

TYPICAL ELEVATION

(TESTED UNITS)

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 PLYS. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.

SERIES-70
ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN IN 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

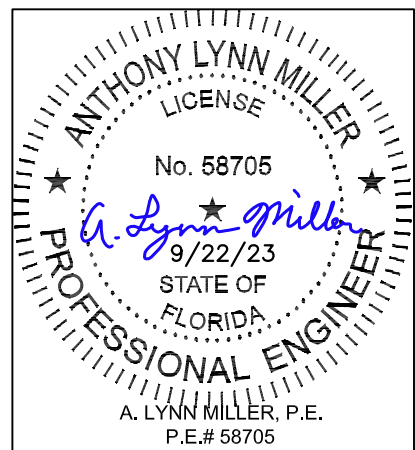
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

Revision:
ADDED EQUAL LEG ADAPTER, REVISED TABLE FORMAT, ADDED DP TABLE ROUNDING, ANSI Z97.1, AND ANCHOR HEAD TYPE NOTES, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	2/10/2022	Drawn By HONG C. PW70LM-FPA	Rev.	A
	Title SERIES-70 ALUMINUM FIXED WINDOW (L.M.I.) GENERAL INFORMATION & ELEVATIONS	DWG No. 1 OF 6		Sheet SERIES 70	



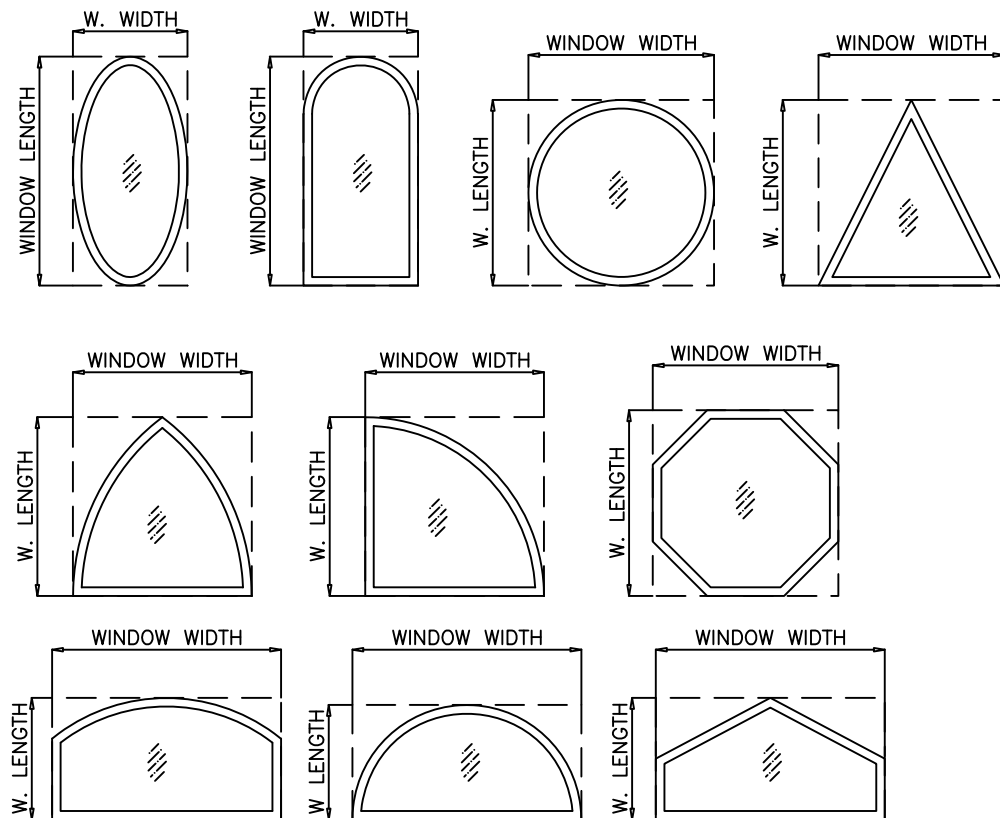
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



