



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #	FL40097-R3								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	Eco Window Systems								
Address/Phone/Email	8502 NW 80th Street Suite 103 Medley, FL 33166 (305) 885-5299 carlos.martinez@ecowindowsystems.com								
Authorized Signature	Carlos Martinez carlos.martinez@ecowindowsystems.com								
Technical Representative	Carlos Martinez								
Address/Phone/Email	8502 NW 80th Street #103 Medley, FL 33166 (786) 307-2474 carlos.martinez@ecowindowsystems.com								
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Horizontal Slider								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Javad Ahmad								
Florida License	PE-70592								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	12/31/2032								
Validated By	Ammad Riaz, P.E. ☒ Validation Checklist - Hardcopy Received								
Certificate of Independence	FL40097 R3 COI Certificate of Independence JA-PE.pdf								
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th><th>Year</th></tr> </thead> <tbody> <tr> <td>TAS 201</td><td>1994</td></tr> <tr> <td>TAS 202</td><td>1994</td></tr> <tr> <td>TAS 203</td><td>1994</td></tr> </tbody> </table>	Standard	Year	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted 12/13/2024
Date Validated 01/06/2025
Date Pending FBC Approval 01/07/2025
Date Approved 02/11/2025
Date Revised 06/16/2025

Summary of Products

FL #	Model, Number or Name	Description
40097.1	Series 60 Horizontal Roller	Large Missile Impact Resistant, Aluminum Horizontal Roller Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL40097 R3 II SERIES 60 HORIZ ROLLER WINDOW-LMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL40097 R3 AE ECO 60-Horizontal Roller Window-LMI-PA EVR.pdf Created by Independent Third Party: Yes
40097.2	Series 200 Horizontal Roller	Large Missile Impact Resistant, Aluminum Horizontal Roller Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL40097 R3 II SERIES 200 HORIZ ROLLER WINDOW-LMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL40097 R3 AE ECO 200-Horizontal Roller Window-LMI-PA EVR.pdf Created by Independent Third Party: Yes
40097.3	Series 200 Horizontal Roller	Small Missile Impact Resistant, Aluminum Horizontal Roller Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL40097 R3 II SERIES 200 HORIZ ROLLER WINDOW-SMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL40097 R3 AE ECO 200-Horizontal Roller Window-SMI-PA EVR.pdf Created by Independent Third Party: Yes
40097.4	Series 250 Horizontal Roller	Large Missile Impact Resistant, Aluminum Horizontal Roller Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL40097 R3 II SERIES 250 HORIZ ROLLER WINDOW-LMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL40097 R3 AE ECO 250-Horizontal Roller Window-LMI-PA EVR.pdf Created by Independent Third Party: Yes
40097.5	Series 250 Horizontal Roller	Small Missile Impact Resistant, Aluminum Horizontal Roller Window

Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.	Installation Instructions FL40097_R3_II_SERIES_250_HORIZ_ROLLER_WINDOW-SMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL40097_R3_AE_ECO_250-Horizontal Roller Window-SMI-PA_EVR.pdf Created by Independent Third Party: Yes
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[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





3 1/2" MAX.
HEAD/SILL
CORNERS

111"
WINDOW WIDTH

10 5/8" MAX.
HEAD/SILL

4"
3"

(2) ANCHORS AT MTG. STILE ENDS TYP.
(4) ANCHORS REQD. FOR SIZES AND LOADS
MARKED WITH '*' ON SHEET 3 TO 5 ONLY

63"
WINDOW HEIGHT

58 3/4"
D.L. OPG.

55 7/8"
VENT HEIGHT

5" MAX.
JAMB
CORNERS

11" MAX.
JAMBS

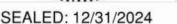
32 3/4"
D.L. OPG.

