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Business & Professional Regulation



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Product Approval
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FL #	FL47218												
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	Awning												
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	FL47218_R0_COI_Certificate_of_Independence_JA-PE.pdf												
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E283</td> <td>2019</td> </tr> <tr> <td>ASTM E331</td> <td>2000</td> </tr> <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>	<u>Standard</u>	<u>Year</u>	ASTM E283	2019	ASTM E331	2000	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>												
ASTM E283	2019												
ASTM E331	2000												
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

12/31/2024

Date Pending FBC Approval

01/02/2025

Date Approved

02/11/2025

Summary of Products

FL #	Model, Number or Name	Description
47218.1	ECO-NOVO Series 585 Awning Window	Large and Small Missile Impact Resistant Awning Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Please see enclosed documents for product performance information, maximum sizes, anchorage details, anchor type and spacing information.		Installation Instructions FL47218_R0_II_ECO-NOVO_SERIES_585_AWNING_WINDOW-JA-2042-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47218_R0_AE_ECO-NOVO_Series_585_Awning_Window-PA_EVR-SS1.pdf Created by Independent Third Party: Yes

Back

Next

[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:



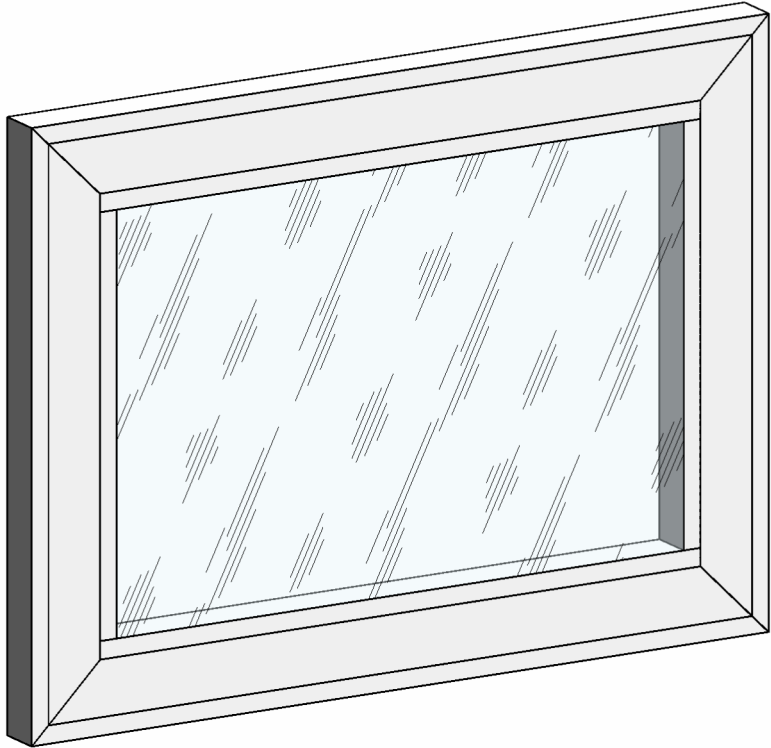
SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATIONS
103	GLAZING DETAILS
104	SECTIONAL DETAILS
105	SECTIONAL DETAILS
106	ANCHORAGE LAYOUT
107	PARTS LIST
108	FRAME ASSEMBLY

NOTE: THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED 'ECO WINDOW SYSTEMS, LLC' PRODUCTS. WHEN MULLED COMBINATIONS ARE USED, THE LOWER DESIGN PRESSURE FROM EACH PRODUCT WILL APPLY TO THE ENTIRE SYSTEM. FINAL APPROVAL OF ALL DESIGNS SHALL BE GRANTED BY THE GOVERNING MUNICIPALITY.

ECO WINDOW SYSTEM

ECO-NOVO SERIES 585 AWNING WINDOW

(LARGE AND SMALL MISSILE IMPACT RATED)



AWNING WINDOW SYSTEM

MAXIMUM DESIGN LOAD RATING = ± 60 PSF

(FOR SIZES SHOWN OR SMALLER)

GENERAL NOTES

1. 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, ASTM E283/E283M-19 AND ASTM E331-00
2. GLASS CAPACITIES FOUND IN THE CHARTS HEREIN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
3. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
4. PRESSURES PROVIDED IN THE CERTIFICATION ARE BASED ON THE ALLOWABLE STRESS DESIGN METHOD (ASD).
5. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH THE STANDARDS IN NOTE 1 OF THE GENERAL NOTES AND IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE IMPACT RESISTANT SHUTTERS.
6. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
7. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
8. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
9. THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

10. FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTE PROVIDED THE STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
11. 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.
12. ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS SHOWN ONLY. THE USE OF THIS SPECIFICATION BY THE CONTRACTOR, ET AL., INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES, RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES, AND FROM DEVIATIONS OF THIS PLAN.
13. THIS PRODUCT IS APPROVED FOR FORCED ENTRY RESISTANCE AS PER ASTM ASTM F588-17.
14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
15. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
16. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
17. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

ECO WINDOW SYSTEMS, LLC

8502 NW 80TH STREET, MEDLEY, FL 33166

APPROVED BY FLORIDA BUILDING COMMISSION

FLORIDA PRODUCT APPROVAL NUMBER FL# 47218.1

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 **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 **106**. [CLICK HERE](#)

• ANCHORAGE DETAILS- FOR VARIOUS SUBSTRATES- SEE SHEET **102** AND **106**. [CLICK HERE](#)

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

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.