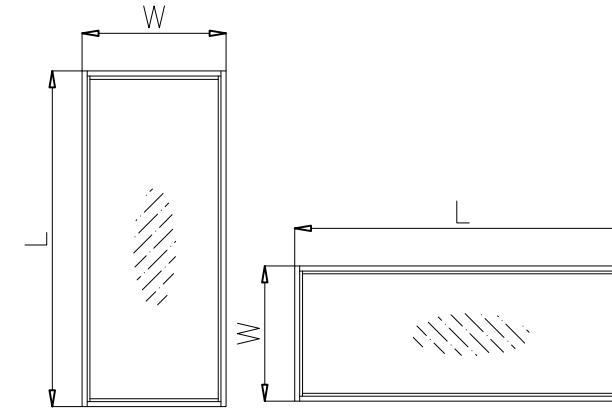
Design Load Capacity - PSF

5/16" Lam. Glass	Window Length (in.)													
	26"	38-3/8"	48"	50-5/8"	56"	60"	63"	72"	76"	78"	84"	96"	104"	
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	+/-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	+/-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	+/-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	+/-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	+/-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	+/-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	+/-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	+/-60.0		
48"	+/-60.0	+/-60.0	+/-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								

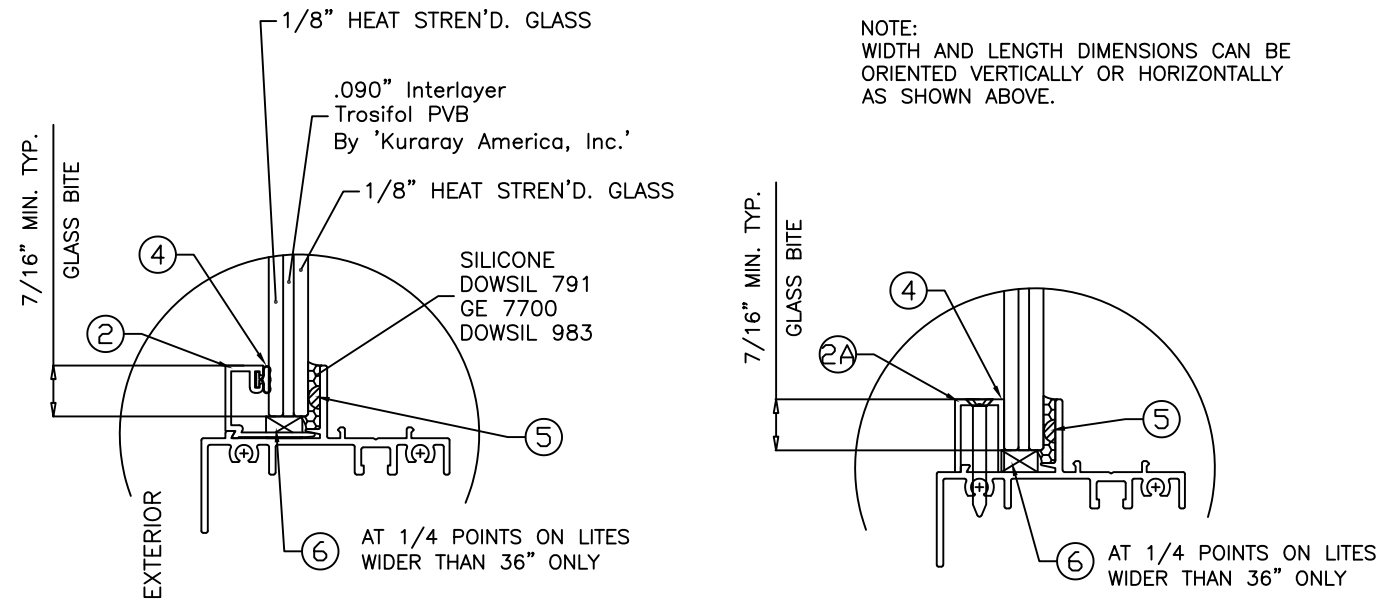
FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR LENGTH DIMENSION SHOWN ON THE TABLE.



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.



