

SERIES-610FS
ALUMINUM FIXED WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER WINDOW (UNDER SEPARATE APPROVAL) 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.

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

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.

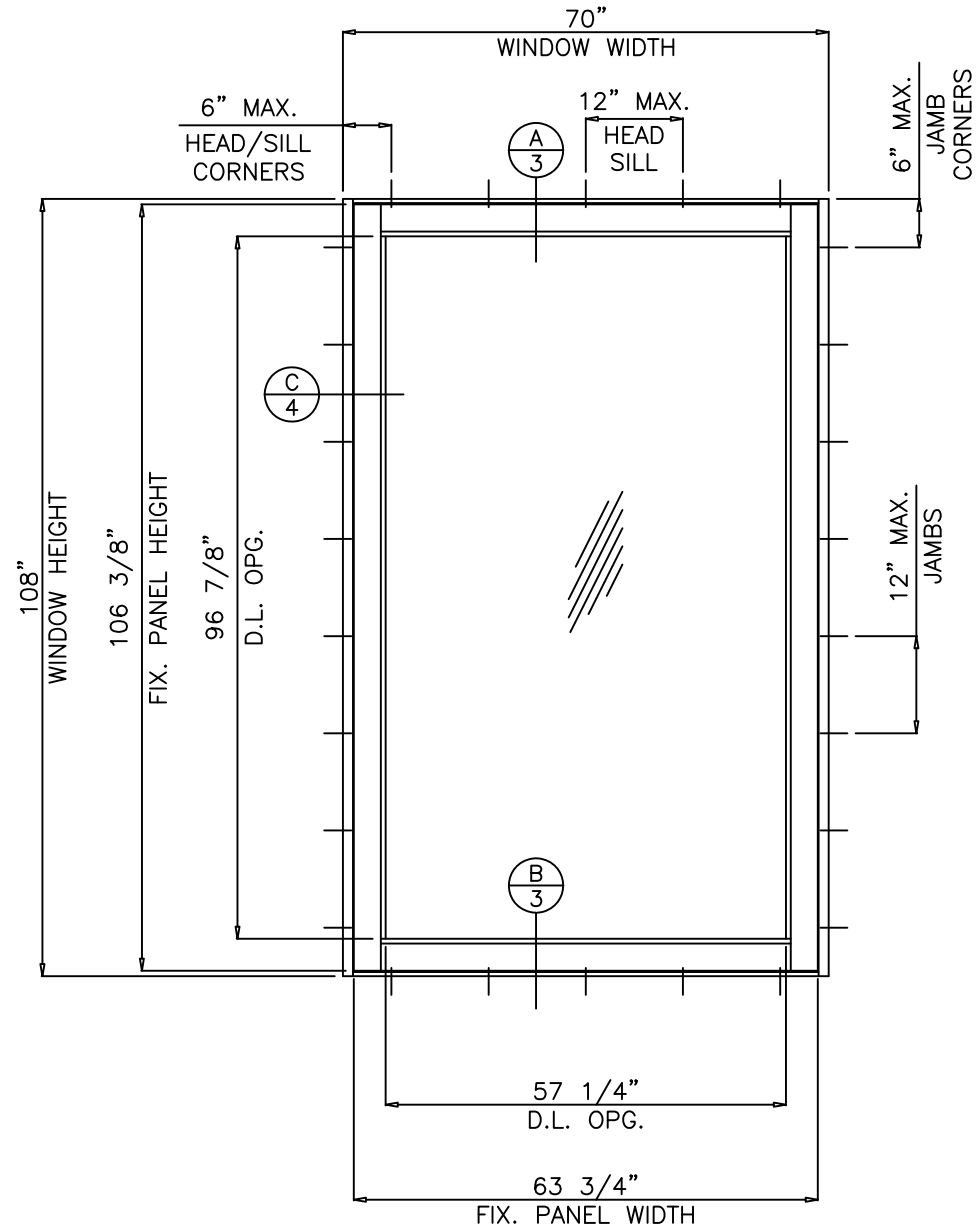
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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)'.

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.



TYPICAL ELEVATION

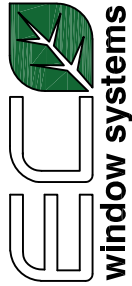
TESTED UNIT

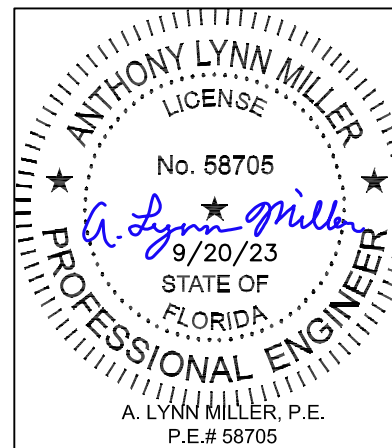
DAYLITE OPENING

D.L.O. WIDTH = FRAME WIDTH - 12.750"

