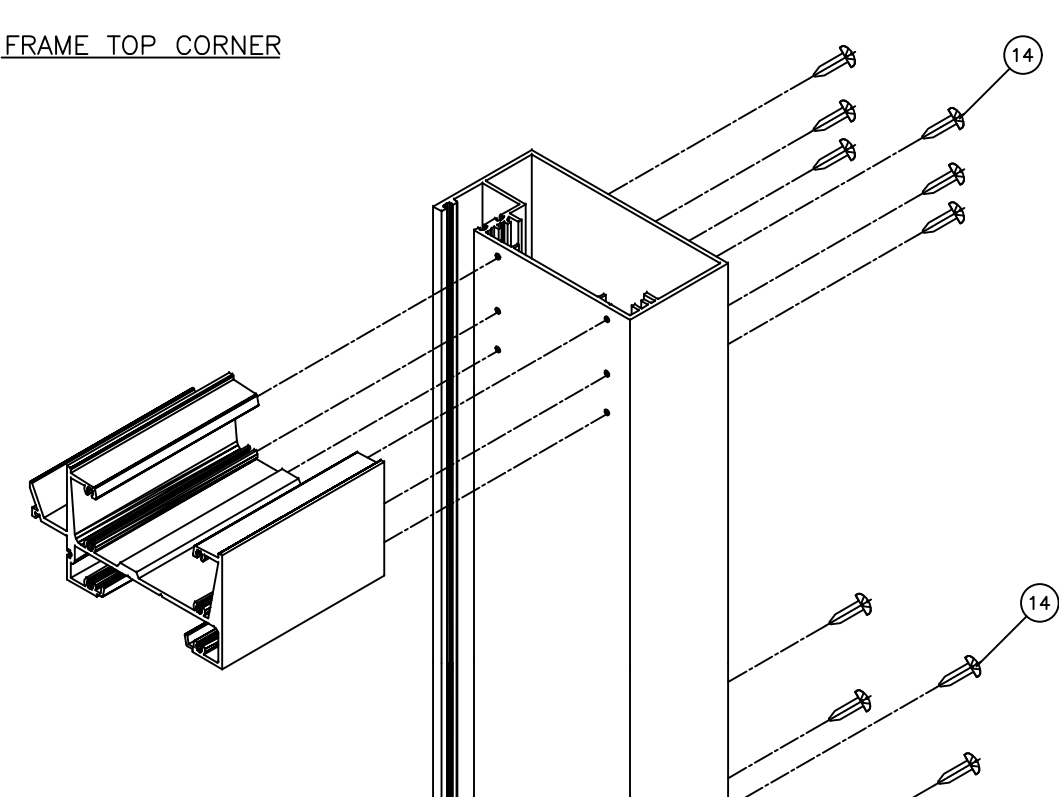
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E1055	AS REQD.	FRAME HEAD/SILL	6063-T6	-
2	E1053	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	E1058	AS REQD.	HEAD/SILL COVER	6063-T6	-
4	E1024	AS REQD.	FRAME JAMB	6063-T6	-
5	E1052	AS REQD.	MALE MULLION	6063-T6	-
6	E1051	AS REQD.	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	E1061	4/ LITE	SILICONE DAM	EPDM	DUROMETER 80±5 SHORE A
13	-	2/ LITE.	SETTING BLOCK, AT 1/4 POINTS (LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
14	#12 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST/ST	PH SMS
15	5/16" MACH. BOLT	2/ LITE	LEVELING SCREW	ST/ST	-

Revision:

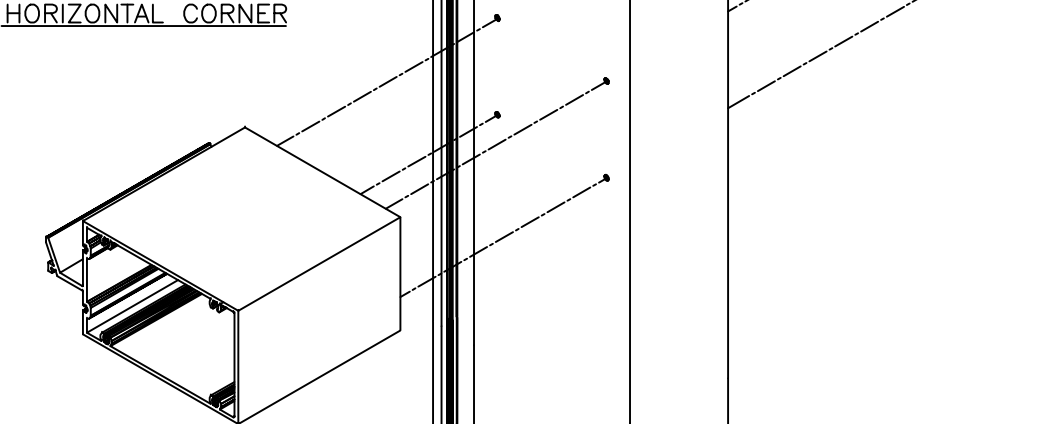
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	8/26/2022	A.M.	WW1050FPA - LMI	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)	BOM & EXTRUSION PROFILES	8 OF 9	Sheet
window systems	BOM & EXTRUSION PROFILES	SERIES 1050	8 OF 9	Sheet