FL#47218.1



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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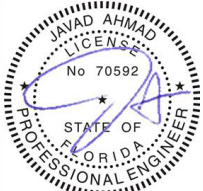
drawing no.	JA-2042-24	drawn by:	AK	date:	12-27-24	check by:	BS	REVISION			
								No.	DATE	BY	DESCRIPTION
					12/27/2024			1		AK	UPDATE AS PER DBPR COMMENT

ECO-NOVO SERIES 585 AWNING WINDOW

(LARGE AND SMALL MISSILE IMPACT RATED)



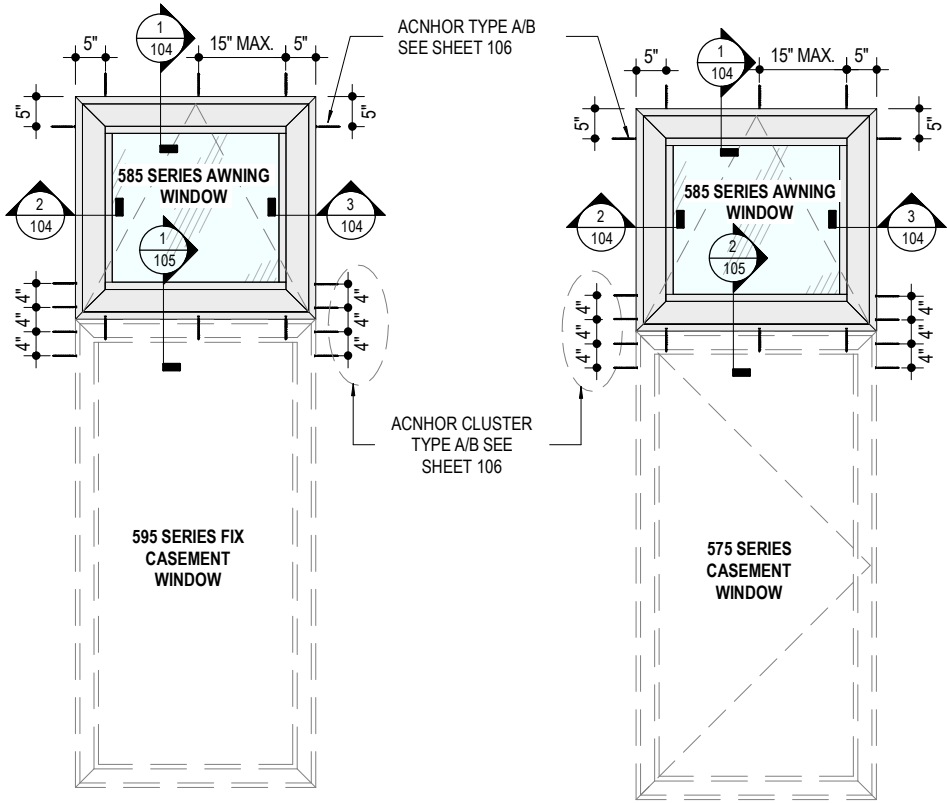
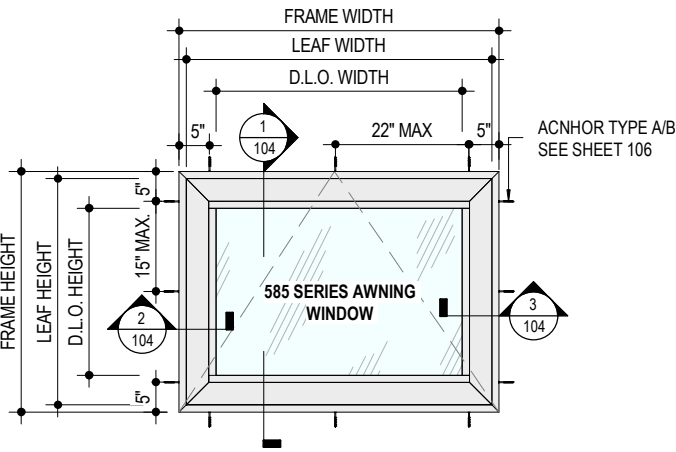
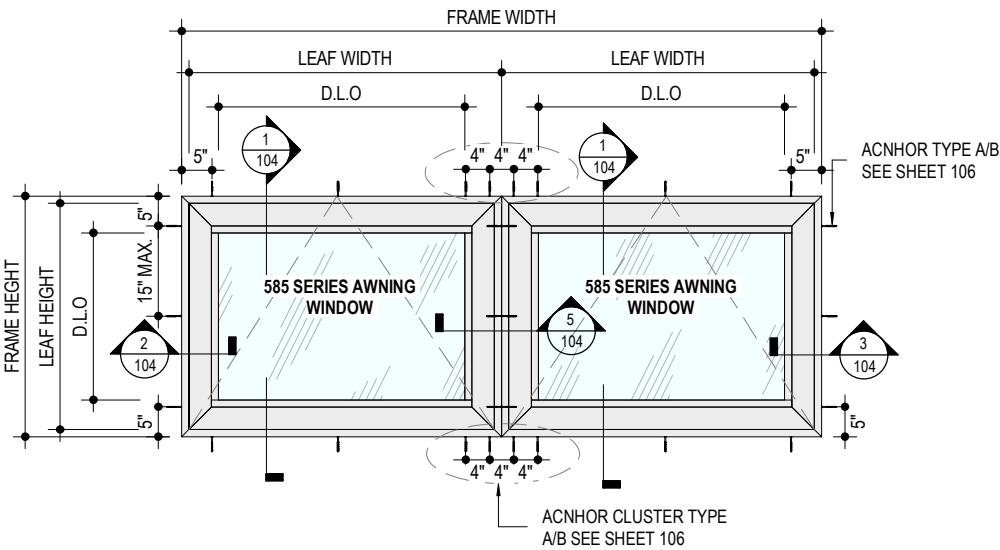
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TYPICAL ELEVATIONS