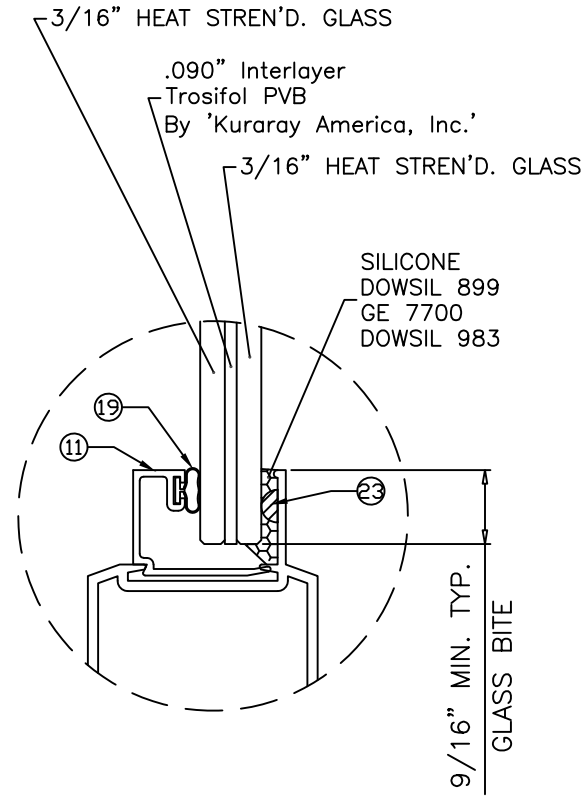
D.L.O. HEIGHT = WINDOW HEIGHT - 11.125"

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

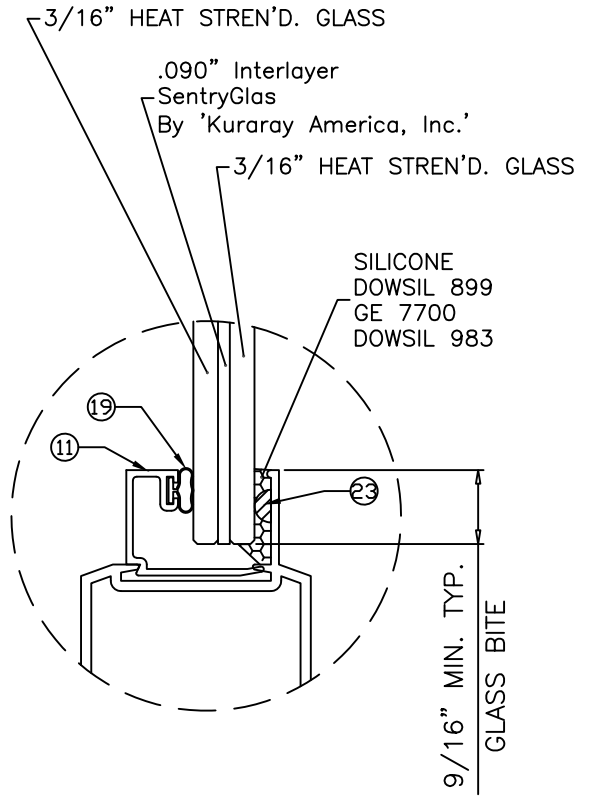
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	DATE	2/10/2022
	HONG C. Drawn		
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)	GENERAL INFORMATION & ELEVATION	DWG No. PW610FSLM-FPA
			SHEET No. 1 OF 6
Series Desc. Title			Rev. A



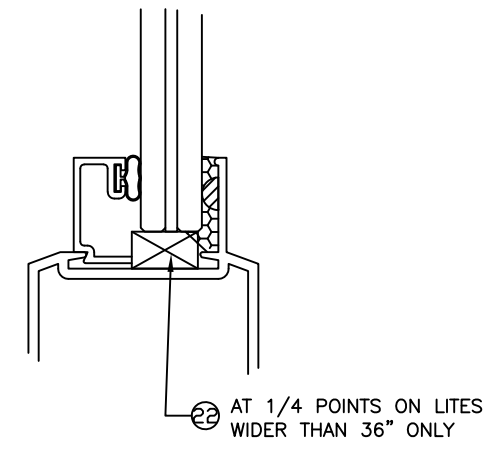
A. LYNN MILLER, P.E.
P.E.# 58705



GLASS TYPE 'A'
7/16" NOM. LAM. GLASS

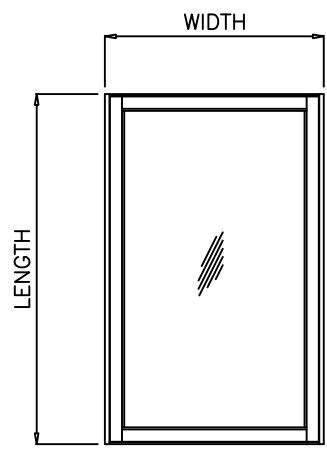


GLASS TYPE 'B'
7/16" NOM. LAM. GLASS



SETTING BLOCKS AT LAM. GLASS NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS

GLAZING OPTIONS



Design Load Capacity - PSF									
Glass Types 'A' & 'B'		Window Length (L)							
		90"		96"		102"		108"	
Window Width (W)	36"	+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
	48"	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	54"	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	60"	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	66"	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0		
	70"	+60.0	-60.0	+60.0	-60.0				
	72"	+58.3	-58.3	+58.3	-58.3				
78"	+53.8	-53.8							