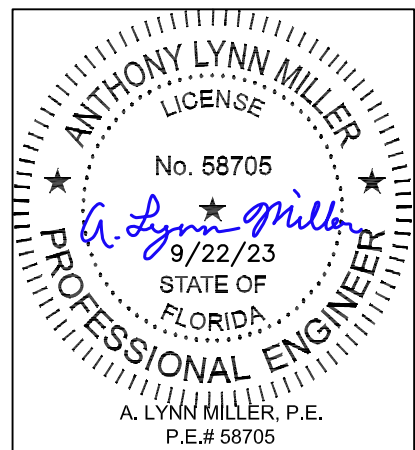
GLAZING DETAILS

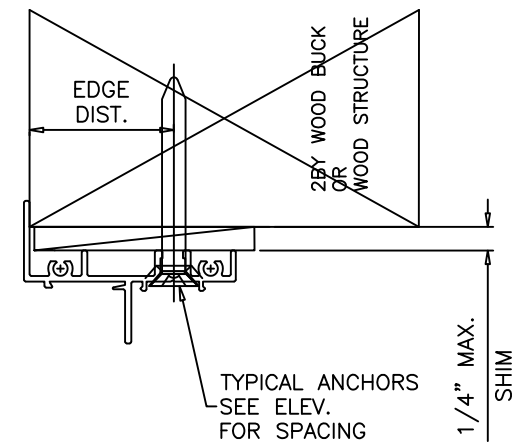
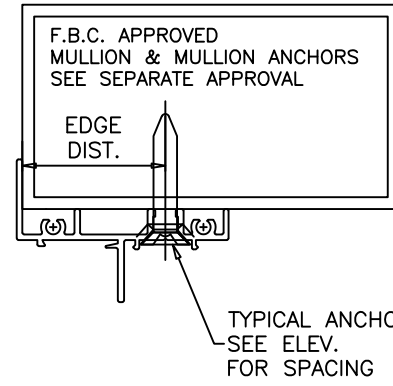
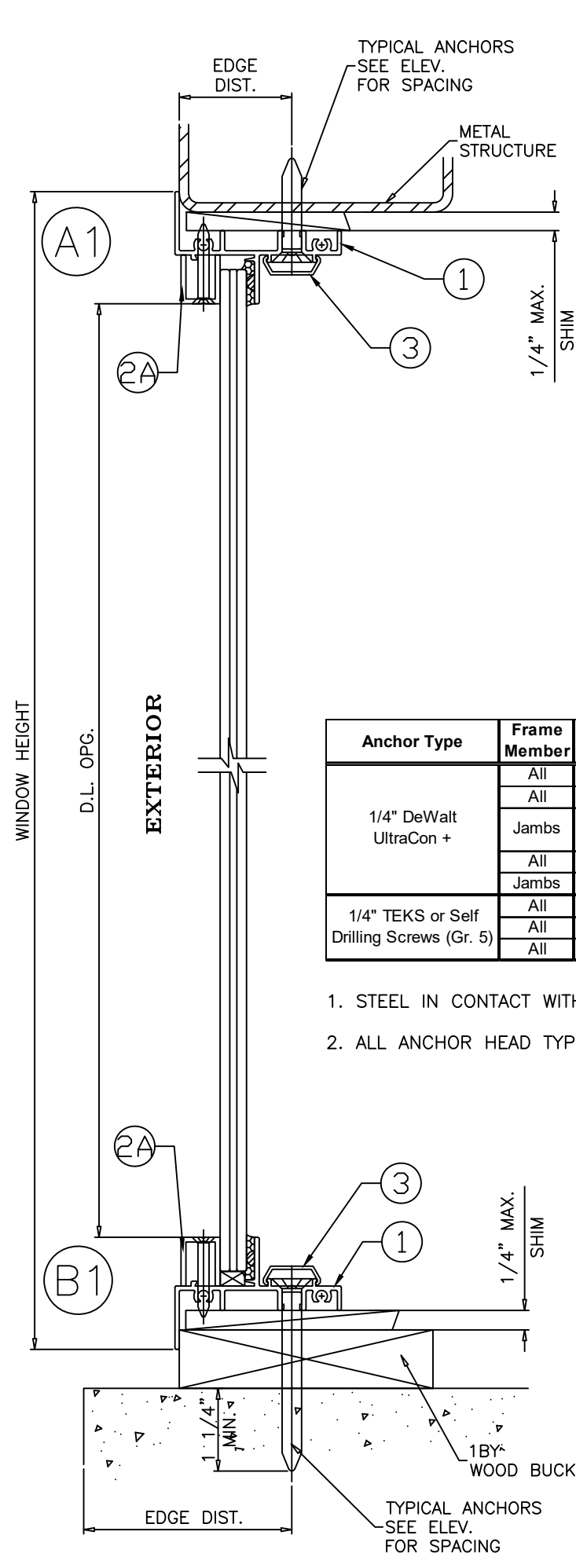
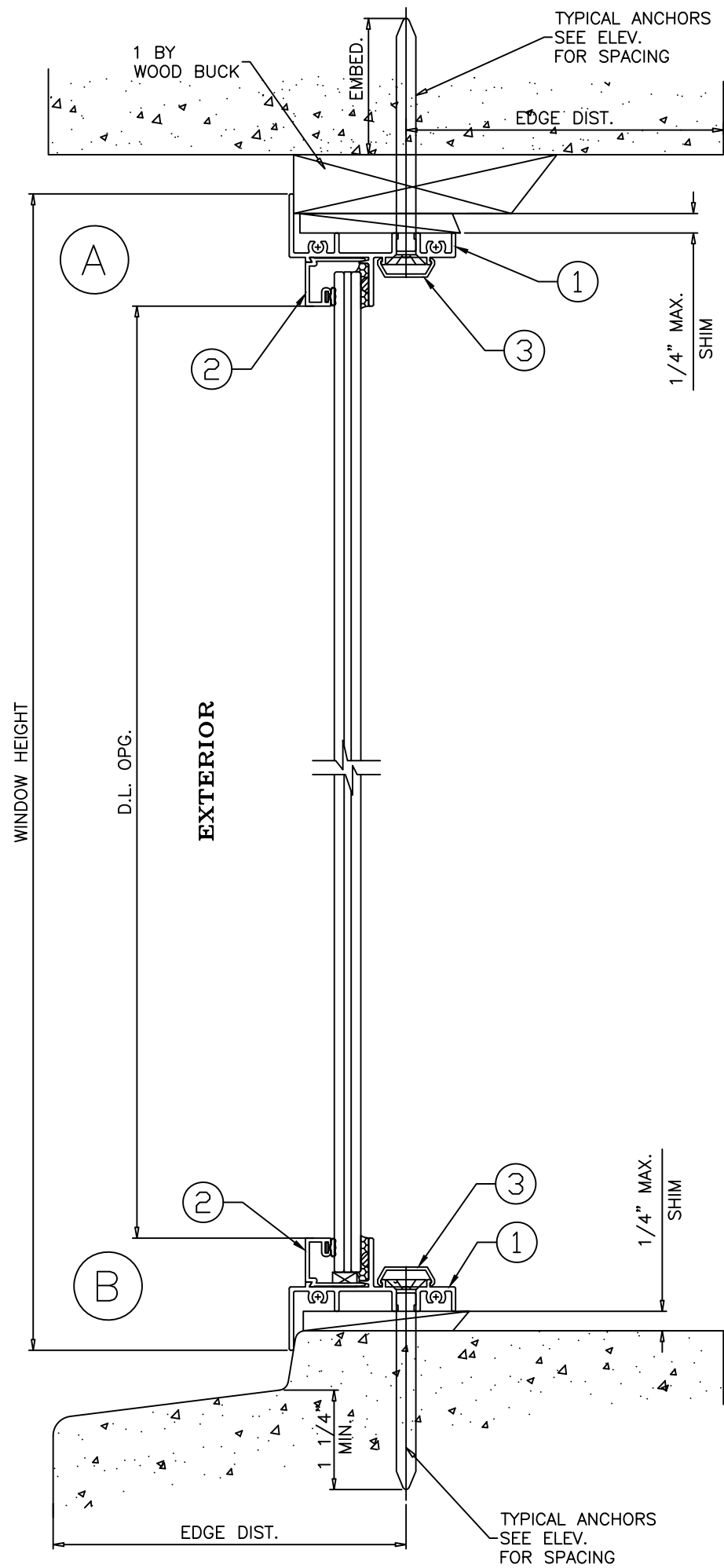
5/16" OVERALL LAM. GLASS

