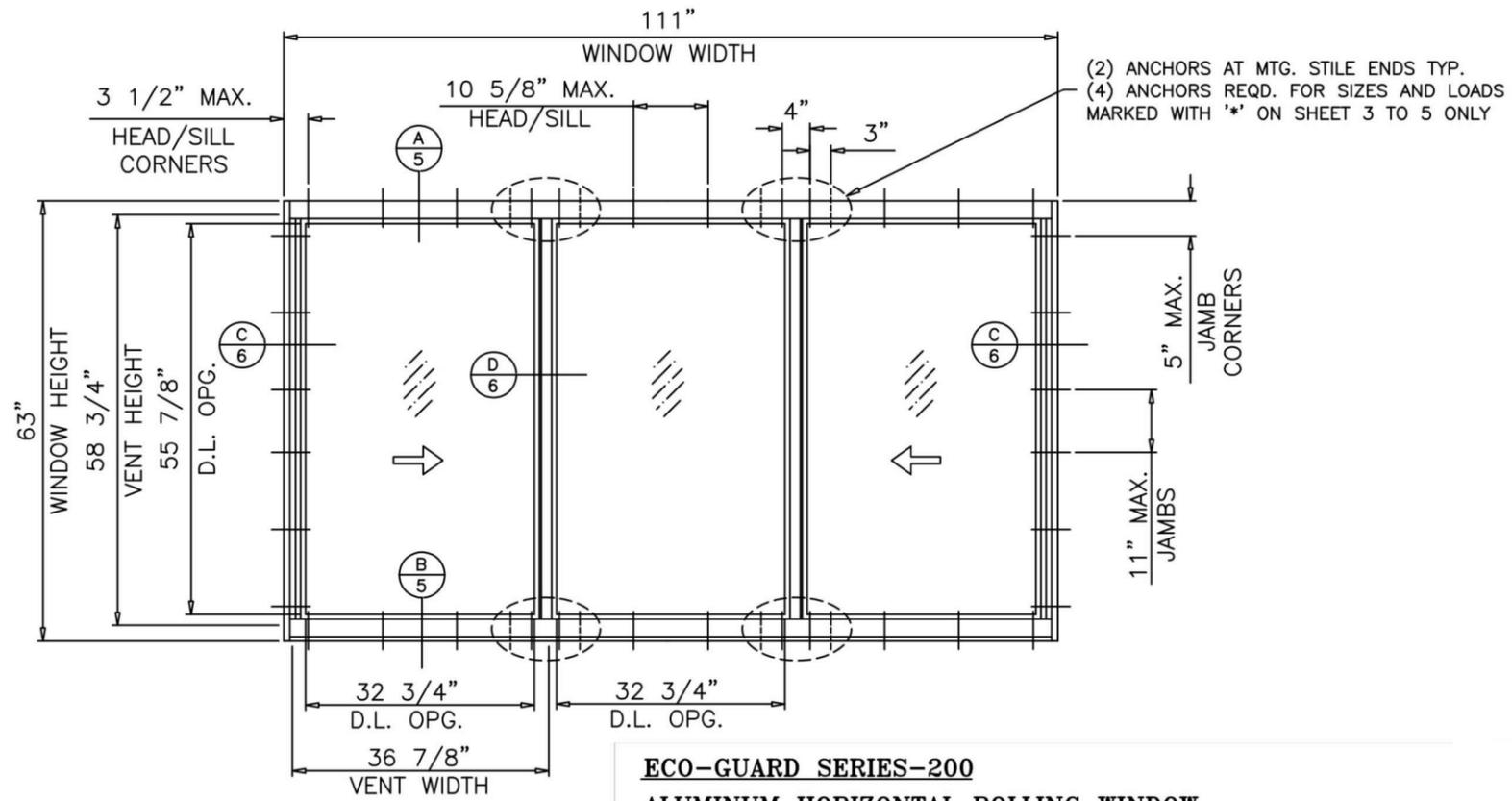


TYPICAL ELEVATIONS



THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.

**ECO-GUARD SERIES-200  
ALUMINUM HORIZONTAL ROLLING WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN IN SHEETS 3 TO 5.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZONTAL ROLLING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING HVHZ FPA 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).

SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

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 BASE ON 'ALLOWABLE STRESS DESIGN (ASD)'. FL#40097.2



**JAVAD AHMAD PE, inc**

7875 NW 12th St., Suite 102 Doral,  
FL 33126

Ph: (305) 424-8001

support@ja-pe.com

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

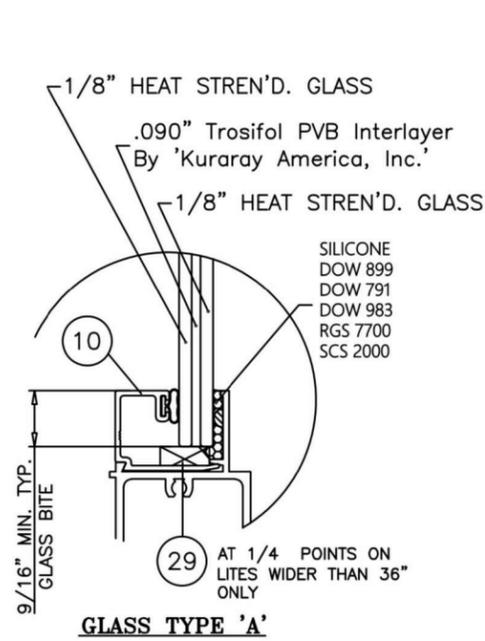
SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW (L.M.I.)  
LARGE MISSILE IMPACT RATED



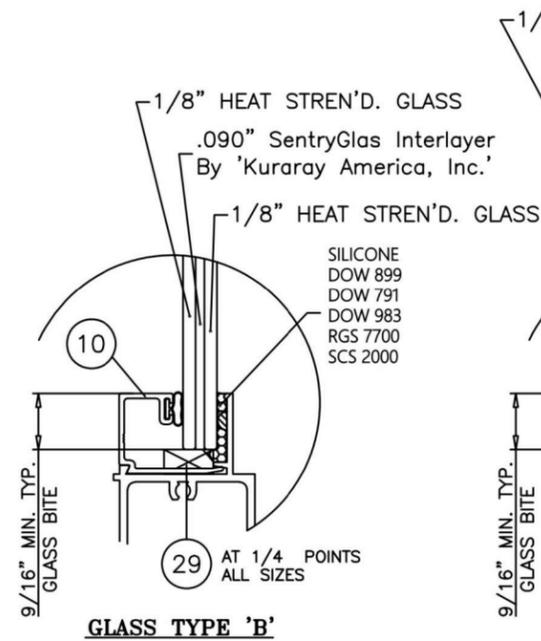
ECO WINDOW SYSTEMS, LLC.  
8502 N.W. 80th ST. MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902



