

SERIES-350
ALUMINUM FIXED WINDOW (S.M.I.)

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.
AHJ TO REVIEW SUCH APPLICATION AND VERIFY TRIBUTARY LOAD AND END LOAD ANCHORS.

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

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.

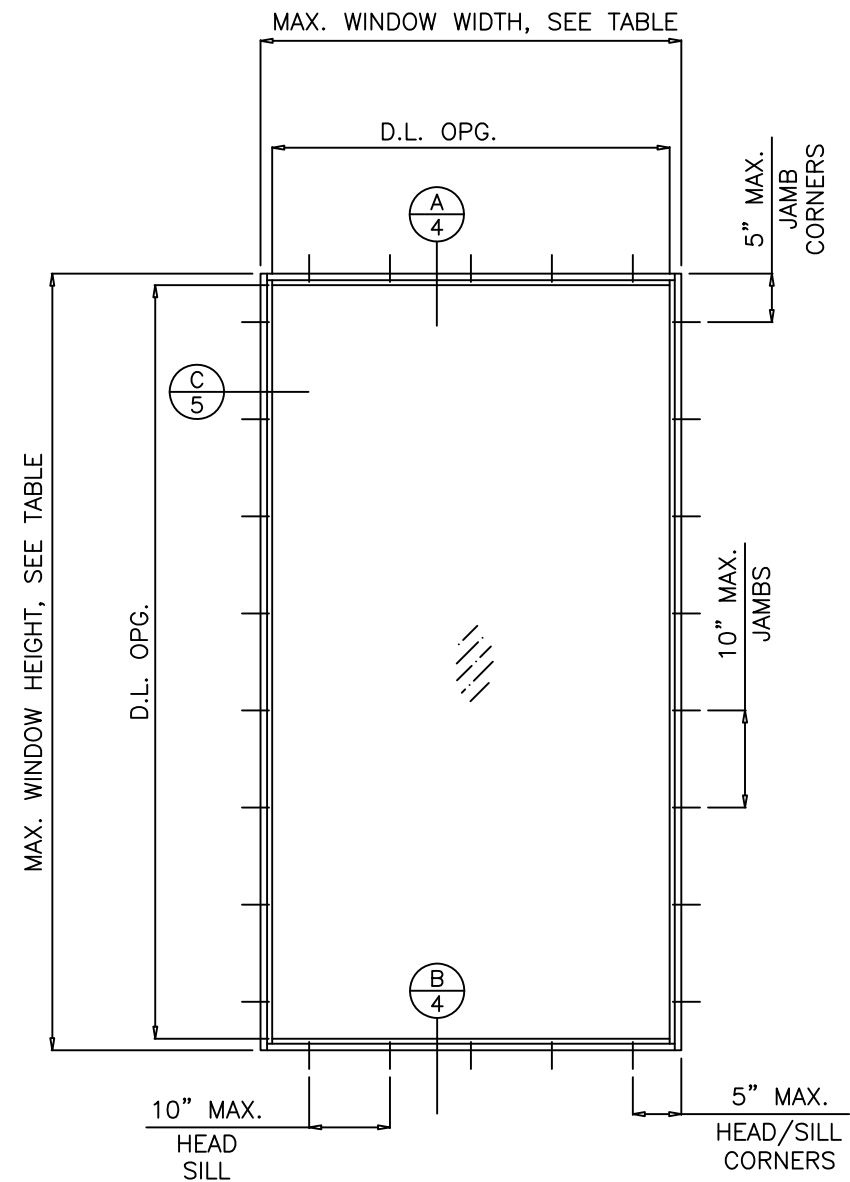
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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)'.



TYPICAL ELEVATION

GLASS D.L.O. DIMS.

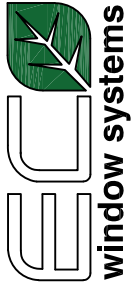
D.L.O. HEIGHT = WINDOW HEIGHT - 3.625"

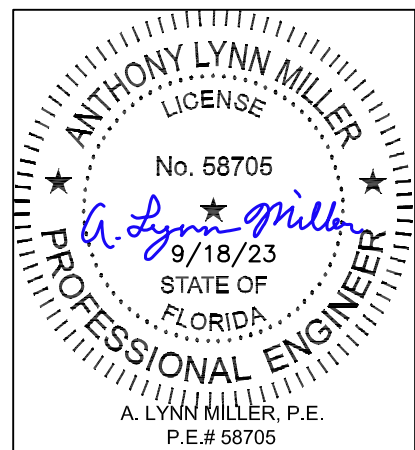
D.L.O. WIDTH = WINDOW WIDTH - 3.625"

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE

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.

