

Design Load Capacity - PSF											
Frame Width (in.)	Glass Type	Frame Height (in.)									
		26"		38-3/8"		50-5/8"		63"		76"	
19-1/8"	1/8" Ann. Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
	1/8" H/S Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
	9/16" Ann./H.S. Insul	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
26-1/2"	1/8" Ann. Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-64.9
	1/8" H/S Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
	9/16" Ann./H.S. Insul	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
37"	1/8" Ann. Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-62.3	+40.0	-62.5	+40.0	-53.2
	1/8" H/S Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
	9/16" Ann./H.S. Insul	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5	+40.0	-67.5
44"	1/8" Ann. Mono	+40.0	-67.5	+40.0	-64.4	+40.0	-56.4	+40.0	-52.4	+40.0	-45.3
	1/8" H/S Mono	+40.0	-67.5	+40.0	-67.5	+40.0	-66.8	+40.0	-59.5	+40.0	-55.8
	9/16" Ann./H.S. Insul	+40.0	-67.5	+40.0	-67.5	+40.0	-66.8	+40.0	-59.5	+40.0	-55.8
53-1/8"	1/8" Ann. Mono	+40.0	-67.5	+40.0	-56.2	+40.0	-42.0	+40.0	-41.8		
	1/8" H/S Mono	+40.0	-67.5	+40.0	-63.4	+40.0	-51.7	+40.0	-45.0		
	9/16" Ann./H.S. Insul	+40.0	-67.5	+40.0	-63.4	+40.0	-51.7	+40.0	-45.0		

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

ECO-GUARD SERIES-50

ALUMINUM SINGLE HUNG WINDOW

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

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG 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.

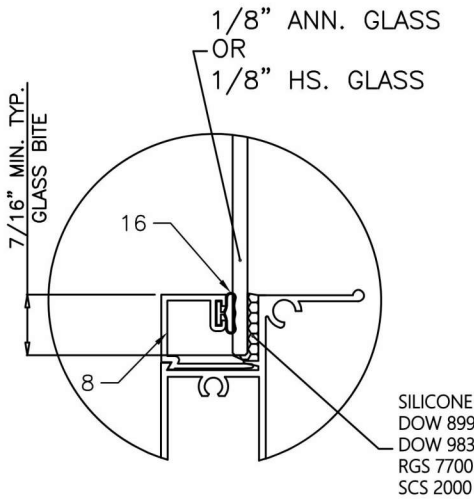
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL

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

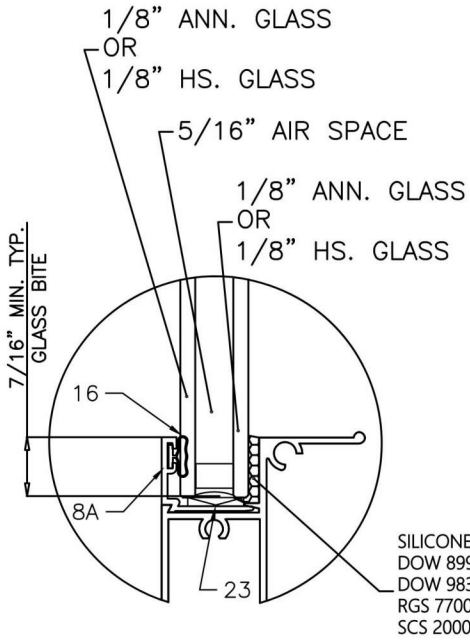
THESE WINDOWS ARE NOT RATED FOR IMPACT.

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 THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.