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

Revision:
 ADDED EQUAL LEG ADAPTER, REVISED TABLE FORMAT, ADDED DP TABLE ROUNDING, ANSI Z97.1, AND ANCHOR HEAD TYPE NOTES, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	2/10/2022	Rev.	A
	By	HONG C.	DWG No.	PW70LM-FPA
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST., MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902 SERIES-70 ALUMINUM FIXED WINDOW (L.M.I.)	DESIGN LOADS & GLASS TYPE SERIES 70	Sheet 2 OF 6		





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

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 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600

REGISTRATION #29296

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

2/10/2022

HONG C.

PW70LM-FPA

3 OF 6

SHEET

SERIES 70

VERTICAL SECTION DETAILS & ANCHORS

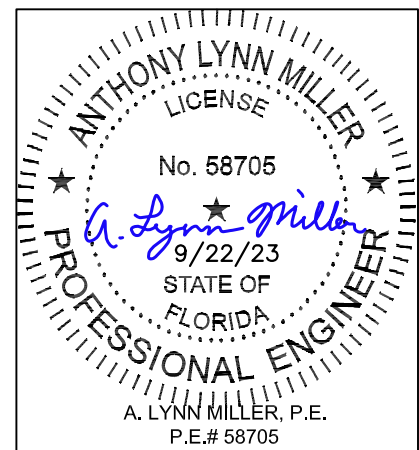
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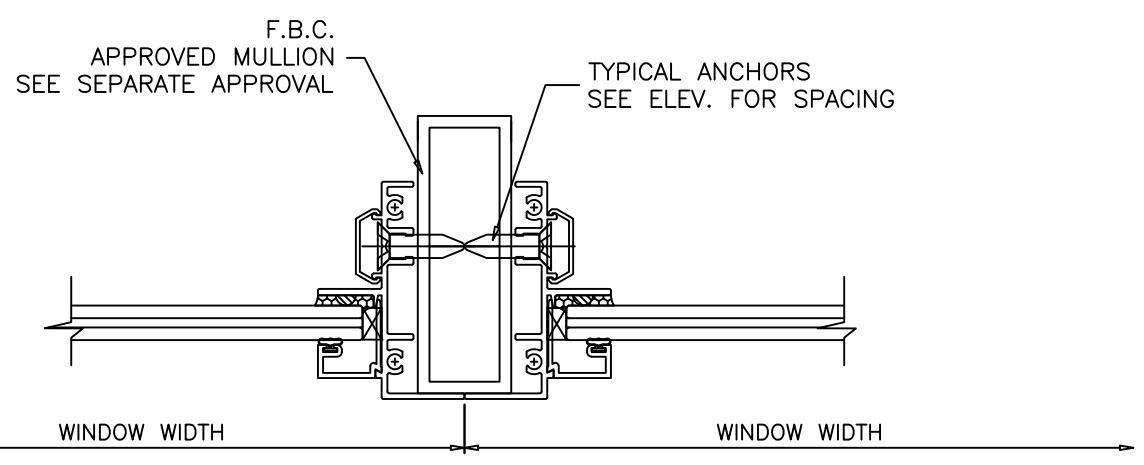
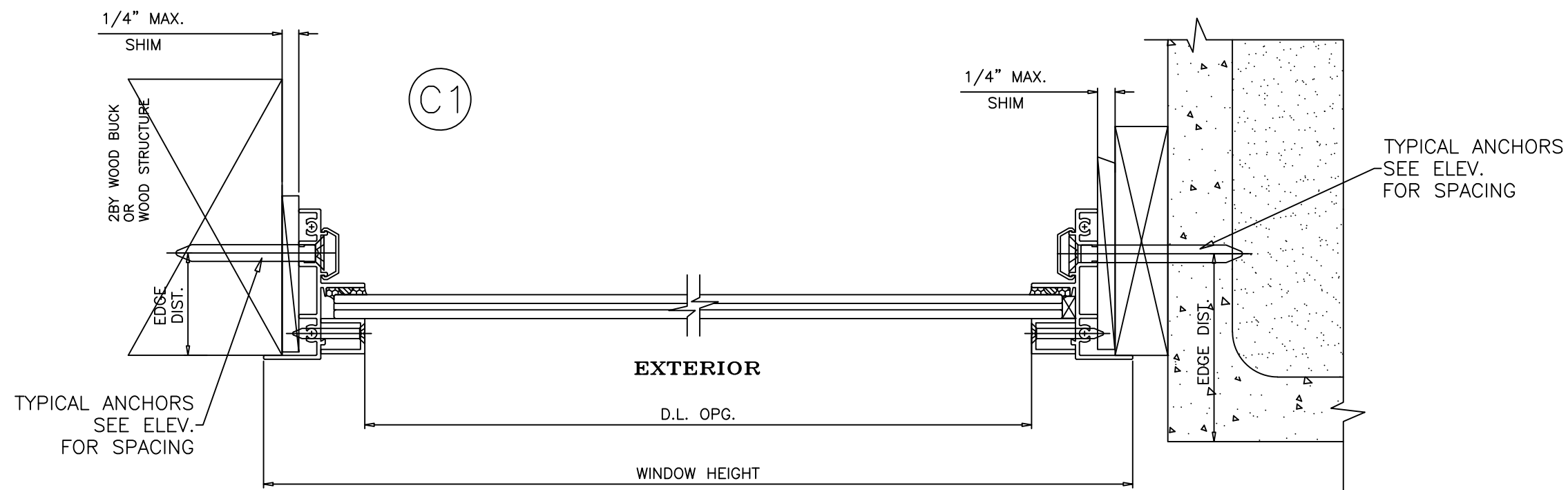
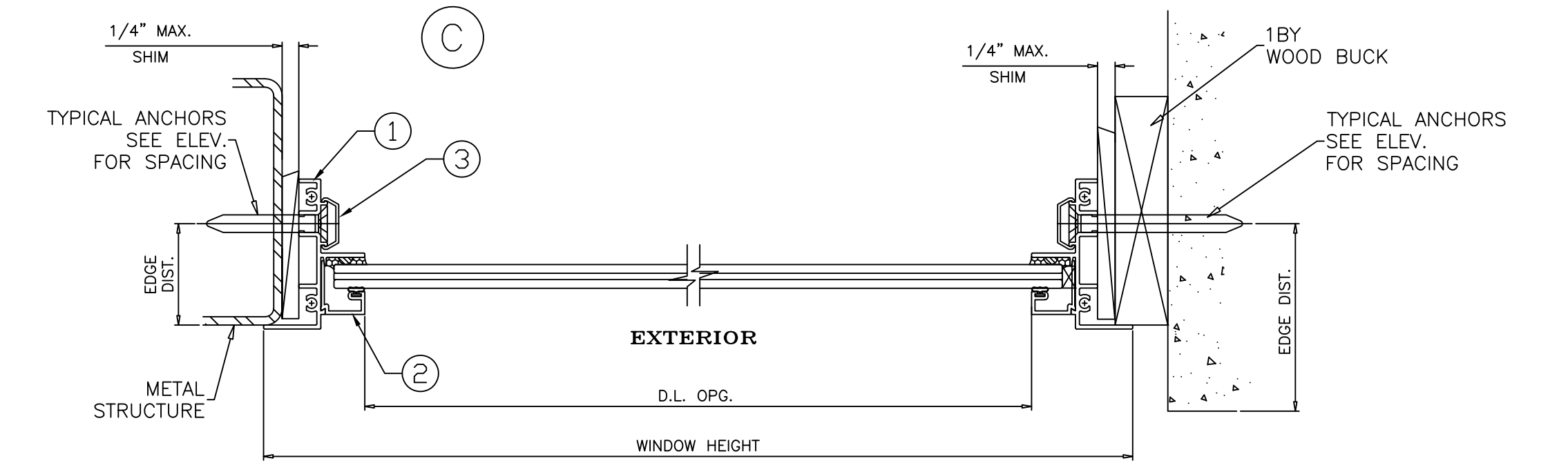
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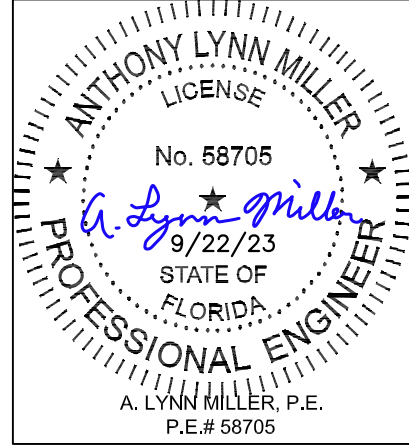
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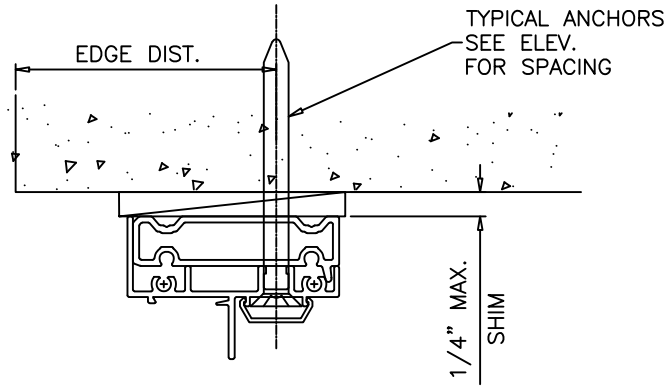