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

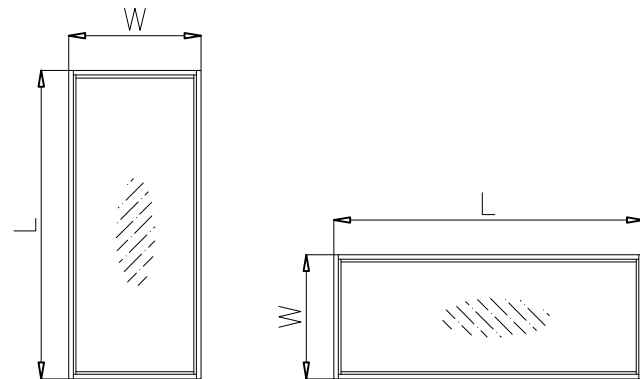
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	2/10/2022 Date	HONG C. Drawn	PW350SM-FPA	A
				Revis.
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES-350 ALUMINUM FIXED WINDOW (S.M.I.) Title	GENERAL INFORMATION & ELEVATION	1 OF 6 Sheet	350
				SERIES 350



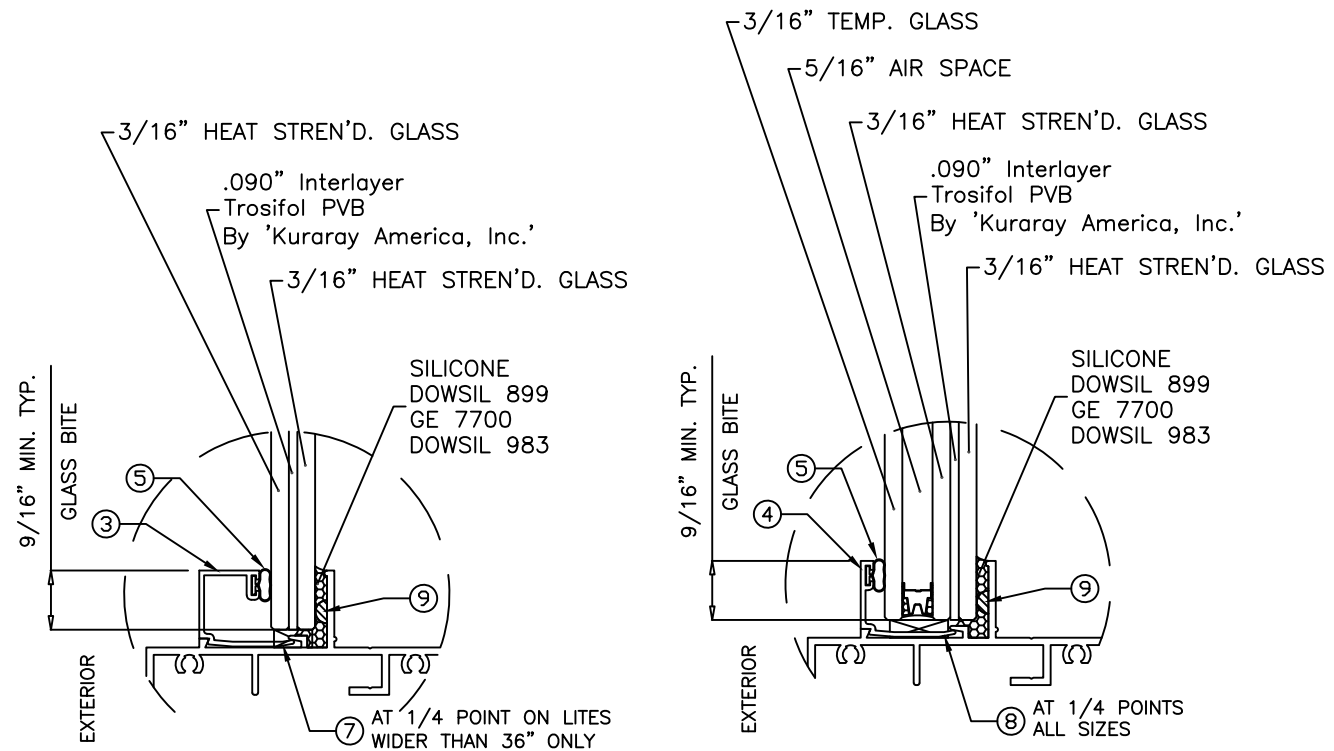
Design Load Capacity - PSF

Glass Types G2 & G2i	Window Length (L)																										
	38-3/8"		42"		48"		50-5/8"		54"		60"		63"		66"		72"		74-1/4"		78"		84"				
Window Width (W)	19-1/8"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	24"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	26-1/2"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	30"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	32"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	36"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	37"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0		
	42"	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0	+80.0	-140.0
	48"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
	53-1/8"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+75.9	-123.3	+71.1	-115.6	+72.3	-117.5	+72.3	-117.5	+71.1	-115.6	+72.3	-117.5	+72.3	-117.5						
	54"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+75.9	-123.3	+71.1	-115.6	+71.1	-115.6	+71.1	-115.6	+71.1	-115.6	+71.1	-115.6								
	60"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+75.9	-123.3	+71.1	-115.6	+64.0	-104.0	+64.0	-104.0	+64.0	-104.0										
	63"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+75.9	-123.3	+71.1	-115.6	+64.0	-104.0	+61.0	-99.0												
	66"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+71.1	-115.6	+71.1	-115.6	+64.0	-104.0														
72"	+80.0	-140.0	+80.0	-140.0	+80.0	-130.0	+71.1	-115.6	+71.1	-115.6																	