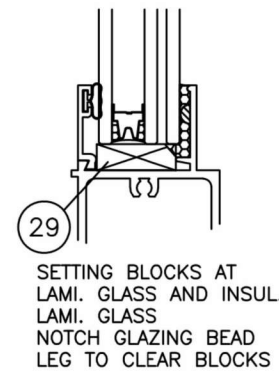
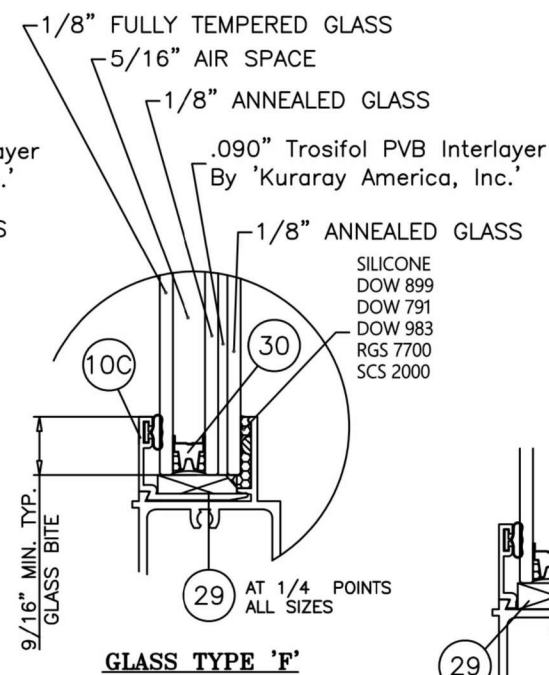
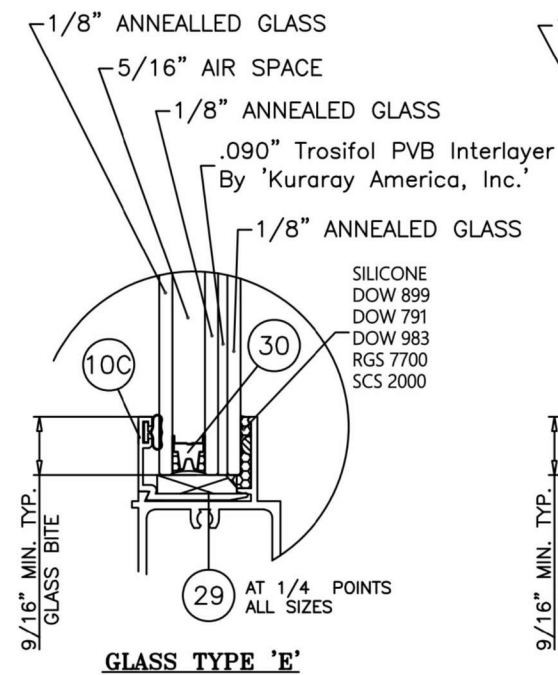
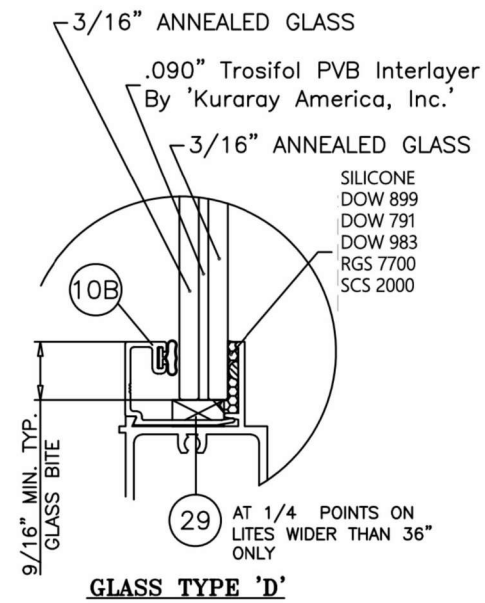
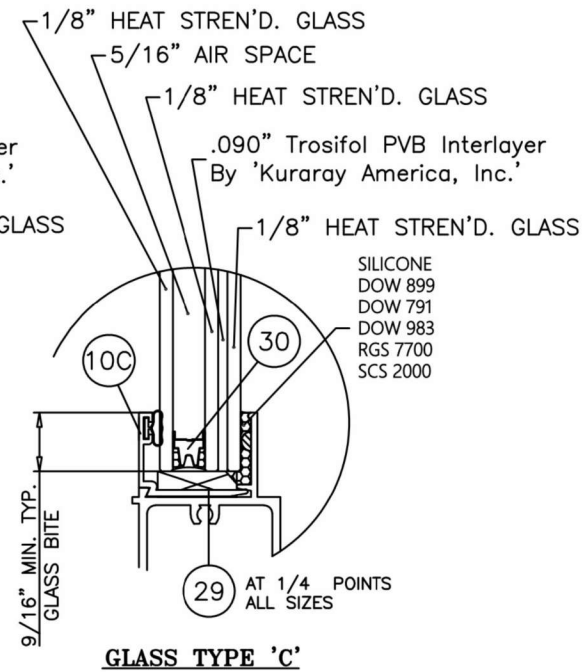
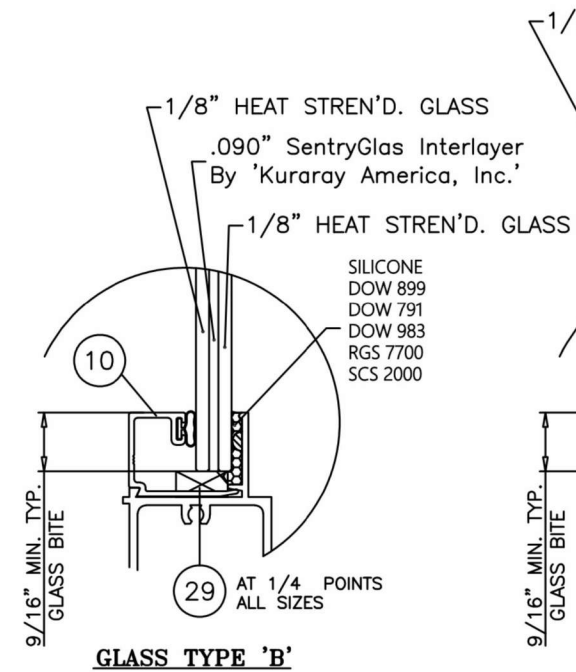
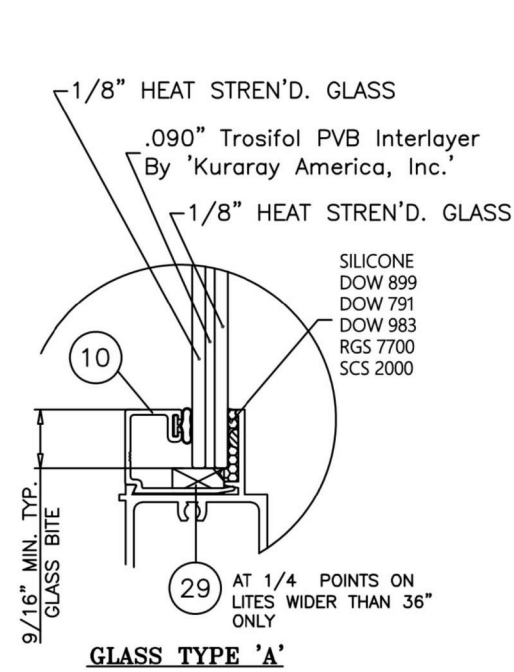
32 3/4"
D.L. OPG.

36 7/8"
VENT WIDTH

ECO-GUARD SERIES-200
ALUMINUM HORIZONTAL ROLLING WINDOW

FL#40097.2





GLAZING OPTIONS

FL#40097.2



JAVAD AHMAD PE, inc

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

Ph: (305) 424-8001

support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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

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

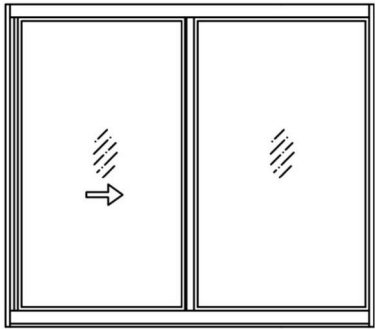


ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



SEALED: 12/31/2024

Glass Type A w/o Reinforcement		Design Load Capacity - PSF (XO or OX Sizes)															
Window Width (in.)	Head/Sill Anchor Qty.	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	
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