FL#47218.1

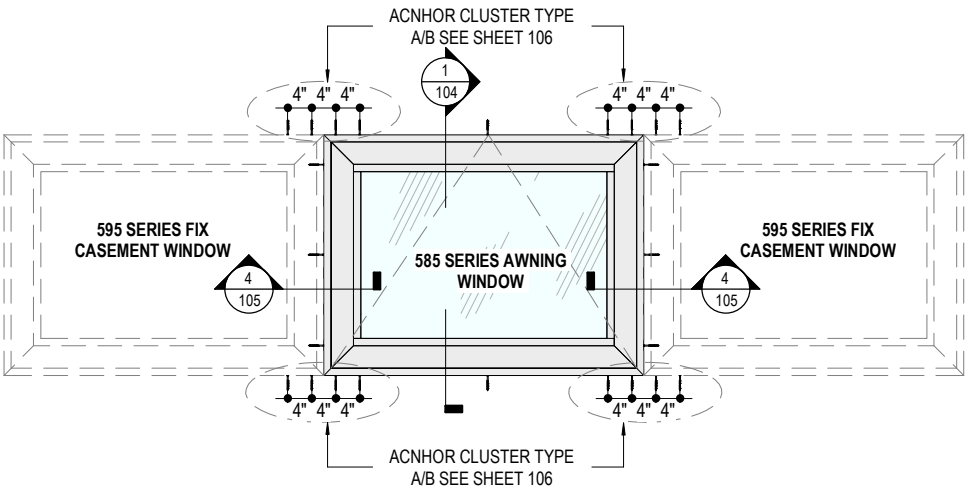
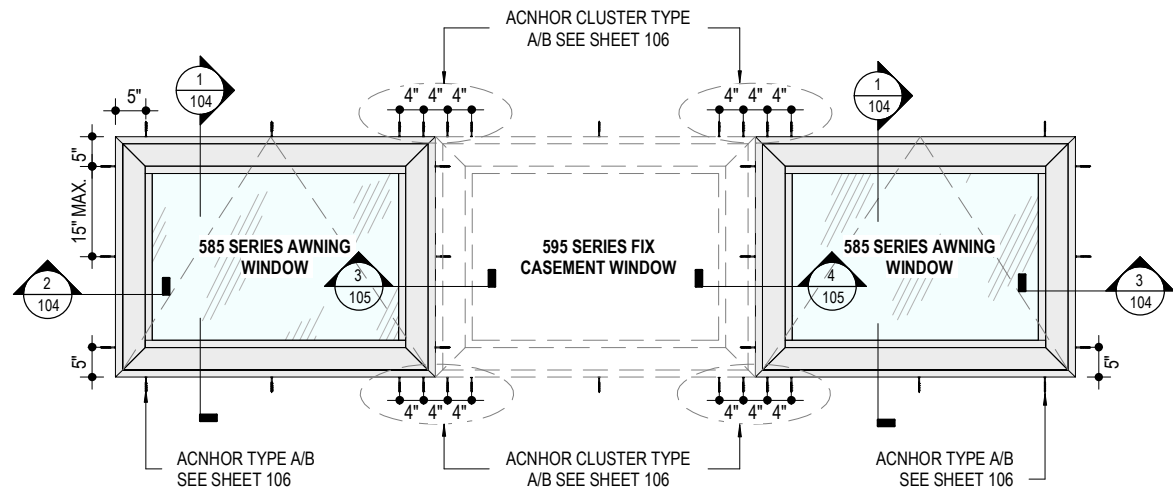


1
102 TYPICAL AWNING WINDOW ELEVATION
NOT TO SCALE

2
102 TYPICAL SINGLE AWNING WINDOW ELEVATION
NOT TO SCALE

3
102 ALTERNATIVE ELEVATION 1
NOT TO SCALE

4
102 ALTERNATIVE ELEVATION 2
NOT TO SCALE



5
102 ALTERNATIVE ELEVATION 3
NOT TO SCALE

6
102 ALTERNATIVE ELEVATION 4
NOT TO SCALE



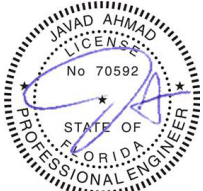
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Doral, FL 33126
Ph: (305) 424-8001
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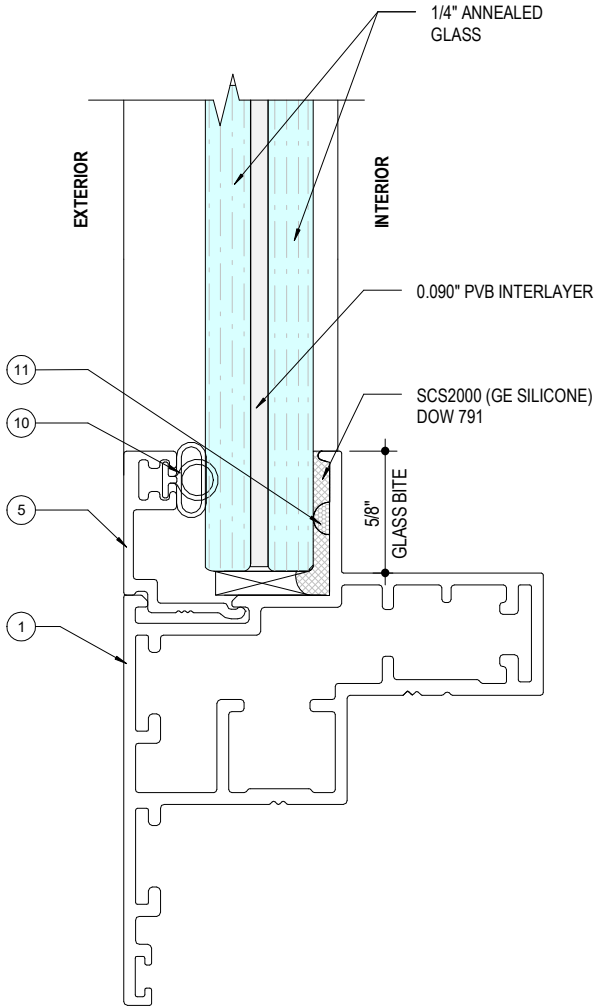
drawing no.	date:	REVISION			
		BY	DESCRIPTION	AK	BS
No.	1	12/27/2024	UPDATE AS PER DBPR COMMENT		

