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Product Approval
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FL #	FL47214-R0	
Application Type	New	
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		
Address/Phone/Email		
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	FL47214_R0_COI_Certificate_of_Independence_JA-PE.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	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	12/20/2024
Date Validated	12/20/2024
Date Pending FBC Approval	12/23/2024
Date Approved	02/11/2025
Date Revised	03/06/2025

Summary of Products

FL #	Model, Number or Name	Description
47214.1	ECO-NOVO Series 275 Horizontal Roller Window System	Large and Small Missile Impact Resistant Horizontal Roller Window System
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 enclosed documents for product performance information, maximum sizes, anchorage details, anchor type and spacing information.		Installation Instructions FL47214_R0_II_ECO-NOVO_SERIES_275_HORIZONTAL_ROLLER_WINDOW-JA-2042-24.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47214_R0_AE_ECO-NOVO_Series_275_Horiz_Roller_Window-PA_EVR.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



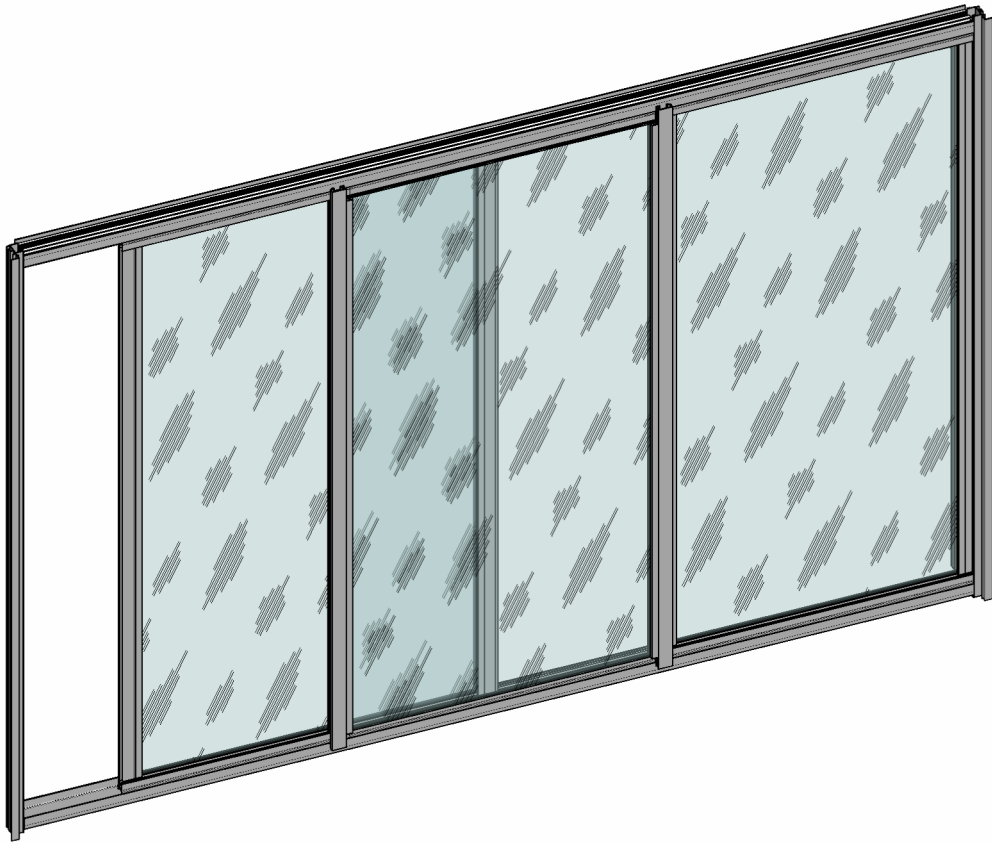
ECO WINDOW SYSTEMS, LLC
ECO-NOVO SERIES: 275 HORIZONTAL ROLLER WINDOW SYSTEM
(SMALL AND LARGE MISSILE IMPACT RATED)

FL# 47214

SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATION & LOADING CHART
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107	SECTIONAL DETAILS
108	TYPICAL ANCHORAGE DETAILS
109	PARTS LIST
110	PARTS LIST
111	CORNER ASSEMBLY DETAILS

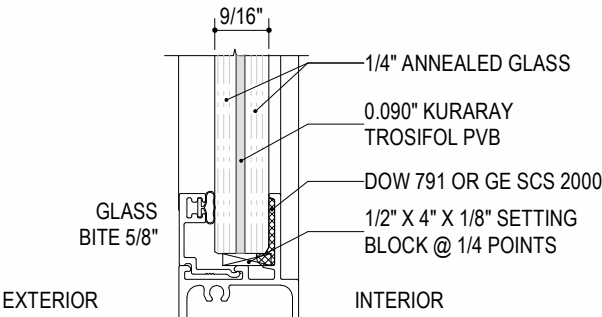
NOTE:
THIS PRODUCT APPROVAL DRAWING IS A TABULATED PERFORMANCE ANALYSIS OF THE INDIVIDUAL COMPONENTS AND DOES NOT CONTAIN INFORMATION ON EACH PROJECT SITE SPECIFIC CONDITION. STRUCTURAL, WATERPROOFING, SEALING, GUARD, AESTHETICS AND/OR OTHER MISCELLANEOUS REQUIREMENTS MUST BE COORDINATED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. FOR SITE-SPECIFIC CONDITIONS WHERE THE DESIGN PRESSURE / PRODUCT SIZE EXCEEDS THE VALUES SHOWN IN THIS DOCUMENT, CONTACT ECO WINDOW SYSTEMS,LLC FOR SPECIAL APPROVALS THROUGH THEIR OFFICIAL MAIL carlos.martinez@ecowindowsystems.com / CONTACT DETAILS PROVIDED ON THE RIGHT SIDE OF THIS SHEET.

NOTE:
THIS APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R. / H.R. OR HORIZ. ROLLING 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.

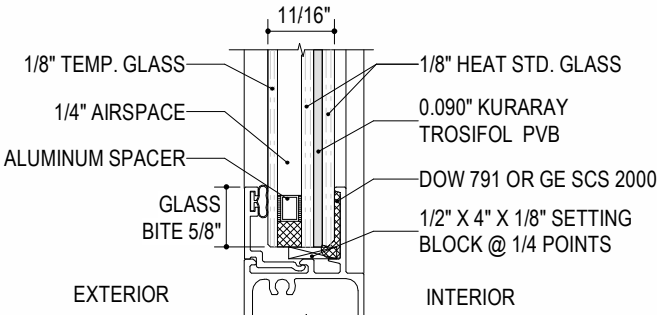


TYPICAL HORIZONTAL ROLLER WINDOW SYSTEM

GLAZING OPTIONS



GL-1: LAMINATED GLASS UNIT



GL-2: INSULATED GLASS UNIT

NOTE:
SEE SHEET 102/103 FOR GLASS PRESSURE TABLES.

GENERAL NOTES

- THIS SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201/202/203.
- GLASS CAPACITIES FOUND IN THE CHARTS HEREIN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- PRESSURES PROVIDED IN THE CERTIFICATION ARE BASED ON THE ALLOWABLE STRESS DESIGN METHOD(ASD).
- NO FACTORS HAVE BEEN USED IN ALLOWABLE STRESS CAPACITY OF THE PRODUCT. ANCHORS FOR WOODEN SUBSTRATE HAVE BEEN PROVIDED USING LOAD DURATION FACTOR OF Cd=1.6.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS PRODUCT IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUBSTRATES WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE SUPPORTING STRUCTURE.
- ENSURE A COMPREHENSIVE REVIEW OF THE NOTES ON EACH SHEET TO AVOID ANY POTENTIAL PROBLEM IN UTILIZING THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTED, PROVIDED THAT STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
- WOOD SCREWS REFERENCED IN THIS CERTIFICATION SHALL BE GRADE 2 MIN. (Fu = 74,000 PSI).
- FASTENERS SHALL BE CADMIUM PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- 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 EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT PART OF THIS CERTIFICATION).

INSTRUCTIONS: (CLICK ON THE BUTTON ON THE RIGHT TO DIRECTLY REACH THE DETAIL)

- STEP 1 - WIND PRESSURE CALCULATION (BY OTHERS)-**
DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SIZE AND CAPACITY SELECTION**
SEE THE LOADING CHART ON SHEET **102** AND **103**FOR DESIGN LOAD CAPACITY OF DESIRED WINDOW SIZE. THIS VALUE SHOULD MEET OR EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE. [CLICK HERE](#)
- STEP 3 ANCHOR SELECTION**
- SELECT APPROPRIATE ANCHOR FROM SHEET **108**. [CLICK HERE](#)
 - ANCHORAGE DETAILS- FOR VARIOUS SUBSTRATES- SEE SHEET **104,105** AND **108**. [CLICK HERE](#)

THIS SYSTEM IS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THESE WINDOW SYSTEMS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.



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.	date:	JA-2042-24	drawn by:	MK	BS	REVISION			
						DESCRIPTION	BY	DATE	No.