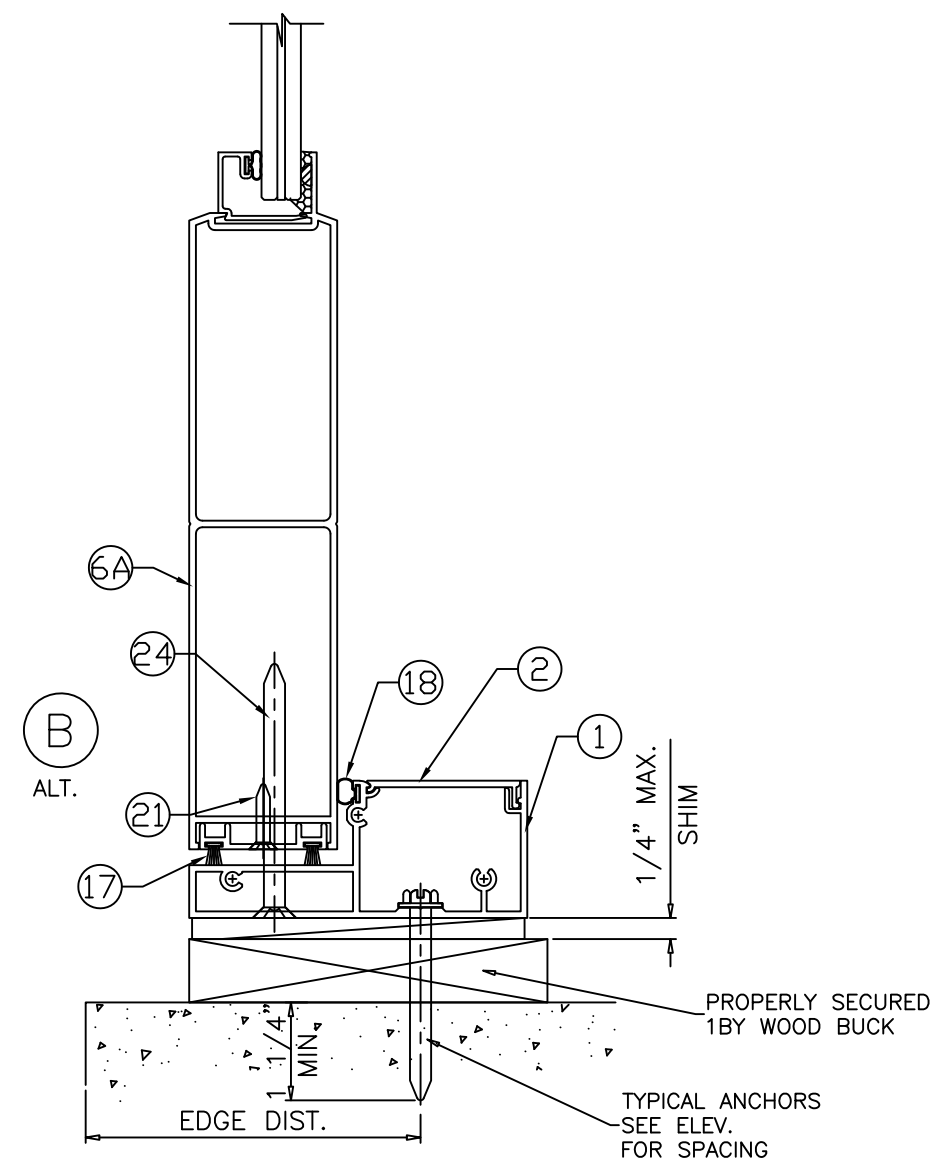
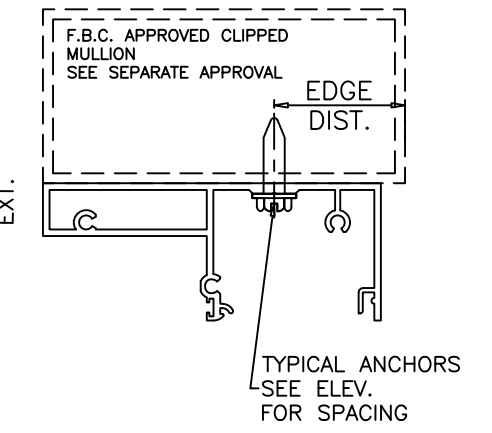
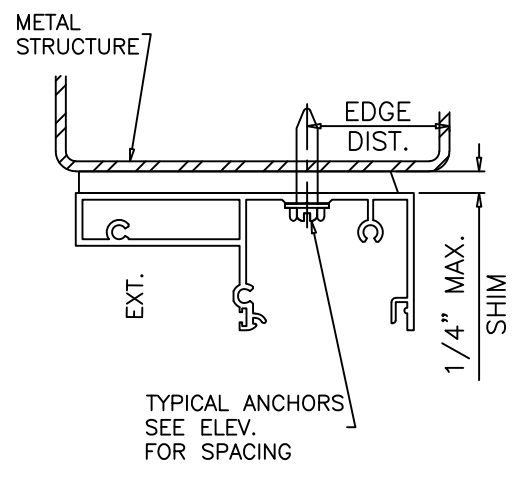
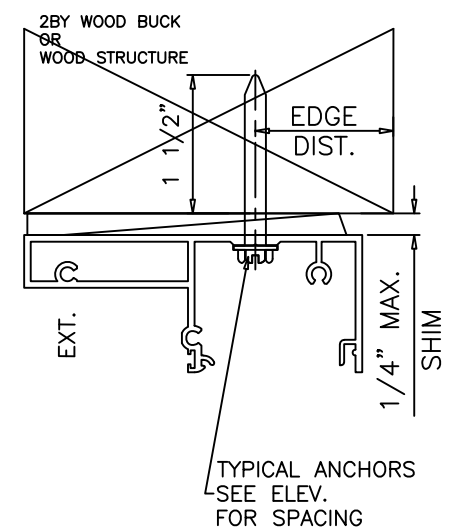