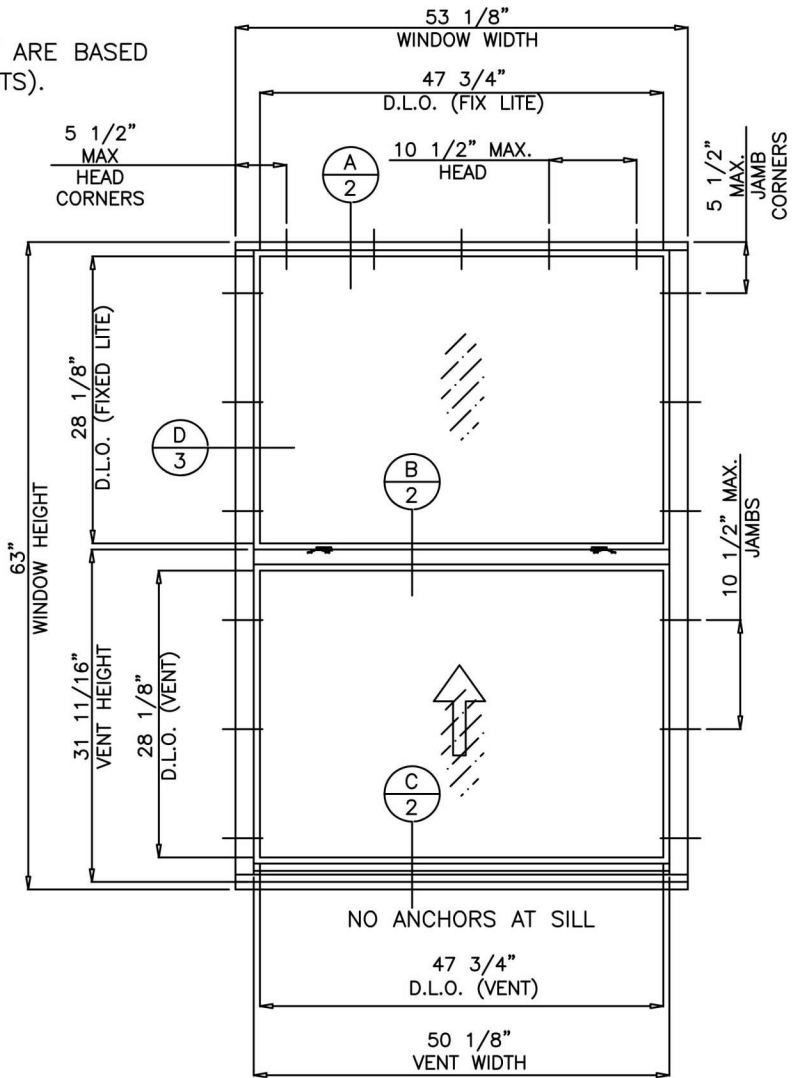
1/8" MONO. GLASS



9/16" INSUL. GLASS

GLAZING OPTIONS

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



TYPICAL ELEVATION
TESTED UNIT



JAVAD AHMAD PE, inc

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FL 33126

Ph: (305) 424-8001

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MA	drawn by:	BS	check by:
JA-1844-24	12/31/2024	REVISION	DESCRIPTION
No.	DATE	BY	