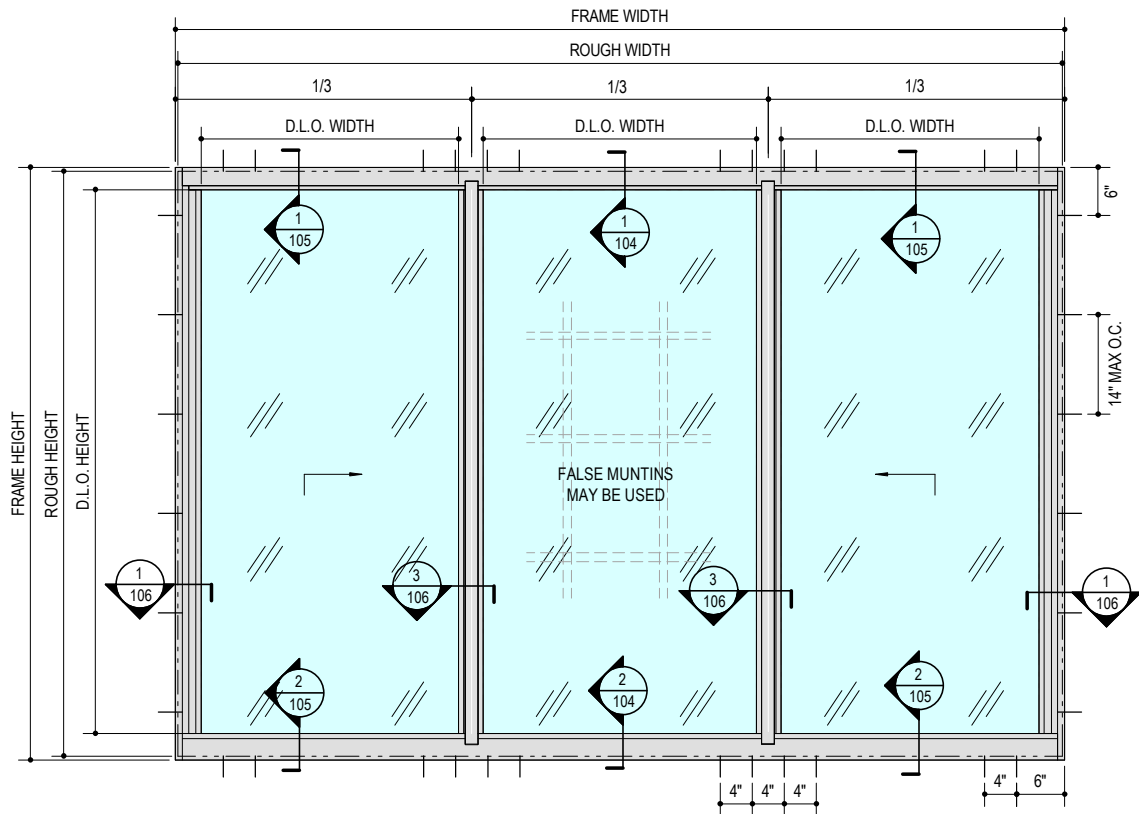
ECO-NOVO SERIES : 275 HORIZONTAL ROLLER WINDOW SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



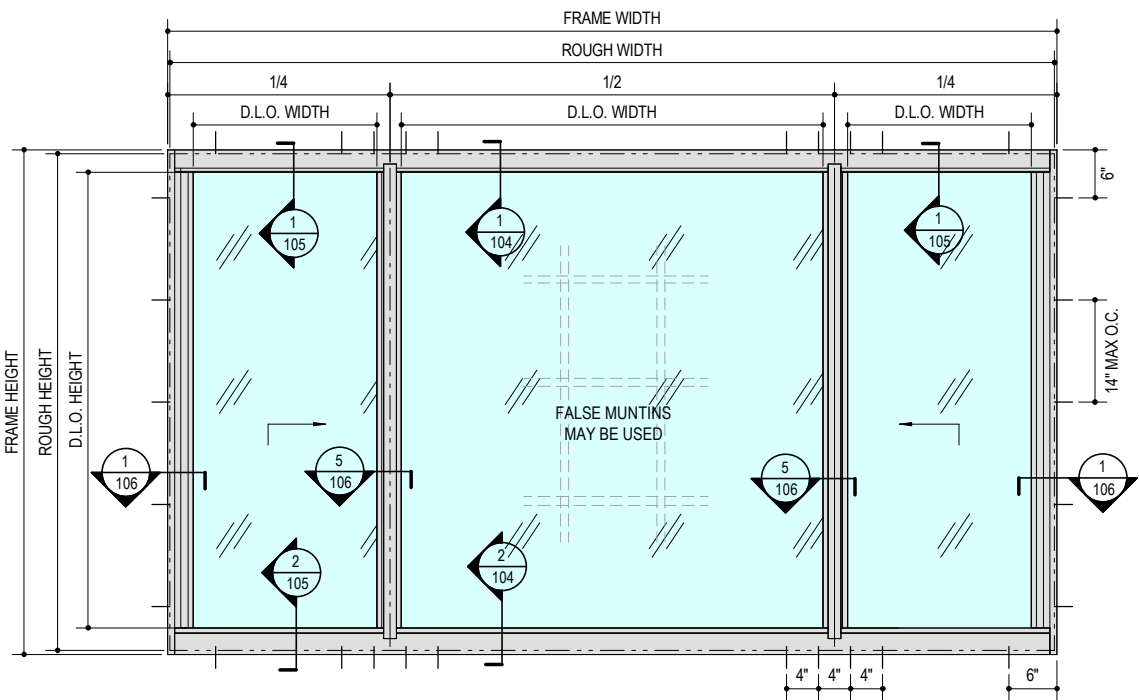
SEALED: 12/19/2024

TYPICAL ELEVATION & LOADING CHART

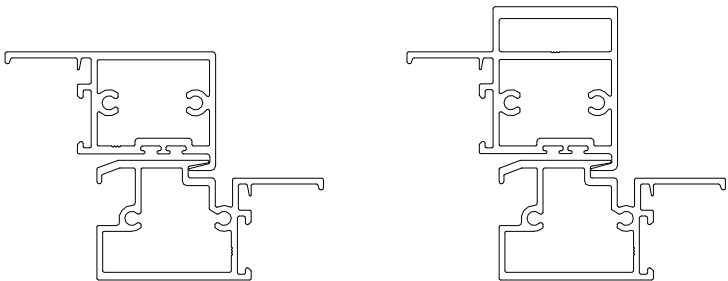
FL# 47214



1
102
XOX CONFIGURATION (1/3-1/3-1/3)
N.T.S.



2
102
XOX CONFIGURATION (1/4-1/2-1/4)
N.T.S.



INTERLOCK 'TYPE 1'

INTERLOCK 'TYPE 2'

NOTE:
USE INTERLOCK 'TYPE 2' FOR FRAME HEIGHTS ABOVE 63"

LOCKING HARDWARES:
OPTION 1:
USE (2) SURFACE MOUNT METALLIC CAMLOCKS ON EACH VENT @ 10 1/2" DISTANCE FROM EACH END, ATTACHED TO MEETING RAIL USING (2) #8 X 1" FH SMS SCREWS.
OPTION 2:
USE SPRING LOADED LATCH AS SHOWN IN DETAIL 2/106.

WEEPING NOTES:
(2) 3/16" X 1 1/2" DRAIN HOLES @ 2 1/2" FROM EACH ENDS AT TRACK INSERT.
(2) 1 1/2" X 5/16" WEEP HOLE WITH PLASTIC FLAP (A303) AT FRAME SILL ON THE EXTERIOR @ 6" FROM ENDS AND 37" O.C. MAX..

DESIGN LOAD CAPACITY (PSF) - XOX CONFIGURATION (1/3-1/3-1/3)									
WINDOW FRAME DIMS.		WITH INTERLOCK TYPE 1				WITH INTERLOCK TYPE 2			
		GLASS TYPE GL-1		GLASS TYPE GL-2		GLASS TYPE GL-1		GLASS TYPE GL-2	
HEIGHT (IN.)	WIDTH (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
74	111	-	-	-	-	70	70	70	70
63		65	65	65	65	75	75	75	75
50 5/8		80	80	80	80	80	80	80	80
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90
74	106 3/8	-	-	-	-	70	70	70	70
63		65	65	65	65	75	75	75	75
50 5/8		85	85	85	85	85	85	85	85
38 3/8		90	90	90	90	95	95	95	95
26		90	90	90	90	95	95	95	95
74	74	-	-	-	-	85	85	85	85
63		75	75	75	75	90	90	90	90
50 5/8		90	90	90	90	95	95	95	95
38 3/8		90	90	90	90	100	100	100	100
26		90	90	90	90	100	100	100	100

DESIGN LOAD CAPACITY (PSF) - XOX CONFIGURATION (1/4-1/2-1/4)									
WINDOW FRAME DIMS.		WITH INTERLOCK TYPE 1				WITH INTERLOCK TYPE 2			
		GLASS TYPE GL-1		GLASS TYPE GL-2		GLASS TYPE GL-1		GLASS TYPE GL-2	
HEIGHT (IN.)	WIDTH (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
63	111	60	60	60	60	75	75	75	75
50 5/8		80	80	80	80	80	80	80	80
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90
63	106 3/8	65	65	65	65	75	75	75	75
50 5/8		85	85	85	85	85	85	85	85
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90
63	74	75	75	75	75	90	90	90	90
50 5/8		90	90	90	90	90	90	90	90
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90



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drawing no.	JA-2042-24	drawn by:	MK	check by:	BS
date:	12/19/2024	REVISION	DESCRIPTION	BY	DATE
		No.			