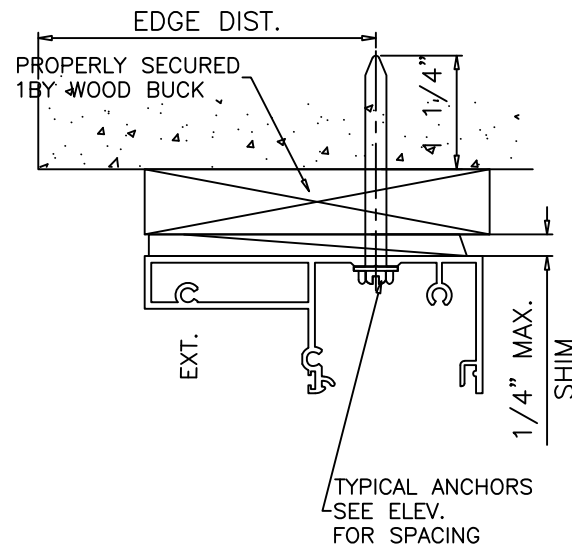
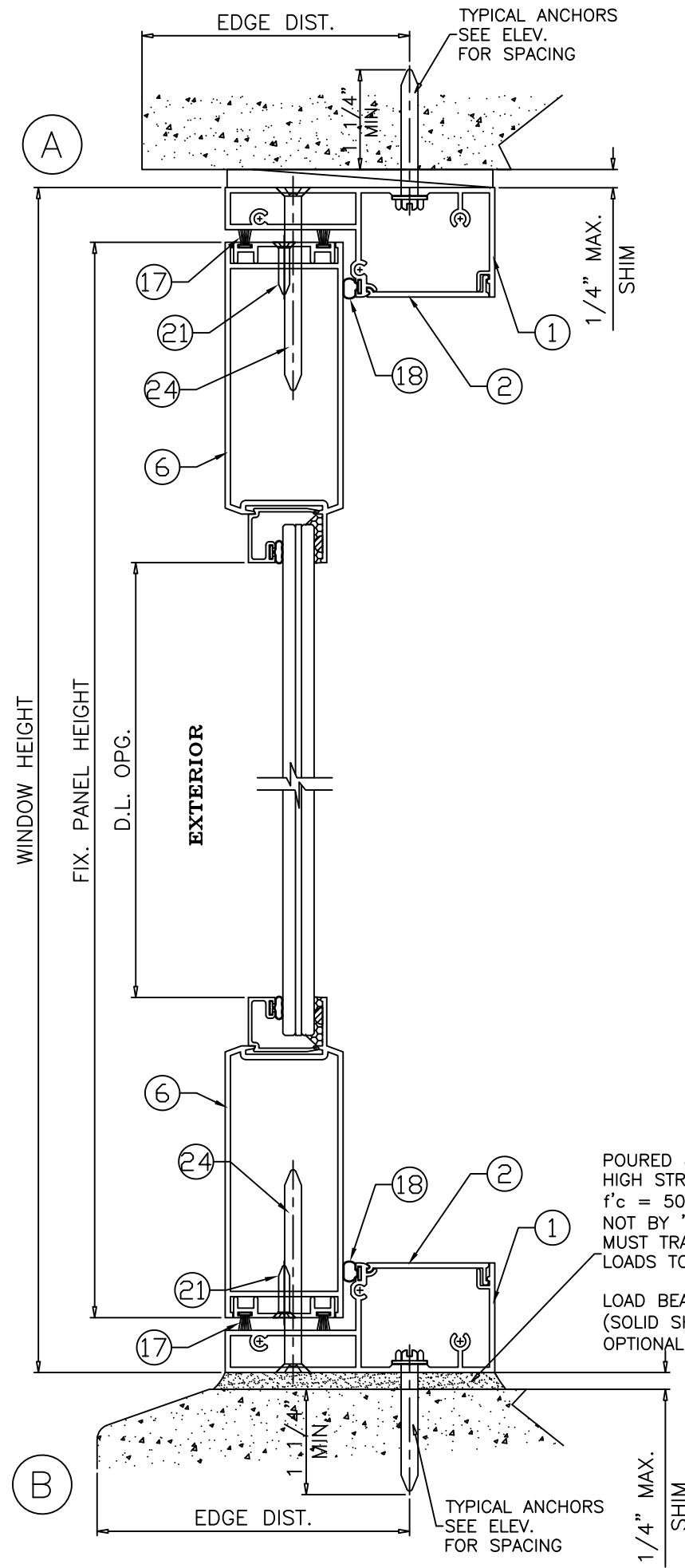
FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR LENGTH DIMENSION SHOWN ON THE TABLE.