ECO-NOVO SERIES 585 AWNING WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)

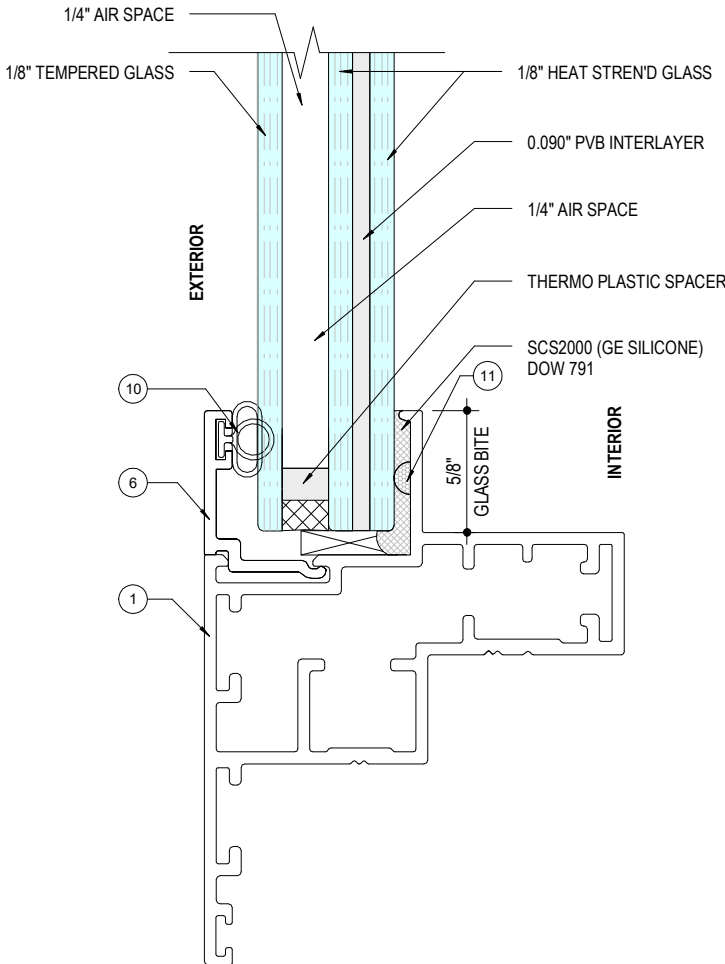
ECO window systems
ECO WINDOW SYSTEMS, LLC
5802 N.W. 80th ST. MEDLEY, FL 33166
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1 9/16" LAMINATED GLASS UNIT
103 NOT TO SCALE



2 11/16" INSULATED GLASS UNIT
103 NOT TO SCALE

MAXIMUM DESIGN LOAD RATING = ± 60 PSF

(FOR SIZES SHOWN OR SMALLER)

- MAX. FRAME HEIGHT = 40"
MAX. FRAME WIDTH:
• FOR DOUBLE AWNING = 106-1/4"
• FOR SINGLE AWNING = 53-1/8"
D.L.O HEIGHT = FRAME HEIGHT - 8"
D.L.O WIDTH:
• FOR DOUBLE AWNING = $\frac{\text{FRAME WIDTH} - 8"}{2}$
• FOR SINGLE AWNING = FRAME WIDTH - 8"



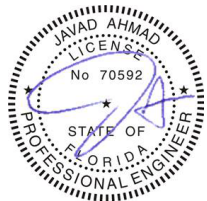
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ECO-NOVO SERIES 585 AWNING WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)

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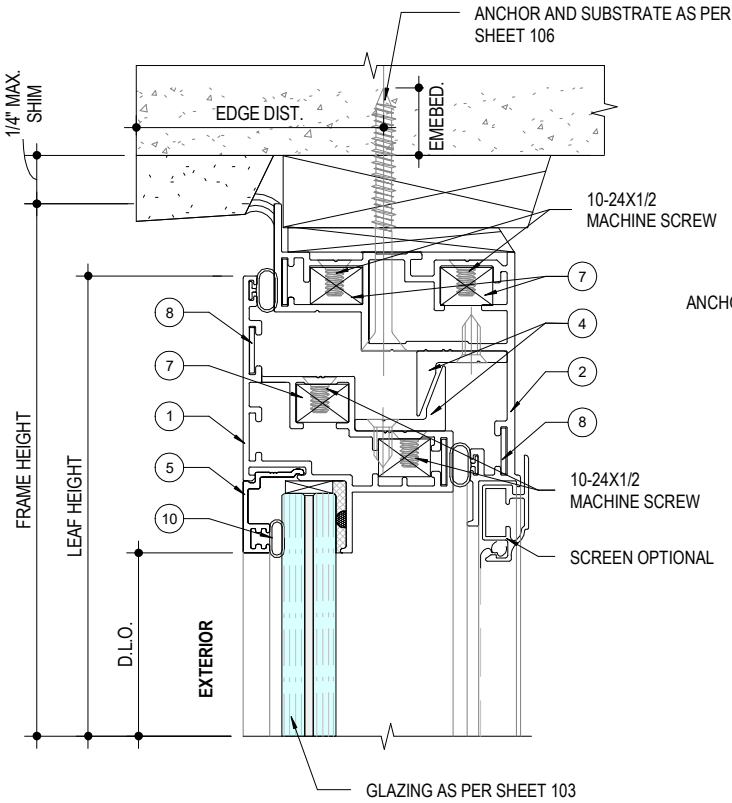