ECO-NOVO SERIES : 275 HORIZONTAL
ROLLER WINDOW SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



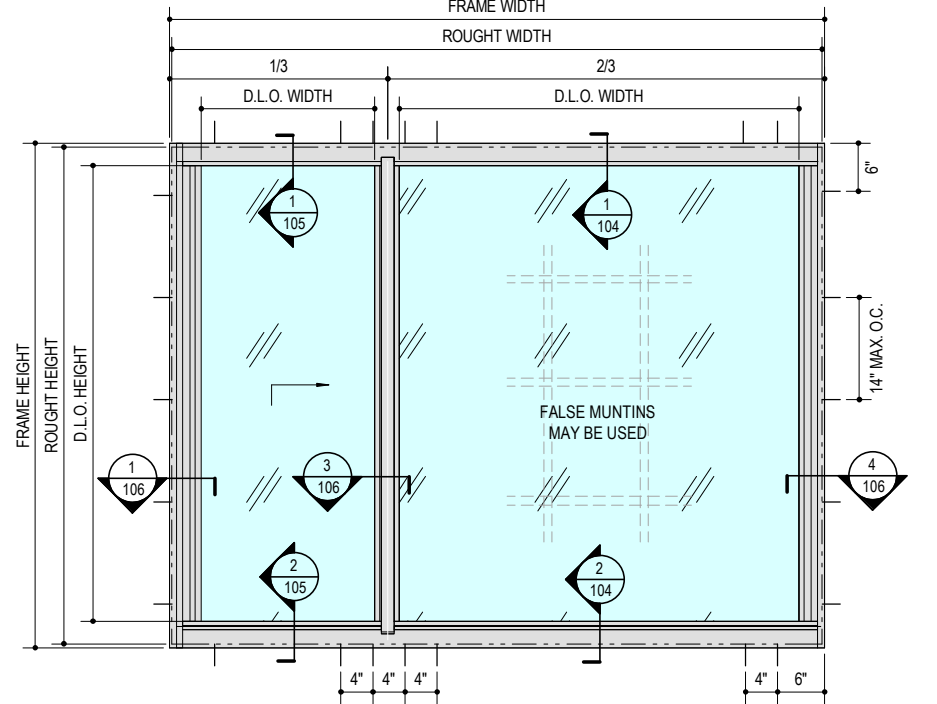
ECO WINDOW SYSTEMS, LLC
8602 N.W. 80th STREET, MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



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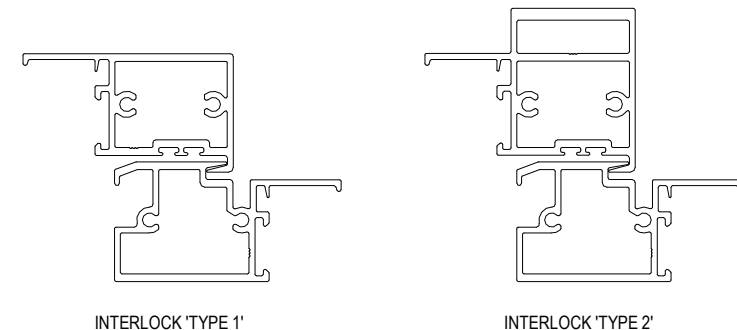
TYPICAL ELEVATION & LOADING CHART

FL# 47214



1	XO CONFIGURATION (1/3-2/3)
103	N.T.S.

DESIGN LOAD CAPACITY (PSF) - XOX CONFIGURATION (1/4-1/2-1/4)									
WINDOW FRAME DIMS.		WITH INTERLOCK TYPE 1				WITH INTERLOCK TYPE 2			
		GLASS TYPE GL-1		GLASS TYPE GL-2		GLASS TYPE GL-1		GLASS TYPE GL-2	
HEIGHT (IN.)	WIDTH (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
63	111	60	60	60	60	75	75	75	75
50 5/8		80	80	80	80	80	80	80	80
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90
63	106 3/8	65	65	65	65	75	75	75	75
50 5/8		85	85	85	85	85	85	85	85
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90
63	74	75	75	75	75	90	90	90	90
50 5/8		90	90	90	90	90	90	90	90
38 3/8		90	90	90	90	90	90	90	90
26		90	90	90	90	90	90	90	90



NOTE:
USE INTERLOCK 'TYPE 2' FOR FRAME HEIGHTS ABOVE 63"

LOCKING HARDWARES:
OPTION 1:
 USE (2) SURFACE MOUNT METALLIC CAMLOCKS ON EACH VENT @ 10 1/2" DISTANCE FROM EACH END, ATTACHED TO MEETING RAIL USING (2) #8 X 1" FH SMS SCREWS.
OPTION 2:
 USE SPRING LOADED LATCH AS SHOWN IN DETAIL 2/106.

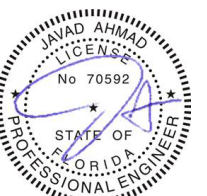
WEEPING NOTES:
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 (2) 1 1/2" X 5/16" WEEP HOLE WITH PLASTIC FLAP (A303) AT FRAME SILL ON THE EXTERIOR @ 6" AND 38" FROM EACH END



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**ECO-NOVO SERIES : 275 HORIZONTAL
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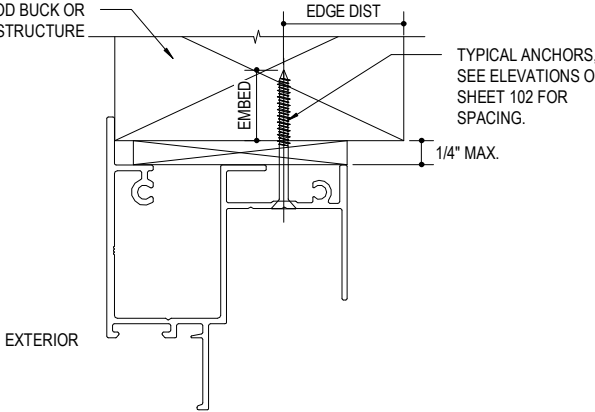
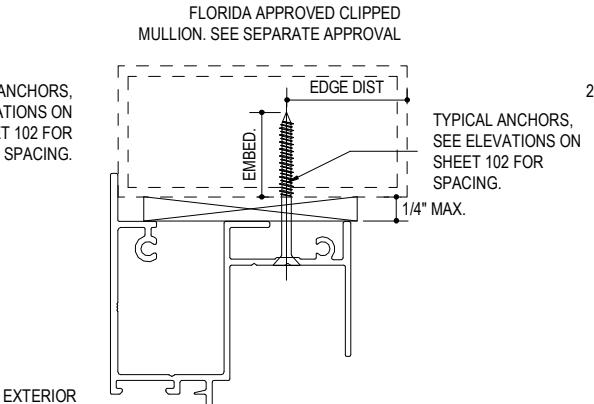
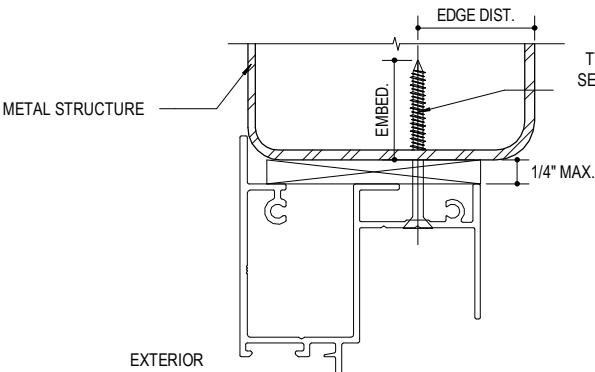
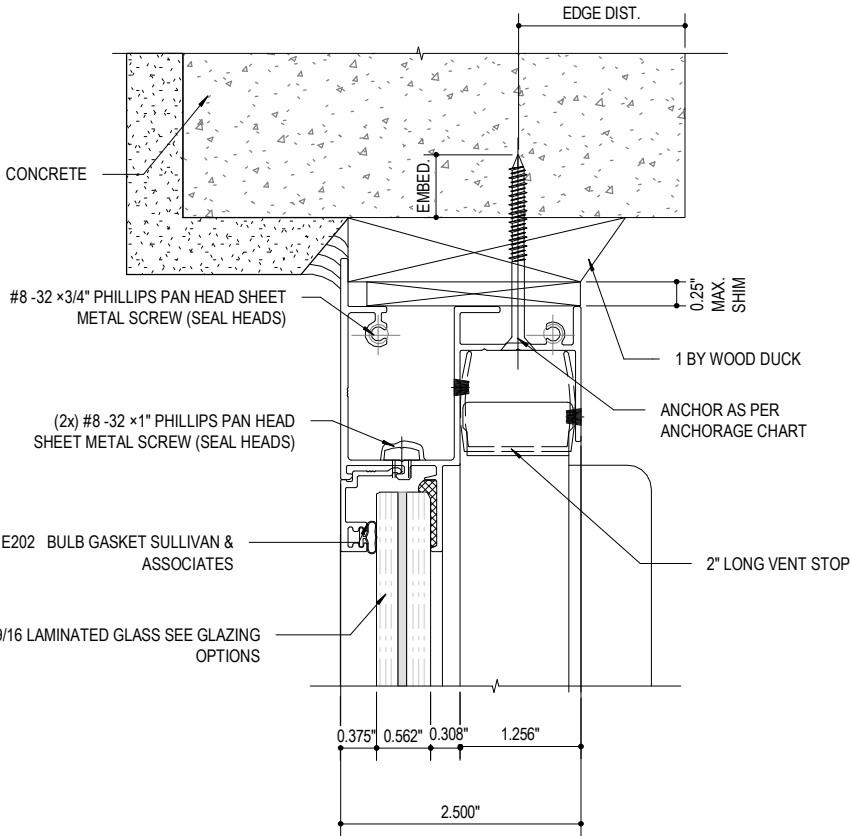