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

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

<p>ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST., MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902</p>	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date: 2/10/2022	Drawn: HONG C.	Rev. A
	SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)	DP CHART & GLASS OPTIONS	DWG No. PW610FSLM-FPA	Sheet 2 OF 6	Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
9/20/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

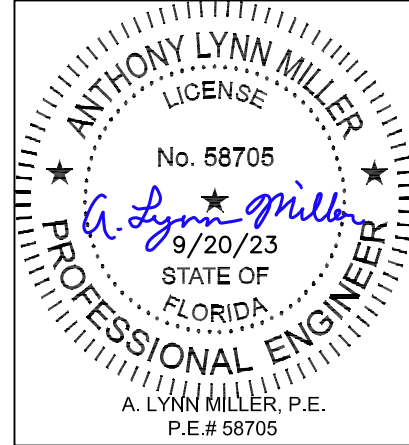


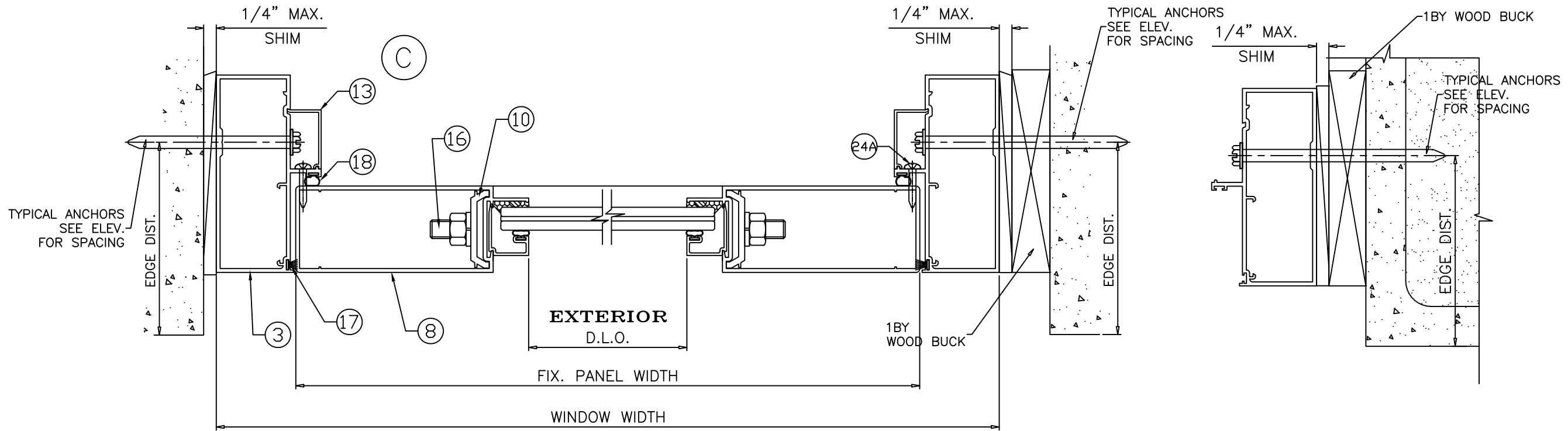
POURED & HARDENED HIGH STRENGTH GROUT $f'c = 5000$ PSI MIN. NOT BY "ECO WINDOWS" MUST TRANSFER SHEAR LOADS TO STRUCTURE

LOAD BEARING (SOLID SHIMS OPTIONAL TO GROUT)

Revision:
 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
	SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)		
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	Drawn HONG C.	DWG No. PW610FSLM-FPA	Sheet 3 OF 6
Series Desc. Title SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)	Date 2/10/2022	Rev. A	Sheet 3 OF 6