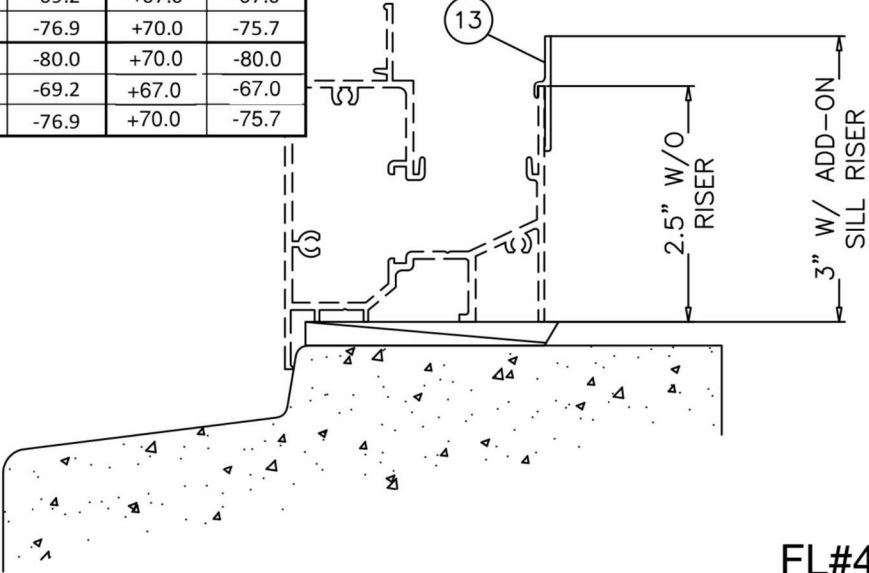
'XO OR OX'

Glass Types D, E, & F w/o Reinforcement			Design Load Capacity - PSF (XO or OX Sizes)															
Window 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"		61-1/4"	
			3		3		4		4		5		5		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
		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
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
		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
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
		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
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
		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
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
		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
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
		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
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
		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	+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	-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
		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
		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	-75.7
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
		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	+69.2	-69.2	+69.2	-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	-76.9	+70.0	-75.7

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

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.



FL#40097.2



JAVAD AHMAD PE, inc

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

Ph: (305) 424-8001

support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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

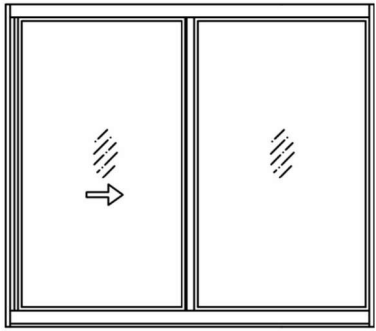


SEALED: 12/31/2024

03

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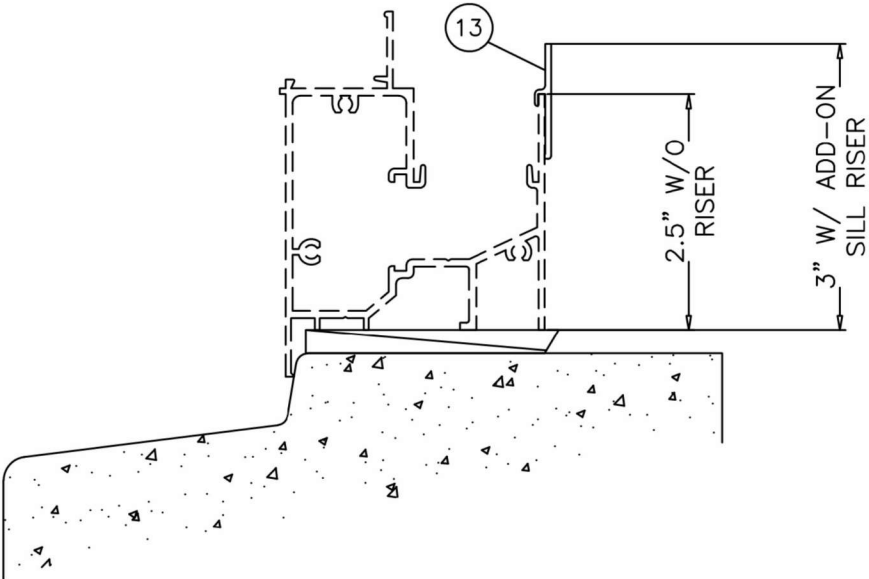
Glass Types B & C w/ Reinforcement			Design Load Capacity - PSF (XO or OX Sizes)															
Window Width (in.)	Head/Sill Anchor Qty.	Glass Type	Window Height (in.) / Jamb Anchor Quantity															
			24"		26"		36"		38-3/8"		48"		50-5/8"		60"		63"	
			3		3		4		4		5		5		6		6	
24"	4	B	+80.0	-90.0	+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
26-1/2"	4	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
36"	4	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
37"	4	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
48"	6	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
53-1/8"	6	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
60"	6	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	-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
72"	8	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
74"	8	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



'XO OR OX'

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.

FL#40097.2



JAVAD AHMAD PE, inc

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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 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

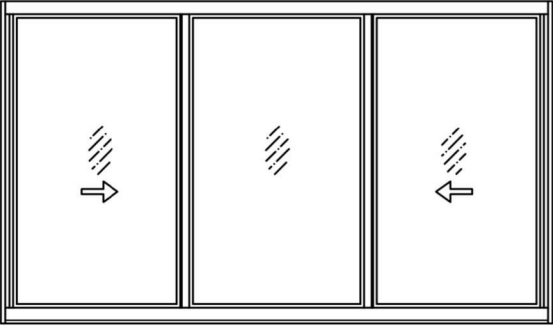
Glass Types B & C w/ Reinforcement			Design Load Capacity - PSF (XOX 1/3-1/3-1/3 Sizes)															
Window Width (in.)	Head/Sill Anchor Qty.	Glass Type	Window Height (in.) / Jamb Anchor Quantity															
			24"		26"		36"		38-3/8"		48"		50-5/8"		60"		63"	
			3		3		4		4		5		5		6		6	
72"	9	B	+80.0	-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.

