

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.

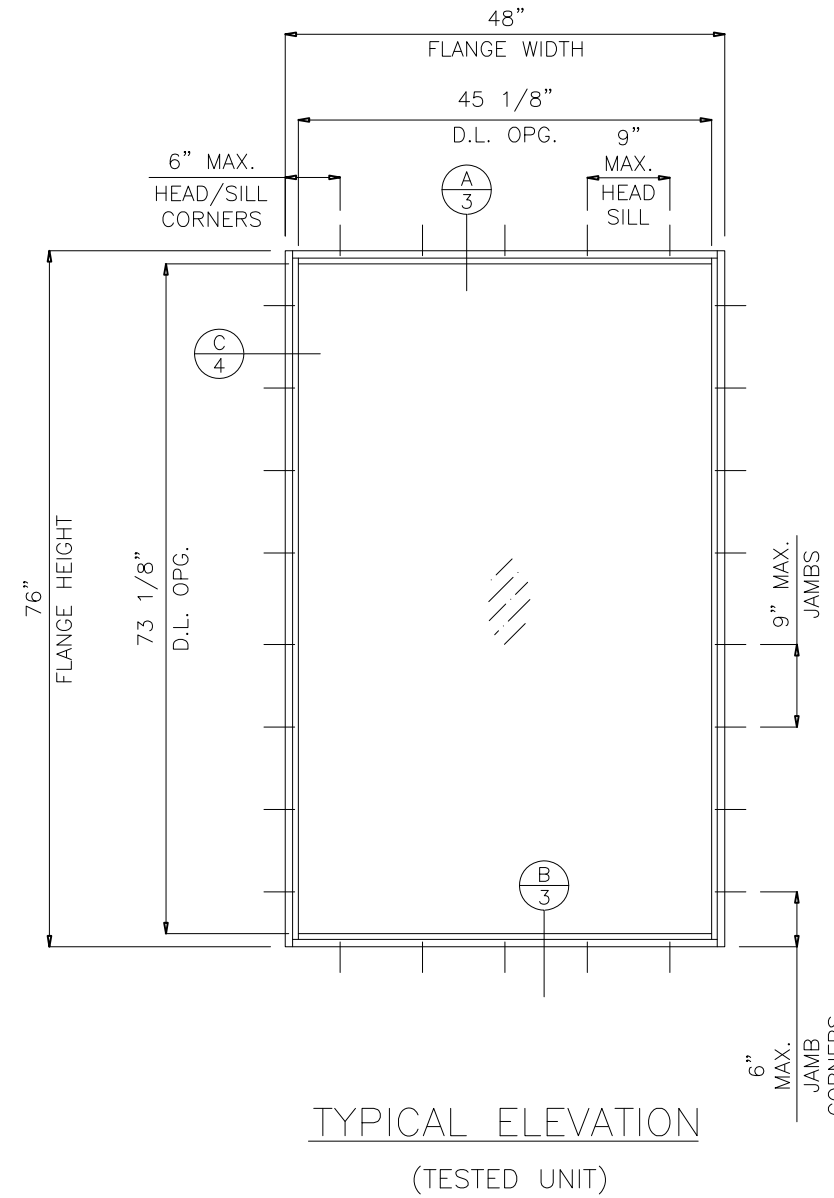
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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

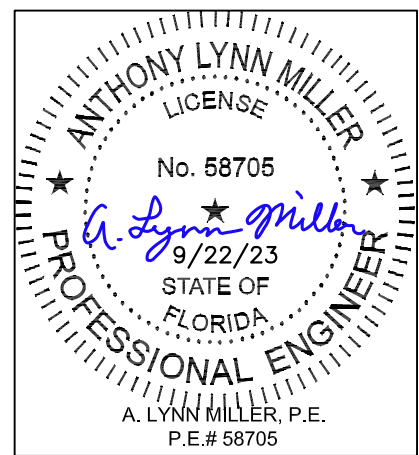
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'



THESE WINDOWS ARE NOT RATED FOR IMPACT.
INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
INSTALLATION OF THIS SYSTEM OUTSIDE OF THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION

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

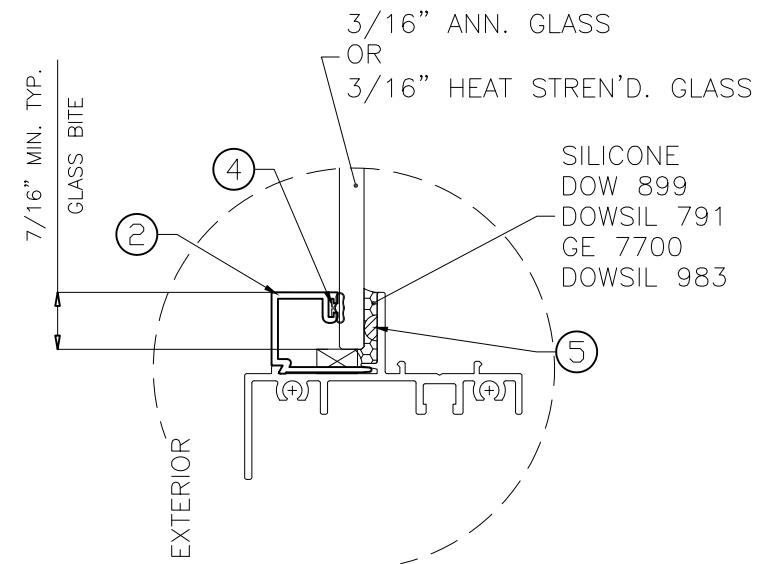
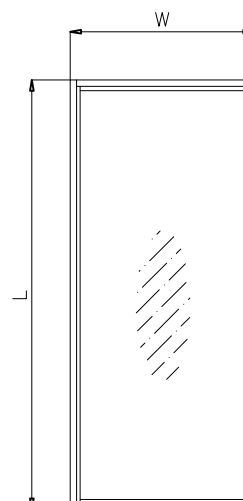
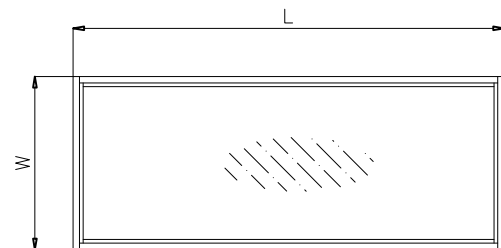
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	2/10/2022	Rev.	A
	Drawn	HONG C.	DWG No.	PW70NH-FPA
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-6902 SERIES-70 ALUMINUM FIXED WINDOW (N.I.)	GENERAL INFORMATION & ELEVATIONS	SHEET 1 OF 6	Title	Series Desc.



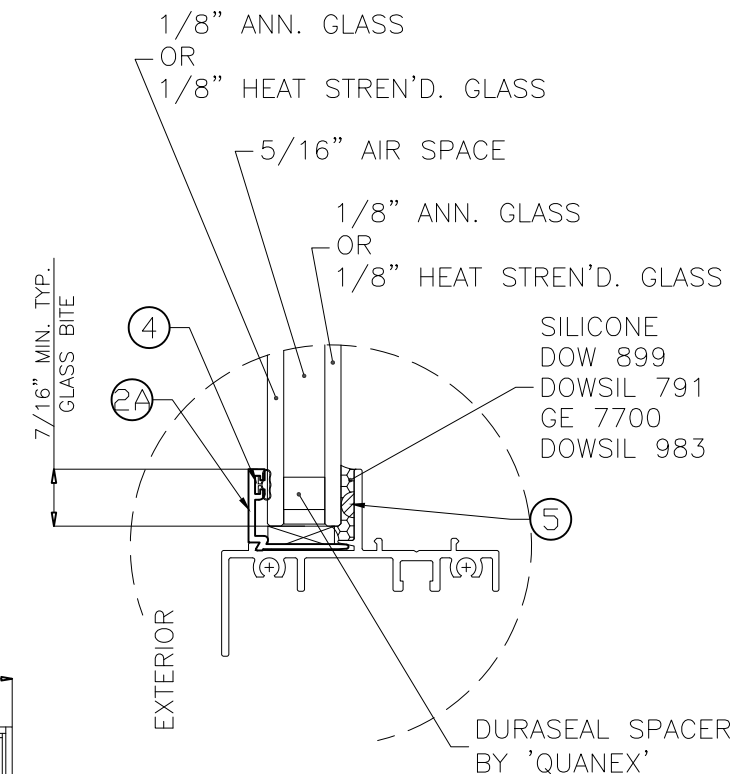
Design Load Capacity - PSF												
Frame Width (in.)	Glass Type	Frame Length (in.)										
		26"	38-3/8"	48"	50-5/8"	54"	60"	63"	72"	76"	84"	96"
19-1/8"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-55.0	+/-47.8	+/-47.8	+/-45.3
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
24"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-55.0	+/-54.8	+/-47.8	+/-47.8	+/-45.3
	9/16" H.S. Insul.	+/-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"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-46.8	+/-40.4	+/-40.4	+/-38.0
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-55.0	+/-54.8	+/-43.6	+/-37.1	+/-31.6
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
30"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-53.8	+/-46.8	+/-45.2	+/-40.4	+/-40.4	+/-38.0
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-54.8	+/-46.6	+/-37.1	+/-37.1	+/-31.6
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
36"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-49.9	+/-46.8	+/-40.5	+/-34.0	+/-32.1	+/-28.1
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-56.3
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-58.8	+/-54.8	+/-46.6	+/-37.1	+/-37.1	+/-30.3
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0
37"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-48.5	+/-46.8	+/-40.5	+/-34.0	+/-30.9	
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-54.8	+/-54.8	+/-44.0	+/-37.1	+/-37.1	
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	
42"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-48.8	+/-48.8	+/-48.5	+/-40.5	+/-38.9	+/-30.9	+/-30.9	
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-52.2	+/-52.2	+/-52.2	+/-44.0	+/-44.0	+/-37.1	+/-37.1	
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	
48"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-48.8	+/-48.8	+/-48.3	+/-40.5	+/-37.9			
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0			
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-56.2	+/-48.5	+/-48.5	+/-45.8	+/-39.7	+/-38.8			
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0	+/-60.0			
53-1/8"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-48.8	+/-48.8	+/-48.3	+/-40.5				
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-56.9	+/-54.2	+/-54.2	+/-54.2				
	9/16" Ann. Insul.	+/-60.0	+/-60.0	+/-50.5	+/-48.5	+/-48.5	+/-40.9	+/-39.7				
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-56.9	+/-54.2	+/-54.2	+/-54.2				
54"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-48.3	+/-48.3	+/-48.3					
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-53.3	+/-53.3	+/-53.3					
	9/16" Ann. Insul.	+/-50.5	+/-50.5	+/-50.5	+/-40.9	+/-40.9	+/-40.9					
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-53.3	+/-53.3	+/-53.3					
60"	3/16" Ann. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-48.3	+/-48.3	+/-48.3					
	3/16" H.S. Mono.	+/-60.0	+/-60.0	+/-60.0	+/-48.3	+/-48.3	+/-48.3					
	9/16" Ann. Insul.	+/-45.8	+/-45.8	+/-45.8	+/-36.8	+/-36.8	+/-36.8					
	9/16" H.S. Insul.	+/-60.0	+/-60.0	+/-60.0	+/-48.3	+/-48.3	+/-48.3					