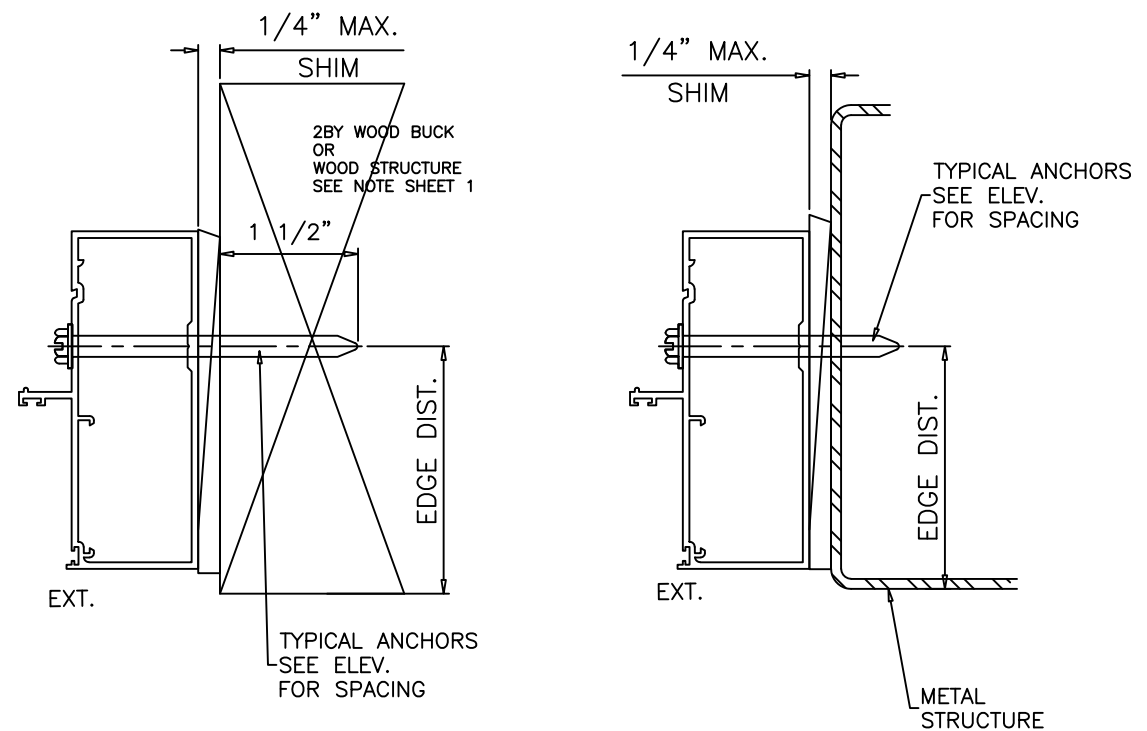


1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

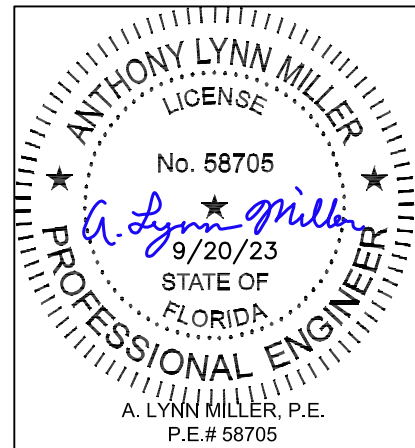
Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DeWalt UltraCon +	All	Southern Pine (SG = 0.55)	1"	1-1/2"
	All	Thru 1BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	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

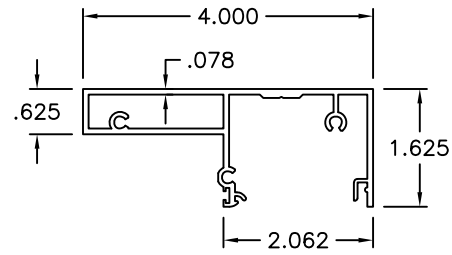
1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



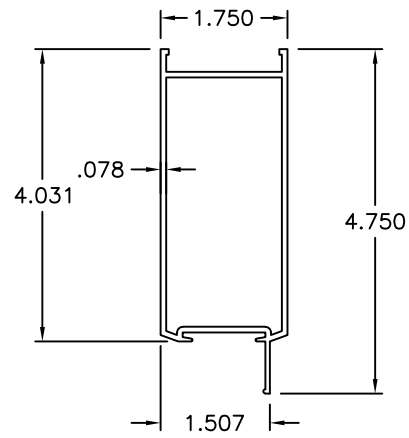
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	ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902			
SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)		HORIZONTAL SECTION DETAILS & ANCHOR DETAILS		Sheet SERIES 610FS