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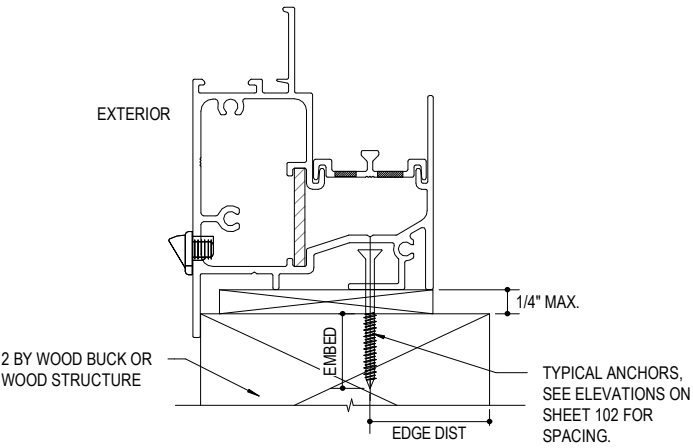
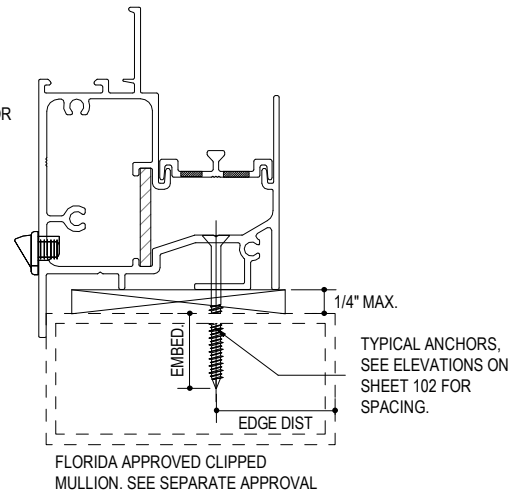
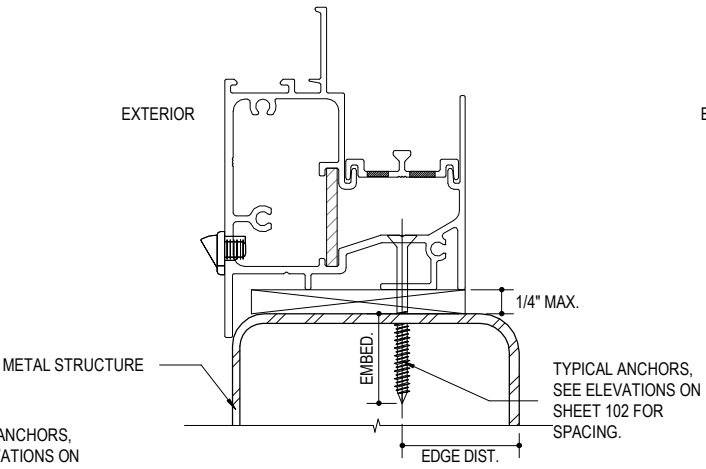
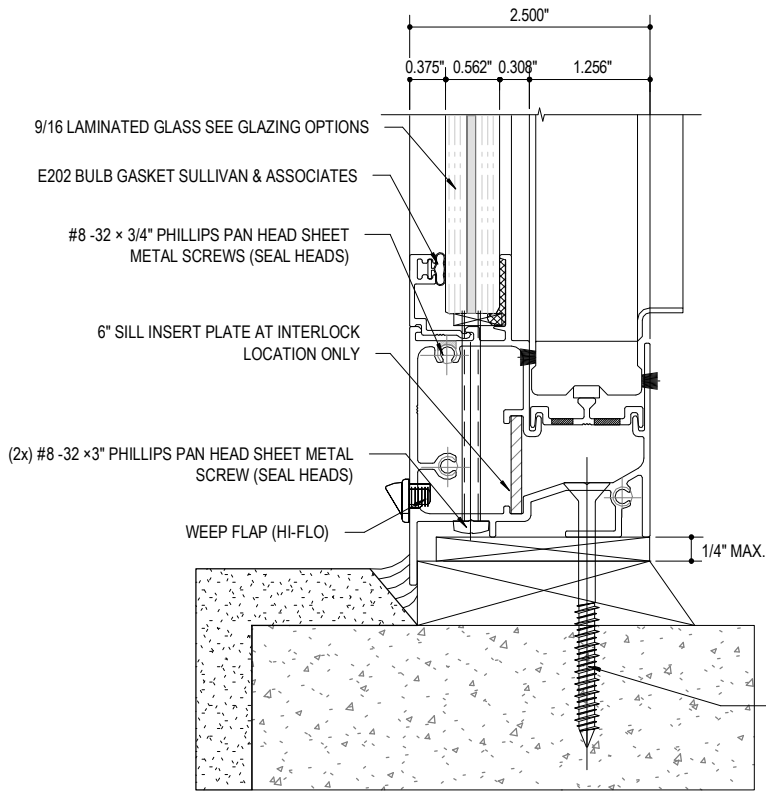
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SECTIONAL DETAIL

FL# 47214



1 HEAD DETAIL THRU FIX
104 N.T.S.



2 SILL DETAIL THRU FIX
104 N.T.S.



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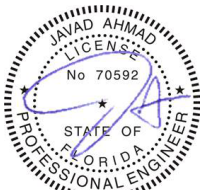
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					No.	DATE	BY	DESCRIPTION