NOTES:

- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)
- FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR LENGTH DIMENSION SHOWN ON THE TABLE.



3/16" MONO. GLASS



9/16" OVERALL INSUL. GLASS

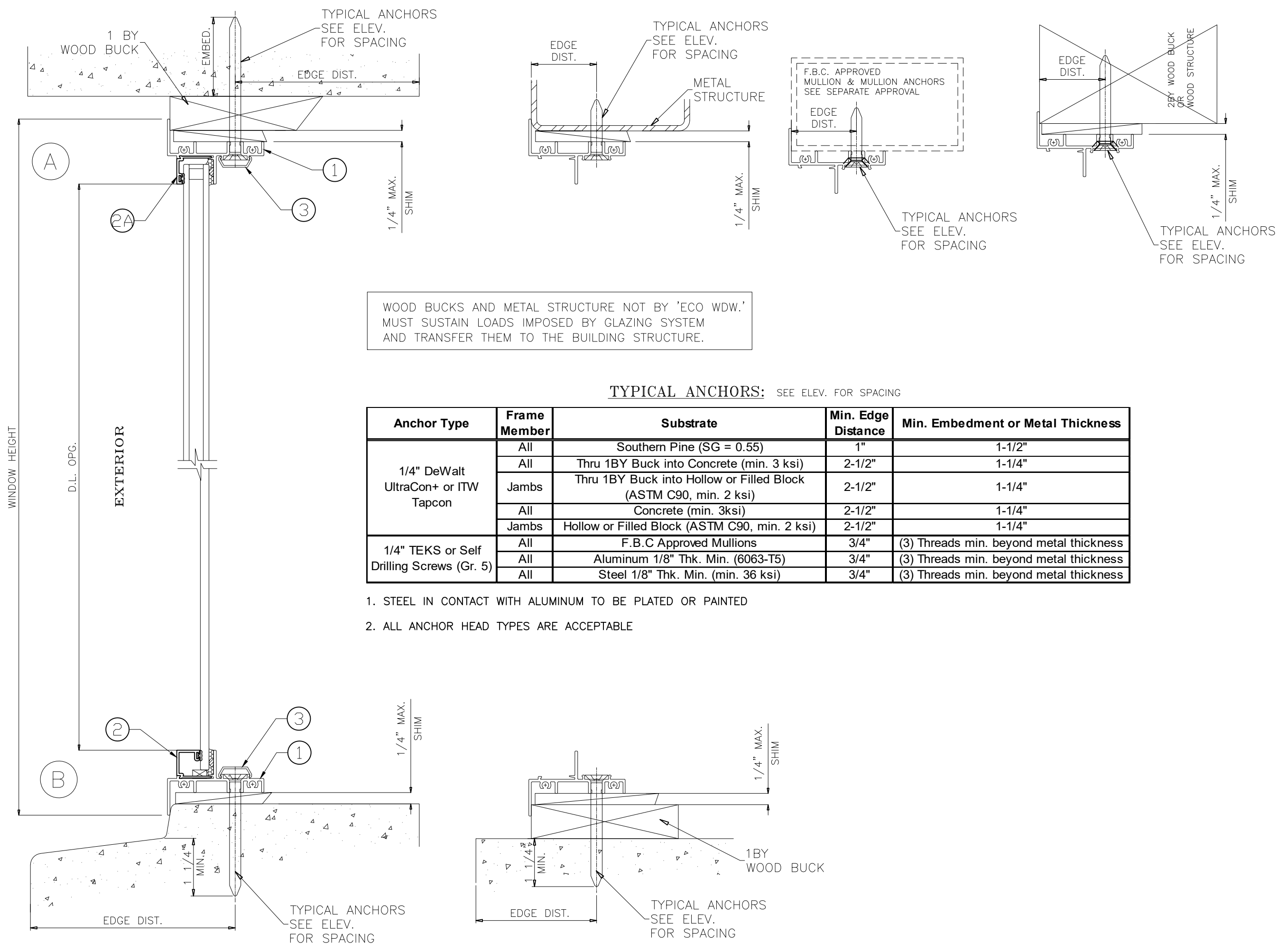
GLAZING OPTIONS

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

Revision:
 ADDED EQUAL LEG ADAPTER, REVISED TABLE FORMAT, ADDED DP TABLE ROUNDING 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
	ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST., MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	HONG C. PW70NH-FPA	Rev.
SERIES-70 ALUMINUM FIXED WINDOW (N.I.)	DESIGN LOADS & GLASS TYPES	Drawn	
SERIES 70	2 OF 6	DWG No.	

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 9/22/23
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705



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+ or ITW Tapcon	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"
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

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

Revision:
 ADDED EQUAL LEG ADAPTER, REVISED TABLE FORMAT, ADDED DP TABLE
 ROUNDED 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

ECO WINDOW SYSTEMS, LLC
 8602 N.W. 80th ST., MEDLEY, FL 33166
 TEL: (305) 885-5299 FAX: (305) 885-5902

SERIES-70 ALUMINUM FIXED WINDOW (N.I.)

DATE: 2/10/2022

BY: HONG C.