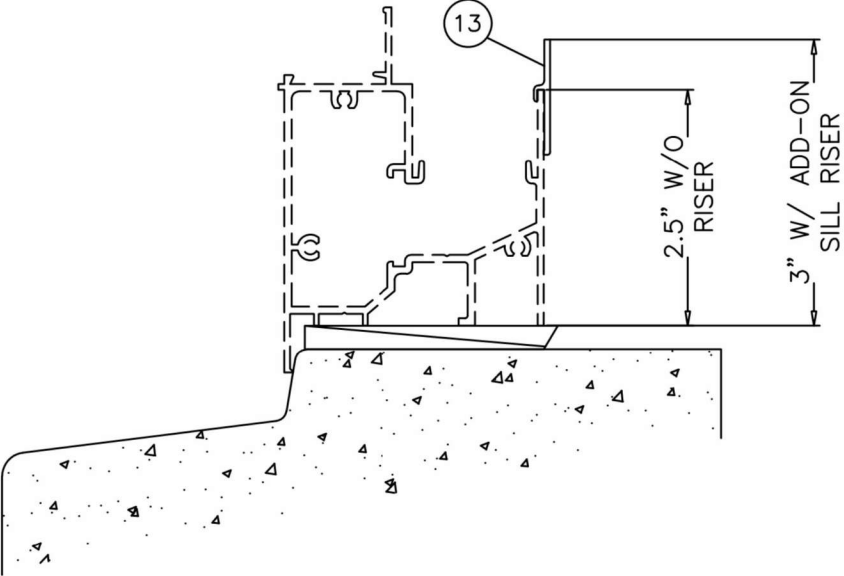
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–16 (3 SEC GUSTS)

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'



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

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

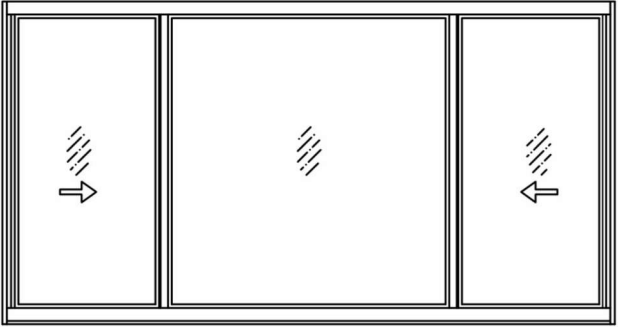
**ECO window systems**
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



SEALED: 12/31/2024

FL#40097.2

Glass Types A, D, E, & F w/o Reinforcement			Design Load Capacity - PSF (XOX 1/4-1/2-1/4 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"	
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	-76.3	+70.0	-70.4
		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	-78.2
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	-70.4	+70.0	-70.4
		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	-78.2	+70.0	-78.2
84"	9	A	+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						
		E	+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						
96"	12	A	+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						
		E	+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						
106-1/4"	12	A	+70.0	-80.0	+70.0	-80.0	-	-	-	-								
		D	+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								
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0								
108"	12	A	+70.0	-80.0	+70.0	-80.0	-	-	-	-								
		D	+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	-79.3								
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0								
111"	12	A	+70.0	-80.0	+70.0	-80.0	-	-	-	-								
		D	+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	-79.3	+70.0	-79.3								
		F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0								



OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

‘XOX’

Glass Types B & C w/ Reinforcement			Design Load Capacity - PSF (XOX 1/4-1/2-1/4 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"	
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						
		C	+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						
		C	+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								
		C	+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								
		C	+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								
		C	+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.

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.

FL#40097.2



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

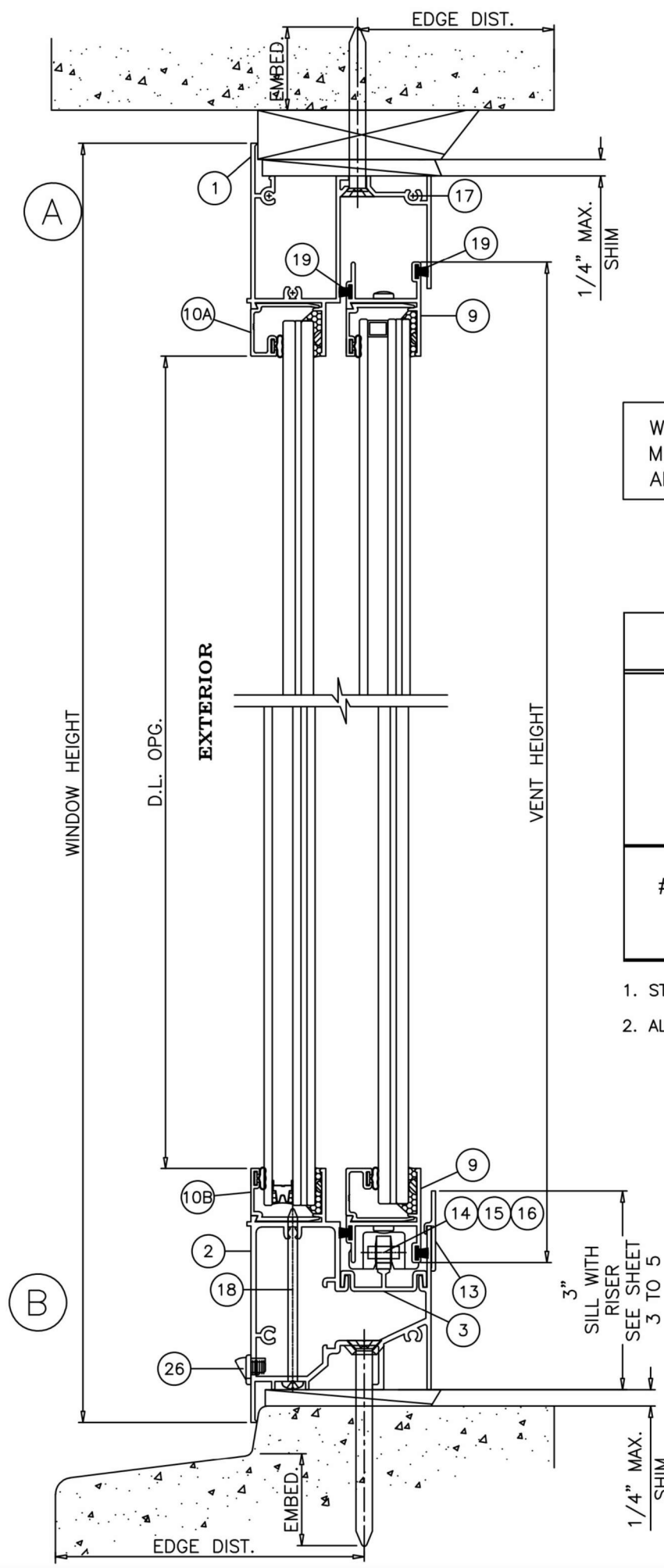
SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW
(L.M.I.)
LARGE MISSILE IMPACT RATED