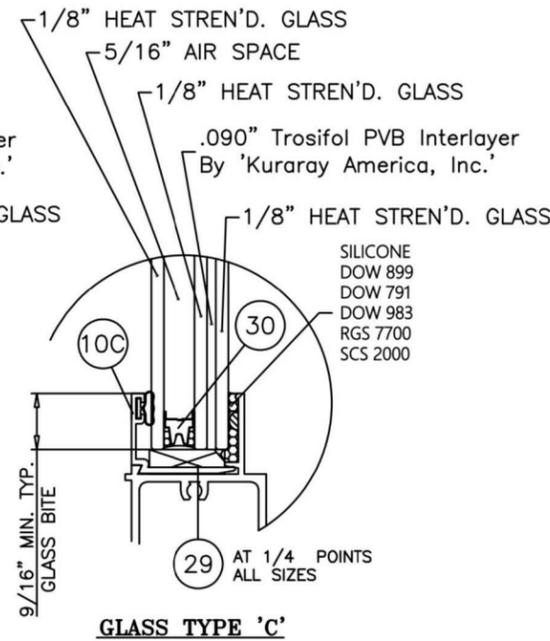
SEALED: 12/31/2024



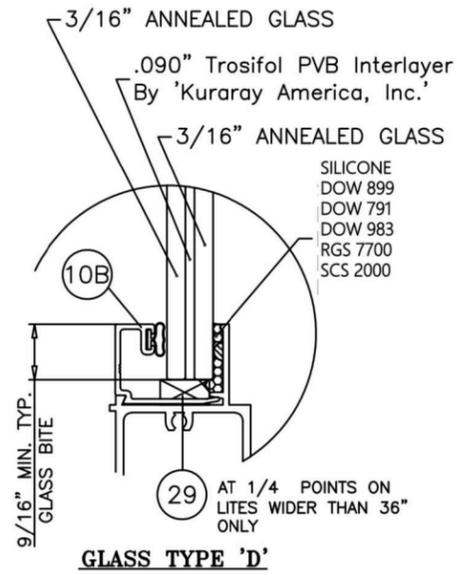
**GLASS TYPE 'A'**



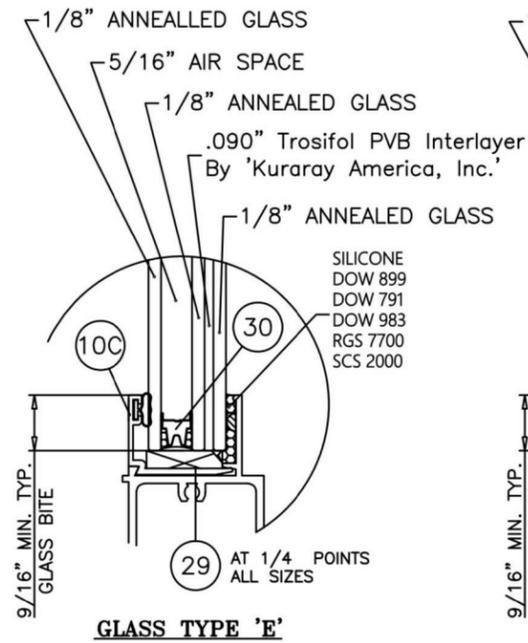
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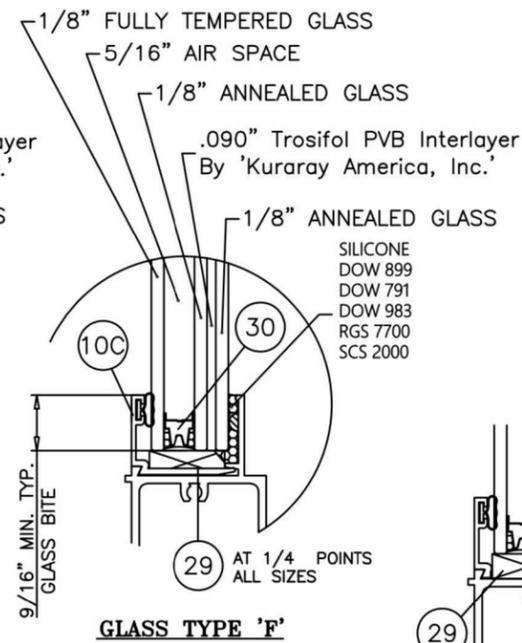
**GLASS TYPE 'C'**



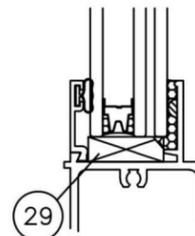
**GLASS TYPE 'D'**



**GLASS TYPE 'E'**



**GLASS TYPE 'F'**



SETTING BLOCKS AT LAMI. GLASS AND INSUL. LAMI. GLASS NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS

**GLAZING OPTIONS**



**JAVAD AHMAD PE, inc**  
 7875 NW 12th St., Suite 102 Doral, FL 33126  
 Ph: (305) 424-8001  
 support@ja-pe.com

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

SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW (L.M.I.) LARGE MISSILE IMPACT RATED

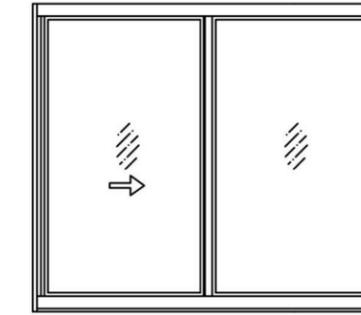
**ECO window systems**  
 ECO WINDOW SYSTEMS, L.L.C.  
 8502 N.W. 80th ST. MEDLEY, FL 33166  
 TEL. (305) 885-5299 FAX. (305) 885-5902



SEALED: 12/31/2024

FL#40097.2

Glass Type A w/o Reinforcement		Design Load Capacity - PSF (XO or OX Sizes)															
		Window Height (in.) / Jamb Anchor Quantity															
Window Width (in.)	Head/Sill Anchor Qty.	24"		26"		36"		38-3/8"		48"		50-5/8"		60"		63"	
		3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
24"	4	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
26-1/2"	4	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
36"	4	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
37"	4	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-77.5	+70.0	-77.5
48"	6	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
53-1/8"	6	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
60"	6	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
72"	8	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
74"	8	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0