SERIES 50: ECO-GUARD ALUMINUM SINGLE HUNG WINDOW (N.J.)
THESE WINDOWS ARE NOT RATED FOR IMPACT

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

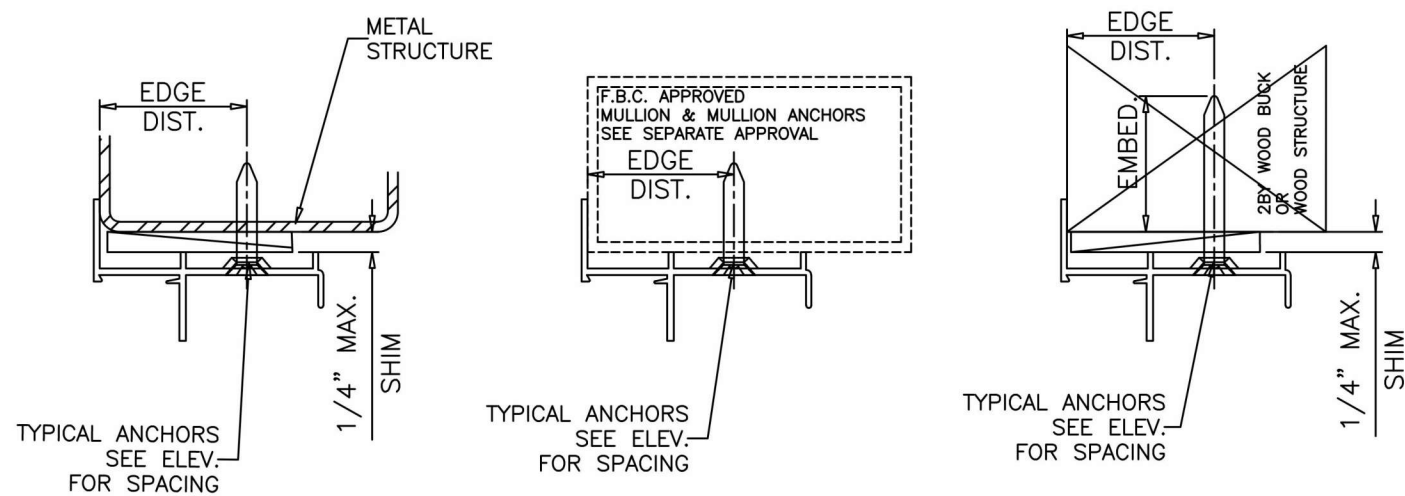
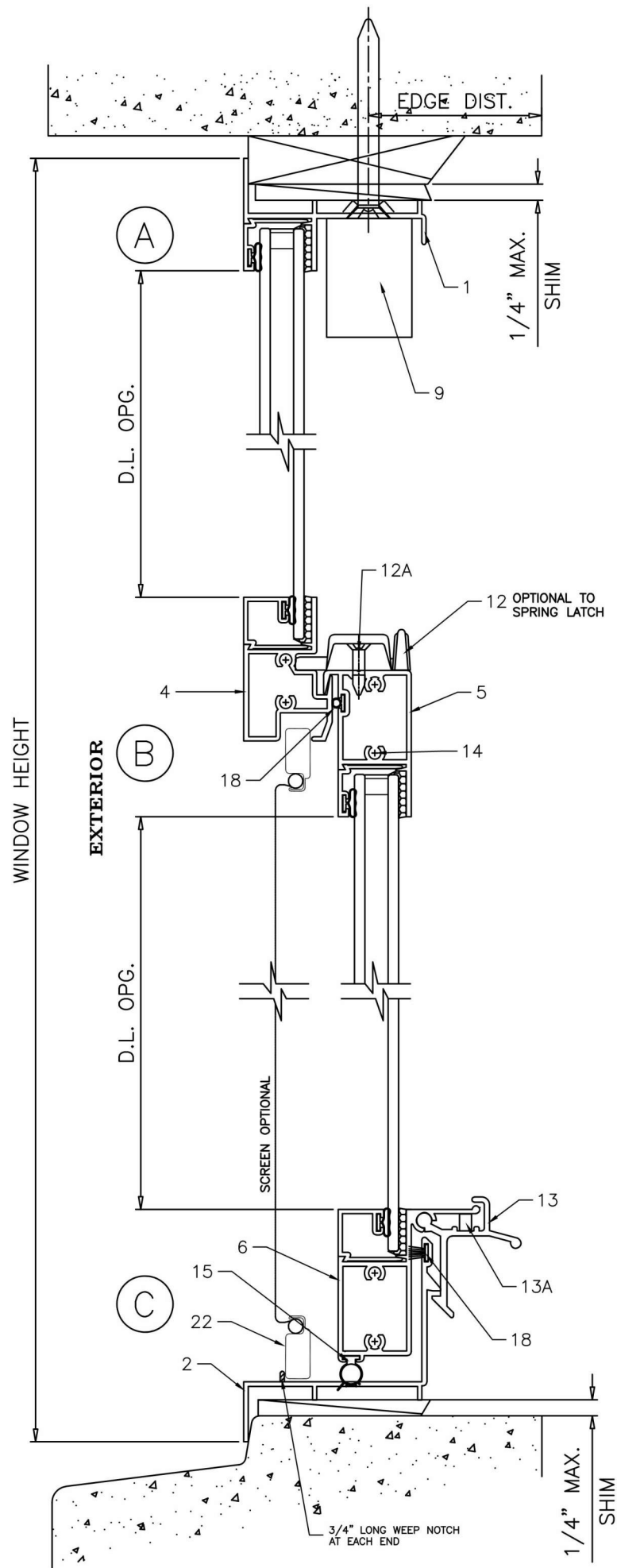


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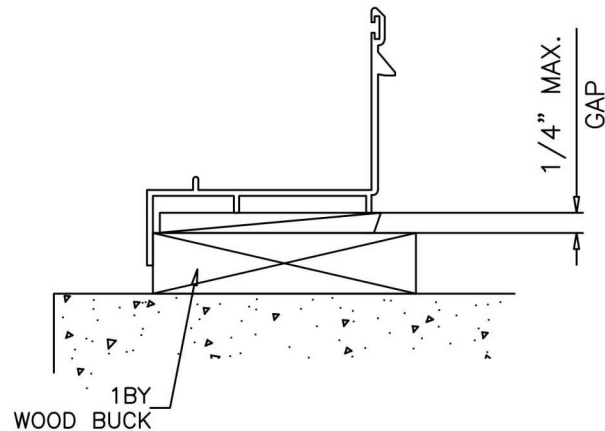


WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" ITW Tapcon or DeWalt UltraCon+	Head/Jambs	Southern Pine (SG = 0.55)	1"	1-1/2"
	Head/Jambs	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"
	Head/Jambs	Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
1/4" Tek's or Self Drilling Screws (Gr. 5)	Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness
#14 SMS or Self Drilling Screws (Gr. 2)	All	F.B.C. Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5) (No Shim Space)	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Steel 1/8" Thk. Min. (min. 36 ksi) (No Shim Space)	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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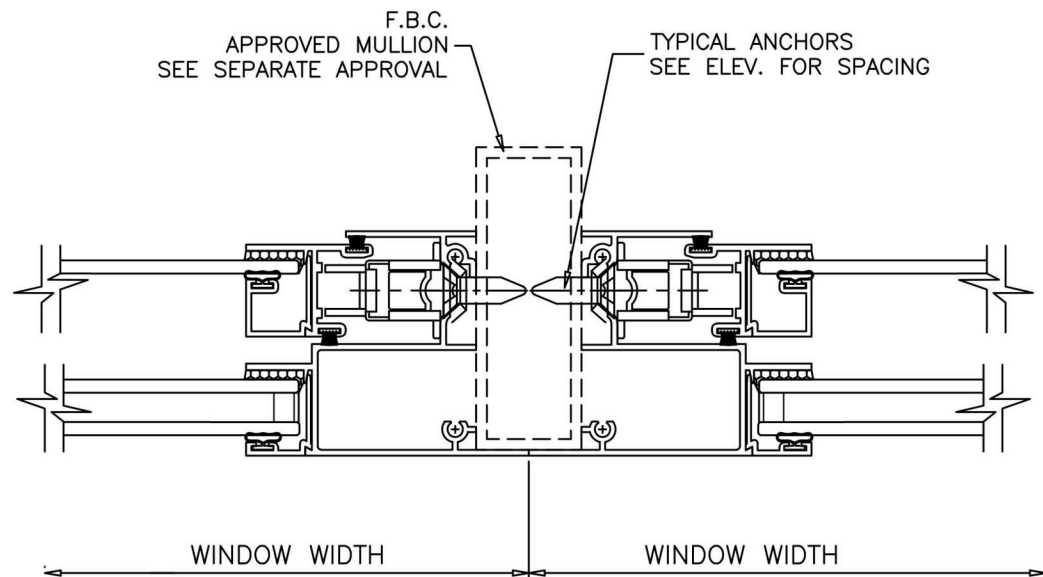
SERIES 50: ECO-GUARD ALUMINUM SINGLE HUNG WINDOW (N.J.)
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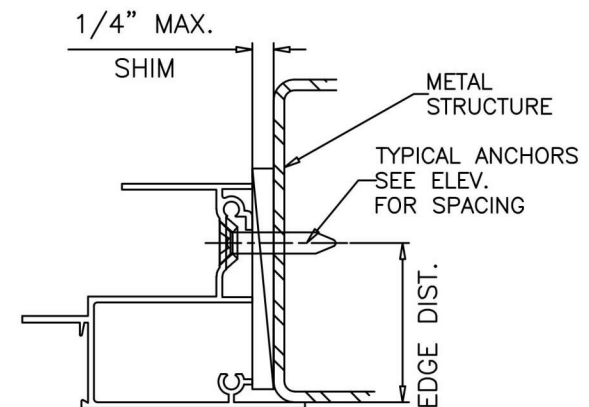
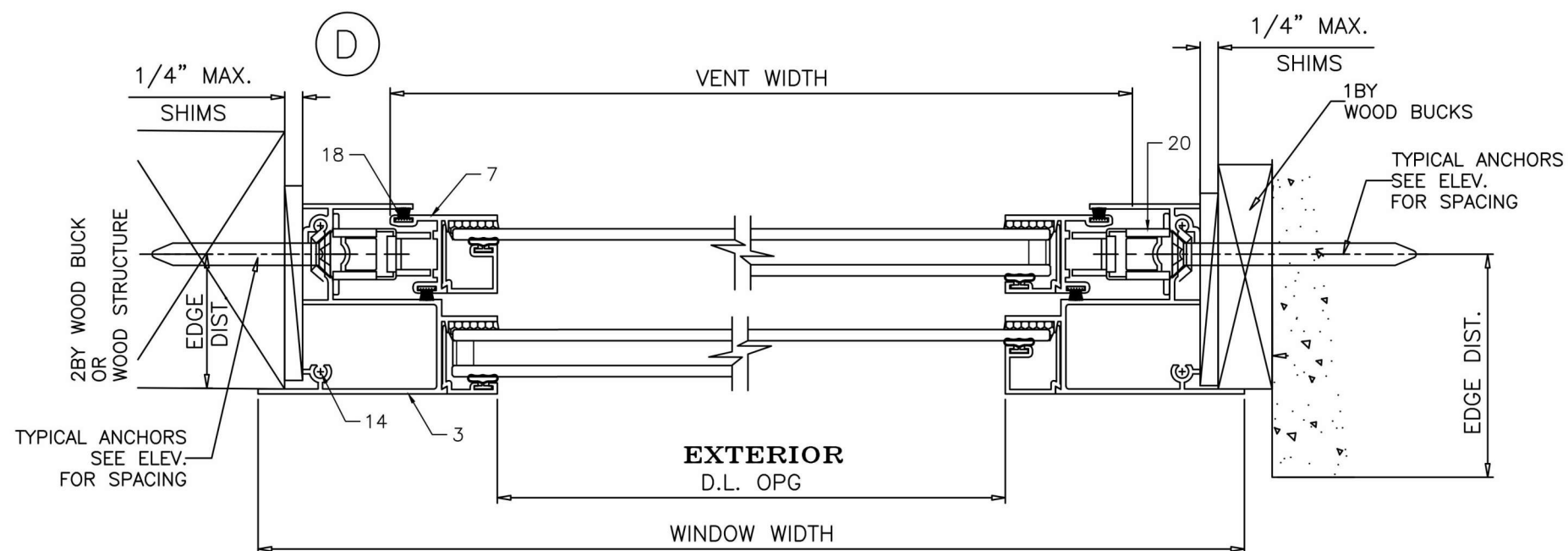
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E51	1	FRAME HEAD	6063 - T6	-
2	E52	1	FRAME SILL	6063 - T6	-
3	E53	2	FRAME JAMB	6063 - T6	-