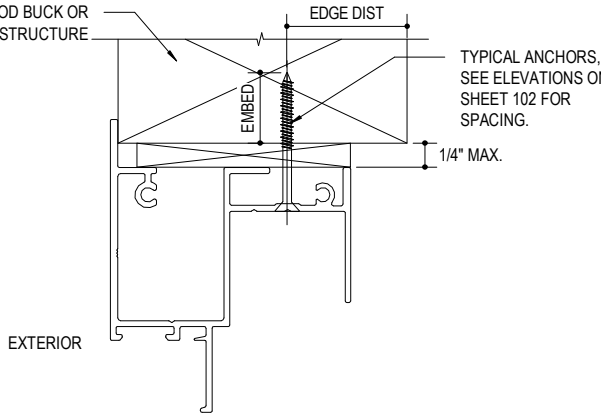
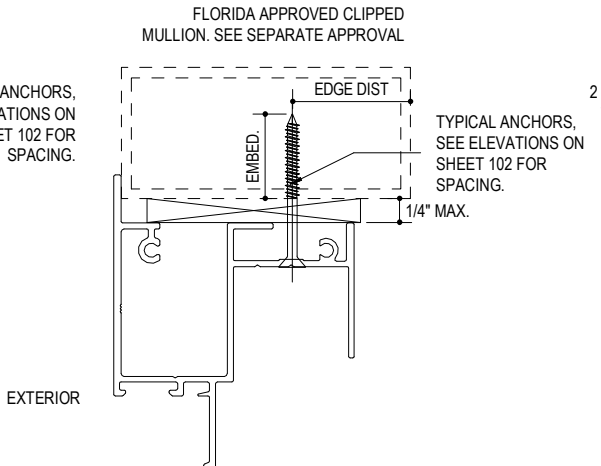
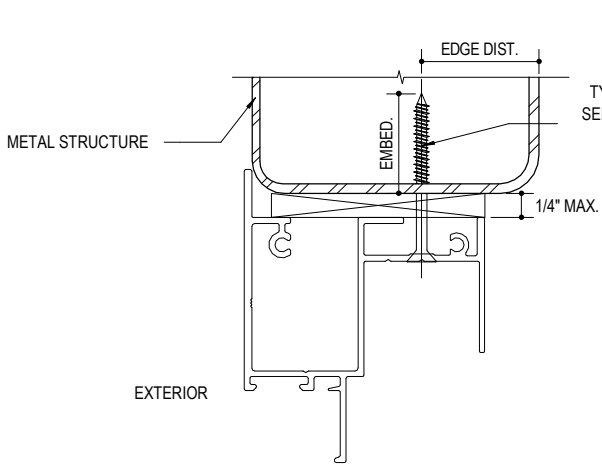
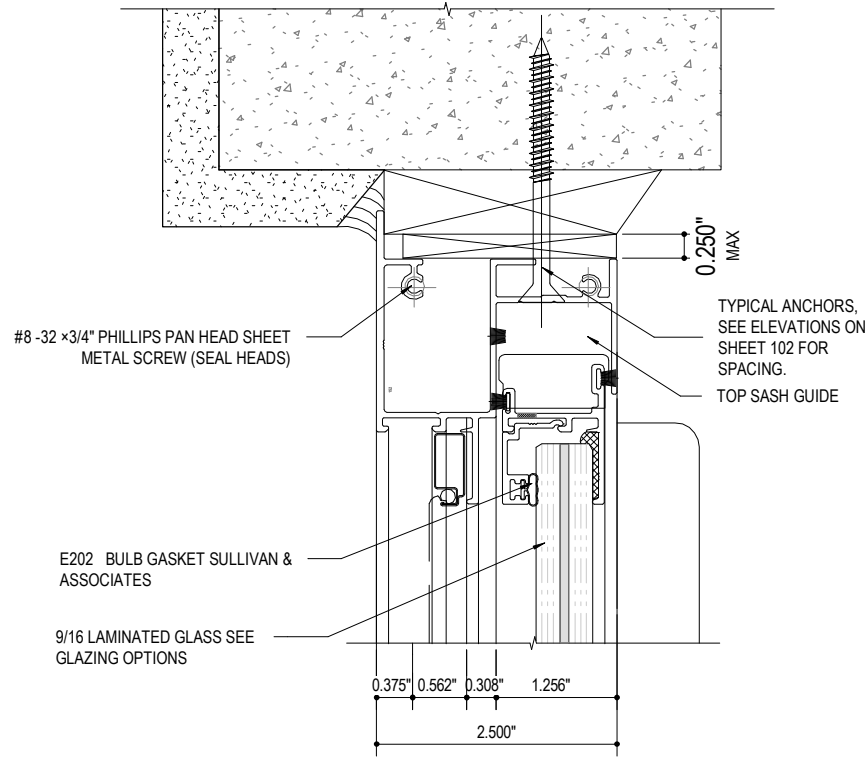
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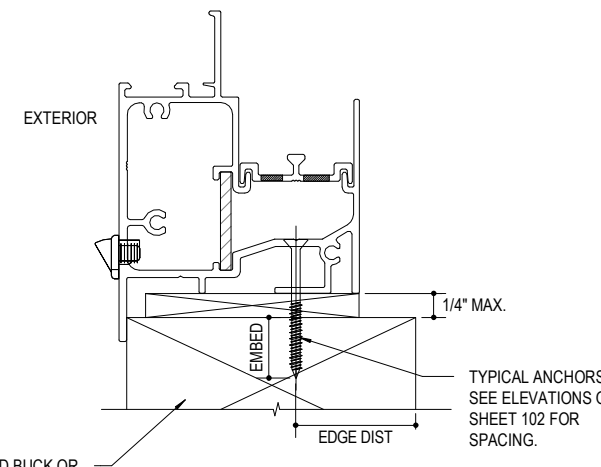
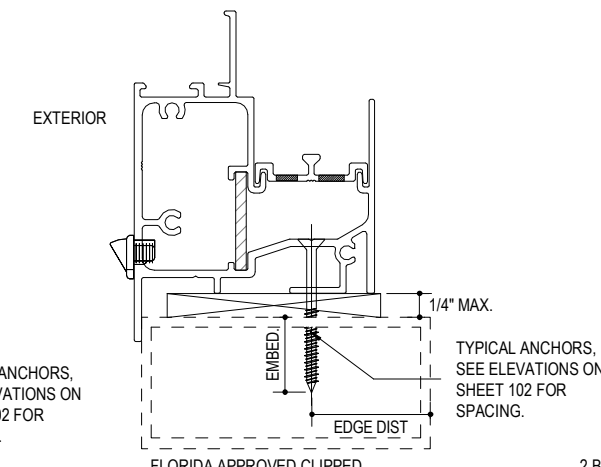
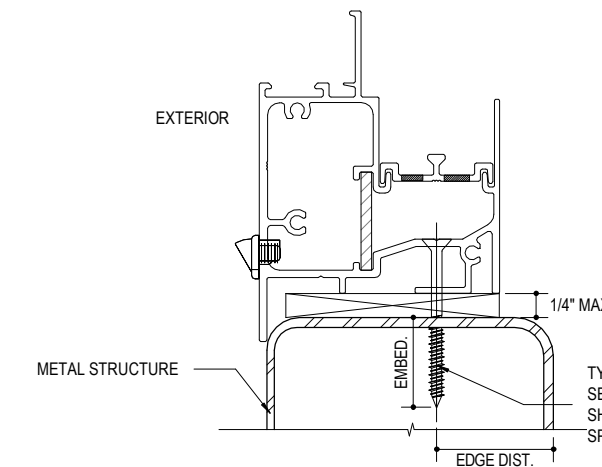
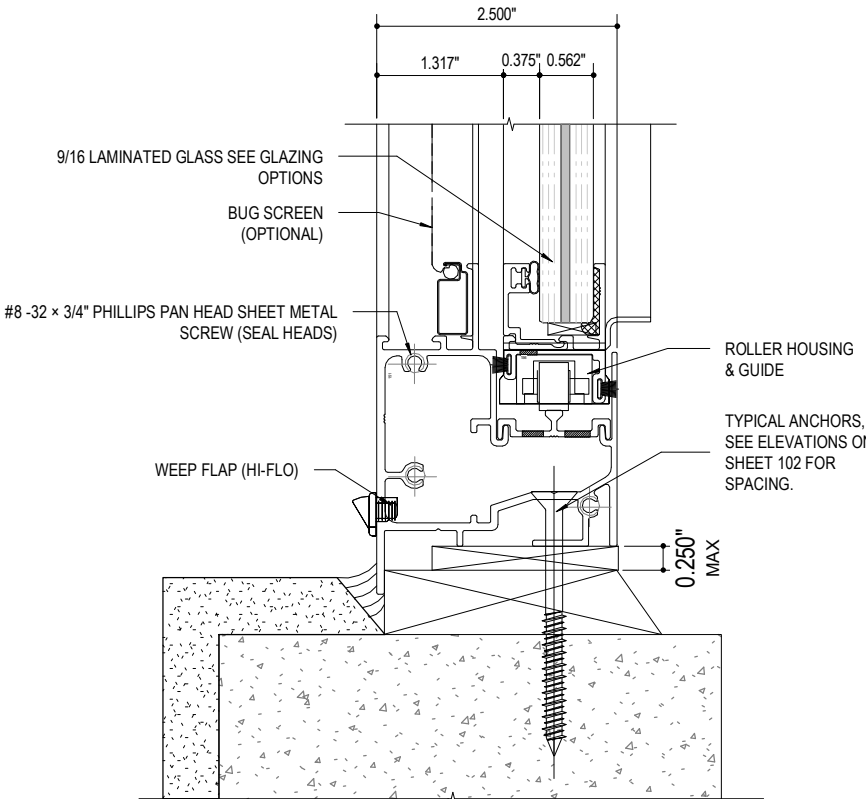
ECO WINDOW SYSTEMS, LLC
8802 N.W. 80th ST. MEDLEY, FL 33186
TEL: (305) 885-5299 FAX: (305) 885-5902



SEALED: 12/19/2024



1 HEAD DETAIL THRU VENT
105 N.T.S.



2 SILL DETAIL THRU VENT
105 N.T.S.



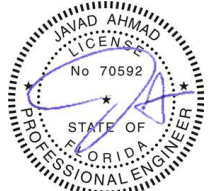
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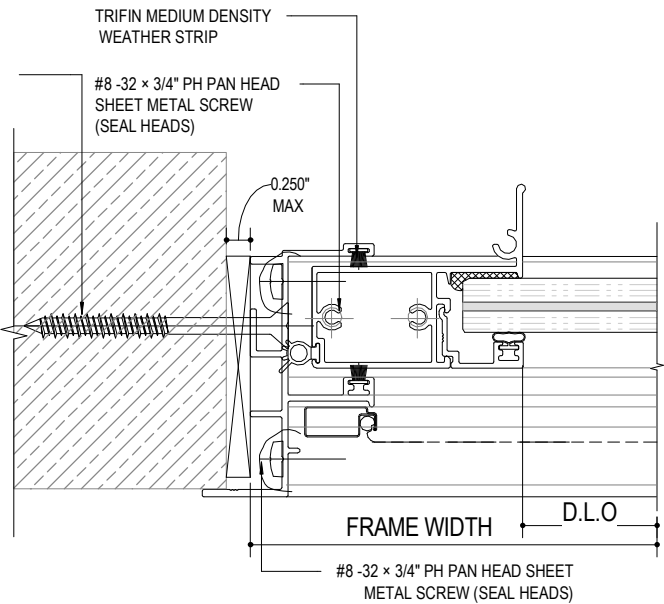
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ROLLER WINDOW SYSTEM
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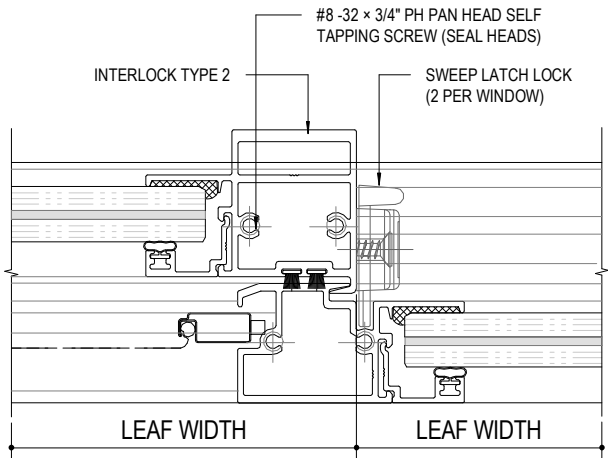
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5802 N.W. 80th Street, Medley, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