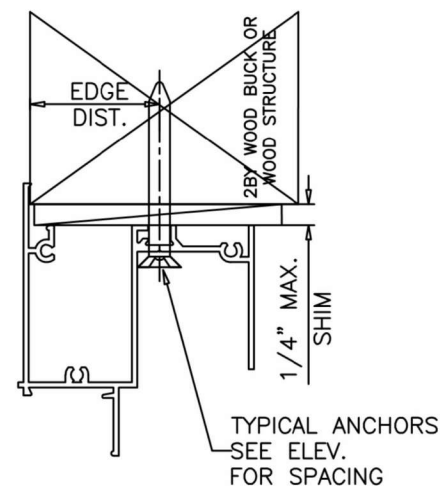
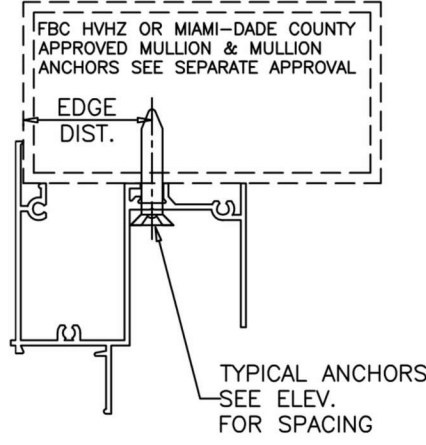
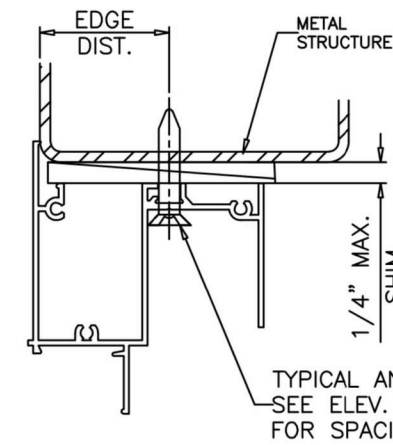
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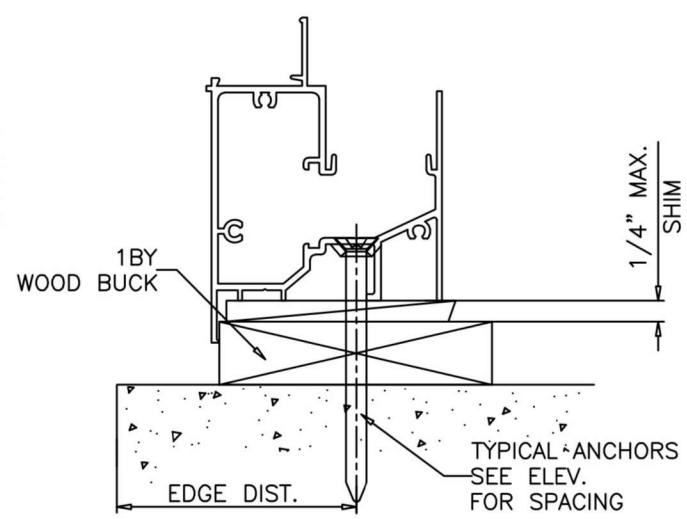
WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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.