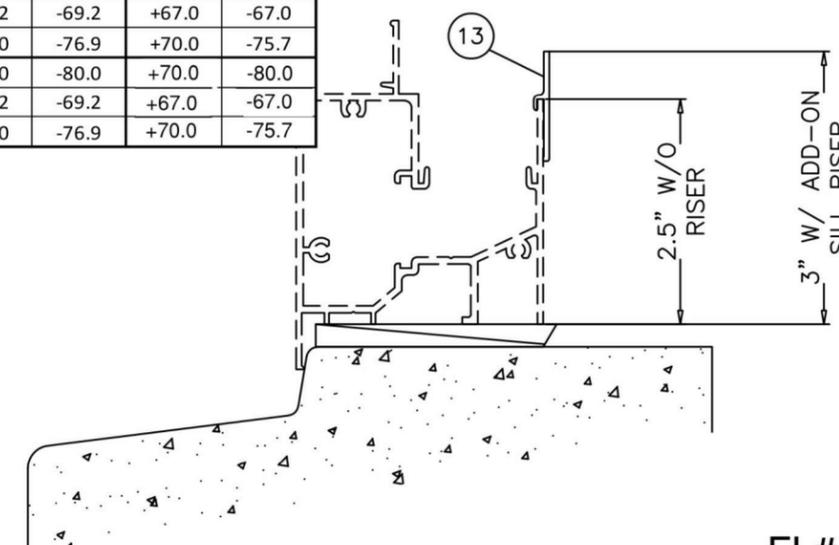
'XO OR OX'

Glass Types D, E, & F w/o Reinforcement			Design Load Capacity - PSF (XO or OX Sizes)																	
			Window Height (in.) / Jamb Anchor Quantity																	
Window Width (in.)	Head/Sill Anchor Qty.	Glass Type	24"		26"		36"		38-3/8"		48"		50-5/8"		60"		61-1/4"		63"	
			3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	6
24"	4	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
26-1/2"	4	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
36"	4	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
37"	4	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
48"	6	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
53-1/8"	6	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
60"	6	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+69.2	-69.2	+67.0	-67.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-76.9	+70.0	-75.7
72"	8	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-72.5	+69.2	-69.2	+67.0	-67.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-76.9	+70.0	-75.7
74"	8	D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+69.2	-69.2	+69.2	-69.2
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-76.9	+70.0	-75.7

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

ALL EXTERIOR (+) LOADS SHOWN ON THIS SHEET ARE FROM WINDOWS WITH ADD-ON RISER AT FRAME SILL FOR STD. SILL (NO RISER) LIMIT EXT.(+) LOADS TO 67.0 PSF SEE SHEET ABOVE FOR DETAILS.

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



FL#40097.2



**JAVAD AHMAD PE, inc**  
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drawing no.	MA	drawn by:	BS	date:	check by:	REVISION	DESCRIPTION
JA-1844-24				12/31/2024			
						BY	
						DATE	
						No.	

SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW (L.M.I.) LARGE MISSILE IMPACT RATED

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



SEALED: 12/31/2024



Glass Types A, D, E, & F w/o Reinforcement			Design Load Capacity - PSF (XOX 1/3-1/3-1/3 Sizes)															
Window Width (in.)	Head/Sill Anchor Qty.	Glass Type	Window Height (in.) / Jamb Anchor Quantity															
			24"		26"		36"		38-3/8"		48"		50-5/8"		60"		63"	
			3		3		4		4		5		5		6		6	
72"	9	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
74"	9	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
84"	9	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.5
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-78.3
96"	12	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.5
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-78.3
106-1/4"	12	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-73.9	+70.0	-70.5
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-78.3
108"	12	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-73.9	+68.0	-68.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-75.6
111"	12	A	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-70.0	+70.0	-70.0
		D	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
		E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+68.0	-68.0	+68.0	-68.0
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-75.6	+70.0	-75.6

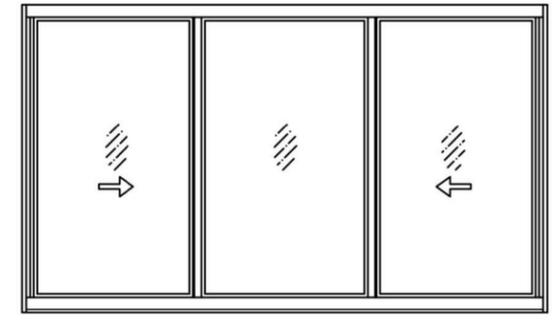
Glass Types B & C w/ Reinforcement			Design Load Capacity - PSF (XOX 1/3-1/3-1/3 Sizes)															
Window Width (in.)	Head/Sill Anchor Qty.	Glass Type	Window Height (in.) / Jamb Anchor Quantity															
			24"		26"		36"		38-3/8"		48"		50-5/8"		60"		63"	
			3		3		4		4		5		5		6		6	
72"	9	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
74"	9	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
84"	9	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	82.6*
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
96"	12	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0*	+80.0	82.6*
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
106-1/4"	12	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-87.6*	+80.0	82.6*
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
108"	12	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-87.6*	+80.0	80.4*
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
111"	12	B	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	-90.0	+80.0	80.4*	+80.0	80.4*
		C	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0

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

(4) ANCHORS REQUIRED AT MEETING RAIL CLUSTERS FOR SIZES AND LOADS MARKED WITH '\*'. SEE ELEVATION ON SHEET 1.