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



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



GLASS TYPE 'G2'
7/16" OVERALL LAM. GLASS

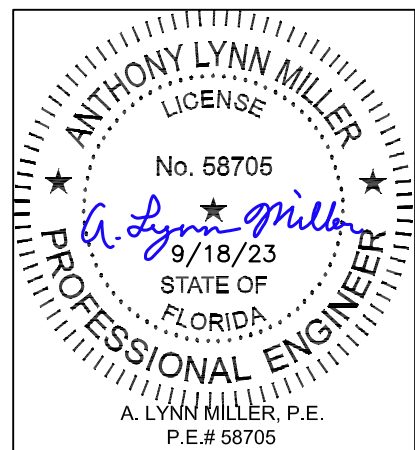
GLASS TYPE 'G2i'
15/16" OVERALL INSUL. LAM. GLASS

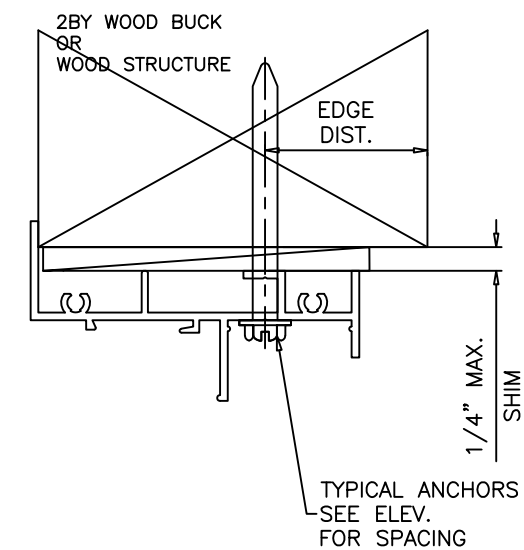
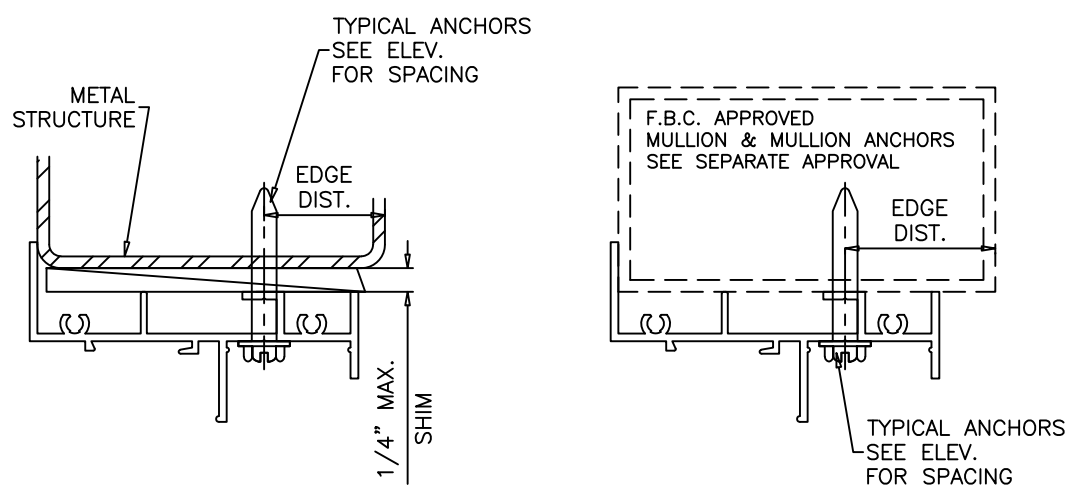
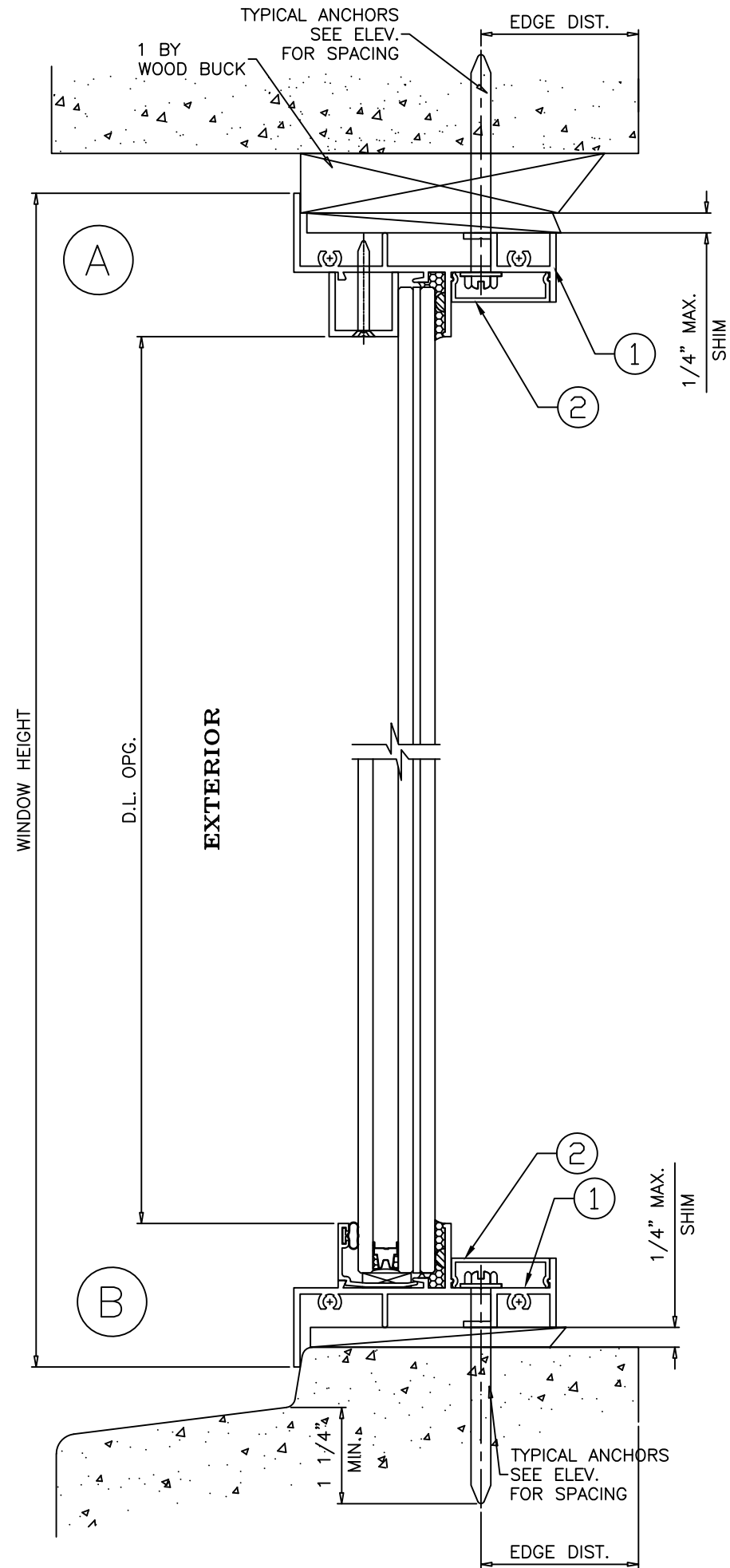
GLAZING OPTIONS