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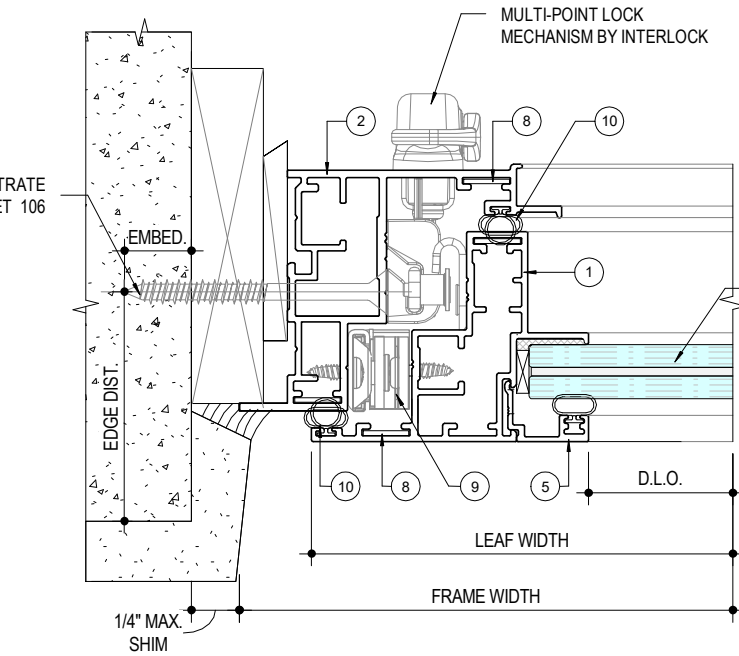


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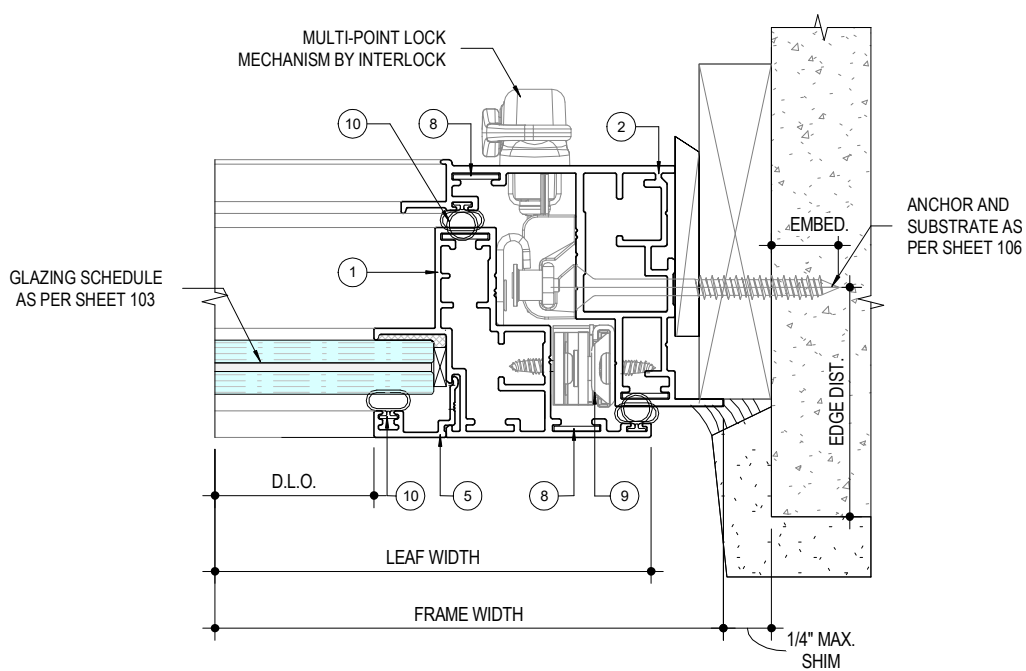
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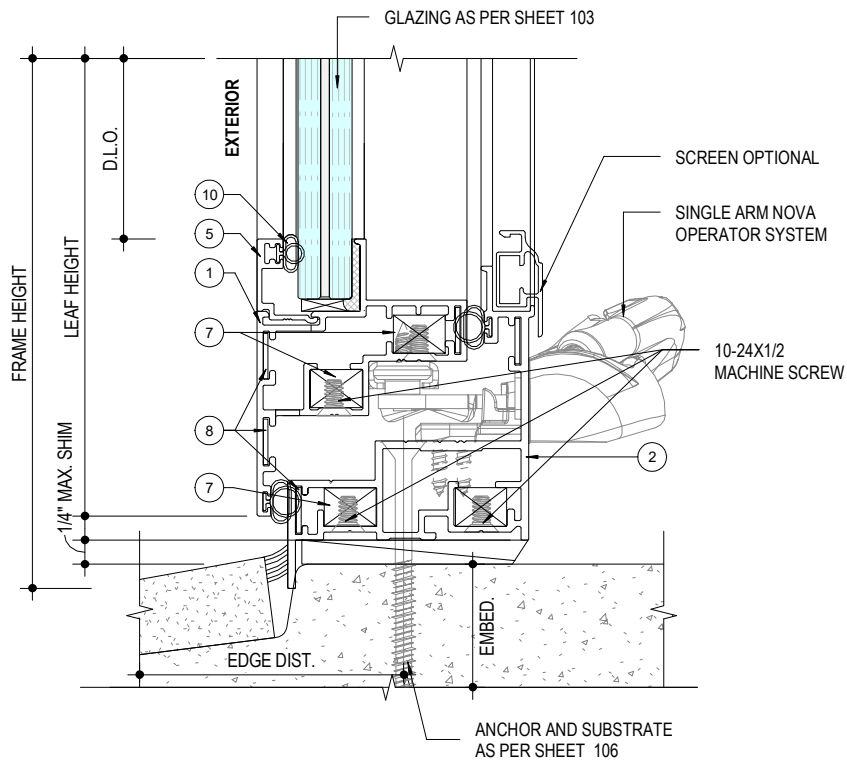
1
104
AWNING WINDOW HEAD DETAIL
NOT TO SCALE