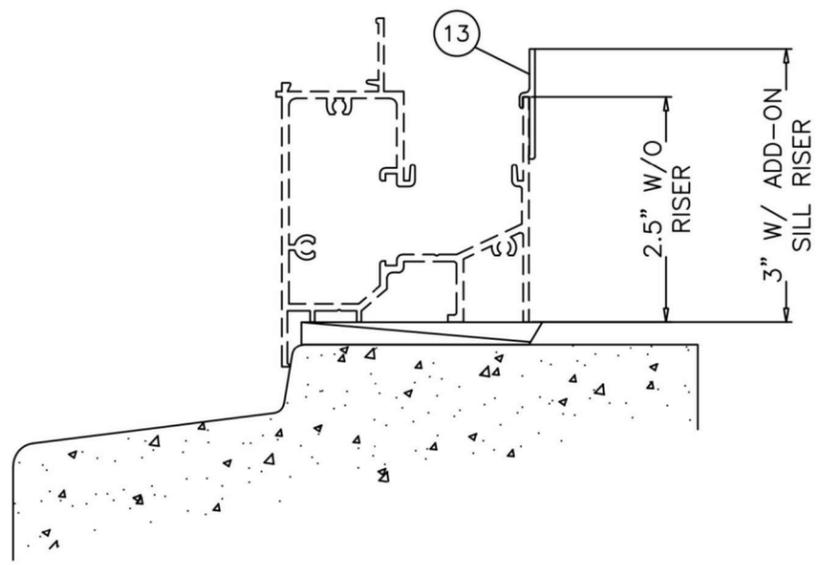
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-16 (3 SEC GUSTS)

ALL EXTERIOR (+) LOADS SHOWN ON THIS SHEET ARE FROM WINDOWS WITH ADD-ON RISER AT FRAME SILL FOR STD. SILL (NO RISER) LIMIT EXT.(+) LOADS TO 67.0 PSF SEE SHEET ABOVE FOR DETAILS.



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'



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

SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW (L.M.I.)  
LARGE MISSILE IMPACT RATED

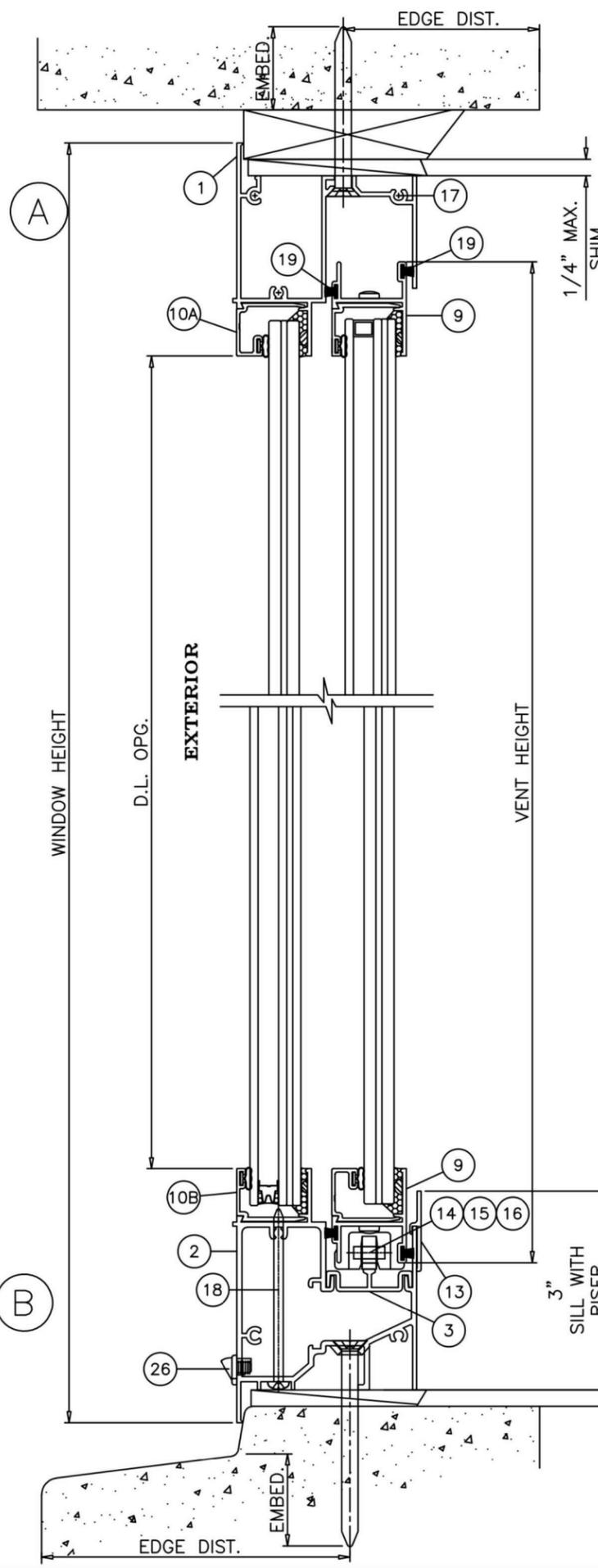
**window systems**  
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8502 N.W. 80th ST., MEDLEY, FL 33166  
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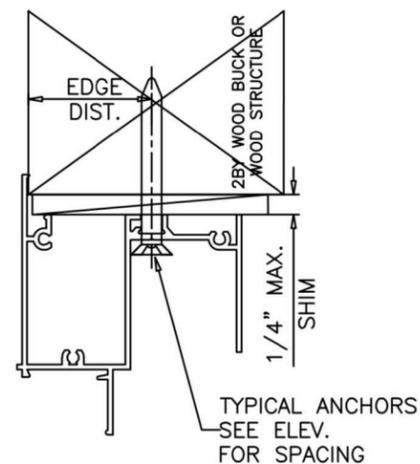
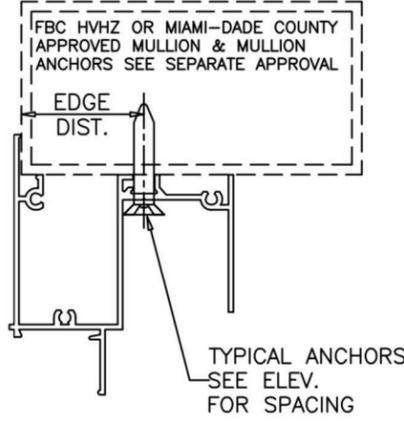
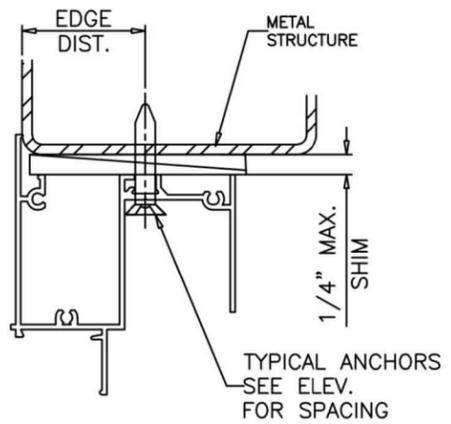
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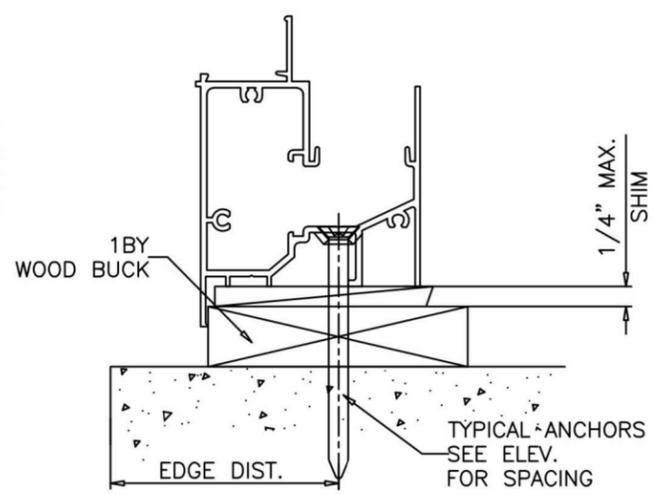
WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" 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"
#12 SMS or Self Drilling Screws	All	Southern Pine (SG = 0.55)	1"	1-3/8"
	All	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 18 Ga. Min. (min. 33 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