FL#40097.2



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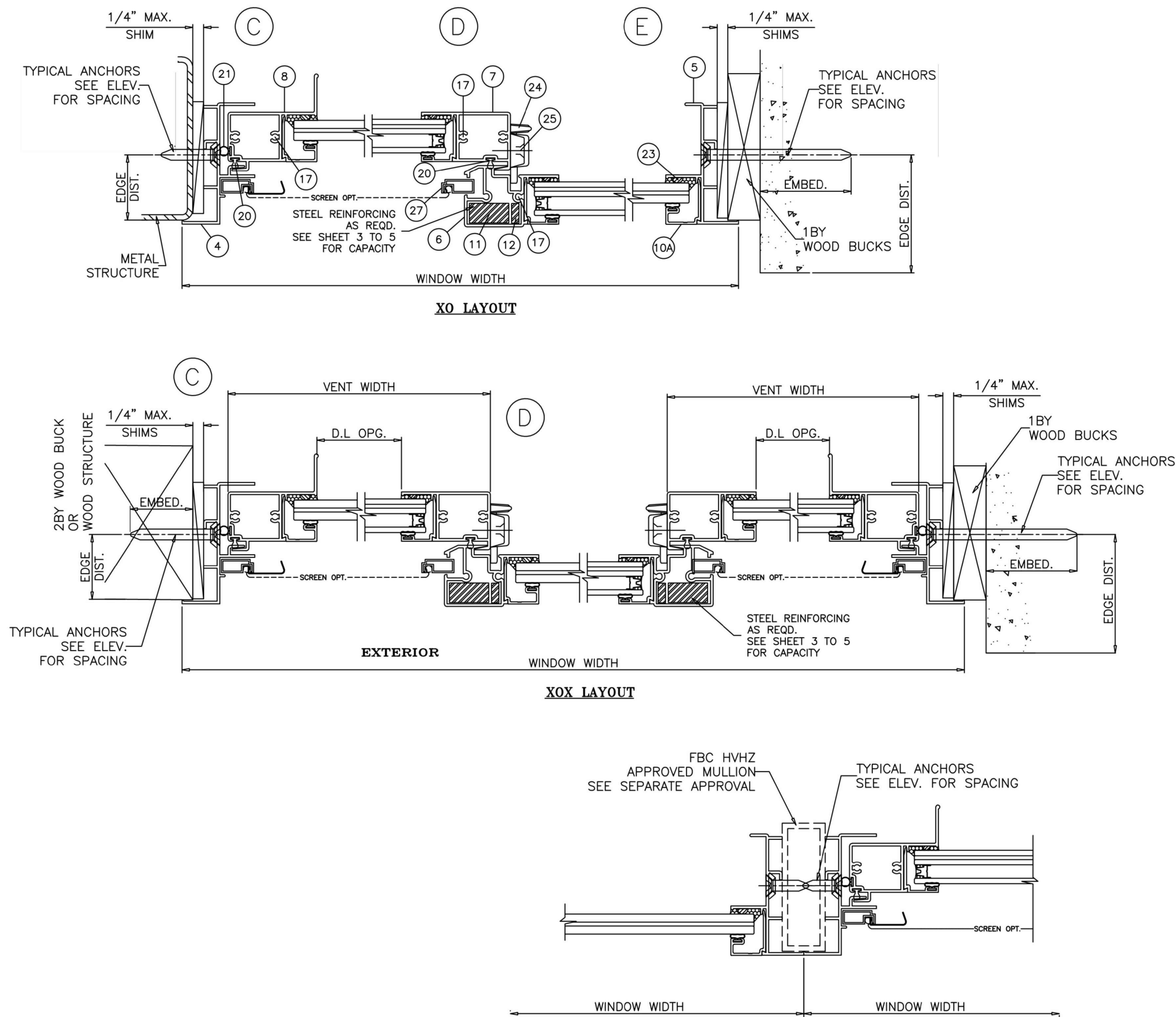
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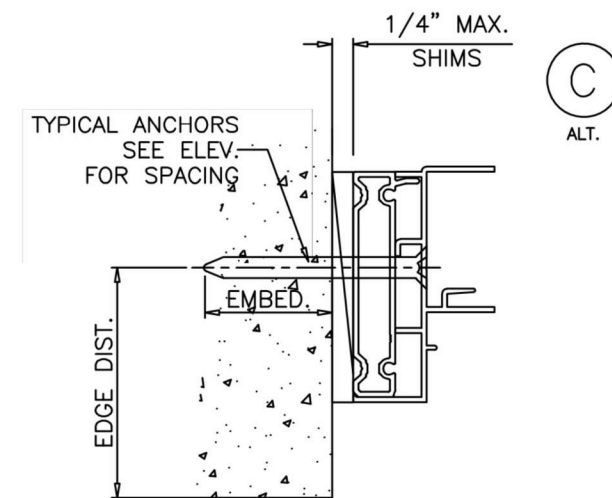
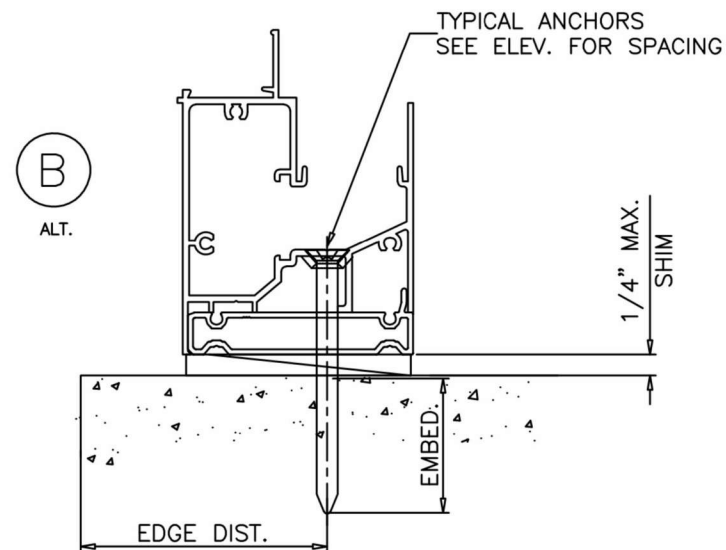
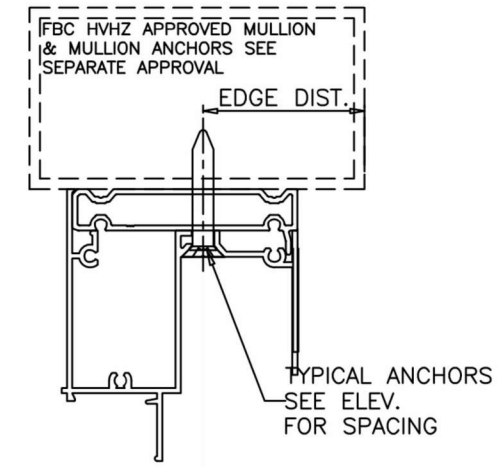
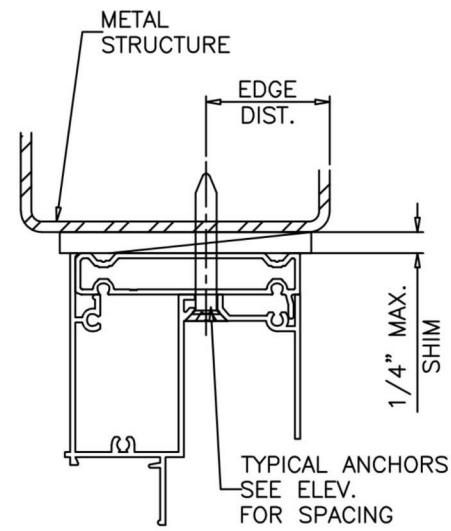
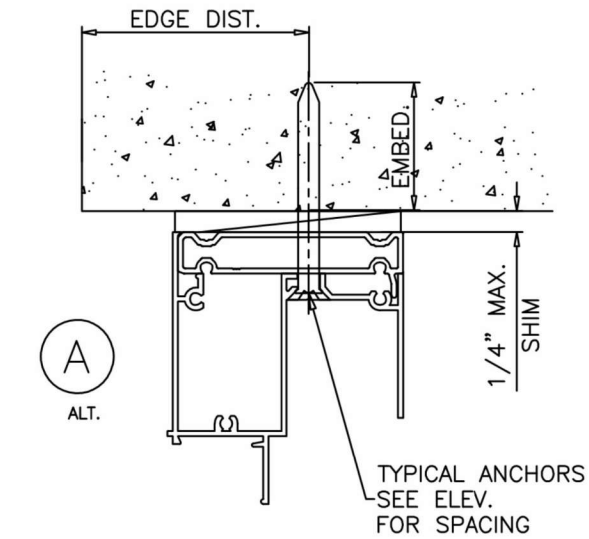
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 LARGE MISSILE IMPACT RATED