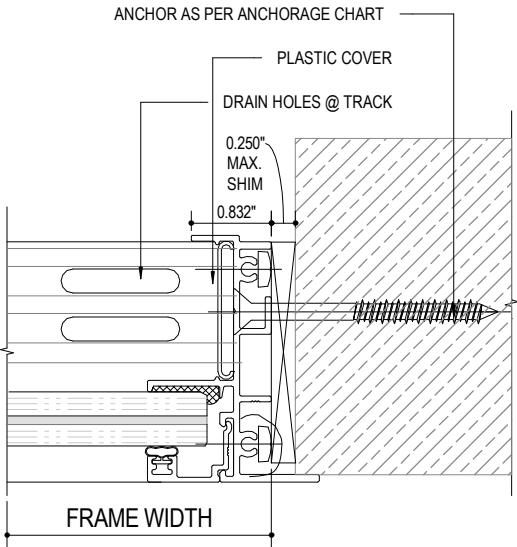
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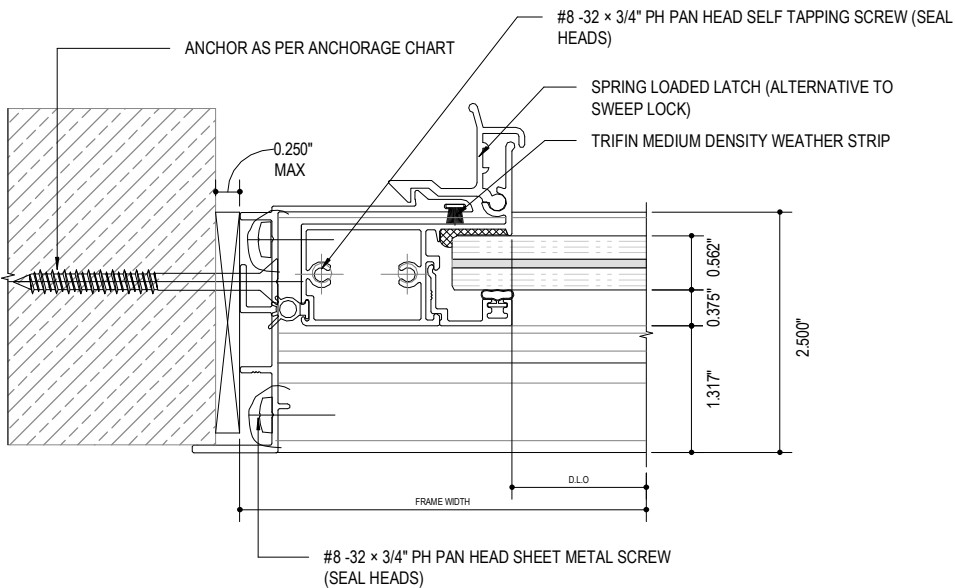
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106 SASH SIDE RAIL DETAIL
N.T.S.



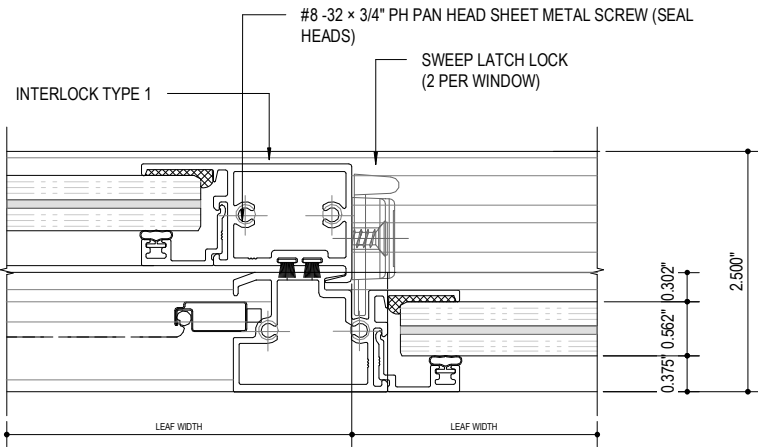
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106 MEETING RAIL 'TYPE 2' DETAIL
N.T.S.



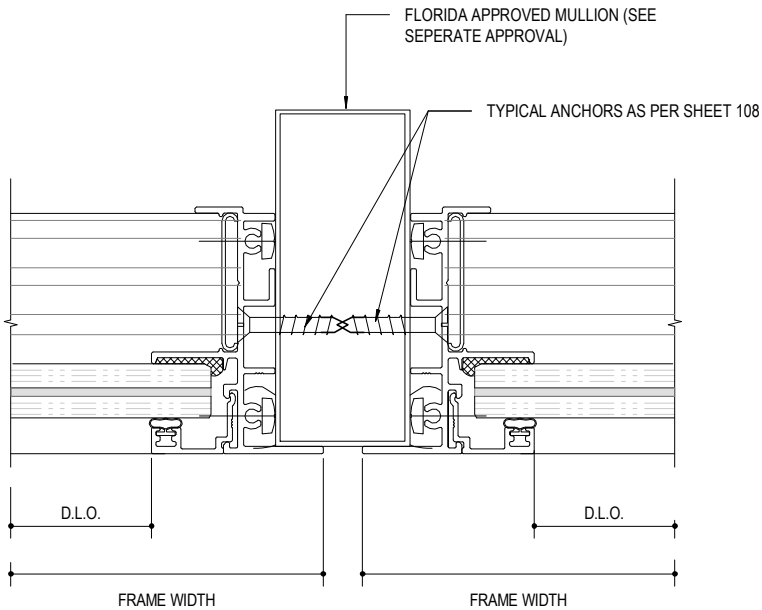
4
106 FRAME JAMB DETAIL
N.T.S.



2
106 SPRING LOADED SASH SIDE RAIL DETAIL
N.T.S.



5
106 MEETING RAIL 'TYPE 1' DETAIL
N.T.S.



6
106 SIDE BY SIDE WINDOW WITH FBC APPROVED MULLION
N.T.S.



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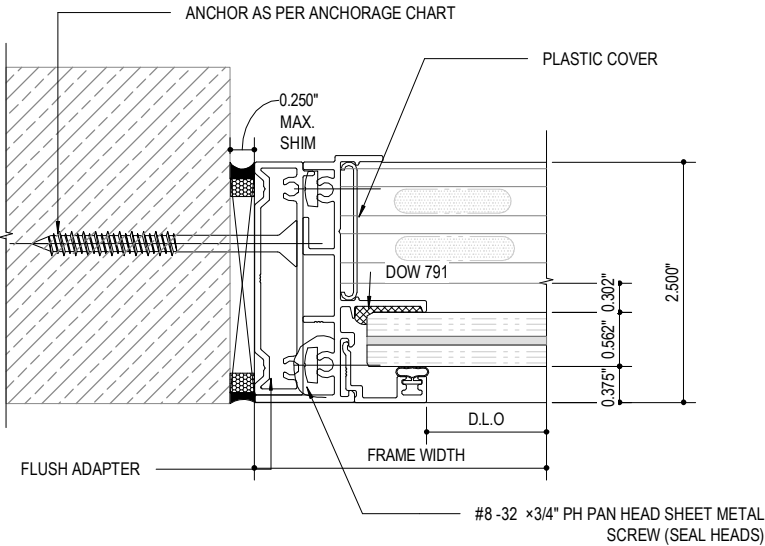
ECO-NOVO SERIES : 275 HORIZONTAL
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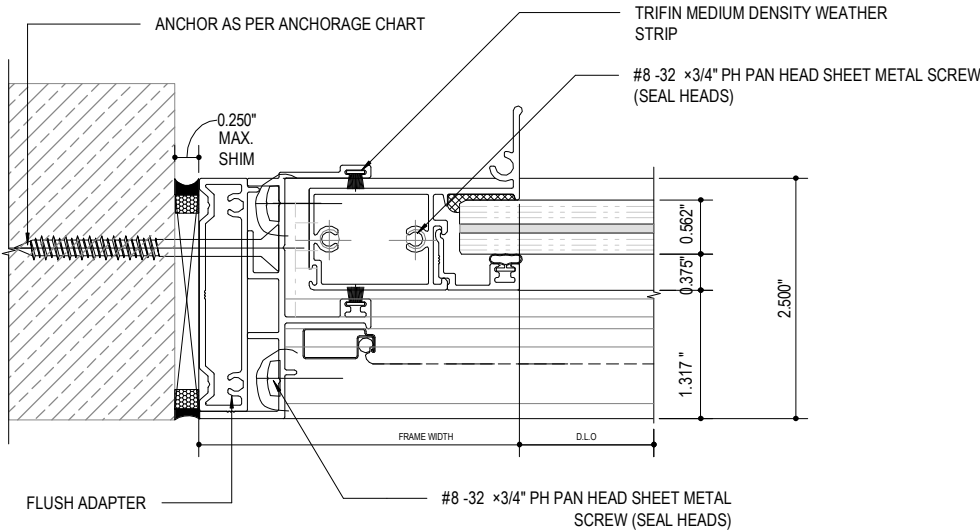


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1
107

FRAME JAMB DETAIL (FLUSH ADAPTER)
N.T.S.



2
107

SASH SIDE RAIL DETAIL (FLUSH ADAPTER)
N.T.S.



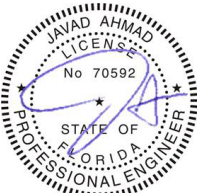
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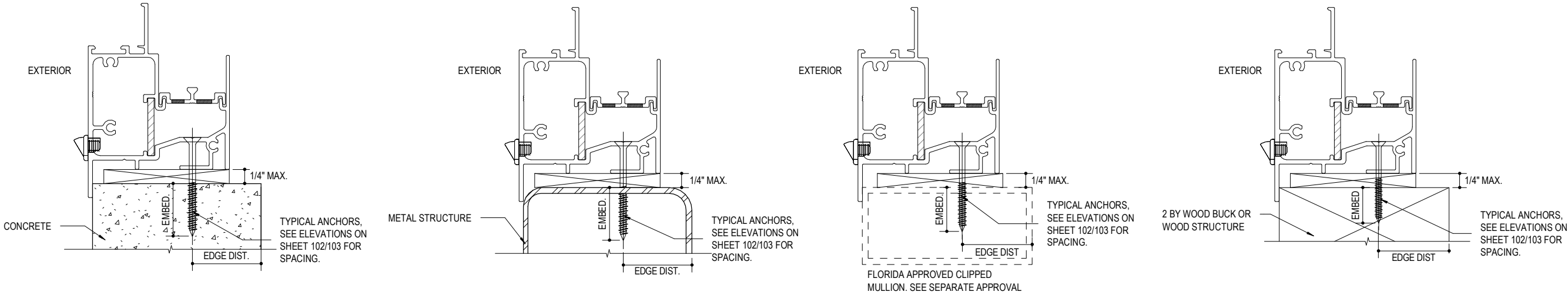