**WEEPHOLES:**

W1 = 3/8" X 2 1/4" WEEPHOLES AT EACH END AND 37" O.C. MAX

**SEALANT:**

ALL JOINT AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.



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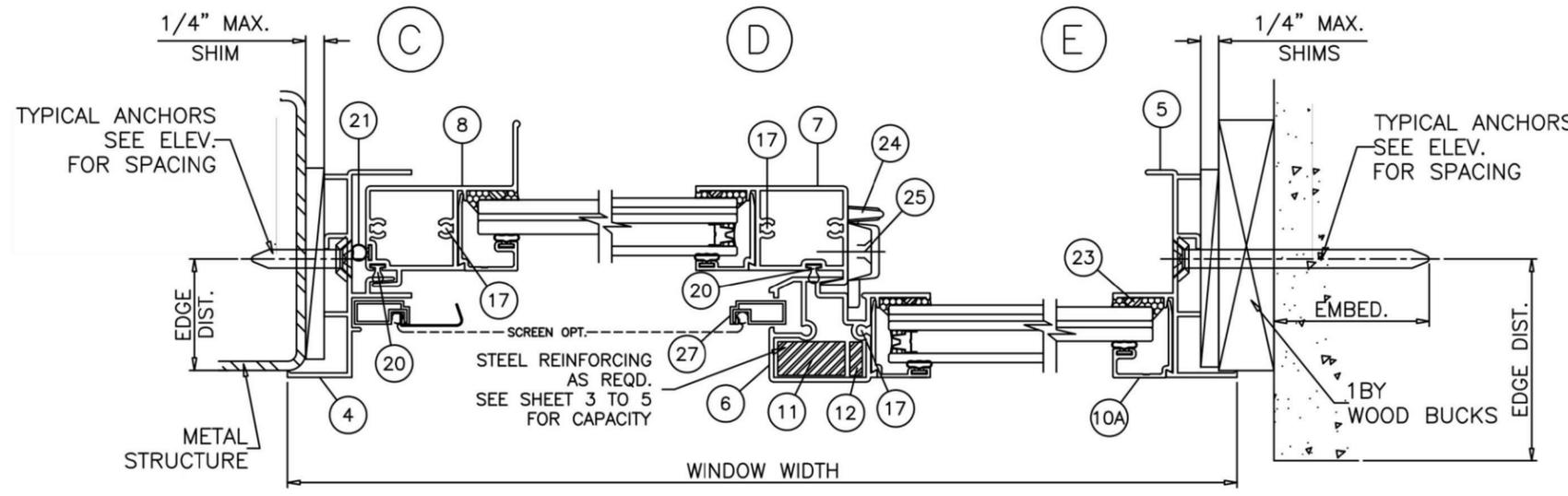
SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW (L.M.I.) LARGE MISSILE IMPACT RATED

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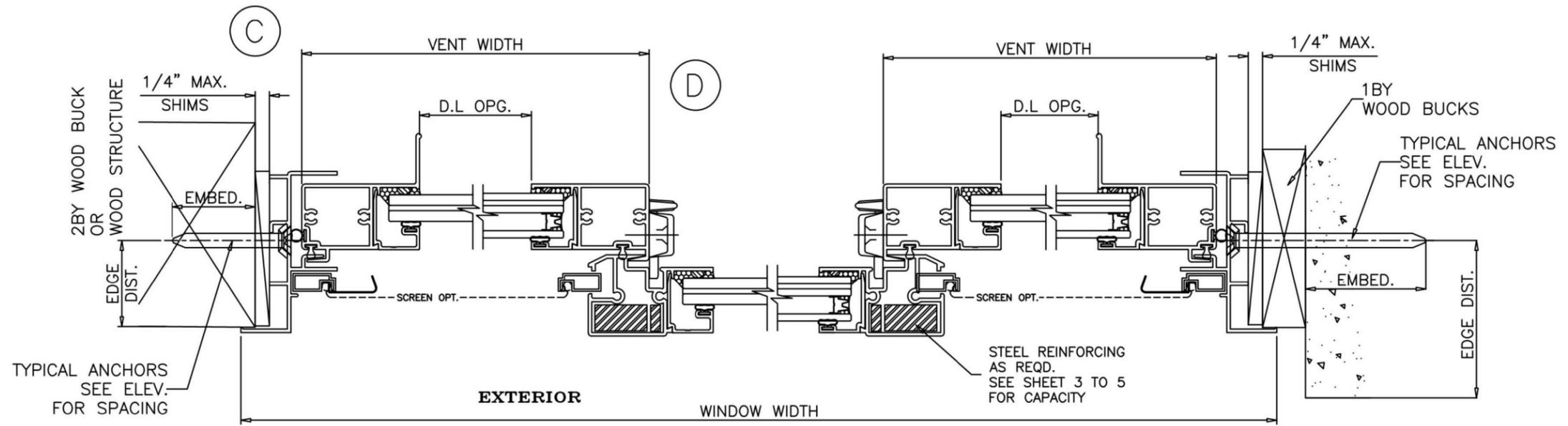