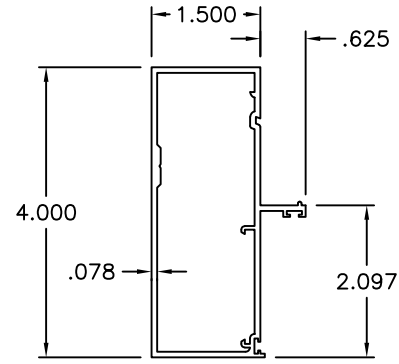




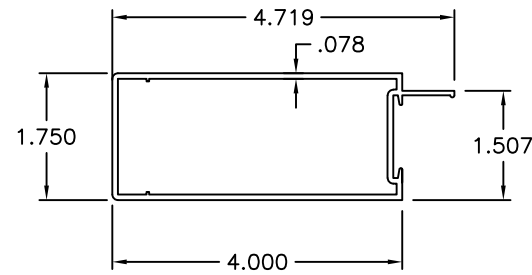
① FRAME HEAD/SILL



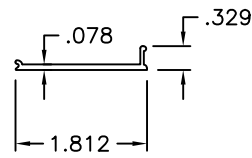
⑥ TOP/BOTTOM RAIL



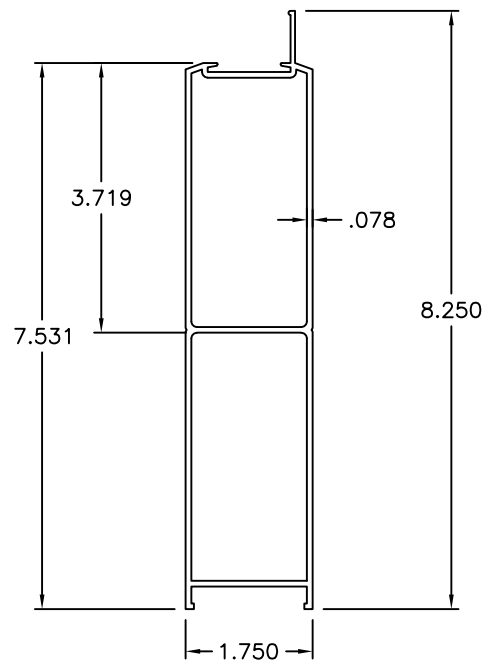
③ FRAME JAMB



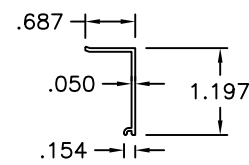
⑧ JAMB STILE



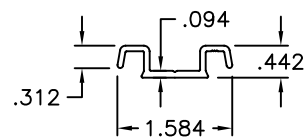
② FRAME COVER



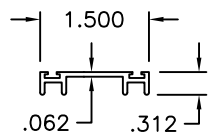
⑥A 9" BOTTOM RAIL



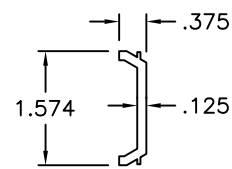
⑬ SNAP COVER



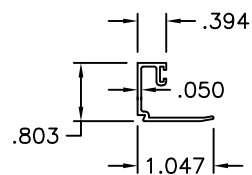
⑨ PANEL ALIGNMENT BRACKET



⑦ PANEL W'STRIP ADAPTER



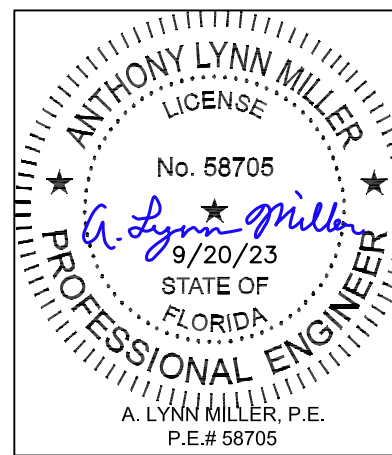
⑩ PANEL CLAMP

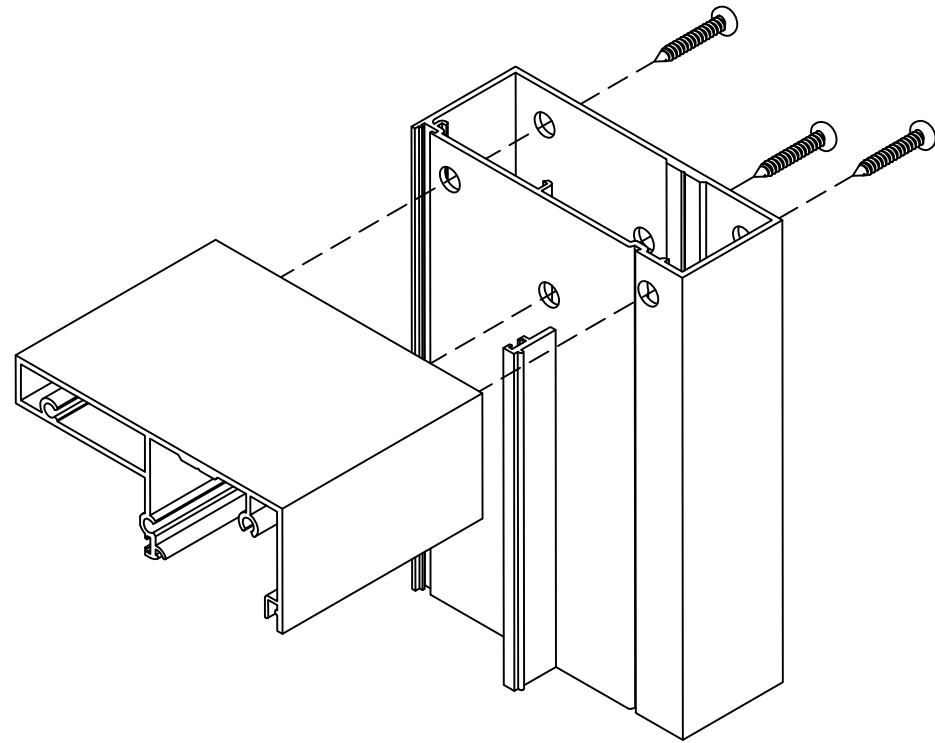


⑪ GLAZING BEAD

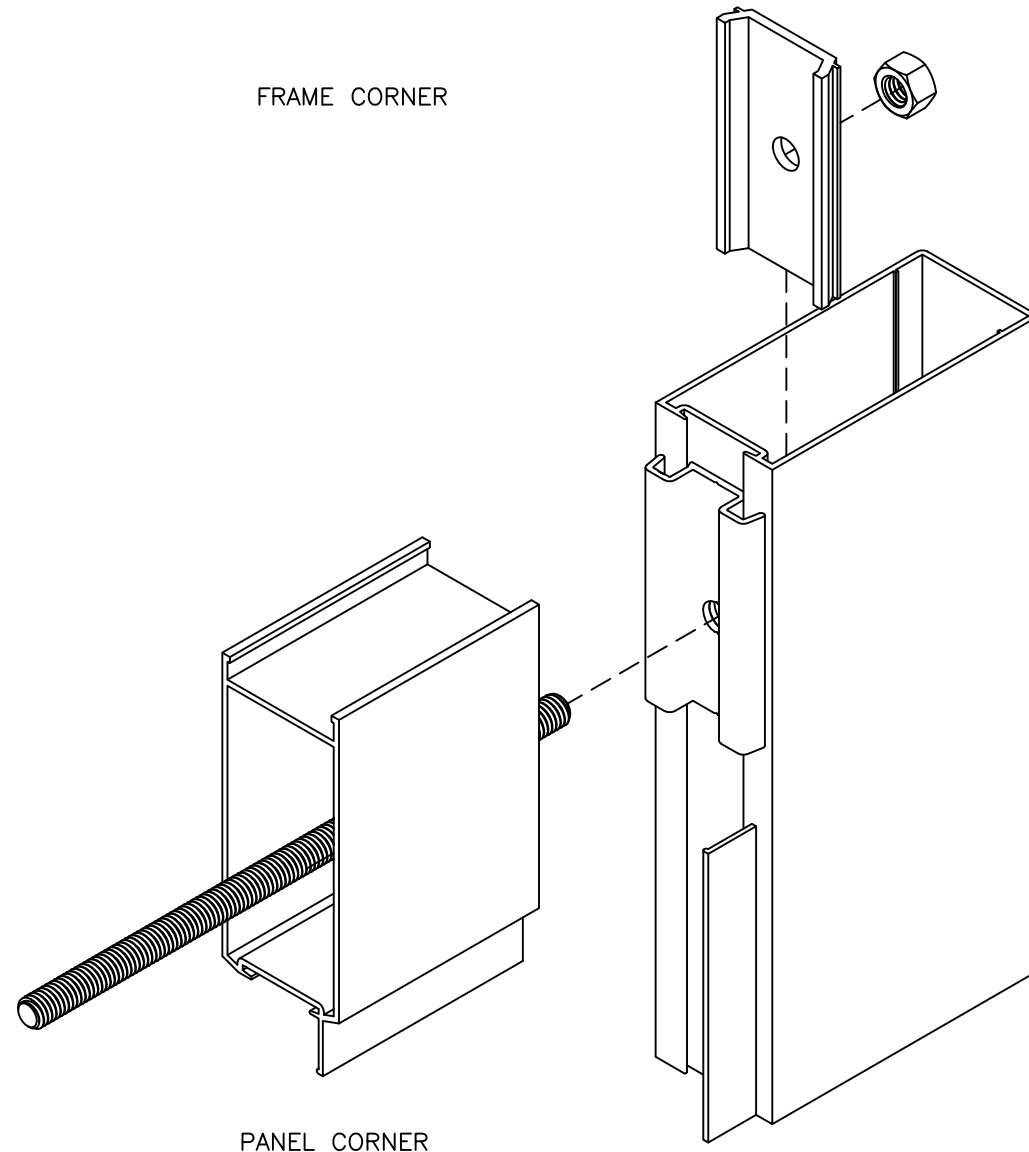
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 INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	2/10/2022
		By	HONG C.
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST., MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-6902	SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)	DWG No.	PW610FSLM-FPA
		Sheet	5 OF 6
EXTRUSION PROFILES		Rev.	A
SERIES 610FS			





FRAME CORNER



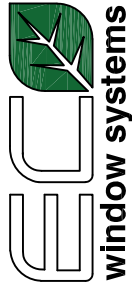
PANEL CORNER

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	-	FRAME HEAD/SILL	6063 - T6	-
2	E602	-	FRAME COVER	6063 - T6	-
3	E603	-	FRAME JAMB	6063 - T6	-
6	E607	-	TOP & BOTTOM RAIL	6063 - T6	-
6A	E625	-	9" BOTTOM RAIL	6063 - T6	-
7	E608	-	PANEL W'STRIP ADAPTER	6063 - T6	-