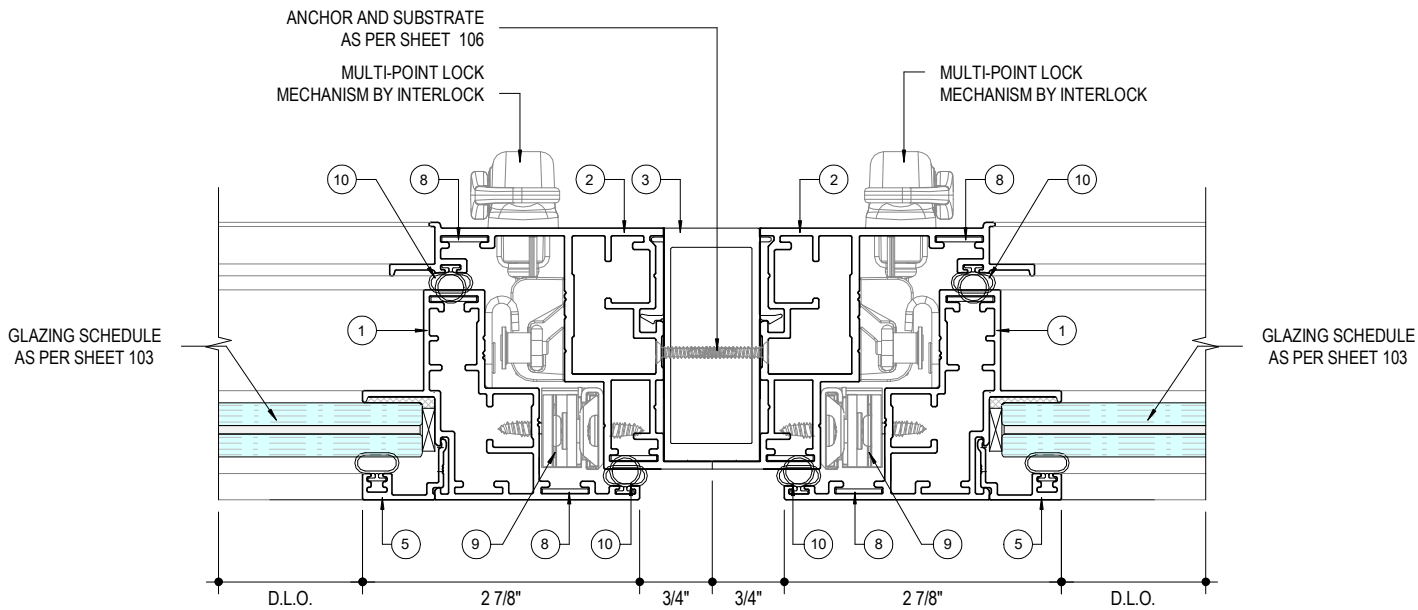
2
104
AWNING WINDOW JAMB DETAIL
NOT TO SCALE



3
104
AWNING WINDOW JAMB DETAIL
NOT TO SCALE



4
104
AWNING WINDOW SILL DETAIL
NOT TO SCALE



5
104
INTERMEDIATE MULLION DETAIL
NOT TO SCALE

ECO-NOVO SERIES 585 AWNING WINDOW

(LARGE AND SMALL MISSILE IMPACT RATED)



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8602 N.W. 80th St., Medley, FL 33166
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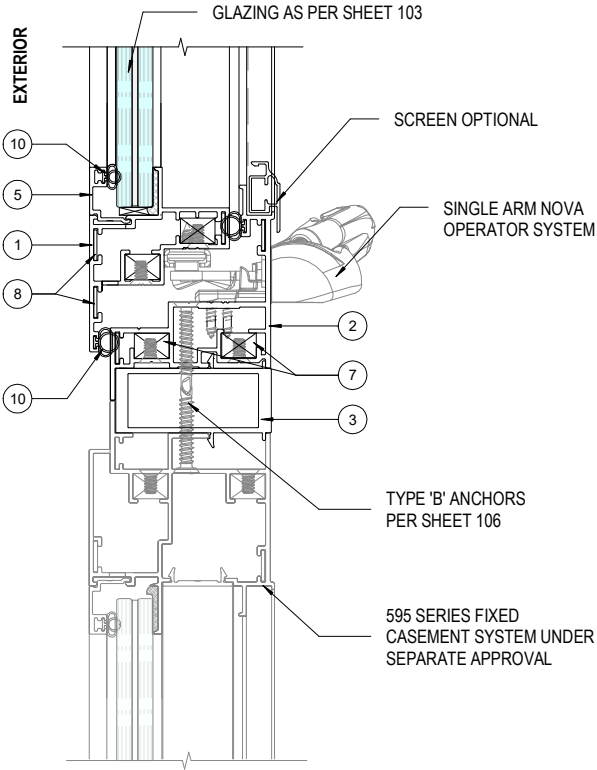