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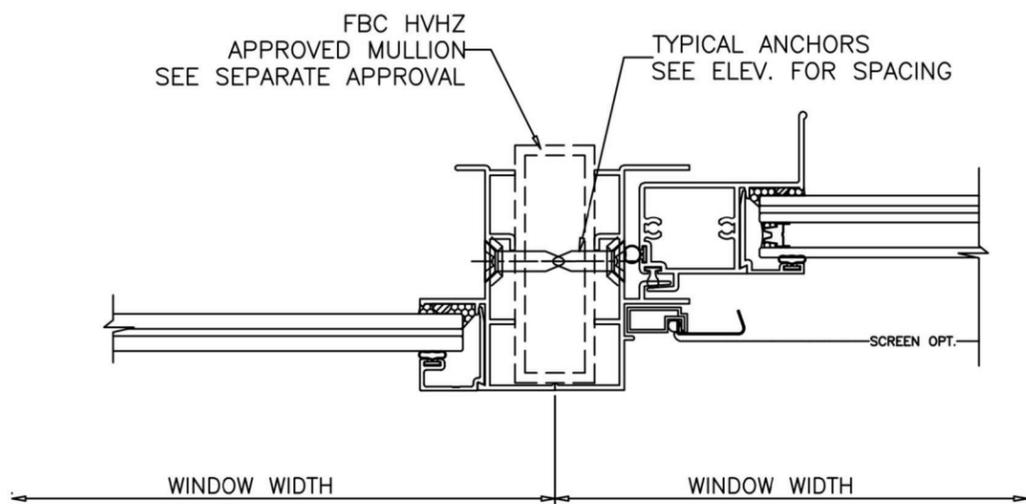
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**XO LAYOUT**



**XOX LAYOUT**



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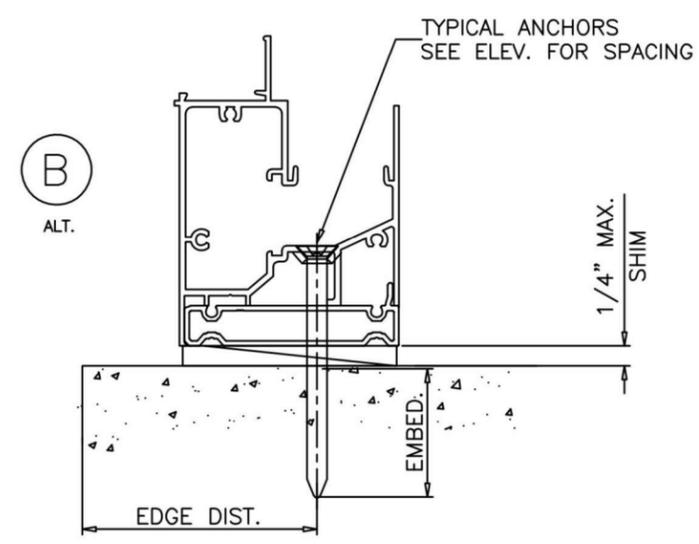
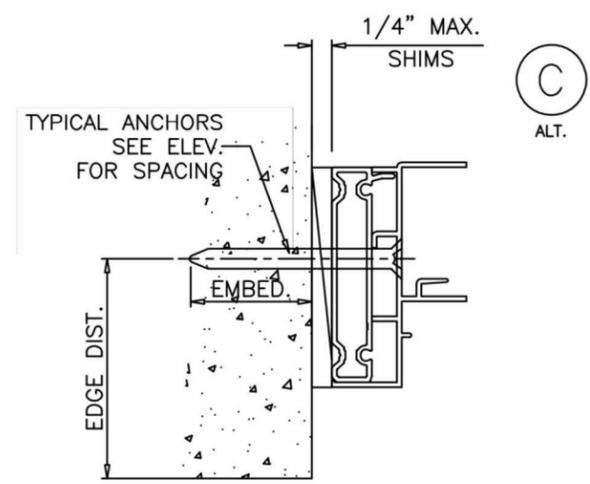
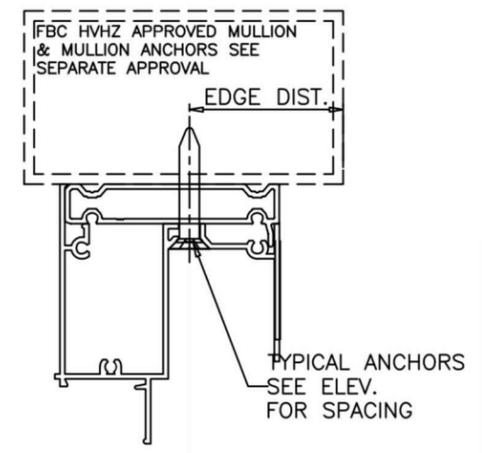
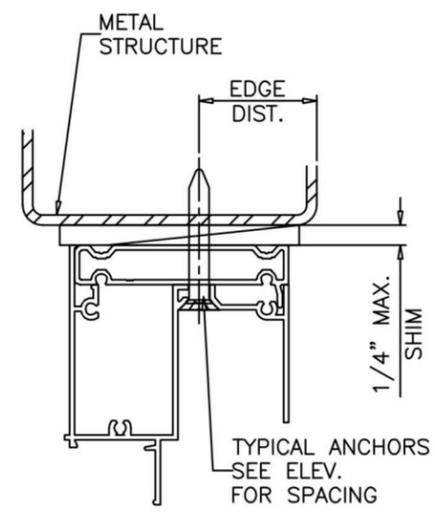
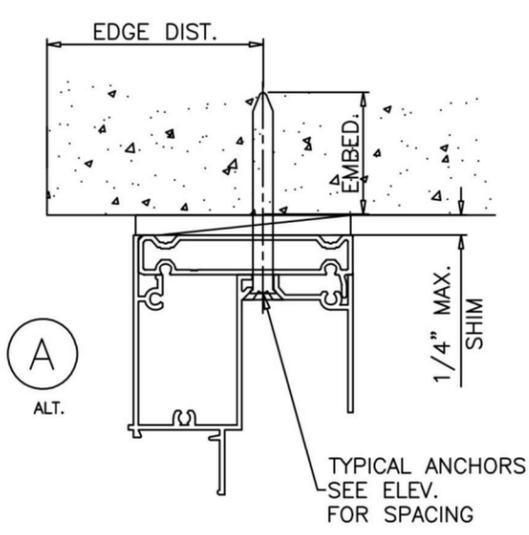
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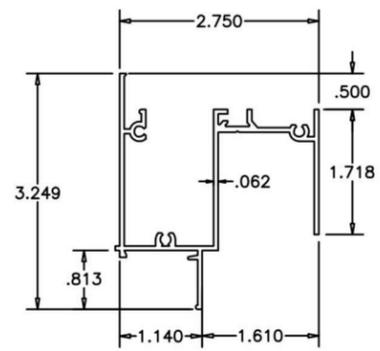
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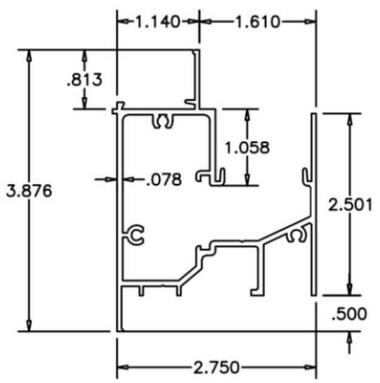


**INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER**

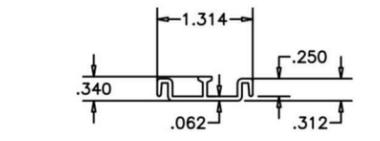
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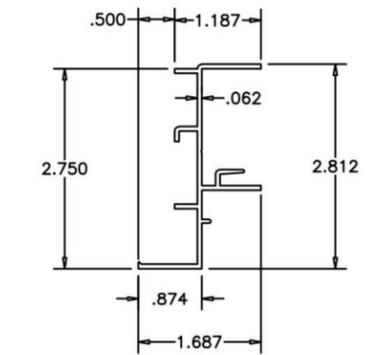
1 FRAME HEAD



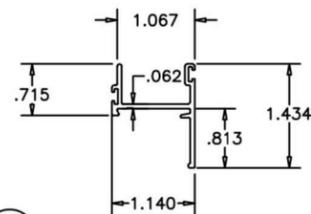
2 FRAME SILL



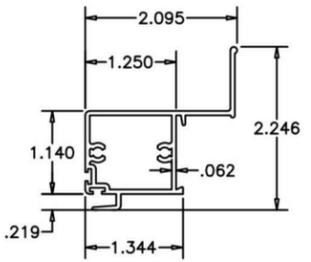
3 SILL TRACK



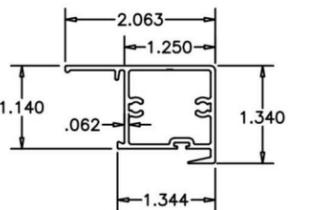
4 MOV. FRAME JAMB



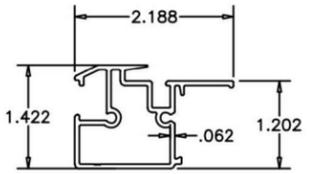
9 VENT TOP/BOT RAIL



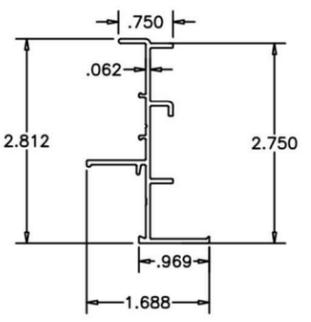
8 JAMB STILE



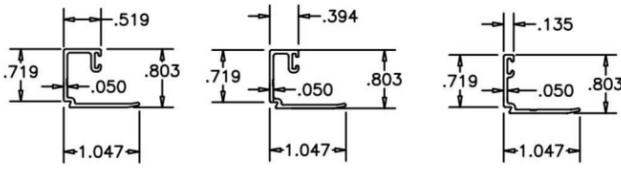
7 MEETING RAIL



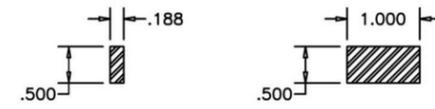
6 FIXED MTG. RAIL



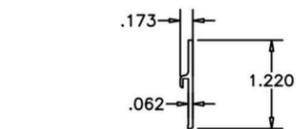
5 FIXED FRAME JAMB



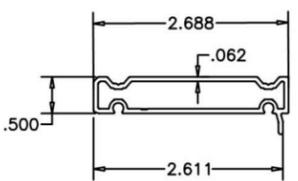
10 GLAZING BEADS



11 STEEL REINFORCING



13 ADD-ON SILL RISER



28 FLUSH FRAME ADAPTER

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	FY201	1	FRAME HEAD	6063-T6
2	FY202	1	FRAME SILL	6063-T6
3	FY203	1	SILL TRACK INSERT	6063-T6
4	FY205	AS REQD.	MOV. FRAME JAMB	6063-T6
5	FY101	AS REQD.	FIXED FRAME JAMB	6063-T6
6	FY104	1/VENT	FIXED MTG. RAIL	6063-T6
7	FY105	1/VENT	VENT INTERLOCK	6063-T6
8	FY206	1/VENT	JAMB STILE	6063-T6
9	FY107	2/VENT	TOP AND BOTTOM RAIL	6063-T6
10	FY108	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6
10A	FY109	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6
10B	FY110	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6
11		AS REQD.	1/2" X 3/16" STEEL REINFORCEMENT	STEEL
12		AS REQD.	1/2" X 1" STEEL REINFORCEMENT	STEEL
13	FY204	AS REQD.	ADD-ON SILL RISER	6063-T6
14	FY208	4/VENT	ROLLER HOUSING & GUIDE	CELCON
15	FY209	2/VENT	ROLLER	BRASS
16	FY210	2/VENT	ROLLER PIN	ST. STEEL
17	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS
18	#8 X 3"	2/VENT	FIX. RAIL SILL SCREWS (SILL END)	CRS
19	W23181	AS REQD.	FIN SEAL W'STRIPPING	-
20	Q300T190	AS REQD.	BULB SEAL	Q-LON
21	E207	AS REQD.	BULB SEAL	SANTOPRENE
22	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE
23	FLB-50	AS REQD.	GLASS OFFSET SPACER	SILICONE
24	SL203P	2/VENT	SWEEP LATCH	-
25	#8 X 5/8"	2/LATCH	LATCH INST. SCREW	ST. STEEL
26	WA2L	AS REQD.	WEEP VALVE	-
27	-	1/VENT	5/16" BOX SCREEN	-
28	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063-T6
29	-	AS REQD.	SETTING BLOCK	EPDM
30	-	AS REQD.	IG SPACER: CARDINAL XL & SUPERSPACER	VARIOUS



