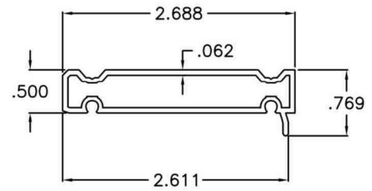
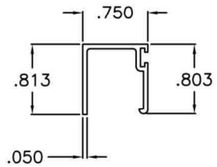


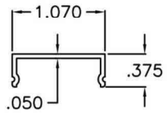
① FRAME HEAD/SILL/JAMB



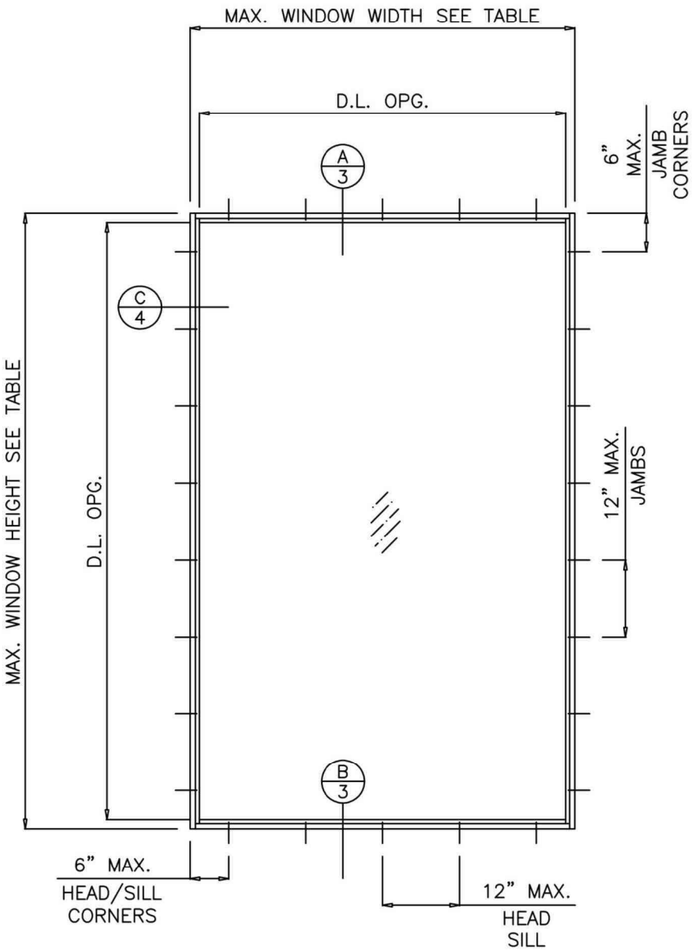
⑦ FLUSH FRAME ADAPTER



② GLAZING BEAD



③ ANCHOR COVER



TYPICAL ELEVATION

ECO-GUARD SERIES-300 ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. 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 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 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 LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

GLASS D.L.O. DIMS.
D.L.O. HEIGHT = WINDOW HEIGHT – 3.625"
D.L.O. WIDTH = WINDOW WIDTH – 3.625"

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

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.

FL#32389.3

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.	JA-1439-25	drawn by:	AK
date:	07/03/2025	check by:	MK

REVISION			
No.	DATE	BY	DESCRIPTION

SERIES 300: ALUMINUM FIXED WINDOW (L.M.I.)
LARGE MISSILE IMPACT RATED

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

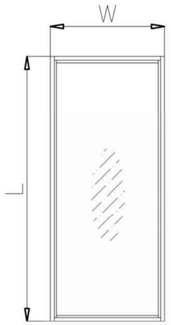
JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

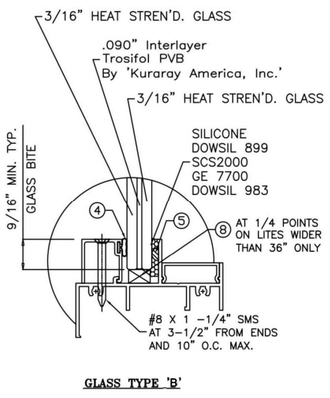
SEALED: 07/03/2025

Design Load Capacity - PSF

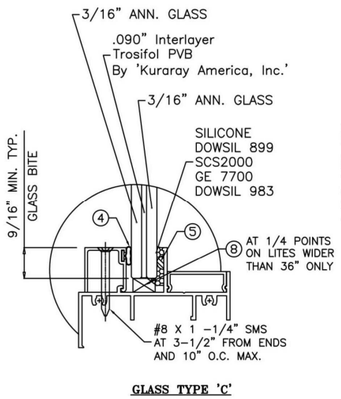
Window Width (in.)	Glass Type	Window Length (in.) 26"		36"		38-3/8"		48"		50-5/8"		60"		63"		72"		76"		84"		96"		108"		120"	
24"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0
26-1/2"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0
30"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0
36"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-76.2	+74.5	-74.5	+74.5	-74.5
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0
37"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+70.0	-70.0	+64.6	-64.6	+61.5	-61.5		
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0		
42"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+70.0	-70.0	+70.0	-70.0	+64.6	-64.6	+61.5	-61.5		
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0		
48"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-76.6	+75.0	-76.6	+67.9	-69.9	+65.6	-65.6	+59.9	-59.9				
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0				
53-1/8"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+71.3	-76.0	+67.9	-72.5	+67.9	-72.5	+67.9	-69.9	+67.9	-69.9	+64.3	-64.3						
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0						
54"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+71.3	-73.1	+66.8	-71.3	+66.8	-71.3	+66.8	-71.3	+64.3	-64.3	+64.3	-64.3						
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0						
60"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+71.3	-73.1	+60.2	-64.2	+60.2	-64.2	+60.2	-64.2										
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0										
66"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+71.3	-73.1	+60.2	-64.2														
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0														
72"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-76.6	+71.3	-73.1	+60.2	-64.2														
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0														
74"	B,C	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+71.3	-73.1	+71.3	-73.1																
	D	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0																

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

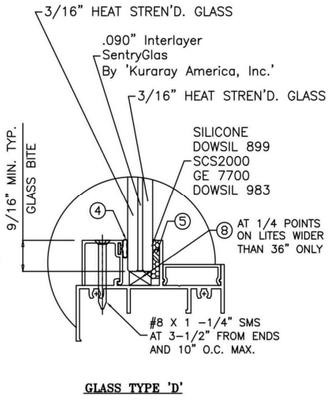




GLASS TYPE 'B'



GLASS TYPE 'C'



GLASS TYPE 'D'

GLAZING OPTIONS

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

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

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.

FL#32389.3

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

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drawn by: AK
check by: MK
drawing no. JA-1439-25
date: 07/03/2025

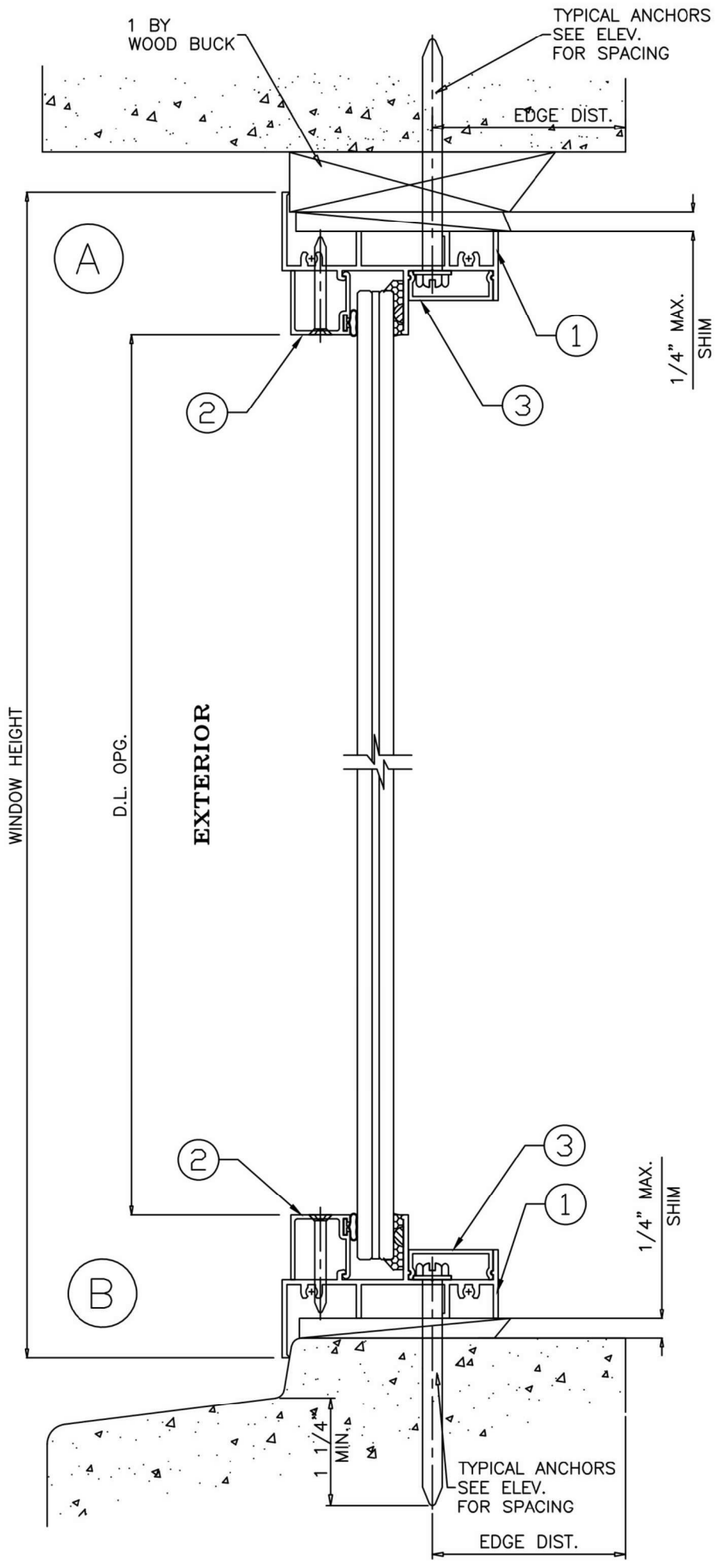
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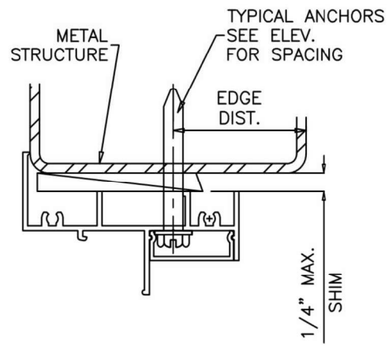
No.	DATE	BY	DESCRIPTION

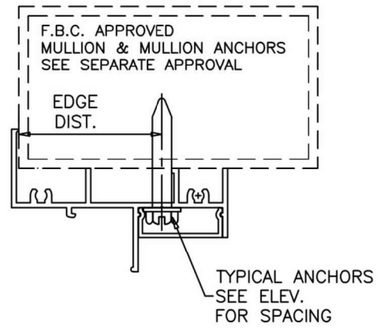
SERIES 300: ALUMINUM FIXED WINDOW (L.M.I.)
LARGE MISSILE IMPACT RATED

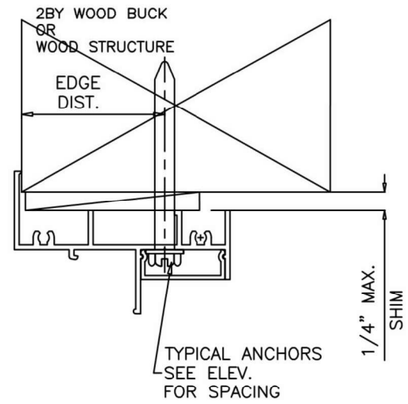
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER
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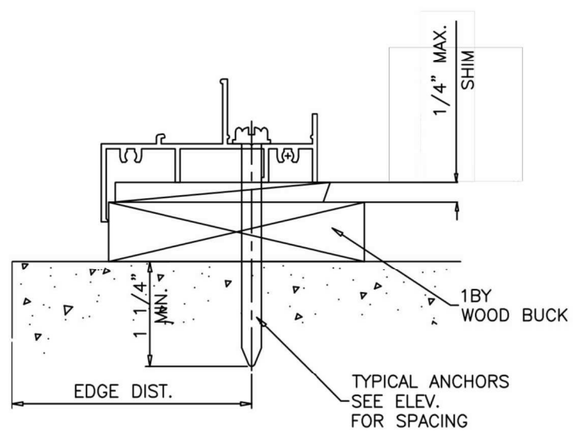


WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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"
#14 SMS or Self Drilling Screws (Gr. 2)	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



SEALANT:

ALL JOINT AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.

FL#32389.3

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drawn by: AK | check by: MK
drawing no. JA-1439-25 | date: 07/03/2025

REVISION

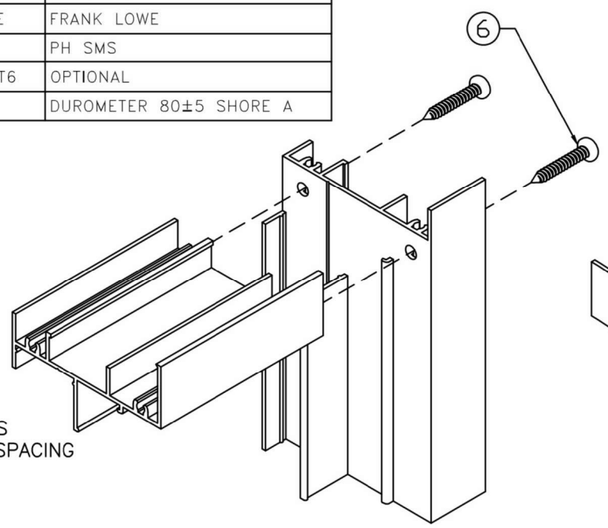
No.	DATE	BY	DESCRIPTION

SERIES 300: ALUMINUM FIXED WINDOW (L.M.I.)
LARGE MISSILE IMPACT RATED

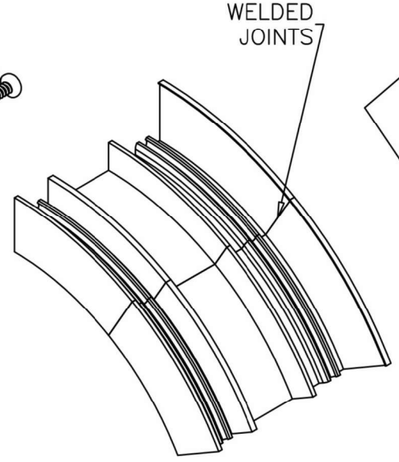
ECO window systems
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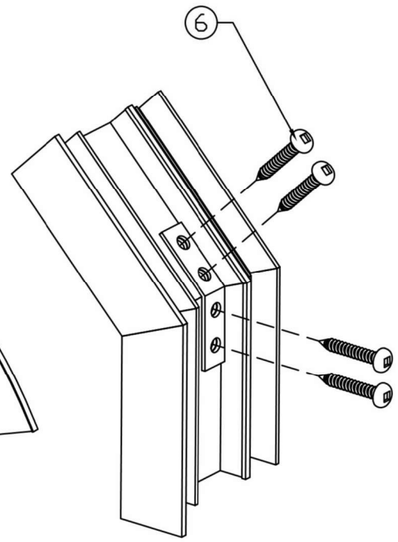
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FY301	2	FRAME HEAD/SILL/JAMB	6063 – T6	–
2	FY302	AS REQD.	GLAZING BEAD – 7/16" GLASS	6063 – T6	–
3	FY303	AS REQD.	ANCHOR COVER	6063 – T5	–
4	E203	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB
5	FLB–50	1	GLASS SPACER – 1/8" HIGH	SILICONE	FRANK LOWE
6	#8 x 1"	8	FRAME ASSEMBLY SCREW	CRS	PH SMS
7	FY120	–	FLUSH FRAME ADAPTER	6063 – T6	OPTIONAL
8	–	2/LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A



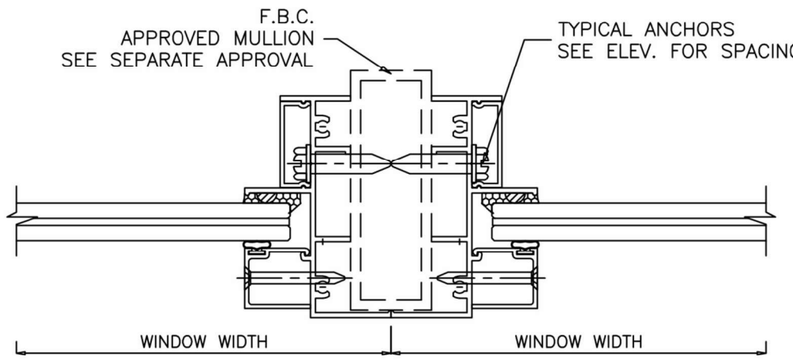
RECT. OR SQUARE WINDOWS



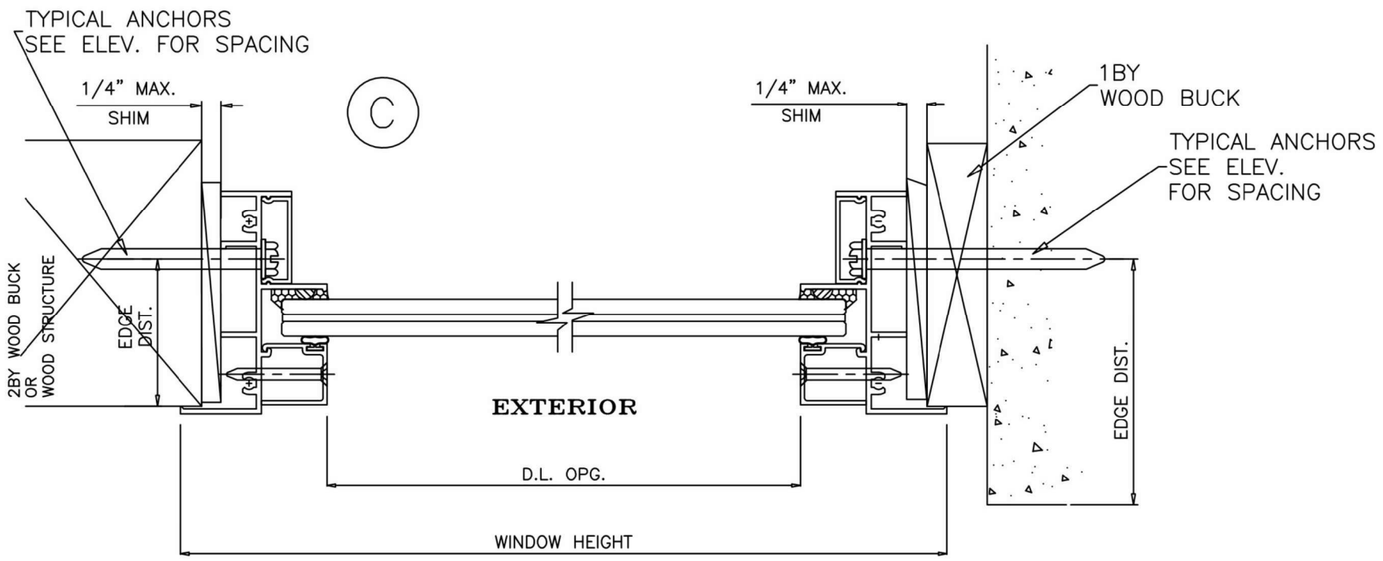
CIRCULAR WINDOWS

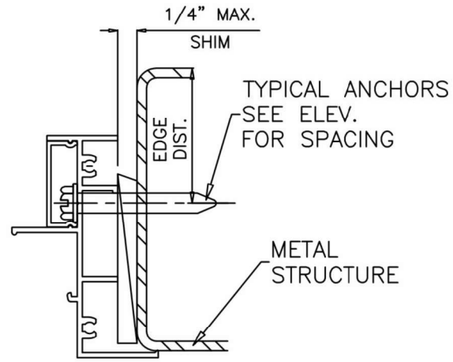


MITER CORNERS



CORNER DETAILS





FL#32389.3

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REVISION			
No.	DATE	BY	DESCRIPTION

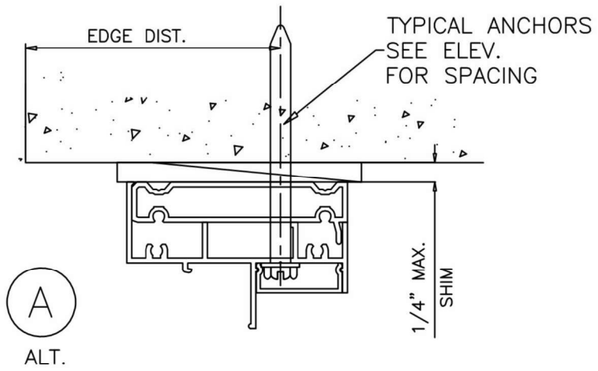
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date: 07/03/2025 | check by: MK

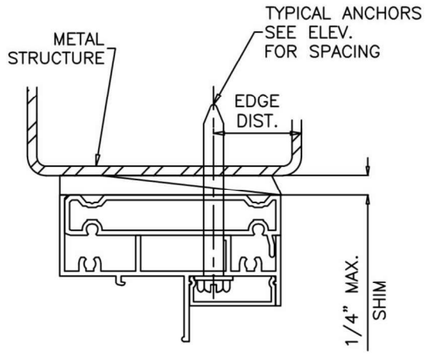
SERIES 300: ALUMINUM FIXED WINDOW (L.M.I.)
LARGE MISSILE IMPACT RATED

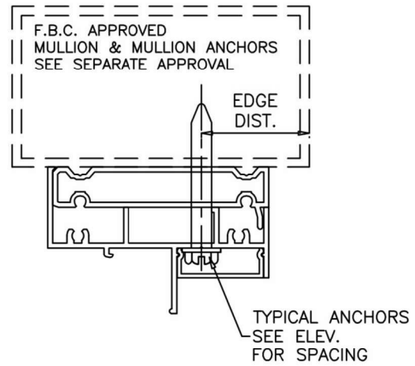
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

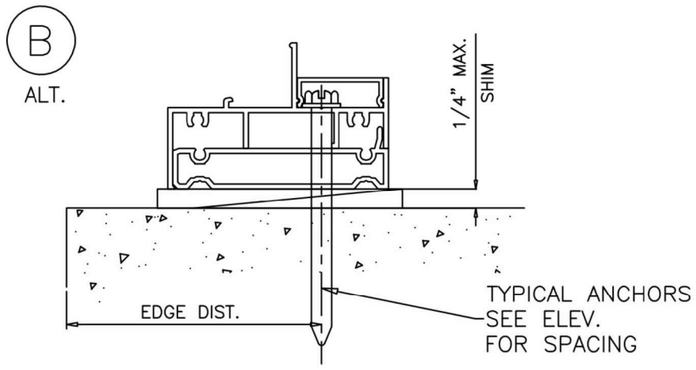
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

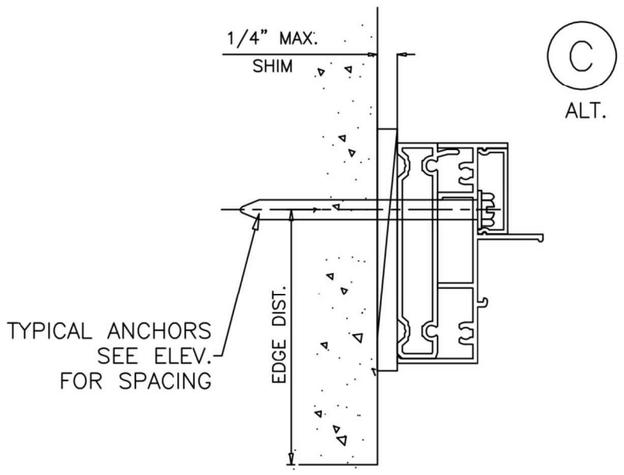
SEALED: 07/03/2025











INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

FL#32389.3

JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102 Doral,
FL 33126
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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date: 07/03/2025 | check by: MK

REVISION

No.	DATE	BY	DESCRIPTION

SERIES 300: ALUMINUM FIXED WINDOW
(L.M.I.)
LARGE MISSILE IMPACT RATED

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