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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

FL#40097.2



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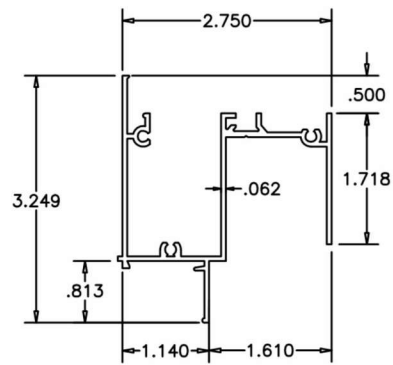
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date:	12/31/2024	BS
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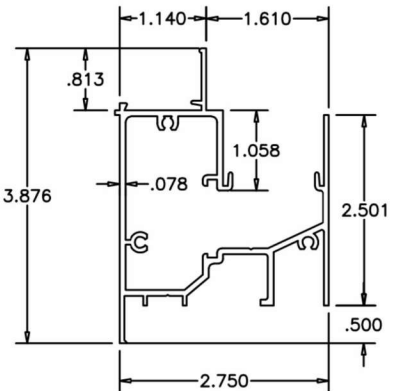
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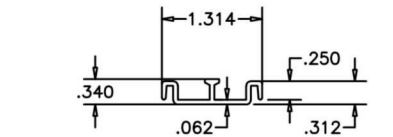
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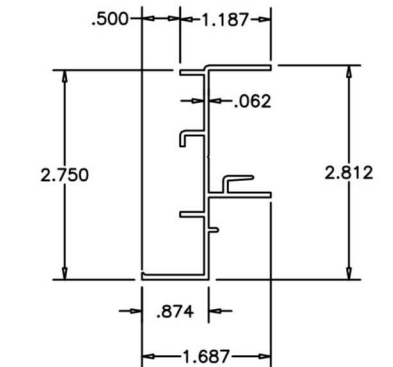
1 FRAME HEAD



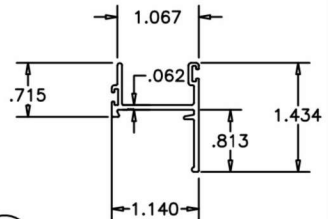
2 FRAME SILL



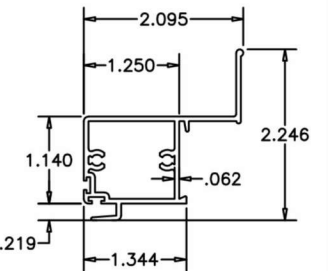
3 SILL TRACK



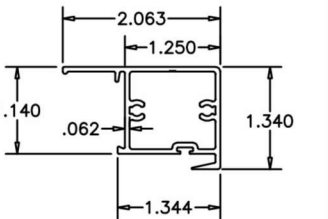
4 MOV. FRAME JAMB



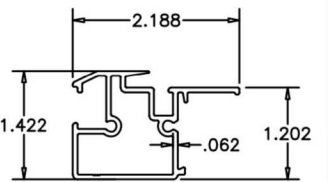
9 VENT TOP/BOT RAIL



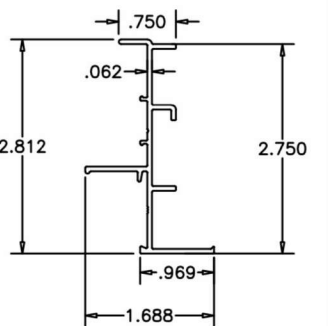
8 JAMB STILE



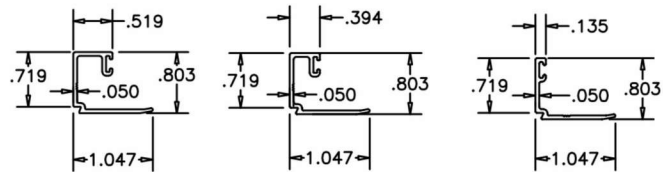
7 METING RAIL



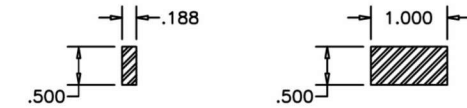
6 FIXED MTG. RAIL



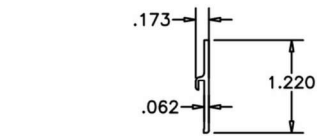
5 FIXED FRAME JAMB



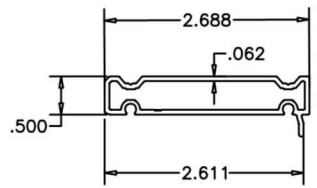
GLAZING BEADS



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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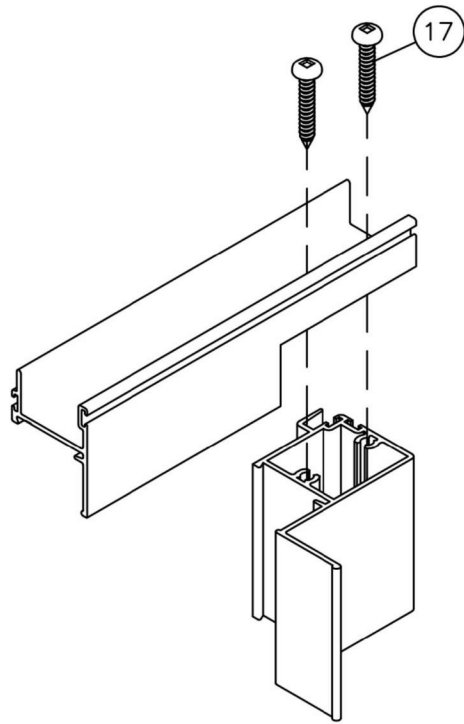