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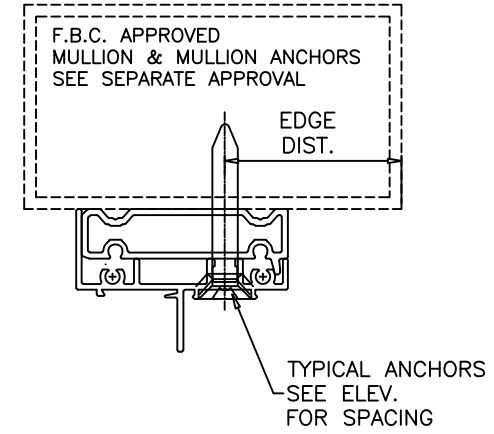
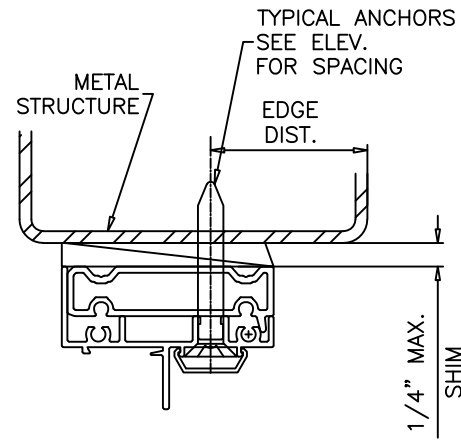
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	ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	HONG C.	PW70LM-FPA
SERIES-70 ALUMINUM FIXED WINDOW (L.M.I.)	HONG C. PW70LM-FPA	4 OF 6	Sheet
HORIZONTAL SECTION DETAILS			
SERIES 70			