4	E54	1	FIXED MTG. RAIL	6063 - T6	-
5	E55	1	VENT TOP RAIL	6063 - T6	-
6	E56	1	VENT BOTTOM RAIL	6063 - T6	-
7	E57	2	VENT SIDE RAIL	6063 - T6	-
8	E77	AS REQD.	GLAZING BEAD (1/8" MONOLOTHIC GLASS)	6063 - T6	-
8A	E78	AS REQD.	GLAZING BEAD (9/16" INSUL. GLASS)	6063 - T6	-
9	E59	2 / VENT	SASH STOP	6063 - T6	-
12	SL203P	2 / VENT	SWEEP LATCH	ZAMAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2 / LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
13	FY-113	2 / VENT	SPRING LOADED LATCH	6063 - T6	ALTERNATE TO SWEEP LATCH
13A	-	1 / LATCH	LATCH SPRING	ST. STEEL	-
14	#8 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
15	E207	AS REQD.	BOTTOM RAIL SEAL - SERIES 101	NEOPRENE	ULTRAFAB
16	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
18	W23181	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
20	-	2/ VENT	BLOCK AND TACKLE BALANCE	-	-
21	E60	2/ VENT	SASH CAM	NYLON	-
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	-	2 / LITE	SETTING BLOCK	EPDM	DUROMETER 85±5 SHORE A
24	E060	-	FLUSH FRAME ADAPTER	6063 - T6	OPTIONAL