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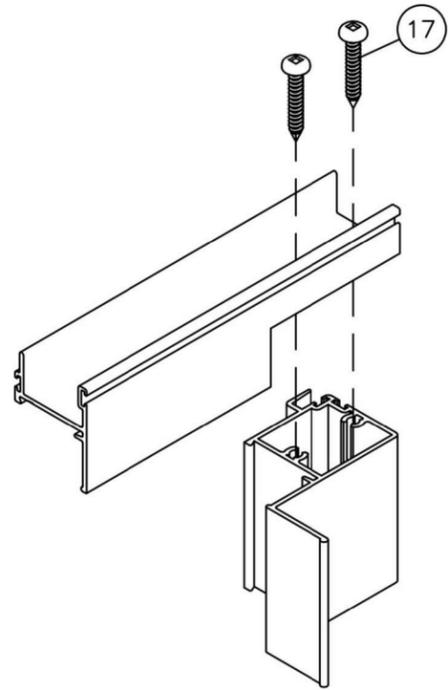
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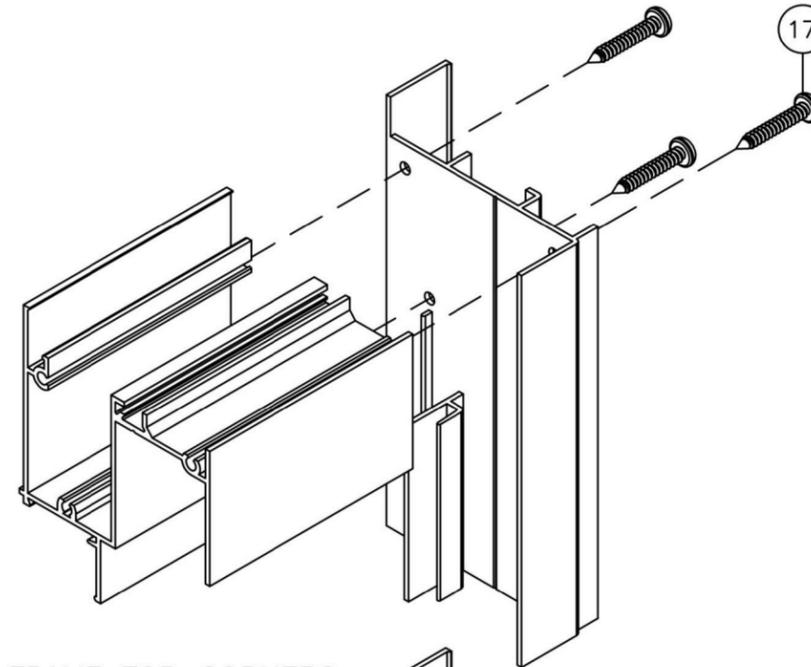


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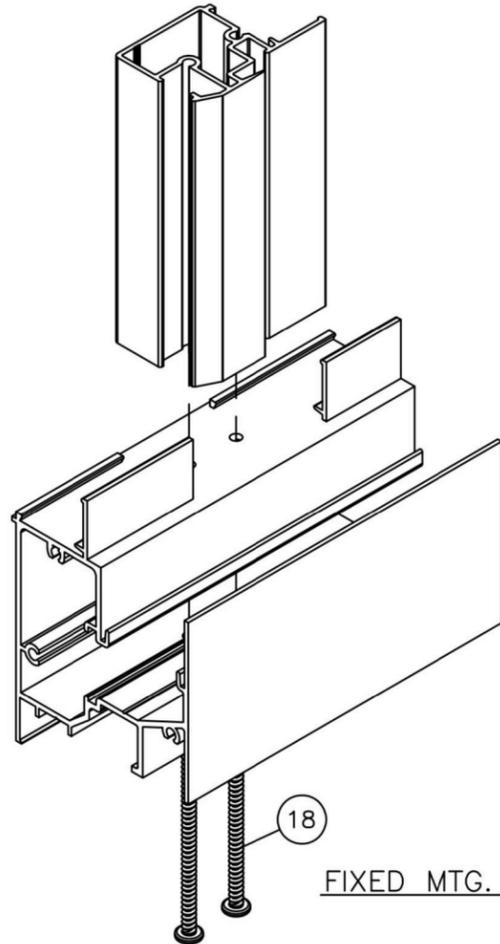
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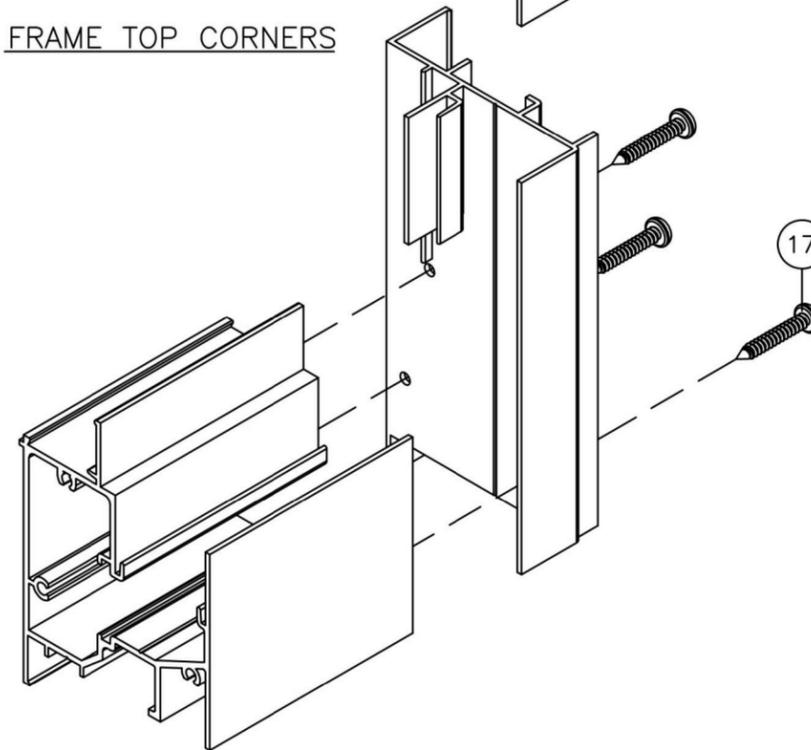
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNERS



FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNERS



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No.	BY	DESCRIPTION

SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW  
 (L.M.I.)  
 LARGE MISSILE IMPACT RATED



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