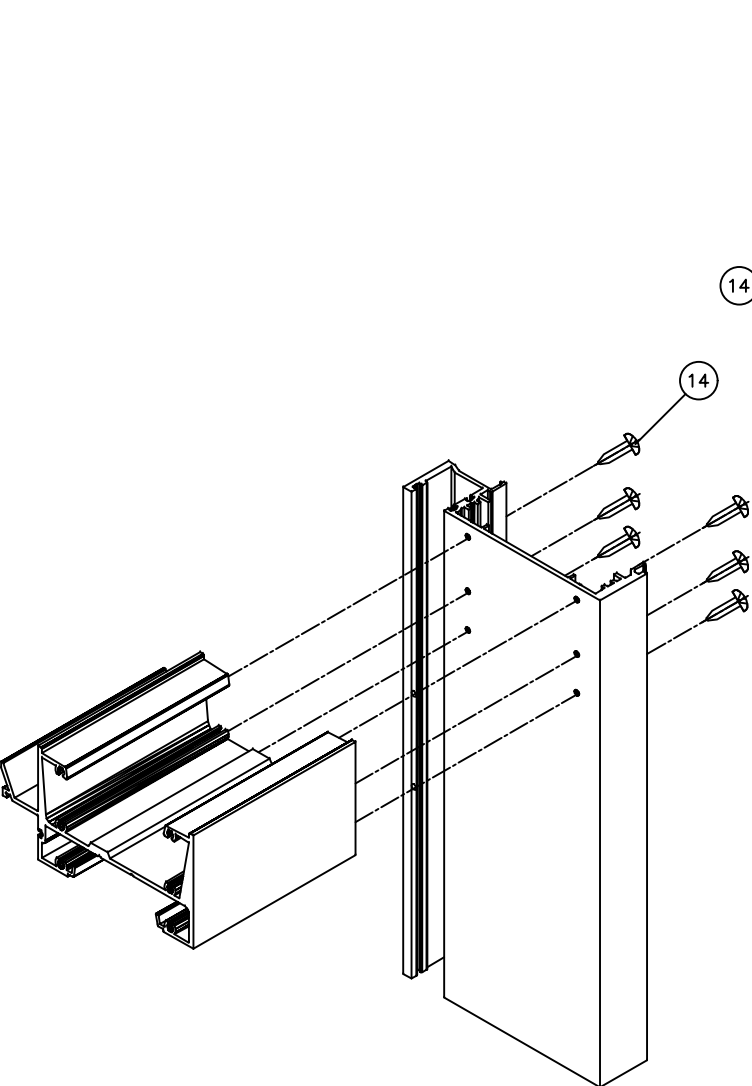
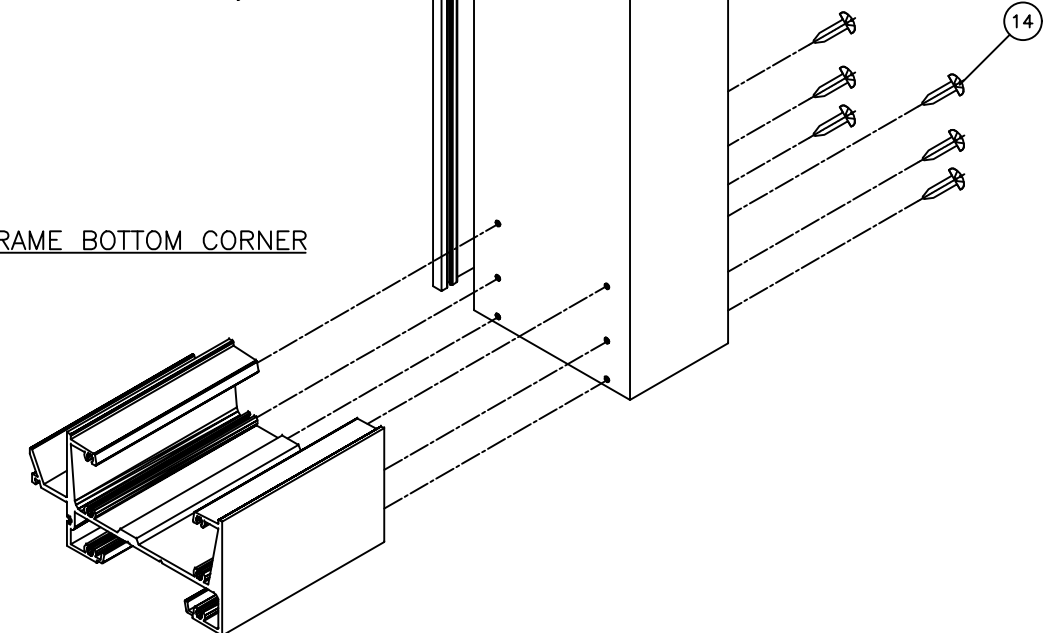
FRAME TOP CORNER