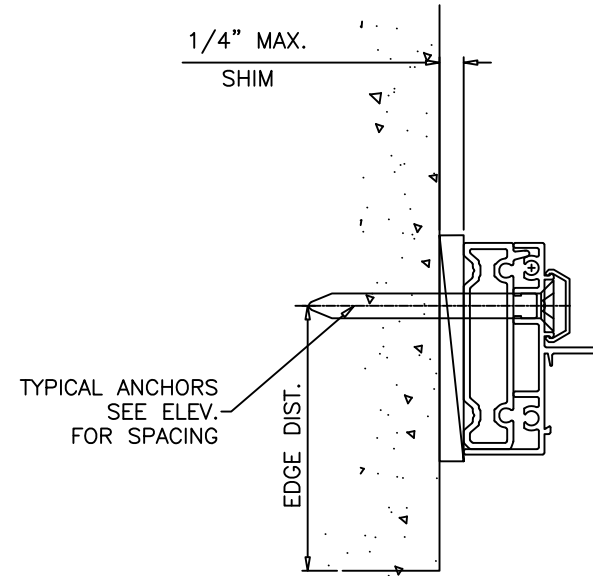
(A)
ALT.



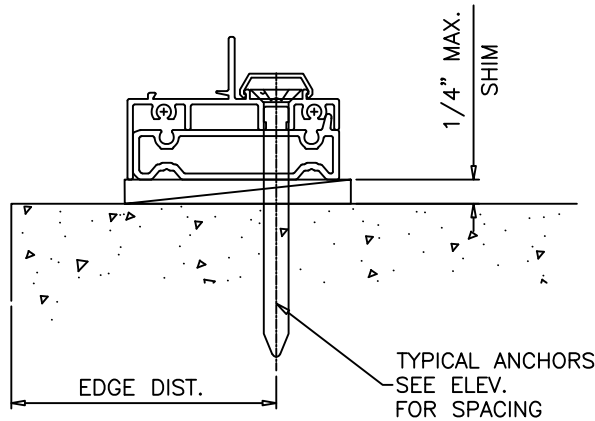
(A1)
ALT.



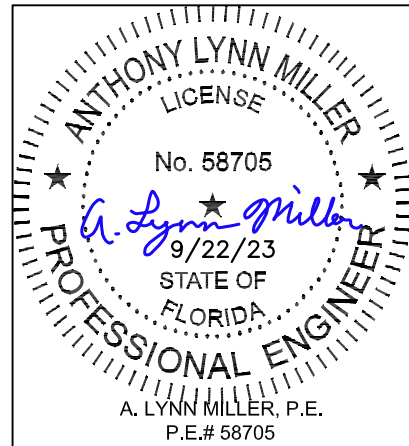
(C)
ALT.



(B)
ALT.



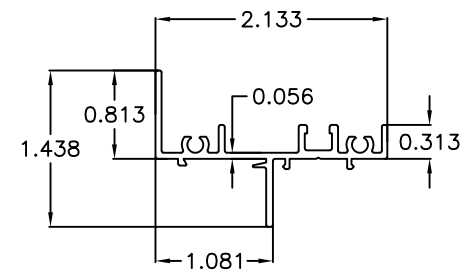
INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER



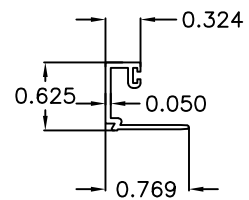
Series	Series 70	Sheet	5 OF 6	DWG	PW70LM-FPA	Rev.	A
	FLUSH FRAME ADAPTER INSTALLATION DETAIL		HONG C.		Date	2/10/2022	

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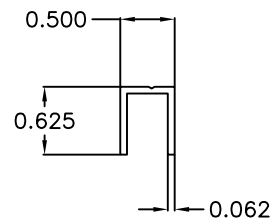
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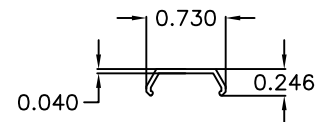
① WINDOW FRAME



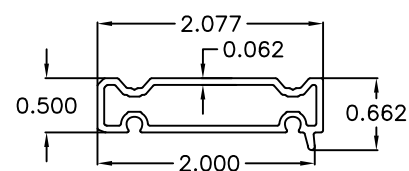
② GLAZING BEAD (RECT. OR SQUARE WDW.)