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	2/10/2022	A
	ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	HONG C.	Revised
SERIES-350 ALUMINUM FIXED WINDOW (S.M.I.)	PW350SM-FPA	Date	Revised
GLASS OPTIONS	2 OF 6	Drawn	Revised
SERIES 350	Sheet	No.	Revised



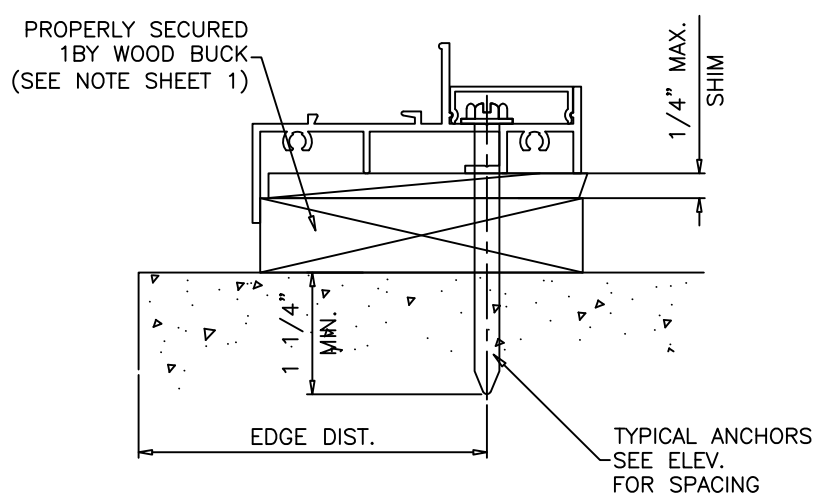


WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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 Masonry (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	Concrete (min. 3ksi)	2-1/2"	1-1/4"
#14 SMS or Self Drilling Screws (Gr. 2)	Jambs	Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-3/4"
	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.