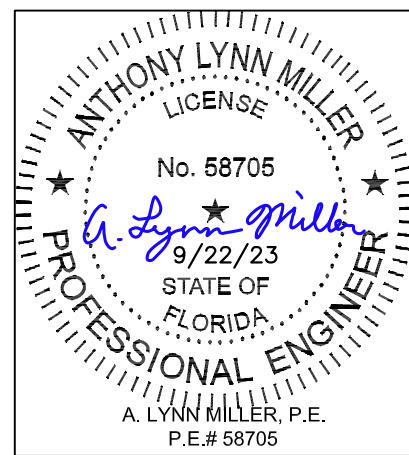
DRAWN: PW70NH-FPA

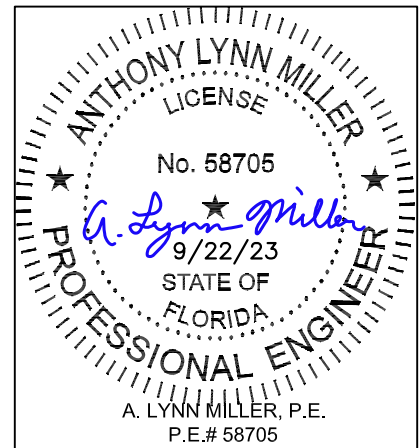
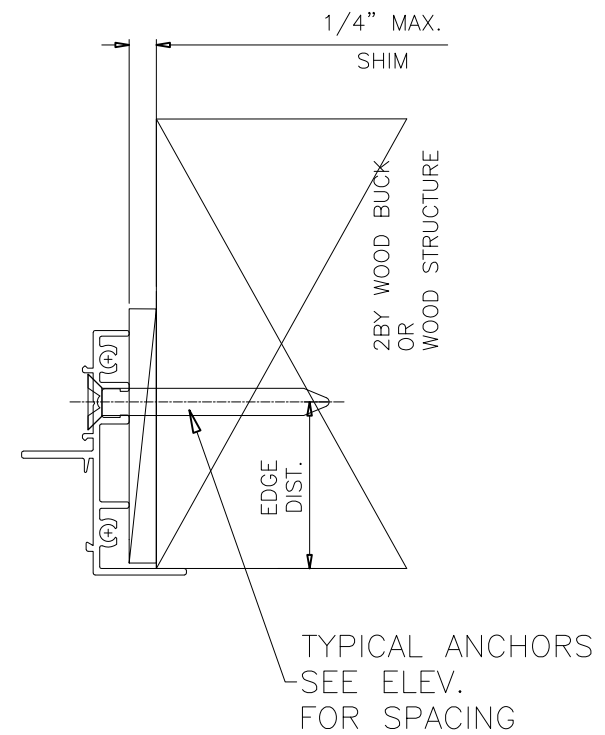