8	E609	-	JAMB STILE	6063 - T6	-
9	E612	-	PANEL ALIGNMENT BRACKET	6063 - T6	-
10	E613	1/ CORNER	PANEL CLAMP	6063 - T6	4-1/4" LONG
11	FY109	-	GLAZING BEAD	6063 - T6	-
13	E616	-	SNAP COVER	6063 - T6	-
15	#10 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	HH SMS
16	-	-	3/8" DIA. THREADED ROD	STEEL	-
17	W11323	-	PILE W'STRIPPING	WOOL	ULTRAFAB
18	E20618-KN-3020	-	BULB W'STRIPPING	EPDM	-
19	E206	-	GLAZING BEAD BULB	EPDM	ULTRAFAB
20	-	-	XL EDGE SPACER (INSUL. LAM. GLASS)	ST. STEEL	CARDINAL
21	#10 X 3/4"	AS REQD.	ADAPTER FASTENERS, AT 5" FROM ENDS & 27" O.C.	-	FH SELF DRILLING SCREWS
22	-	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4"LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
22A	-	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4"LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
23	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
24	#14 X 3"	AS REQD.	FIX. PANEL FASTENERS, AT 6" FROM ENDS & 14" O.C.	ST. STEEL	FH SELF DRILLING SCREWS
24A	#10 X 1"	AS REQD.	FIX. PANEL FASTENERS, AT 10" FROM ENDS & 12" O.C.	ST. STEEL	FH SELF DRILLING SCREWS

SEALANT:

ALL FRAME/PANEL JOINTS AND SEAMS SEALED WITH JOINT SEALER.

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 ADDED DP
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	By	HONG C.	DWG No.	PW610FSLM-FPA
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902 SERIES-610FS ALUMINUM FIXED WINDOW (L.M.I.)	Sheet	6 OF 6		
	Series Desc.	BOM & CORNER DETAILS		