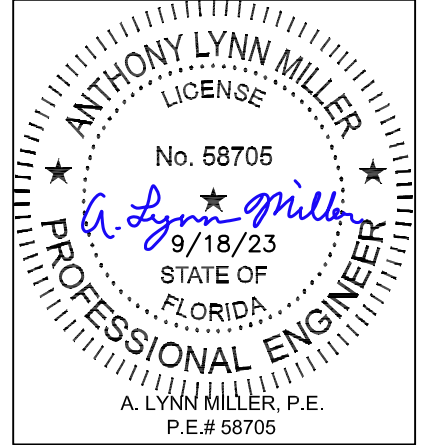
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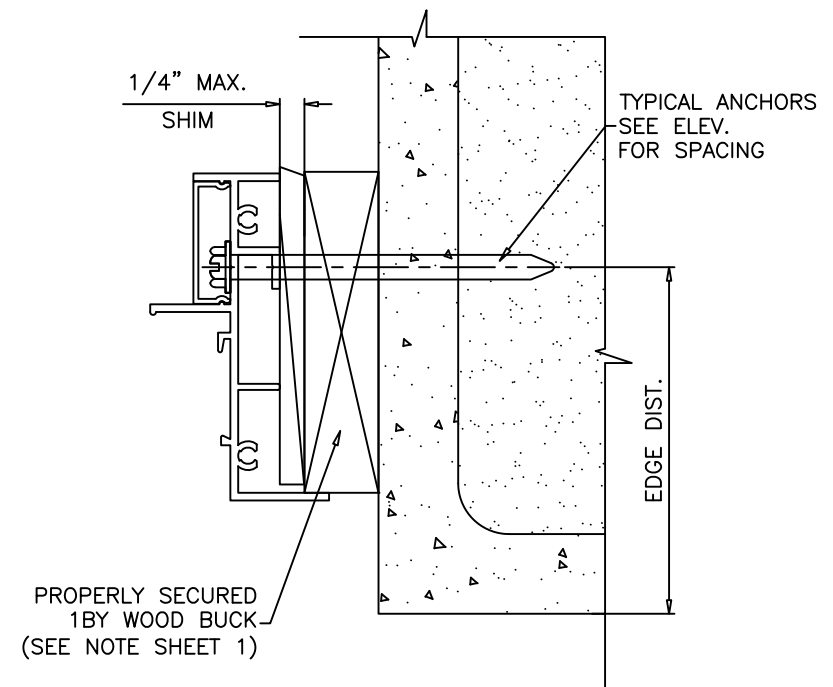
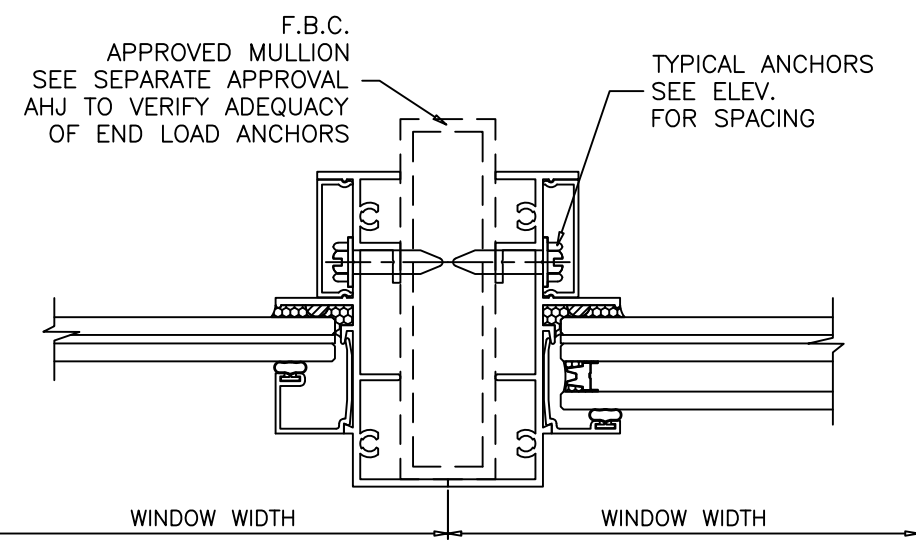
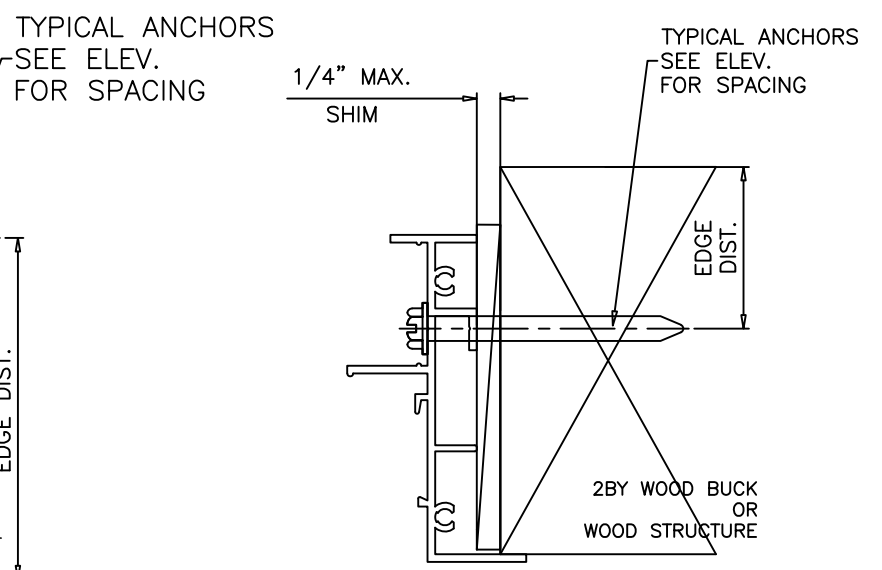
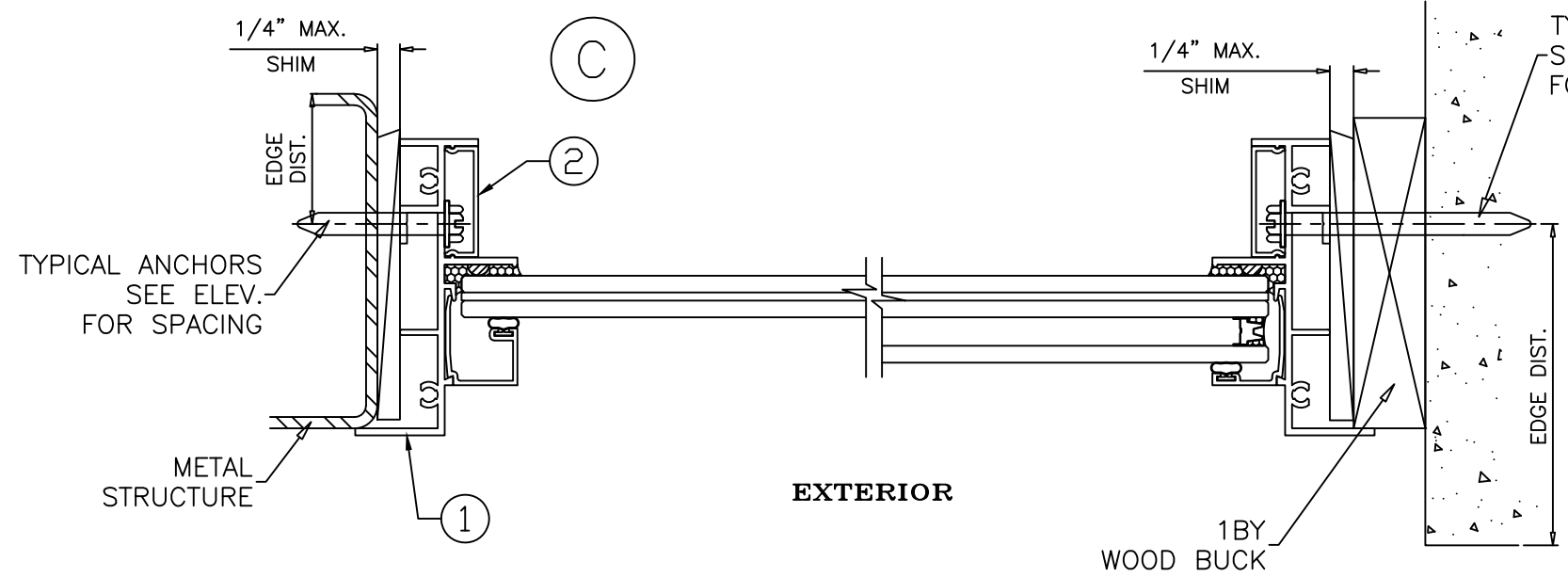
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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