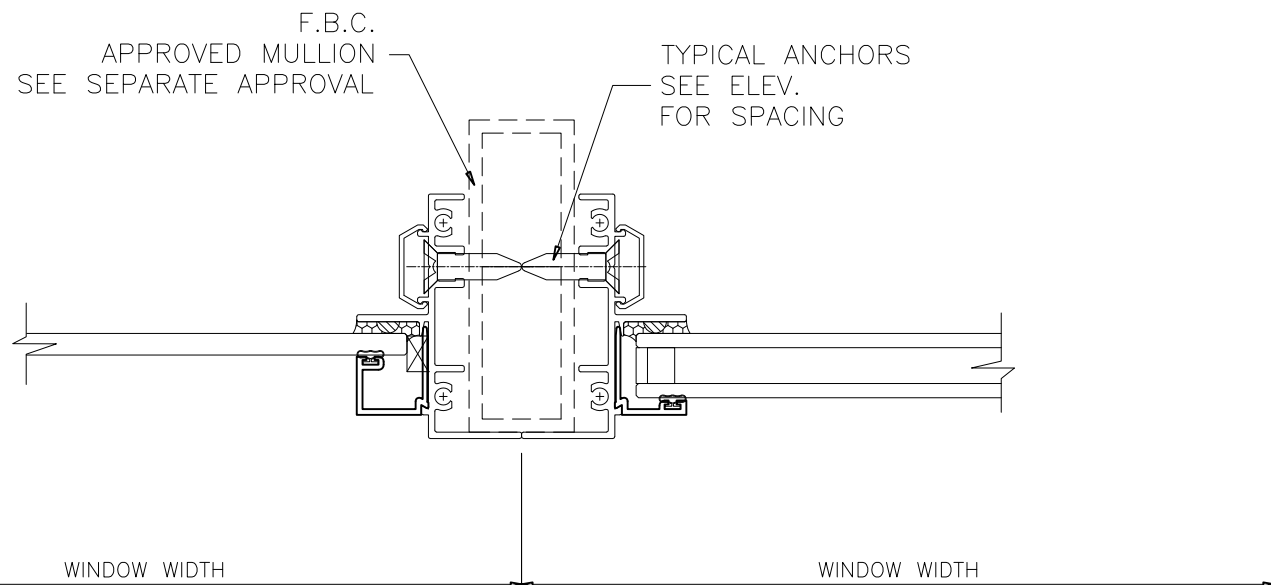
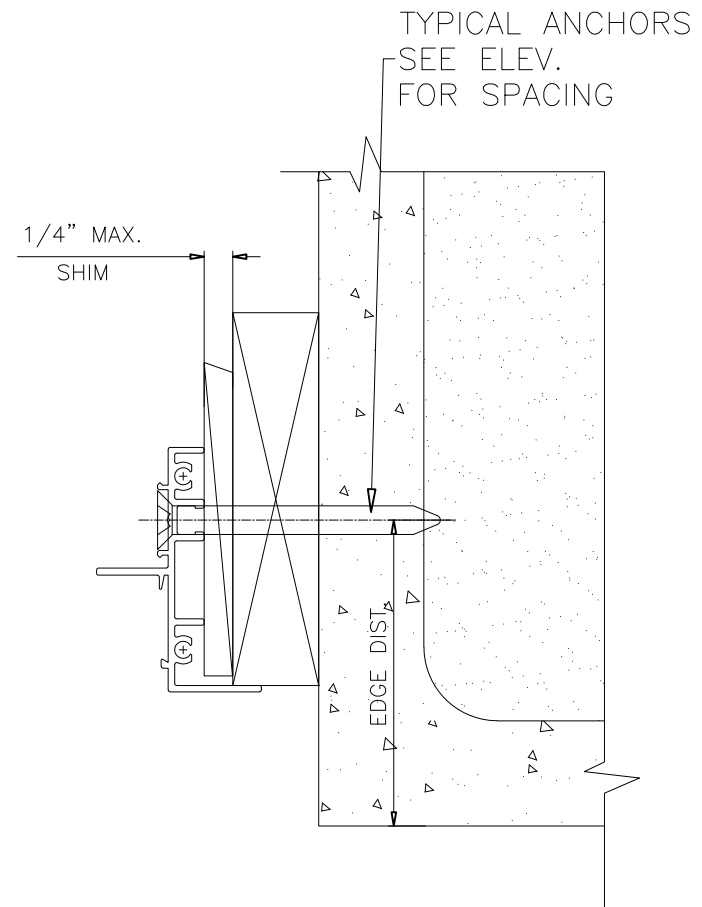
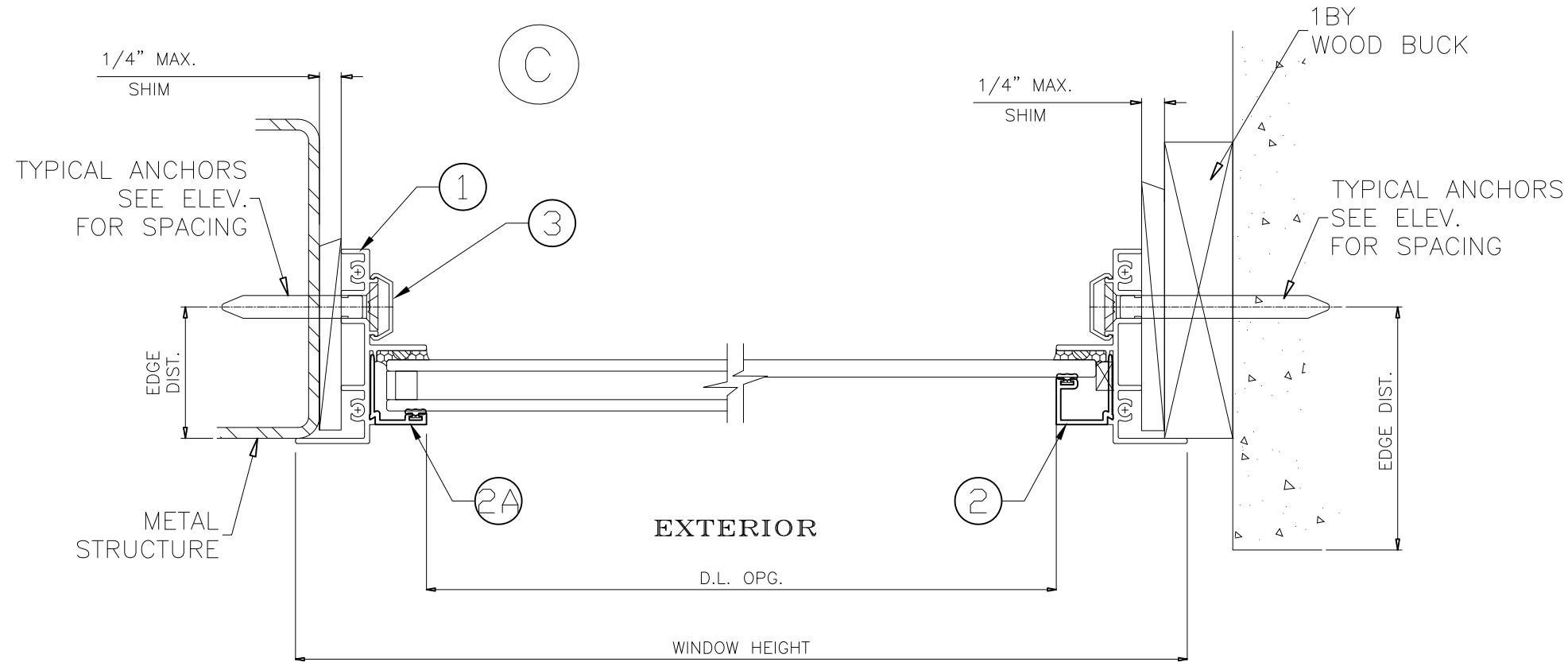
REVISION: A

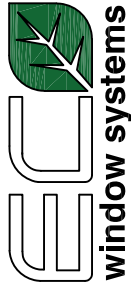
SERIES 70

SHEET 3 OF 6

DWG No.

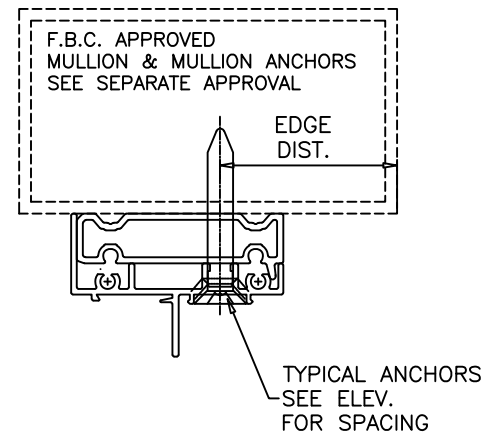
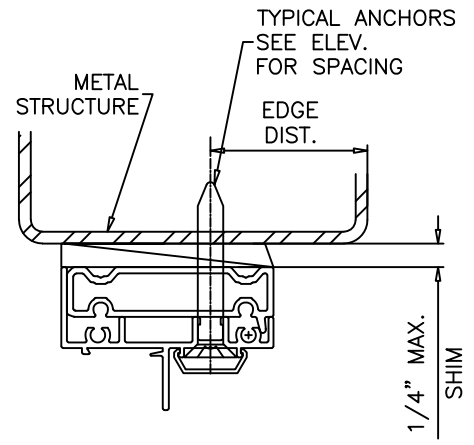
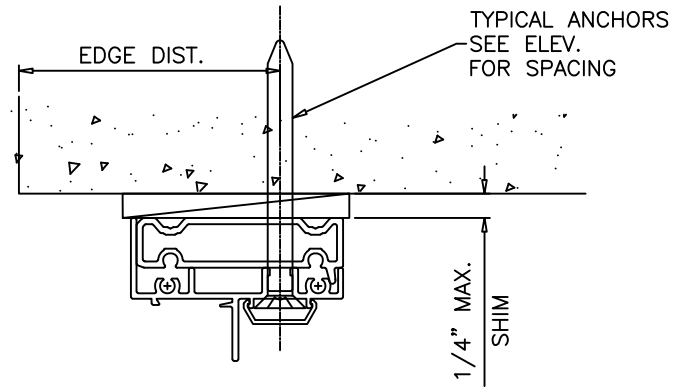




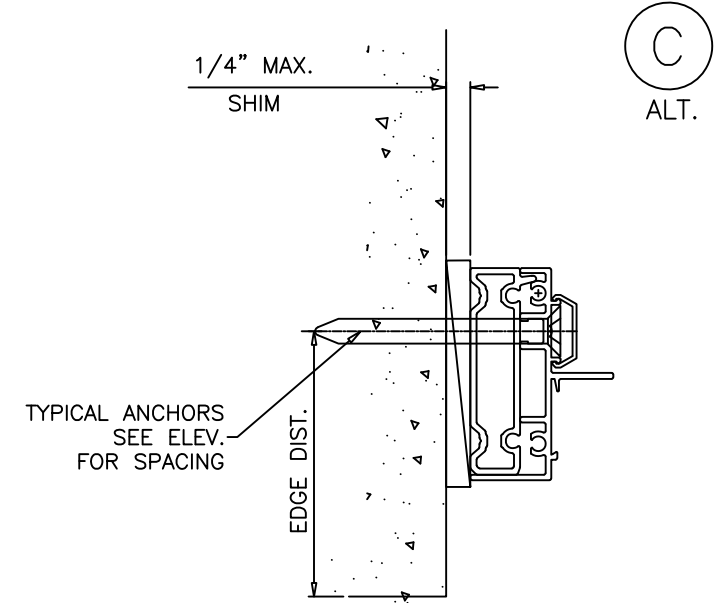
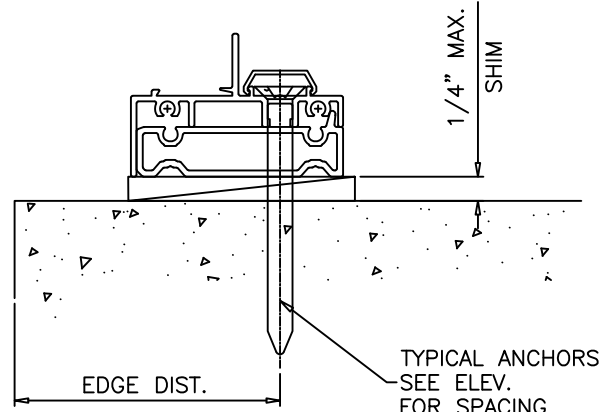
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST., MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-6902	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date 2/10/2022	Rev. A
	SERIES-70 ALUMINUM FIXED WINDOW (N.I.)	HONG C.	Drawn PW70NH-FPA	DWG No. 4 OF 6
HORIZONTAL SECTION DETAILS	SHEET SERIES 70	4 OF 6	Title	Desc.

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

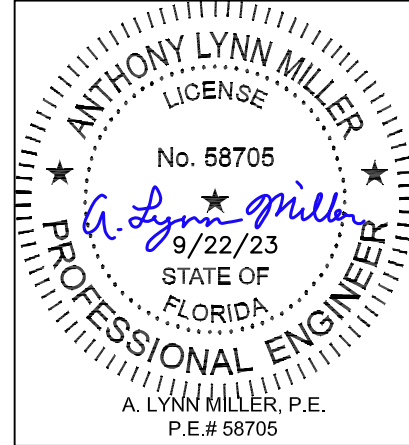
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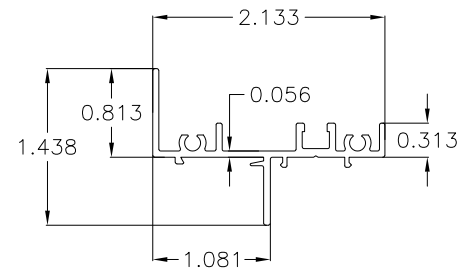


INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER



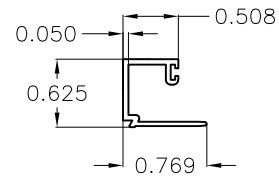
	ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST., MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-6902	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	2/10/2022	A
	SERIES-70 ALUMINUM FIXED WINDOW (N.I.)	HONG C.	PW70NH-FPA	Rev.	A
FLUSH FRAME ADAPTER INSTALLATION DETAIL	DWG No.	5 OF 6	Sheet	Title	Series Desc.
SERIES 70	5 OF 6	5 OF 6	5 OF 6	5 OF 6	5 OF 6

Revision:
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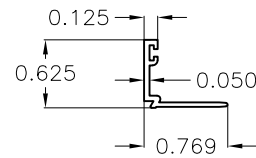


① WINDOW FRAME

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E71	4	WINDOW FRAME	6063 - T6	-
2	E77	4	GLAZING BEAD (3/16" MONOLITHIC GLASS)	6063 - T6	-
2A	E78	4	GLAZING BEAD (9/16" INSUL. GLASS)	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
9	E60	-	FLUSH FRAME ADAPTER	6063 - T6	OPTIONAL



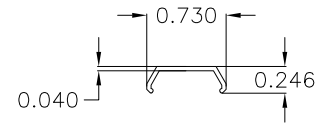
② (3/16" MONOLITHIC GLASS) GLAZING BEAD



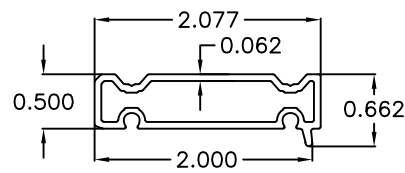
②A (9/16" INSUL. GLASS) GLAZING BEAD

SEALANT:

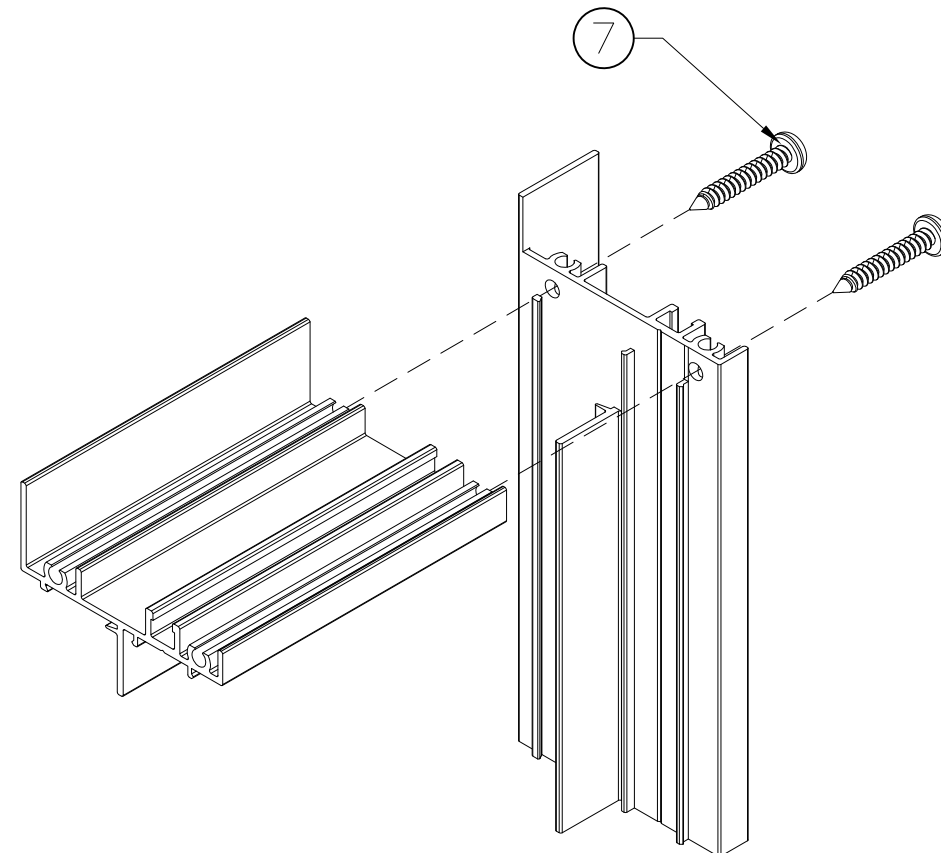
ALL JOINT AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.



③ SCREW COVER



⑨ FLUSH FRAME ADAPTER



FRAME CORNER

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

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	HONG C. PW70NH-FPA		REV. A
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST., MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-6902	SERIES-70 ALUMINUM FIXED WINDOW (N.I.)	DWG No.	6 OF 6
	EXTRUSIONS, ASSEMBLY, & BOM	SHEET	70

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
A. Lynn Miller
 9/22/23
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705