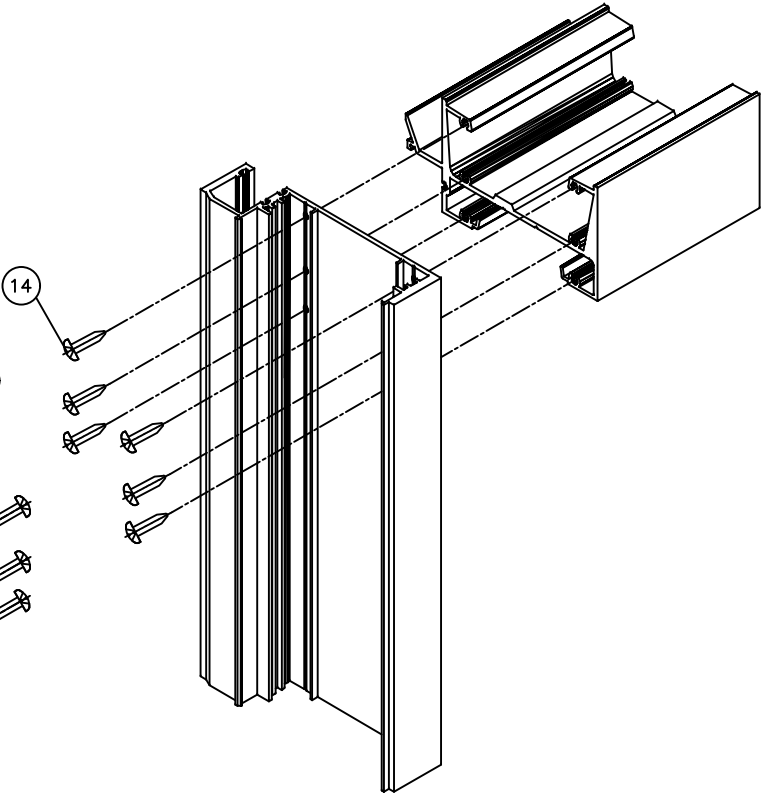
HORIZONTAL CORNER



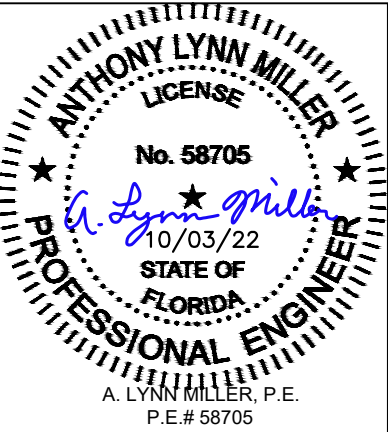
FRAME BOTTOM CORNER



MULLION CORNER



PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		8/26/2022		Rev.	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		A.M.		WW1050FPA - LMI		DWG No.	
SERIES 1050 ALUM. WINDOW WALL SYSTEM (L.M.I.)		CORNER ASSEMBLY DETAILS		9 OF 9		Sheet	
SERIES 1050		SERIES 1050		9 OF 9		DWG No.	



Revision: