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Product Approval
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FL #	FL32389-R5	
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 carlos.martinez@ecowindowsystems.com	
Authorized Signature	Carlos Martinez carlos.martinez@ecowindowsystems.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	Windows	
Subcategory	Fixed	
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. Urlich, PE ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL32389 R5 COI Cert of Independence.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994
Equivalence of Product Standards Certified By		
Sections from the Code		

Product Approval Method

Method 1 Option D

Date Submitted 10/06/2023
 Date Validated 10/09/2023
 Date Pending FBC Approval 10/18/2023
 Date Approved 12/13/2023
 Date Revised 12/13/2024

Summary of Products

FL #	Model, Number or Name	Description
32389.1	Series 70 Aluminum Fixed Window	Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW70FPA - LMI REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW70LMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.2	Series 70 Aluminum Fixed Window	Non-impact Resistant, Aluminum Fixed Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No 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 FL32389_R5_II_PW70FPA - NI REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW70NI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.3	Series 300 Aluminum Fixed Window	Large Missile Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW300FPA - LMI REV A2.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW300LMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.4	Series 300 Aluminum Fixed Window	Small Missile Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW300FPA - SMI REV A2.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW300SMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.5	Series 350 Aluminum Fixed Window	Large Missile Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW350FPA - LMI REV A2.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW350LMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.6	Series 350 Aluminum Fixed Window	Small Missile Impact Resistant, Aluminum Fixed Window

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 FL32389_R5_II_PW350FPA - SMI REV A2.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW350SMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.7	Series 550 Aluminum Fixed Window	Large Missile Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW550FPA - LMI REV A2.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW550LMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.8	Series 550 Aluminum Fixed Window	Small Missile Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW550FPA - SMI REV A2.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW550SMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.9	Series 610 Aluminum Fixed Window	Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW610FSFPA - LMI REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW610FSLMI ENG EVAL REV A.pdf Created by Independent Third Party: No
32389.10	Series 620 Aluminum Fixed Window	Impact Resistant, Aluminum Fixed Window
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 FL32389_R5_II_PW620FSFPA - LMI REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL32389_R5_AE_ECO_PW620FSLMI ENG EVAL REV A.pdf Created by Independent Third Party: No

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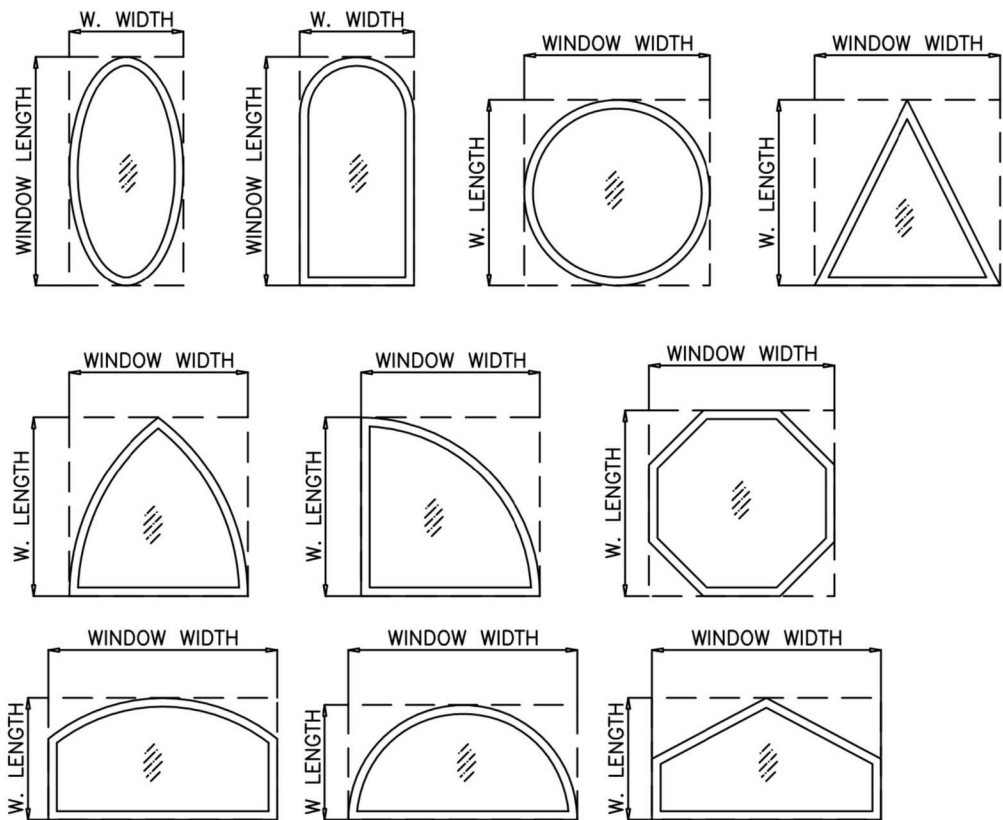
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:

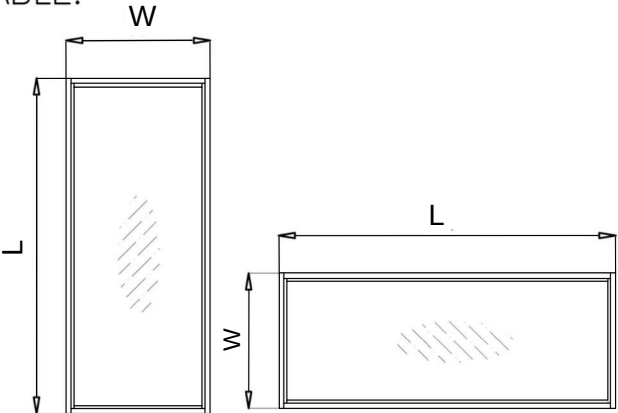


Design Load Capacity - PSF														
5/16" Lam. Glass		Window Length (in.)												
		26"	38-3/8"	48"	50-5/8"	56"	60"	63"	72"	76"	78"	84"	96"	104"
Window Width (in.)	19-1/8"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	24"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	26-1/2"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	30"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	32"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	36"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	
	37"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0		
	42"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0		
	48"	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0				
	53-1/8"	+/-60.0	+/-60.0	+/-60.0	+/-56.9	+/-54.2	+/-54.2	+/-54.2						
	54"	+/-60.0	+/-60.0	+/-60.0	+/-53.3	+/-53.3	+/-53.3							
	60"	+/-60.0	+/-60.0	+/-60.0	+/-48.0	+/-48.0	+/-48.0							

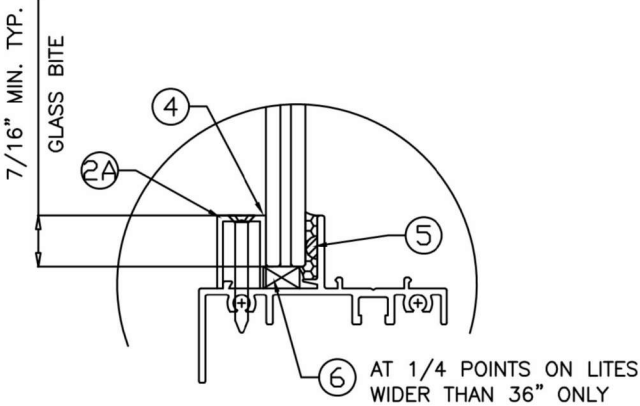
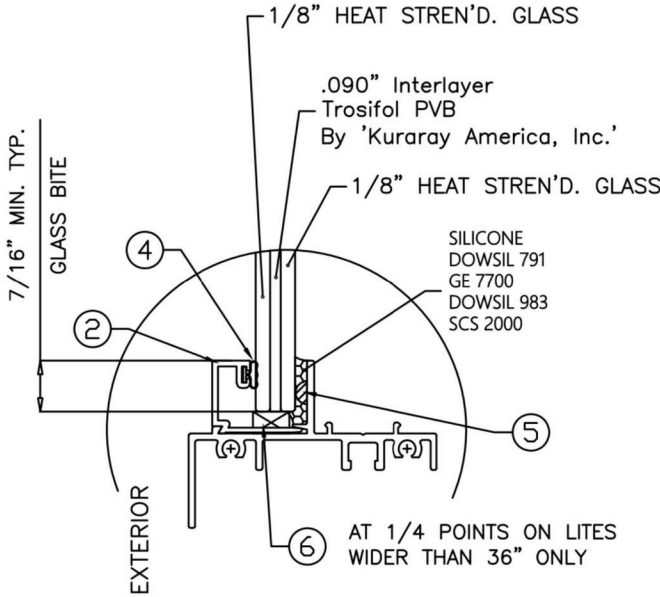
FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR LENGTH DIMENSION SHOWN ON THE TABLE.



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.



GLAZING DETAILS
5/16" OVERALL LAM. GLASS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300- 16 (3 SEC. GUSTS)

FL#32389.1



JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102 Doral,
FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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drawing no.	date:	JA-1844-24	12/30/2024	REVISION		DESCRIPTION	BY	DATE	No.
MA	drawn by:	BS	check by:						

SERIES 70-ALUMINUM FIXED WINDOW
(L.M.I & S.M.I.)

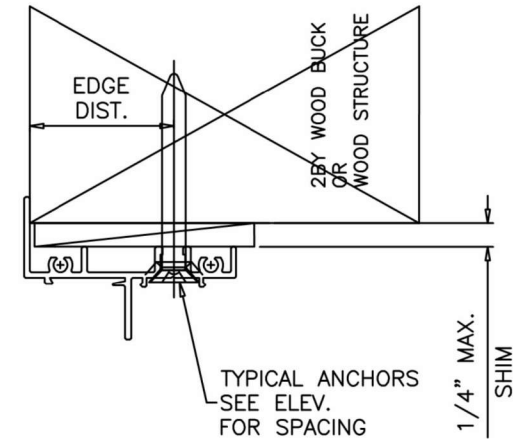
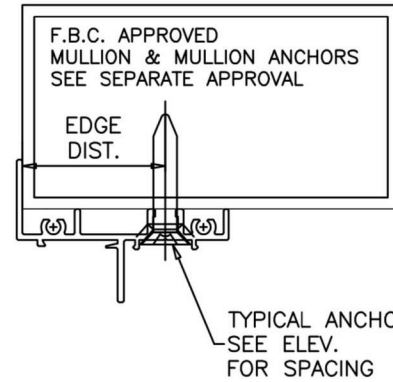
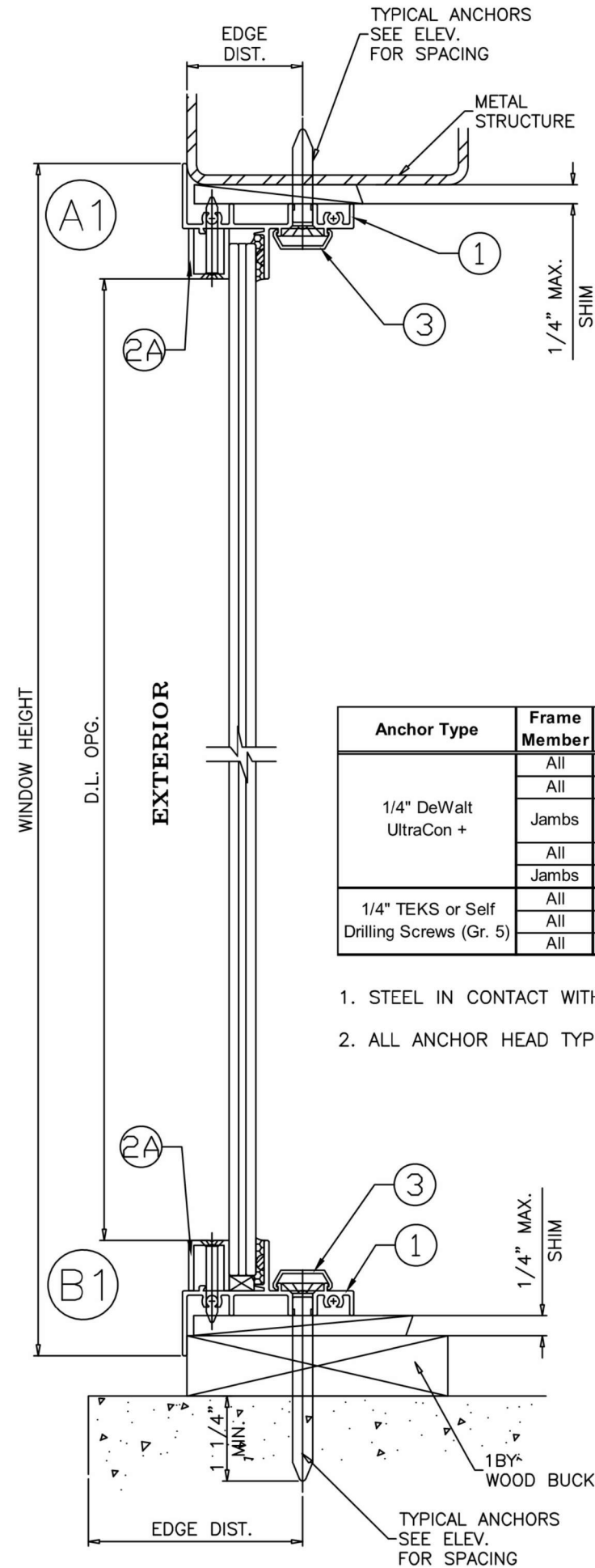
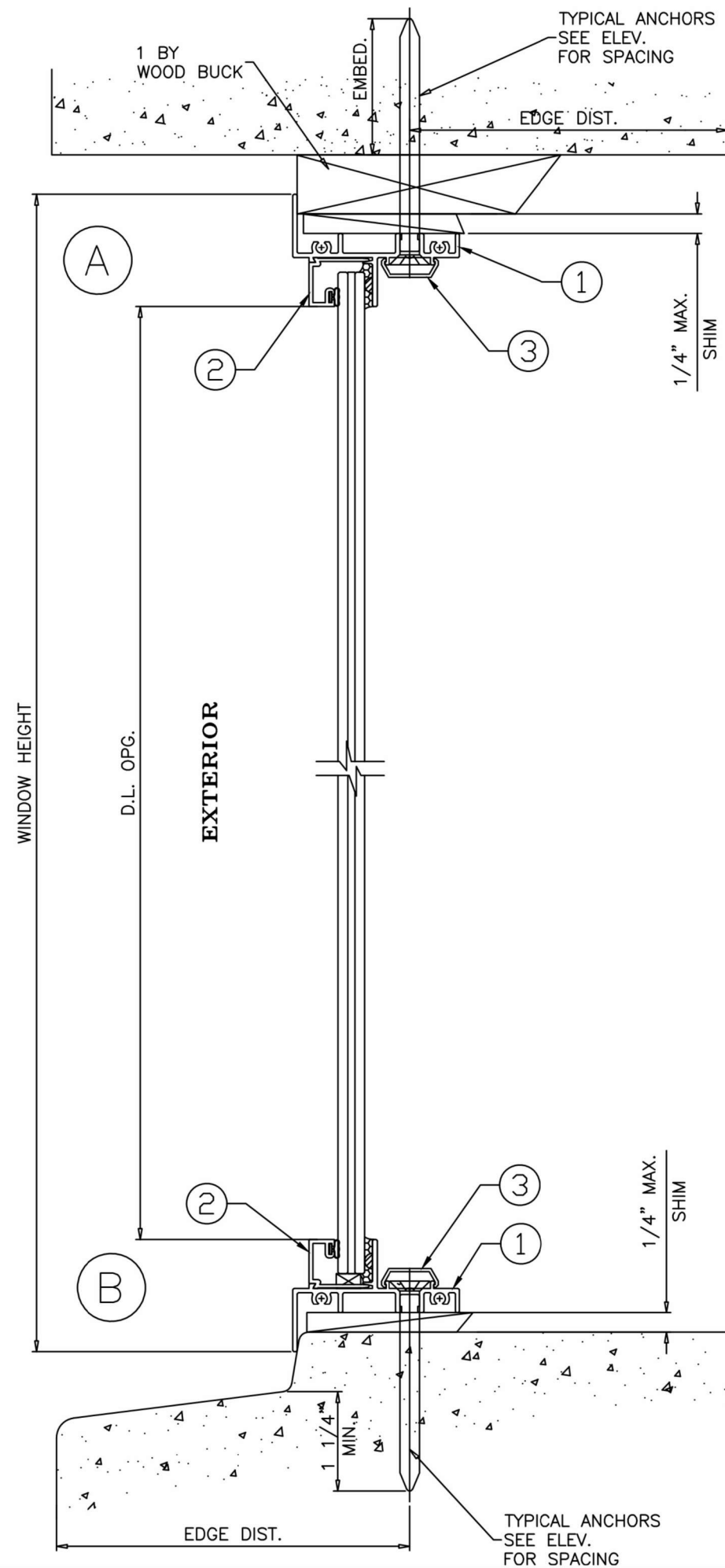
LARGE & SMALL MISSILE IMPACT RATED



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



SEALED: 12/30/2024



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

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DeWalt UltraCon +	All	Southern Pine (SG = 0.55)	1"	1-1/2"
	All	Thru 1BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	Concrete (min. 3ksi)	2-1/2"	1-1/4"
	Jambs	Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
1/4" TEKS or Self Drilling Screws (Gr. 5)	All	F.B.C Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	All	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102 Doral,
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Ph: (305) 424-8001
support@ja-pe.com

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drawing no.	JA-1844-24	drawn by:	MA
date:	12/30/2024	check by:	BS
REVISION			
No.	DATE	BY	DESCRIPTION

SERIES 70-ALUMINUM FIXED WINDOW
(L.M.I & S.M.I.)
LARGE & SMALL MISSILE IMPACT RATED



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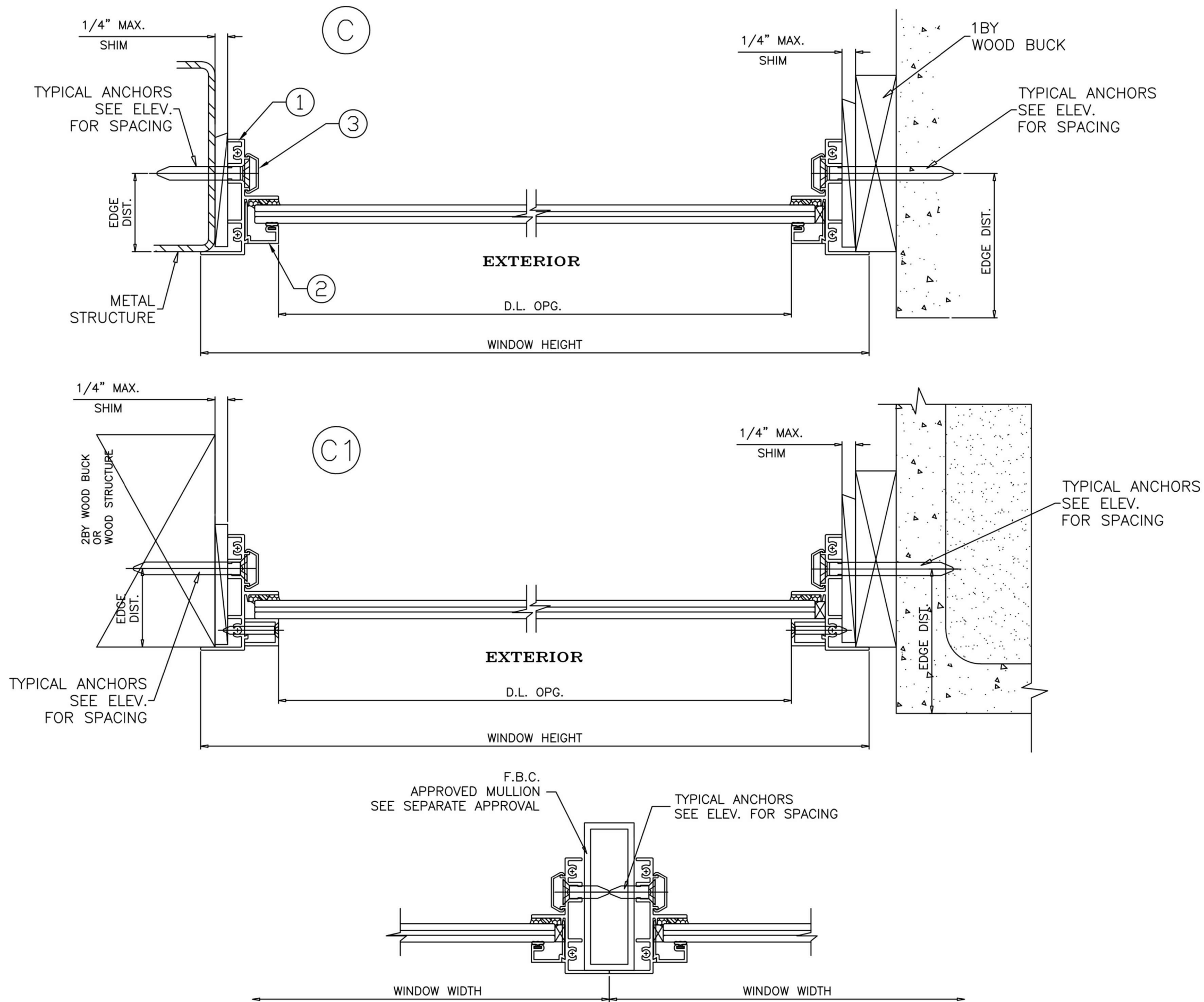


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03

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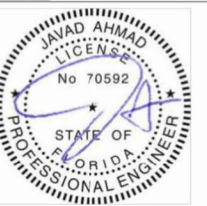
drawing no.	JA-1844-24	drawn by:	MA
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SERIES 70: ALUMINUM FIXED WINDOW
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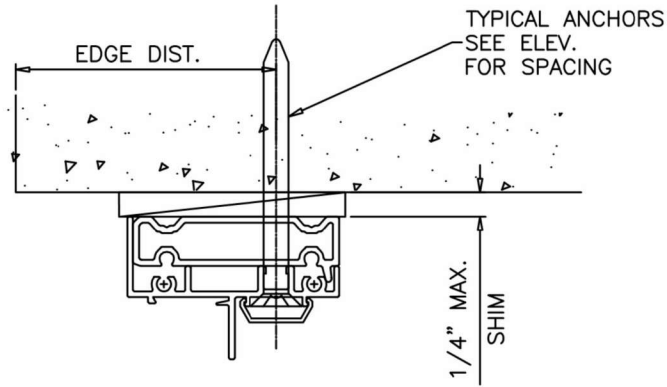
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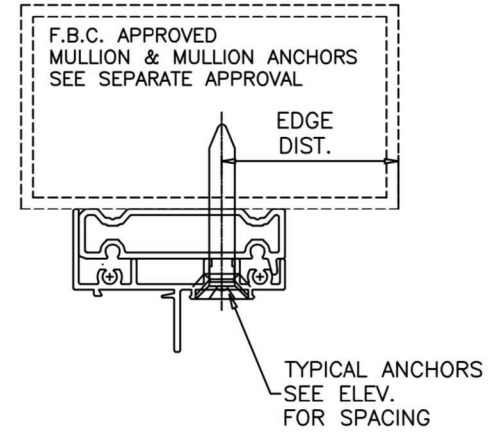
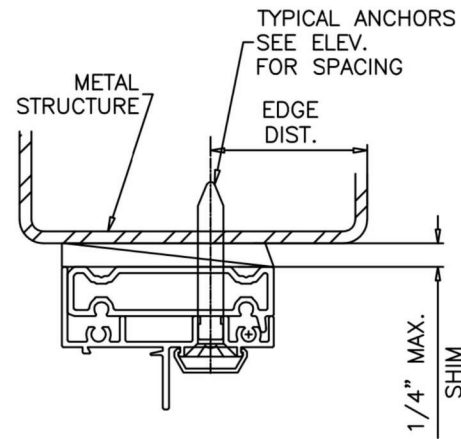
04

04 of 06

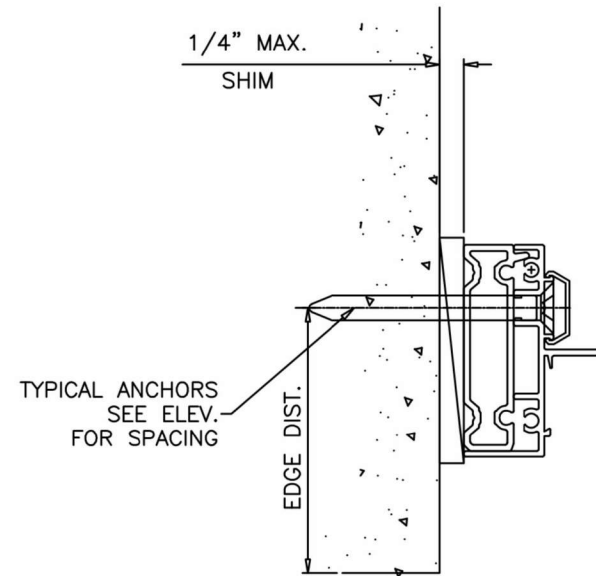
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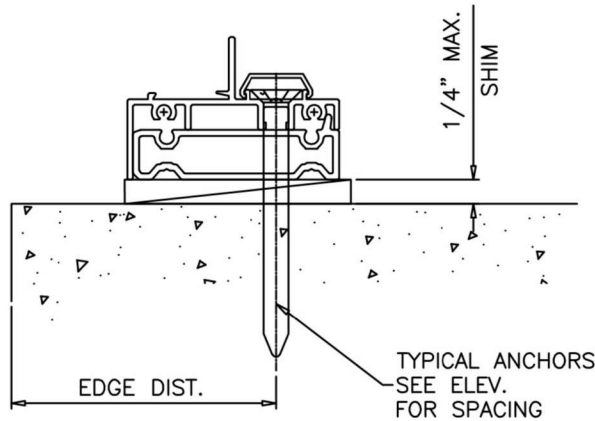
A1
ALT.



C
ALT.



B
ALT.



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

FL#32389.1



JAVAD AHMAD PE, inc

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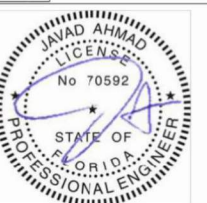
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drawing no.	date:	JA-1844-24	drawn by:	MA
		12/30/2024	check by:	BS
REVISION				
No.	DATE	BY	DESCRIPTION	

SERIES 70: ALUMINUM FIXED WINDOW
(L.M.I & S.M.I)
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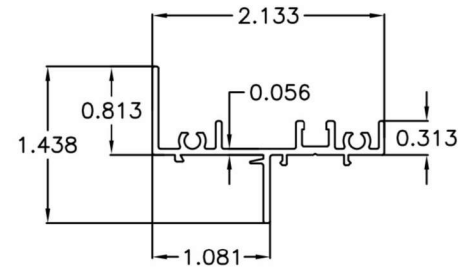
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST., MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



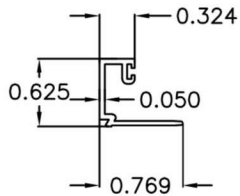
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05

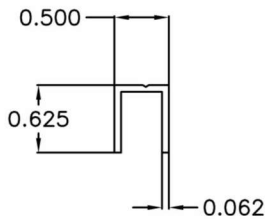
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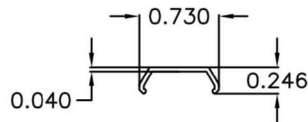
1 WINDOW FRAME



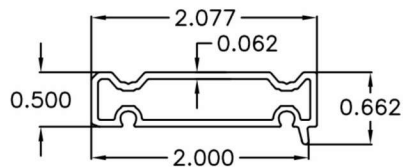
2 GLAZING BEAD
(RECT. OR SQUARE WDW.)



2A GLAZING BEAD
(CIRCULAR WDW.)



3 SCREW COVER

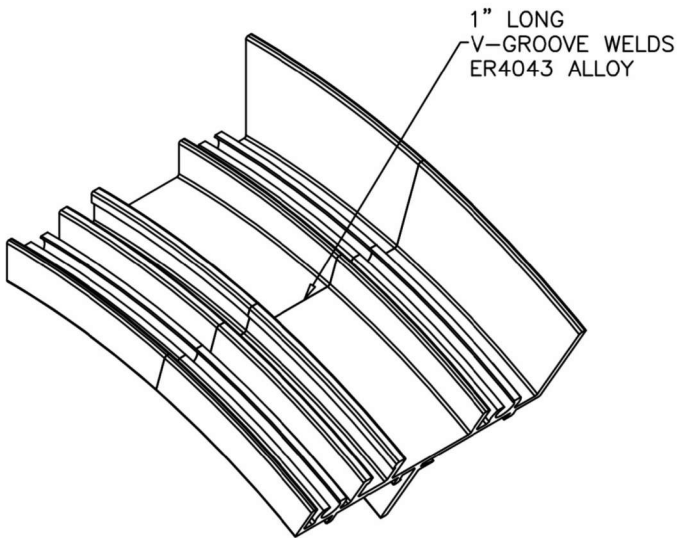


9 FLUSH FRAME ADAPTER

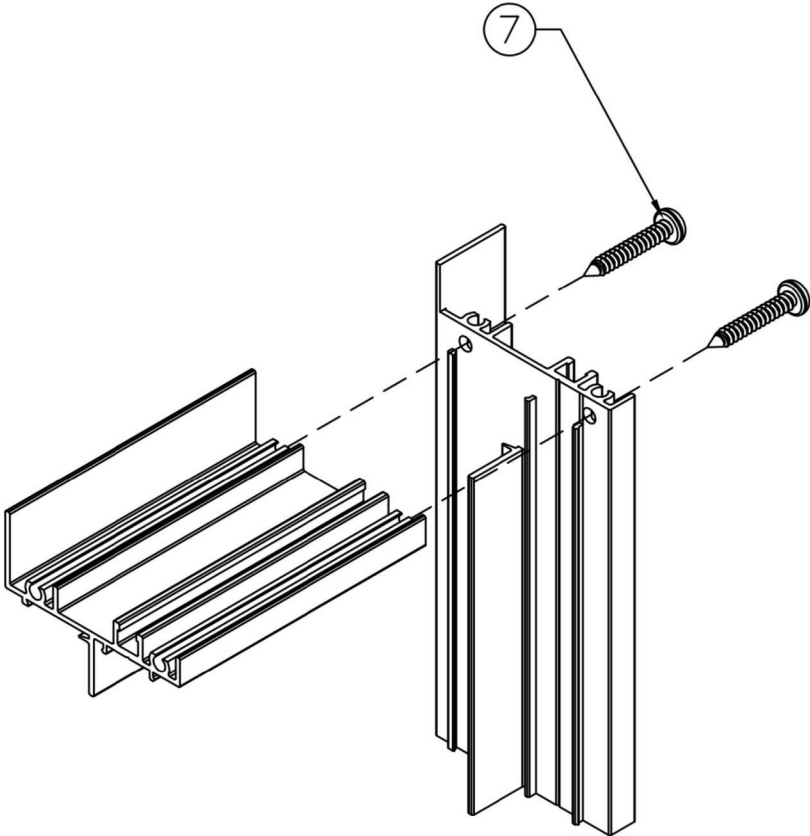
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E71	4	WINDOW FRAME	6063 - T6	-
2	E58	4	GLAZING BEAD (RECT. OR SQUARE WDW.)	6063 - T6	-
2A	E72	4	GLAZING BEAD (CIRCULAR WDW.)	6063 - T6	-
3	E162	AS REQD.	SCREW COVER	RIGID PVC	-
4	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB, DUROMETER 65±5
5	FLB-50	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
6	-	2/LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
7	#8 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	P.H. SMS
8	#8 X 1"	AS REQD.	GLAZING BEAD FASTENERS, AT 3" FROM ENDS & 12" O.C.	ST/ST	F.H. SMS
9	E60	-	FLUSH FRAME ADAPTER	6063 - T6	OPTIONAL

SEALANT:

ALL JOINT AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.



CIRCULAR WINDOWS



RECT. OR SQUARE WINDOWS



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