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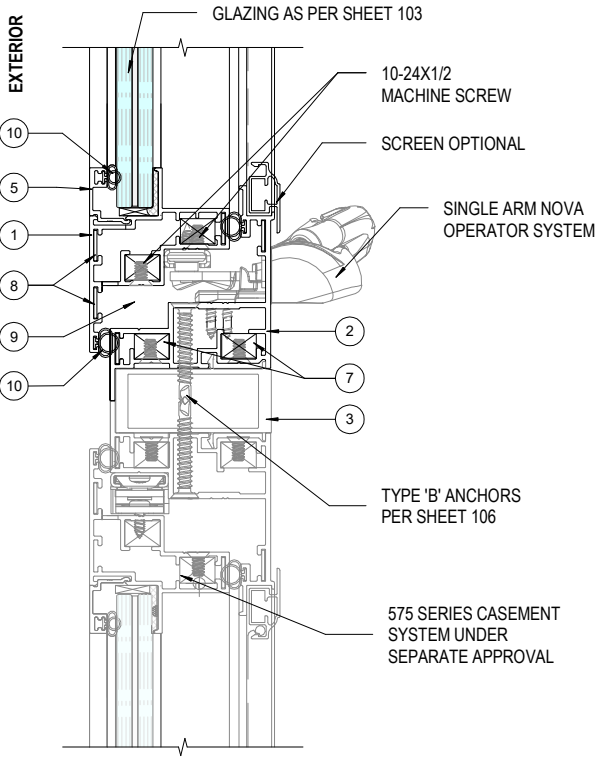
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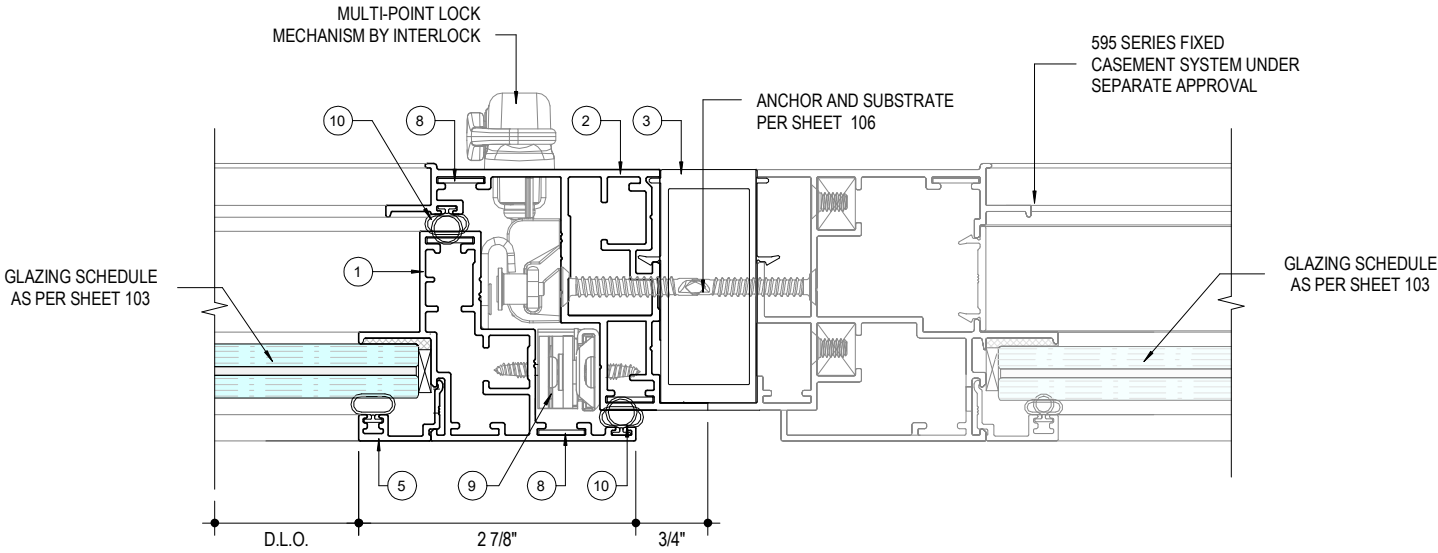
1
105

AWNING TO FIX - ALTERNATIVE INTERMEDIATE DETAIL
NOT TO SCALE



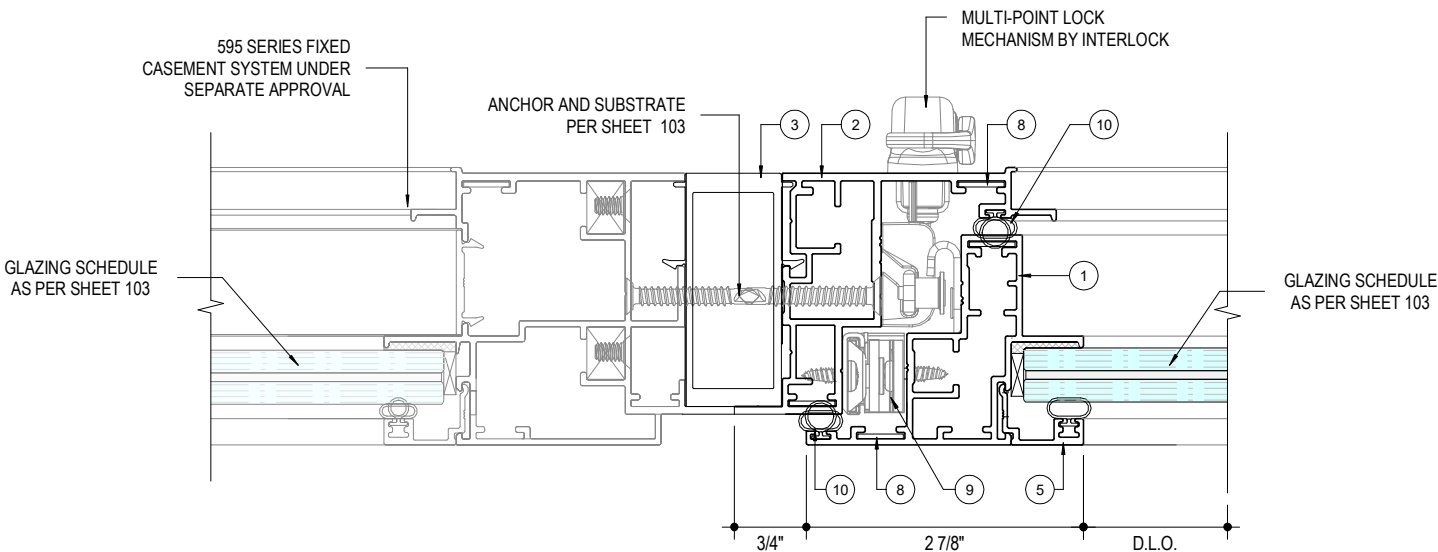
2
105

AWNING TO CASEMENT-ALTERNATIVE INTERMEDIATE DETAIL
NOT TO SCALE



3
105

MULLION-AWNING TO FIX CASEMENT
NOT TO SCALE



4
105

MULLION-FIX CASEMENT TO AWNING
NOT TO SCALE

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ECO-NOVO SERIES 585 AWNING WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)