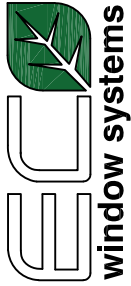
SERIES-350 ALUMINUM FIXED WINDOW (S.M.I.)
VERTICAL SECTION DETAILS & ANCHOR DETAILS

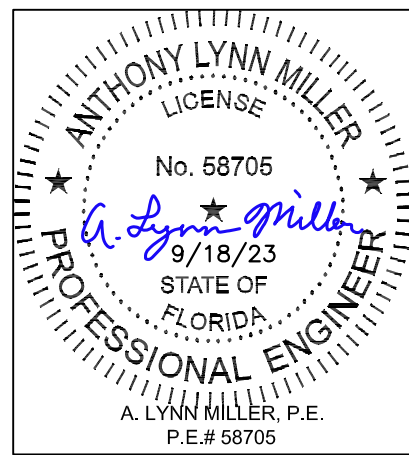
2/10/2022
HONG C.
PW350SM-FPA
3 OF 6
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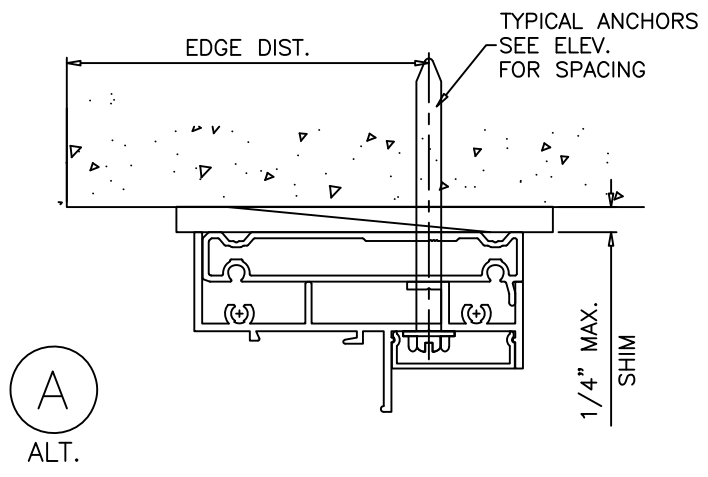




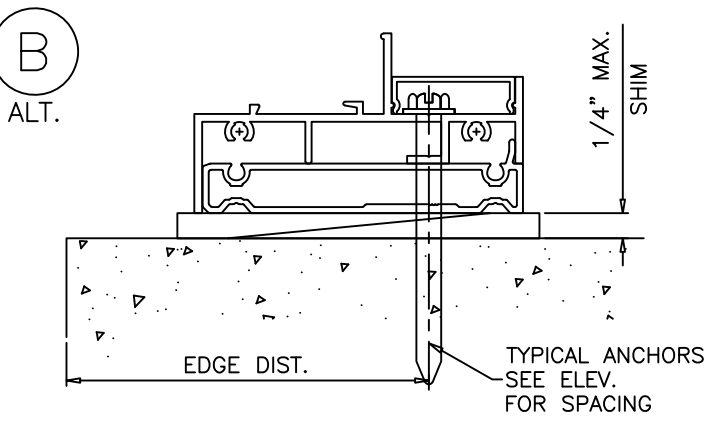
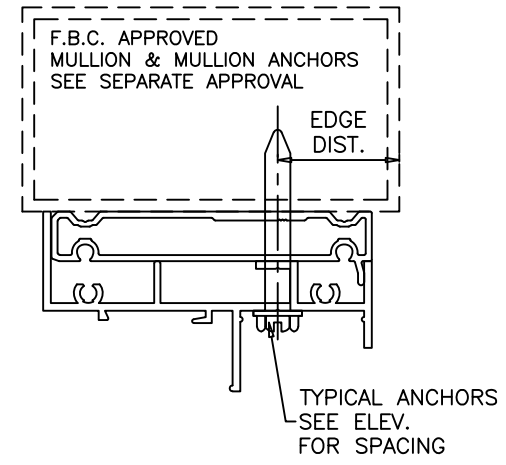
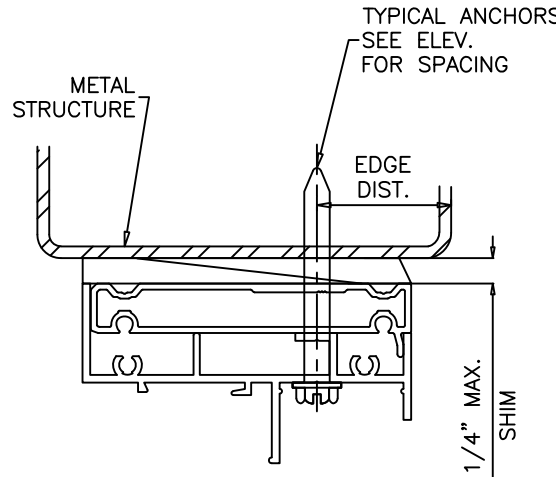
Revision:
 ADDED EQUAL LEG ADAPTER, REVISED TABLE FORMAT, ADDED DP TABLE ROUNDING, ANSI Z97.1, AND ANCHOR HEAD TYPE NOTES, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	2/10/2022
	HONG C. PW350SM-FPA		Revised By
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES-350 ALUMINUM FIXED WINDOW (S.M.I.)	Sheet	4 OF 6
		DWG No.	PW350SM-FPA
HORIZONTAL SECTION DETAILS		Series Desc.	A

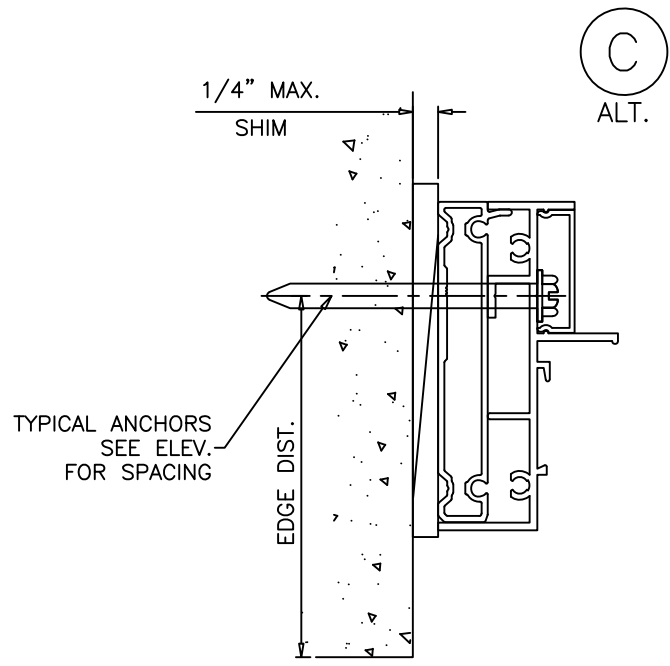




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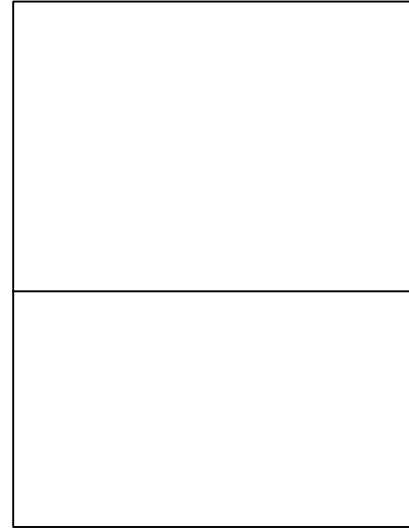


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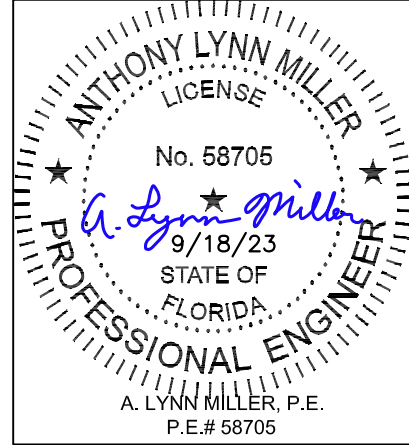
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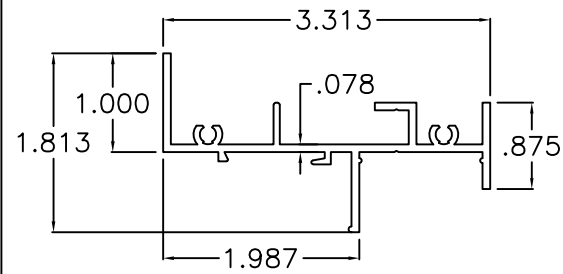
INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER



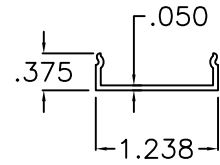
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	ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES-350 ALUMINUM FIXED WINDOW (S.M.I.) FLUSH FRAME ADAPTER INSTALLATION DETAIL	Drawn HONG C.
	5 OF 6	DWG No. PW350SM-FPA	Sheet A
SERIES 350	5 OF 6	DWG No. PW350SM-FPA	Sheet A

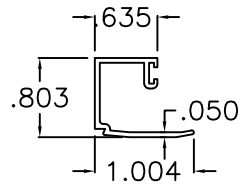




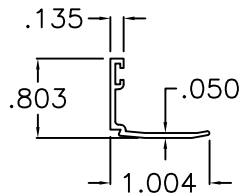
① WINDOW FRAME



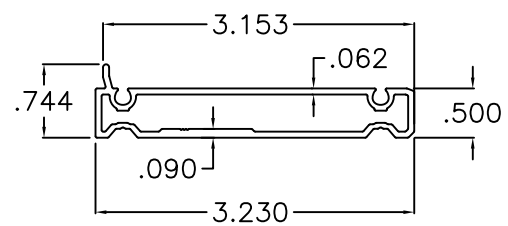
② FRAME COVER



③ GLAZING BEADS (LAM. GLASS)

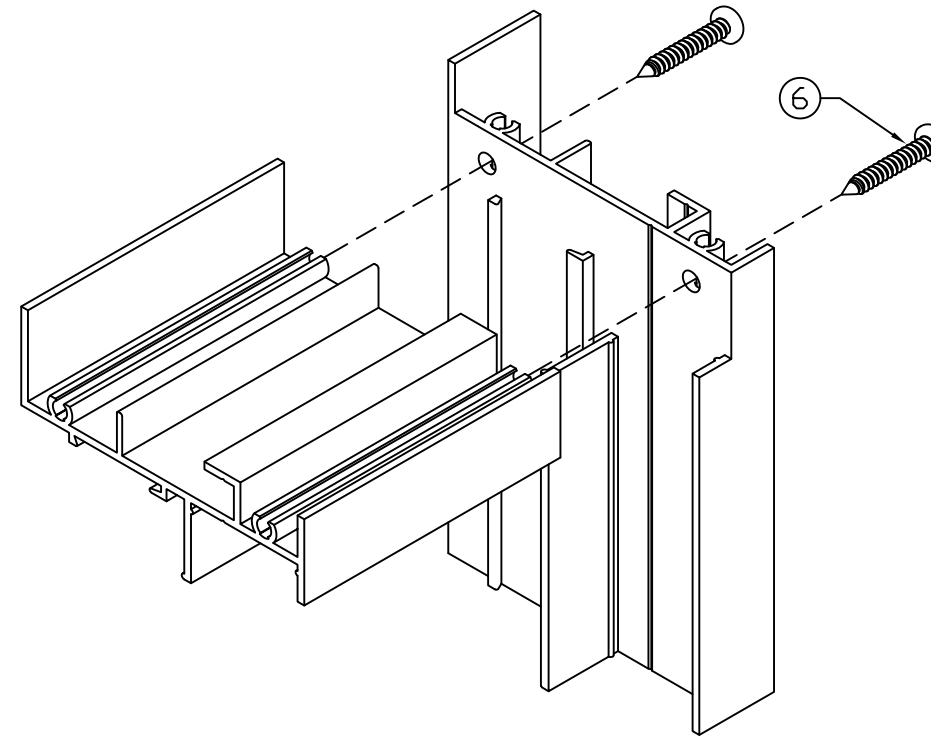


④ GLAZING BEAD (INSUL. LAM. GLASS)



⑩ FLUSH FRAME ADAPTER

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E351	4	WINDOW FRAME	6063 - T6	-
2	E352	4	FRAME COVER	RIGID PVC	-
3	E353	4/ LITE	GLAZING BEAD - (LAM. GLASS)	6063 - T6	-
4	E354	4/ LITE	GLAZING BEAD - (INSUL. LAM. GLASS)	6063 - T6	-
5	-	AS REQD.	EXTERIOR GLAZING GASKET	VINYL	DUROMETER 70±5 SHORE A
6	#10 X 1-1/4"	2/ CORNER	ASSEMBLY FASTENERS	ST. STEEL	HWH SMS
7	-	2/ LITE	SETTING BLOCK AT 1/4 POINTS (LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
8	-	2/ LITE	SETTING BLOCK AT 1/4 POINTS (INSUL. LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
9	FLB-50	AS REQD.	GLASS SPACER - 1/8" HIGH	SILICONE	FRANK LOWE
10	E161	-	FLUSH FRAME ADAPTER	6063 - T6	OPTIONAL



WINDOW CORNER

Revision:
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ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	Drawn By HONG C.	DWG No. PW350SM-FPA	Sheet No. 6 OF 6
SERIES-350 ALUMINUM FIXED WINDOW (S.M.I.)	EXTRUSIONS, BOM & CORNER DETAIL	SERIES 350	