②A GLAZING BEAD (CIRCULAR WDW.)



③ SCREW COVER

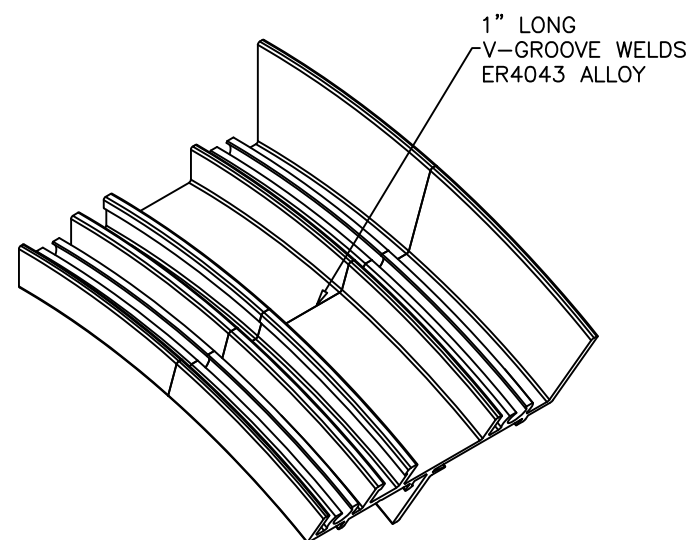


⑨ FLUSH FRAME ADAPTER

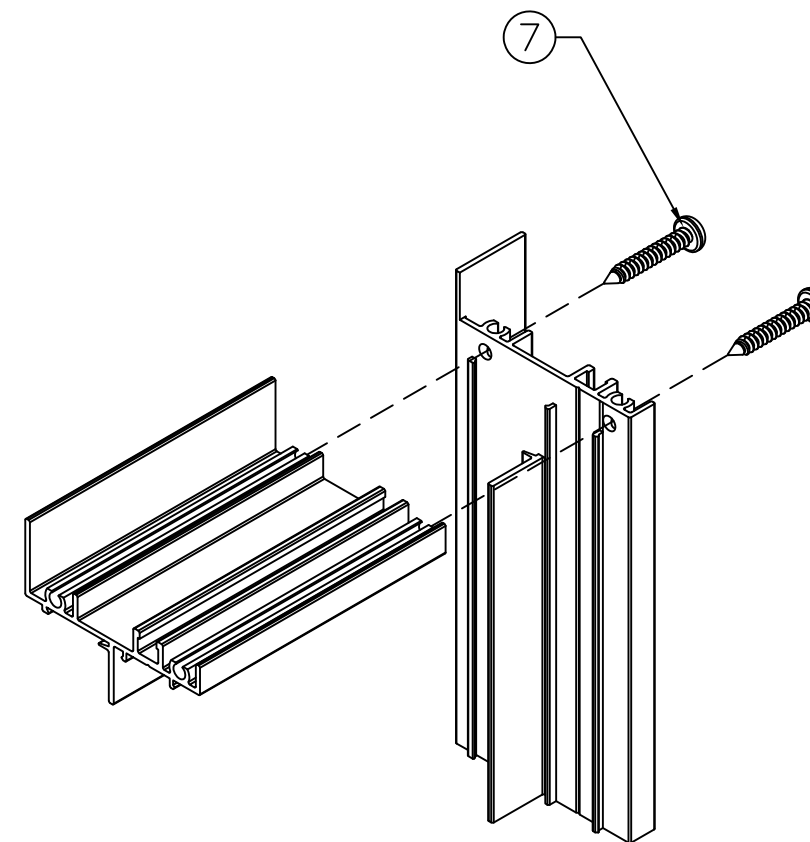
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E71	4	WINDOW FRAME	6063 - T6	-
2	E58	4	GLAZING BEAD (RECT. OR SQUARE WDW.)	6063 - T6	-
2A	E72	4	GLAZING BEAD (CIRCULAR WDW.)	6063 - T6	-
3	E162	AS REQD.	SCREW COVER	RIGID PVC	-
4	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB, 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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SERIES-70 ALUMINUM FIXED WINDOW (L.M.I.)

EXTRUSIONS, ASSEMBLY, & BOM

SERIES 70

6 OF 6

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6 OF 6

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