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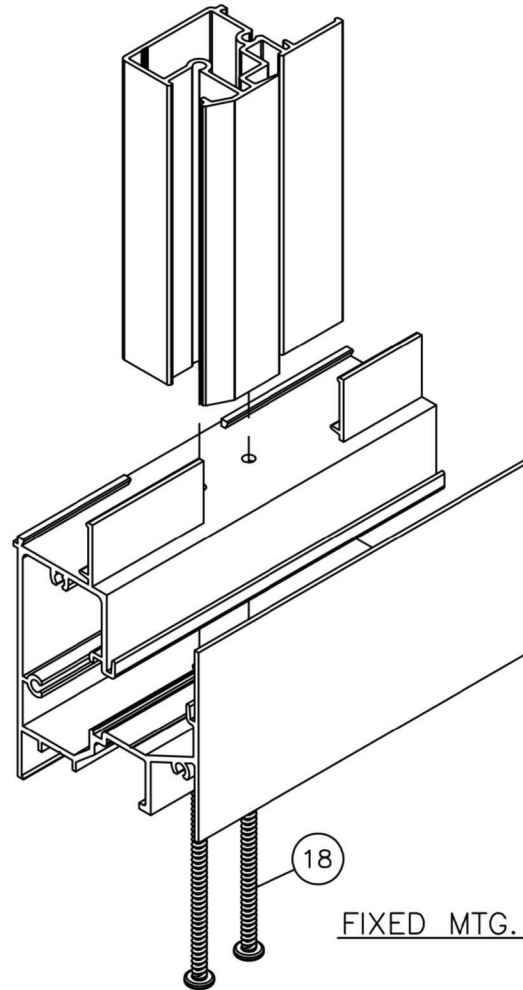
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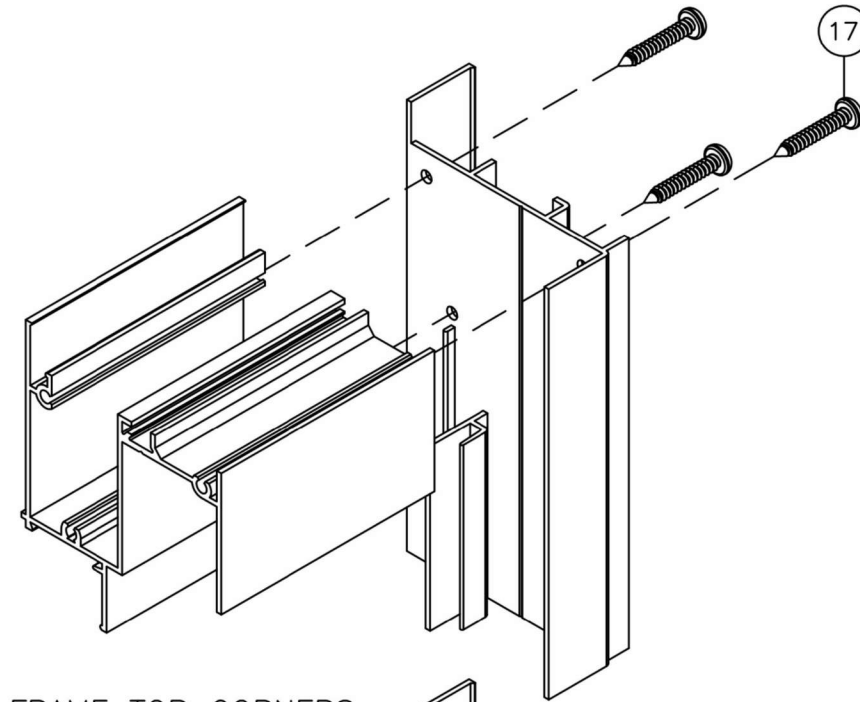
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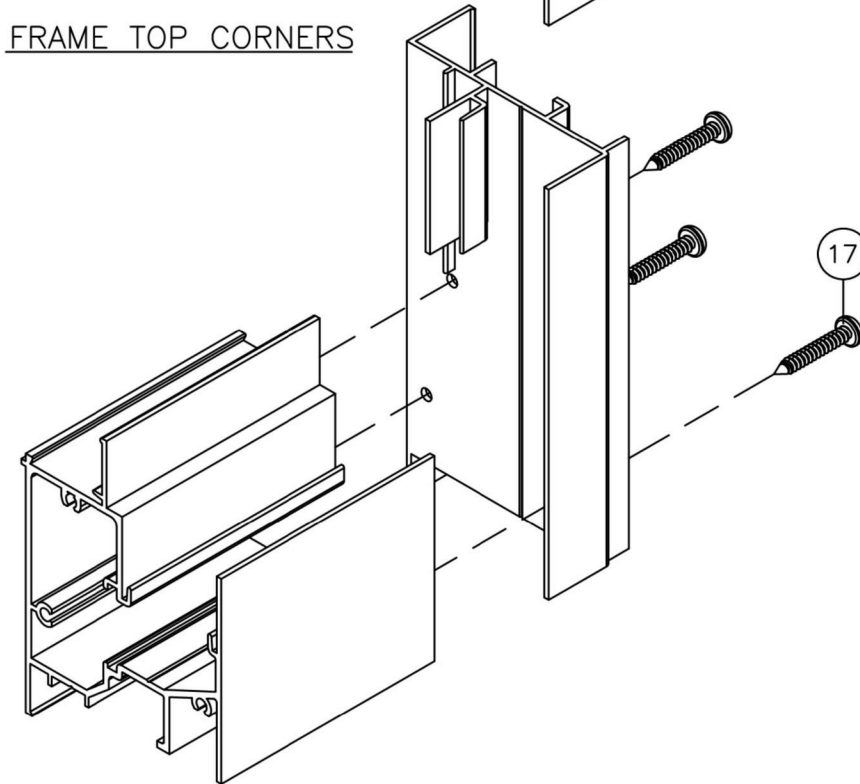
VENT TOP/BOTTOM CORNERS



FIXED MTG. RAIL CORNER



FRAME TOP CORNERS



FRAME BOTTOM CORNERS

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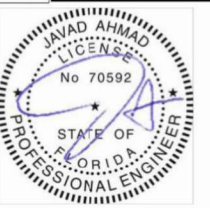
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