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ANCHORAGE IN DIFFERENT SUBSTRATES

TYPICAL ANCHOR TYPES:
(APPLIES TO ANCHOR GOING THROUGH THE WINDOW FRAME)

TYPE A - 1/4" DEWALT ULTRACON+ (Fu = 177,000 PSI, Fy = 155,000 PSI)

INTO 2BY WOOD WITH 2" MIN PENETRATION, AND 1-1/4" MIN EDGE DISTANCE

THRU 1BY WOOD INTO CONCRETE, OR HOLLOW/GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, AND 2-1/2" MIN EDGE DISTANCE

DIRECTLY INTO CONCRETE, OR HOLLOW/GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, AND 2-1/2" MIN EDGE DISTANCE

TYPE B - #14 SMS OR SELF DRILLING SCREW (GRADE 5 MIN)

INTO 1/8" MIN. THK. ALUMINUM/STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE

INTO APPROVED MULLIONS MIN. 1/8" THK. WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD, SILL OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD, SILL OR JAMBS f'c= 3000 PSI
- C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
- STEEL (1/8" THK., A36 MIN) AT HEAD, SILL OR JAMBS
- ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD, SILL OR JAMBS
- STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED

- NOTE:
- ANCHORAGE DETAIL SHOWN FOR WINDOW APPLY TO BOTH HEAD AND SILL.
 - PROVIDE ANCHORAGE AT JAMBS AS PER ANCHOR/SUBSTRATE NOTES ON THIS SHEET.
 - FOR ANCHOR SPACING SEE SHEET 102/103.

NOTE:

THE WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SHALL BE SEALED WITH ALUMINUM COLOR SEALANT

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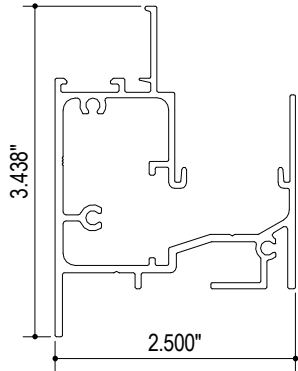
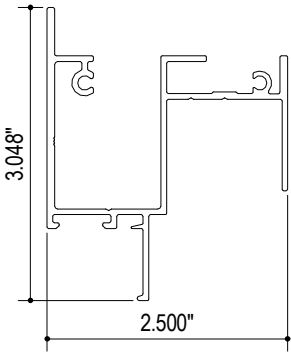
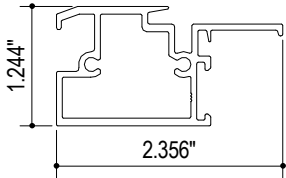
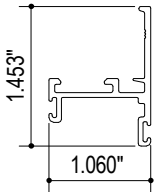
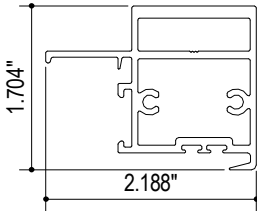
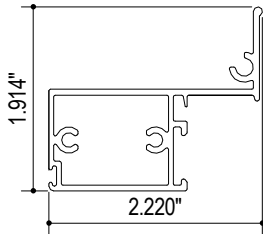
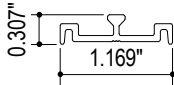
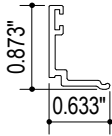
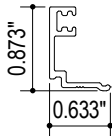
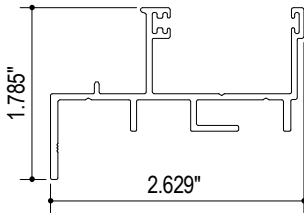
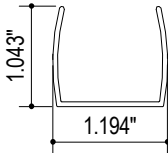
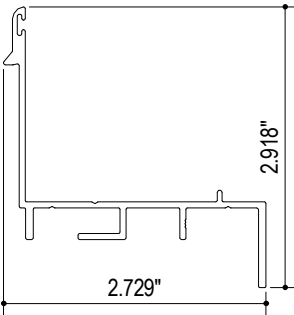
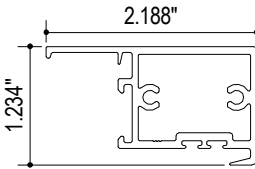
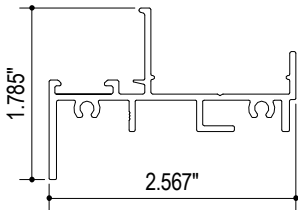
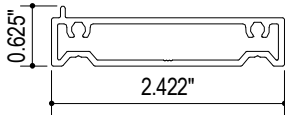
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1. FRAME SILL  ALLOY 6063 - T6E271	2. FRAME HEAD  ALLOY 6063 - T6E272	3. FIXED MEETING RAIL  ALLOY 6063 - T6E273	4. VENT TOP/BOTTOM RAIL  ALLOY 6063 - T6E274
5. VENT INTERLOCK STILE (TYPE 2)  ALLOY 6063 - T6E275	6. VENT JAMB STILE  ALLOY 6063 - T6E276	7. TRACK  ALLOY 6063 - T6E277	8. GLASS STOP  ALLOY 6063 - T6E278
9. GLASS STOP  ALLOY 6063 - T6E279	10. FRAME JAMB (VENT SIDE)  ALLOY 6063 - T6E280	11. SASH STOP  ALLOY 6063 - T6E281	12. FRAME JAMB (SPRING LOADED)  ALLOY 6063 - T6E171
13. VENT INTERLOCK STILE (TYPE 1)  ALLOY 6063 - T6E172		14. FRAME JAMB (FIXED SIDE)  ALLOY 6063 - T6E371	15. FLUSH ADAPTER  ALLOY 6063 - T6E372



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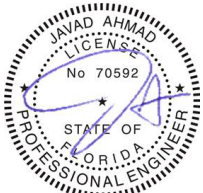
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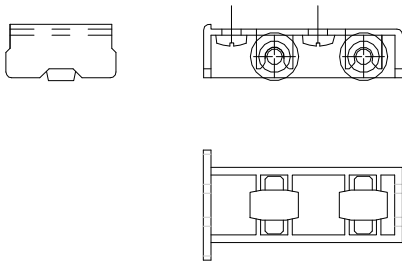


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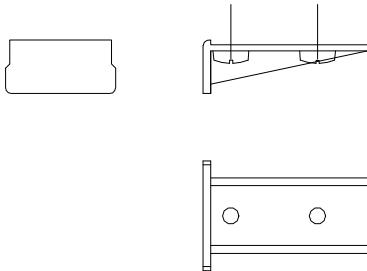
16. ROLLER HOUSING & ROLLER



CELCON, BRASS WHEELS, STAINLESS STEEL SHAFT

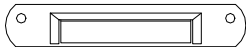
A271

17. VENT TOP GUIDE



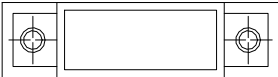
CELCON

18. HI-FLO WEEP FLAP



NYLON

19. SWEEP LOCK



DIE CAST

A274

20. WEATHER STRIP



WOVEN PILE + POLYP. BACKING

G281

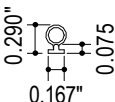
21. WEATHER STRIP



WOVEN PILE + POLYP. BACKING

G282

22. BULB GASKET



TPE & POLYPROPYLENE

G283

BILL OF MATERIAL

ITEM#	PART#	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E271	AS REQD.	FRAME SILL	ALLOY 6063-T6	-
2	E272	AS REQD.	FRAME HEAD	ALLOY 6063-T6	-
3	E273	AS REQD.	FIXED MEETING RAIL	ALLOY 6063-T6	-
4	E274	AS REQD.	VENT TOP/BOTTOM RAIL	ALLOY 6063-T6	-
5	E275	AS REQD.	VENT INTERLOCK STILE (TYPE 2)	ALLOY 6063-T6	-
6	E276	AS REQD.	VENT JAMB STILE	ALLOY 6063-T6	-
7	E277	AS REQD.	TRACK	ALLOY 6063-T6	-
8	E278	AS REQD.	GLASS STOP	ALLOY 6063-T6	-
9	E279	AS REQD.	GLASS STOP	ALLOY 6063-T6	-
10	E280	AS REQD.	FRAME JAMB (VENT SIDE)	ALLOY 6063-T6	-
11	E281	AS REQD.	SASH STOP	ALLOY 6063-T6	-
12	E171	AS REQD.	FRAME JAMB (SPRING LOADED)	ALLOY 6063-T6	-
13	E172	AS REQD.	VENT INTERLOCK STILE (TYPE 1)	ALLOY 6063-T6	-
14	E371	AS REQD.	FRAME JAMB (FIXED SIDE)	ALLOY 6063-T6	-
15	E372	AS REQD.	FLUSH ADAPTER	ALLOY 6063-T6	-
16	A271	AS REQD.	ROLLER	CELCON, BRASS WHEELS, STAINLESS STEEL SHAFT	-
17	A272	AS REQD.	VENT TOP GUIDE	CELCON	-
18	A273	AS REQD.	HI-FLO WEEP FLAP	NYLON	-
19	A274	AS REQD.	SWEEP LOCK	DIE CAST	-
20	G281	AS REQD.	WEATHER STRIP	WOVEN PILE+ POLYP.BACKING	-
21	G282	AS REQD.	WEATHER STRIP	WOVEN PILE+ POLYP.BACKING	-
22	G283	AS REQD.	BULB GASKET	TPE & POLYPROPYLENE	-
23	-	AS REQD.	#8-32 X 3/4" SMS	STAINLESS STEEL	PHILLIPS, PAN-HEAD
24	-	AS REQD.	#8-32 X 1" SMS	STAINLESS STEEL	PHILLIPS, PAN-HEAD
25	-	AS REQD.	#8-32 X 3" SMS	STAINLESS STEEL	PHILLIPS, PAN-HEAD
26	-	AS REQD.	#8-32 X 1" SMS	STAINLESS STEEL	PHILLIPS, FLAT-HEAD