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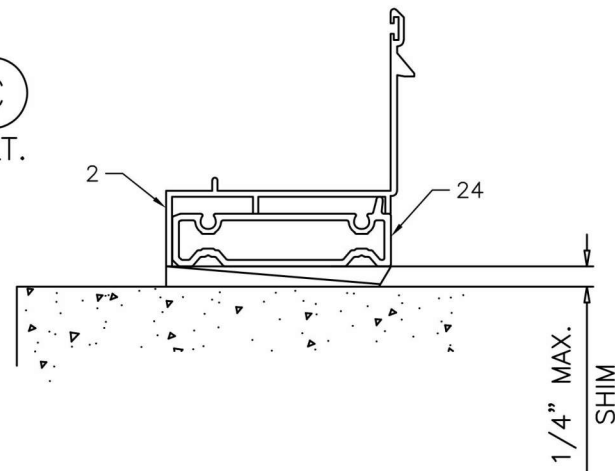


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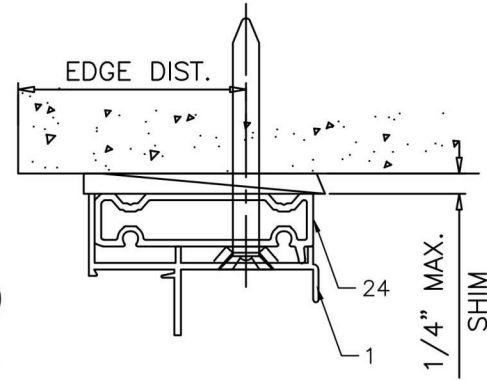
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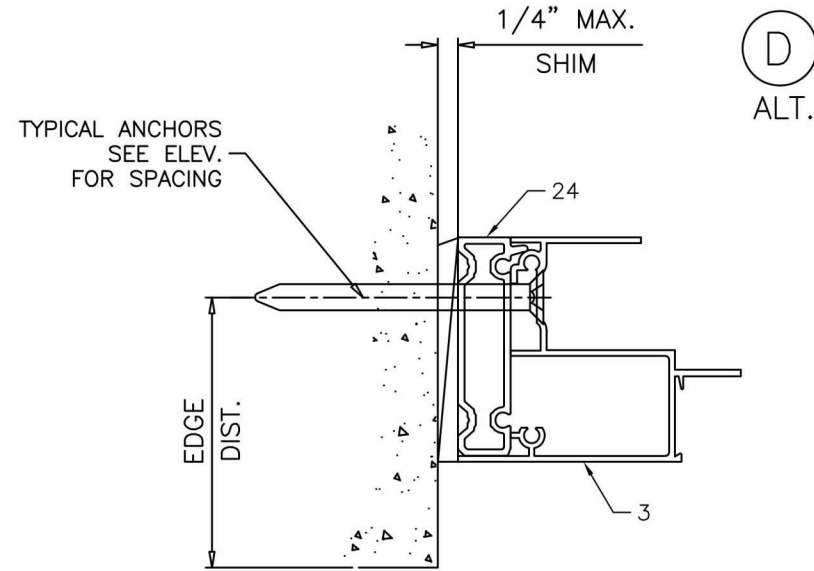
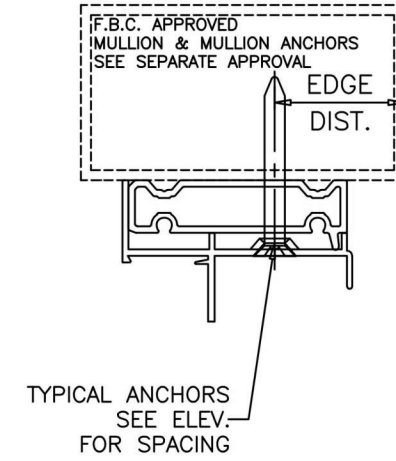
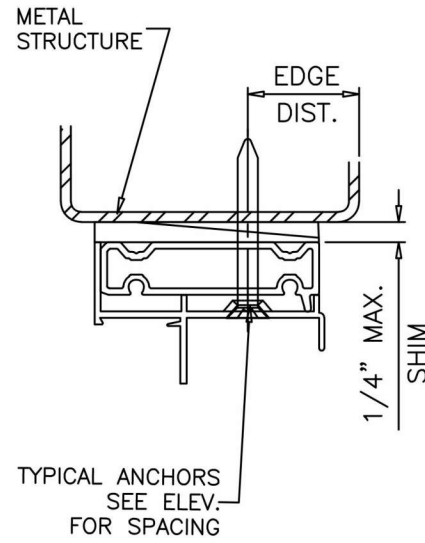
C
ALT.



A
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER



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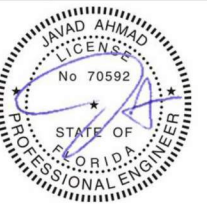
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(N.I.)
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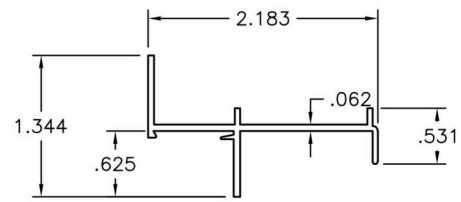
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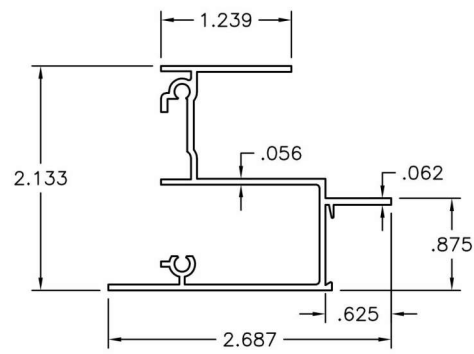
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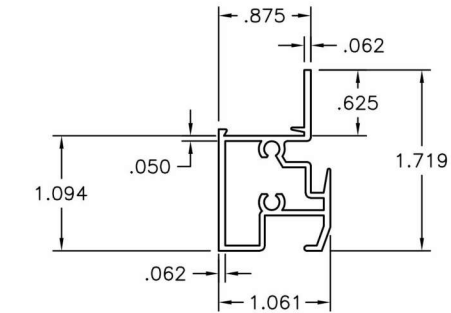
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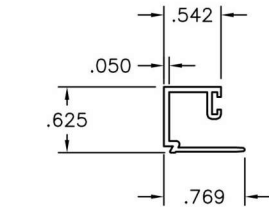
1 FRAME HEAD



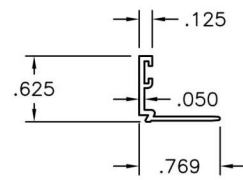
3 FRAME JAMB



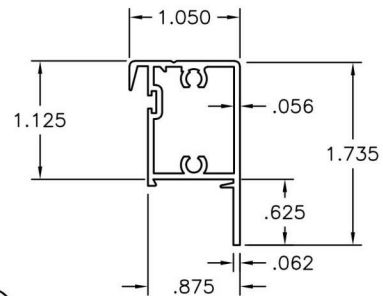
4 FIX. MEETING RAIL



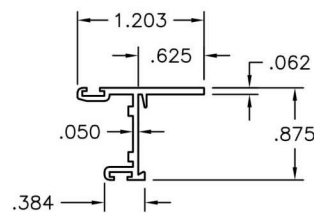
8 GLAZING BEAD
(1/8" MONOLITHIC GLASS)



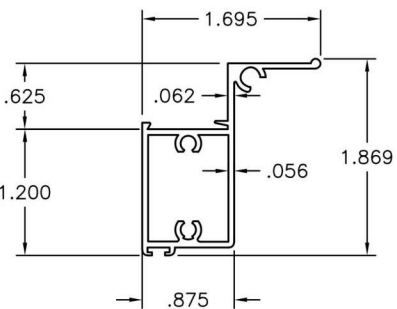
8A GLAZING BEAD
(9/16" INSUL. GLASS)



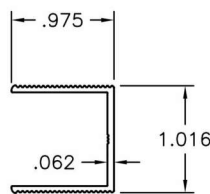
5 VENT TOP RAIL



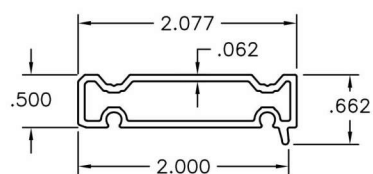
7 VENT SIDE RAIL



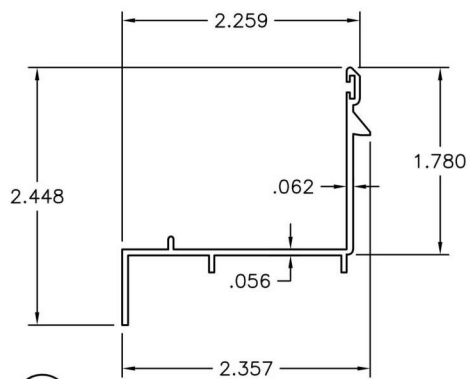
6 VENT BOTTOM RAIL



9 SASH STOP



24 FLUSH FRAME ADAPTER



2 FRAME SILL

FRAME TOP CORNER

FRAME MEETING RAIL

VENT BOTTOM CORNER

FRAME BOTTOM CORNER

VENT BOTTOM CORNER



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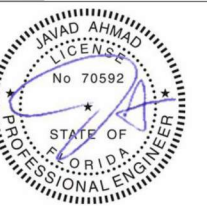
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