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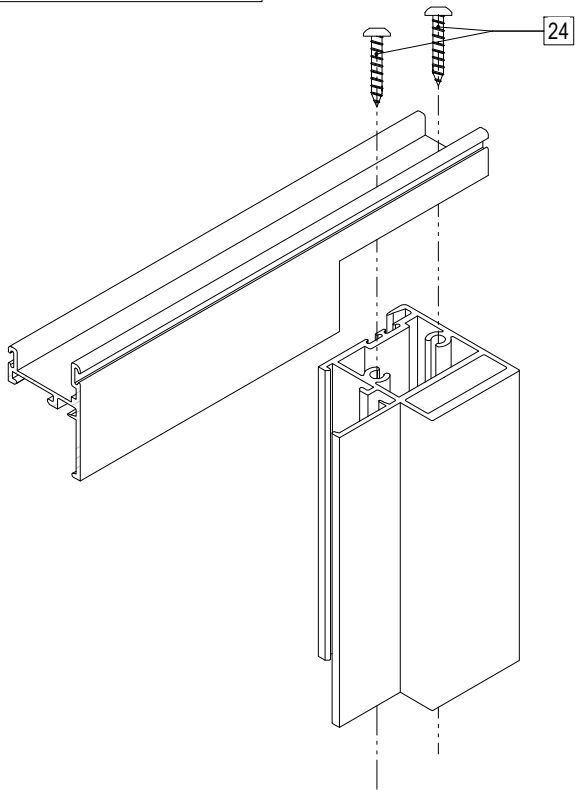
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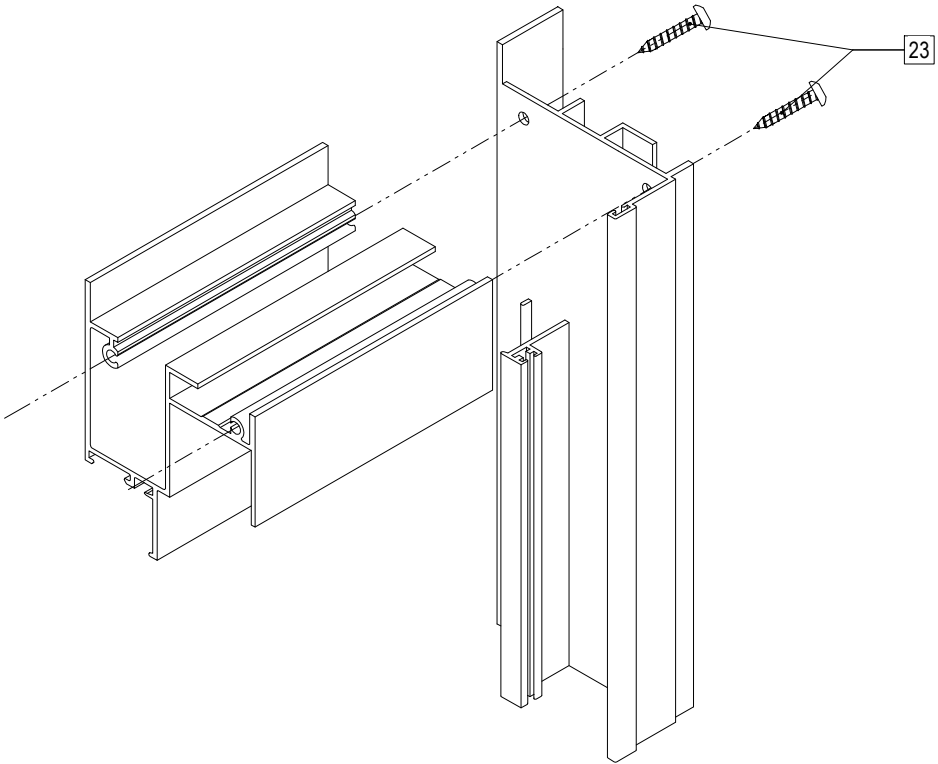
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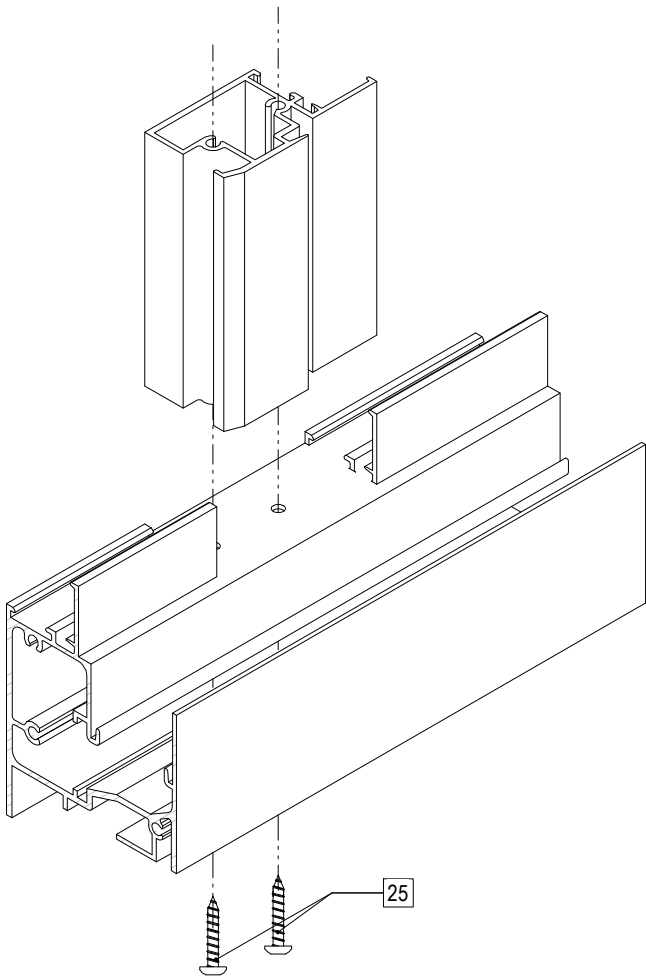
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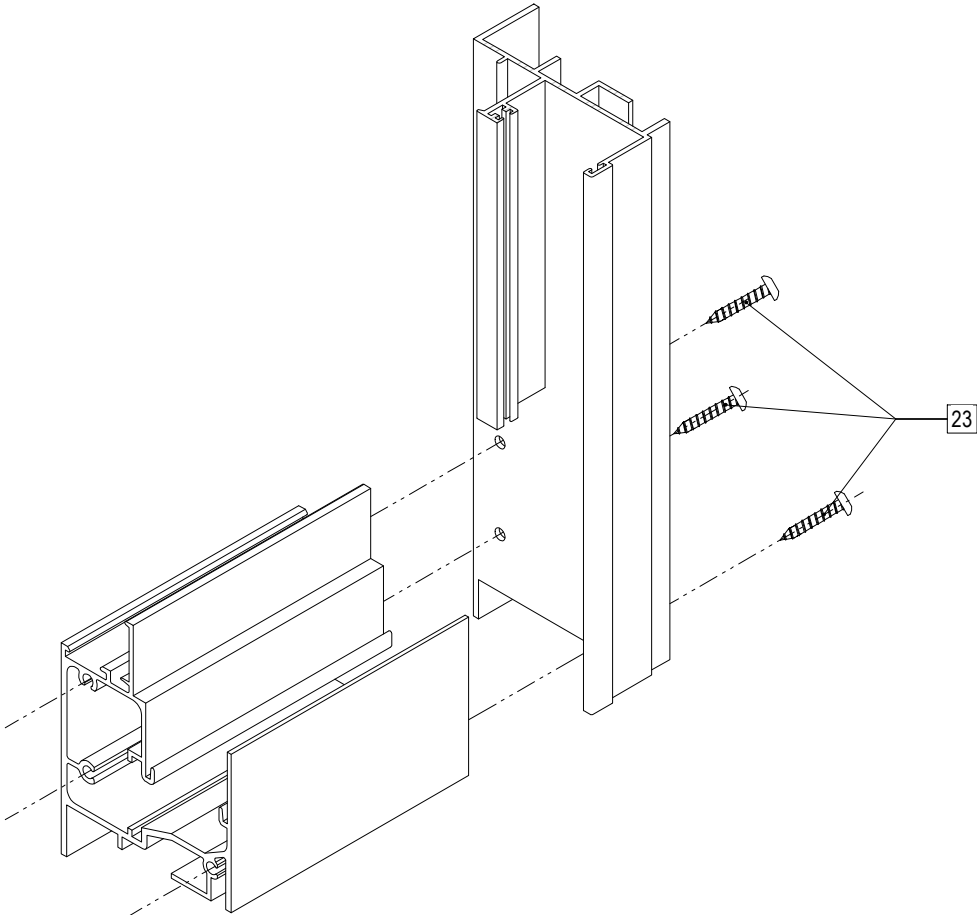
VENT TOP/BOTTOM CORNER



FRAME TOP CORNER



FIXED MEETING STILE CORNER



FRAME BOTTOM CORNER



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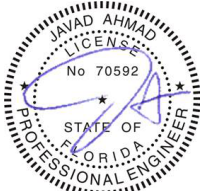
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