ECO WINDOW SYSTEMS, LLC
8802 N.W. 80th ST. MEDLEY, FL 33186
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105 105 OF 108



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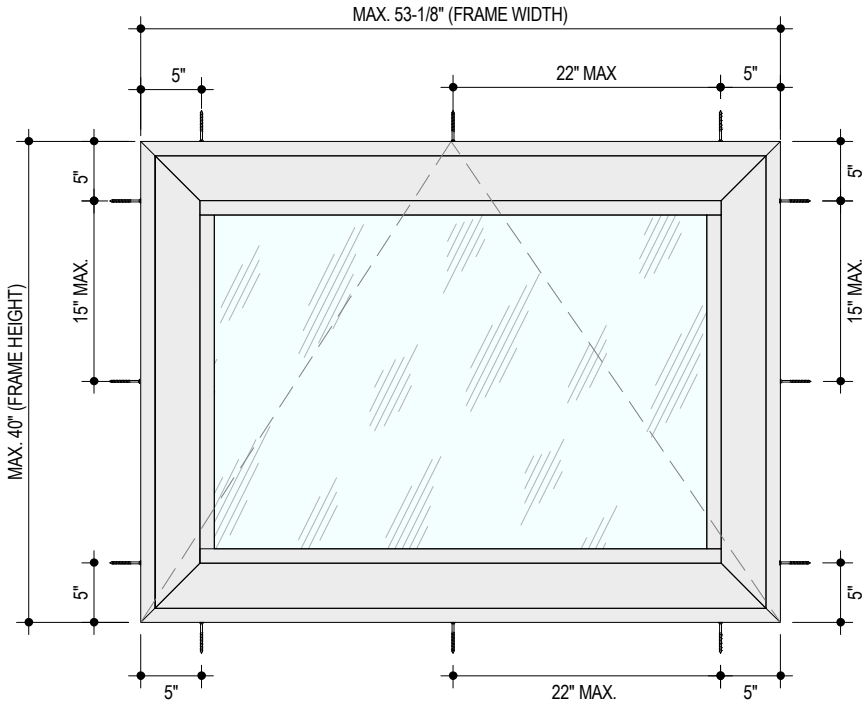
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1
106
TYPICAL ANCHORAGE LAYOUT
NOT TO SCALE

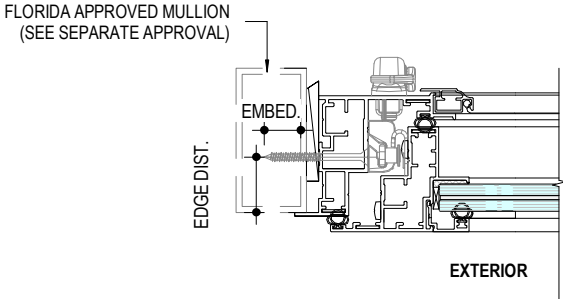
TYPICAL ANCHOR TYPES:

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

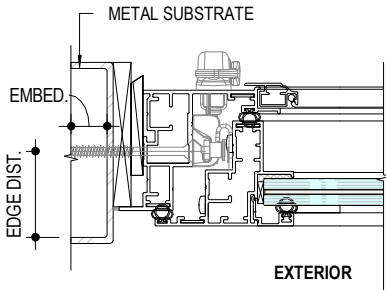
- INTO 2BY WOOD WITH 1-1/2"MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE AND MAX. 22" O.C. SPACING.
- DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND MAX. 22" O.C. SPACING
- DIRECTLY INTO HOLLOW MASONRY WITH 1-1/2" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND MAX. 22" O.C. SPACING

TYPE B - #12-24 SS SCREWS (GRADE 5 MIN)

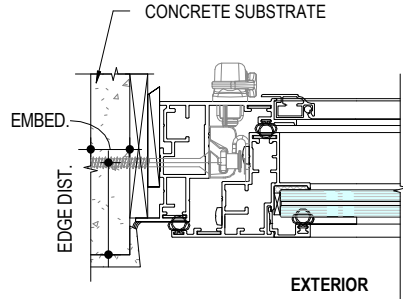
- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND MAX. 22" O.C. SPACING
- INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND MAX. 22" O.C. SPACING



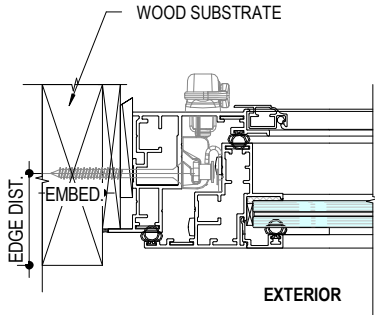
2
106
ANCHORAGE INTO ALUMINUM MULLION
NOT TO SCALE



4
106
ANCHORAGE INTO METAL STRUCTURE
NOT TO SCALE



3
106
ANCHORAGE INTO CONCRETE
NOT TO SCALE



5
106
ANCHORAGE INTO WOOD STRUCTURE
NOT TO SCALE

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD OR JAMBS SHOULD BE MIN. SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.) OR EQ.
- CONCRETE AT HEAD OR JAMBS SHOULD BE MIN. f'c= 3000 PSI
- C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 1500 PSI
- STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
- ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
- STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED BY OTHERS.

NOTE:

THE SUPPORTING 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.

PARTS LIST

FL#47218.1

NO.	PART #	QTY	DESCRIPTION	MATERIAL
1	E585	AS RQ'D	CASEMENT SASH	6063-T6
2	E586	AS RQ'D	CASEMENT FRAME	6063-T6
3	E588	AS RQ'D	UNCLIPPED MULLION	6063-T6
4	E590	AS RQ'D	SNUBBER	6063-T6
5	E278	AS RQ'D	GLAZING BEAD FOR 11/16 INSULATED -LAM. GLASS	6063-T6
6	E279	AS RQ'D	GLAZING BEAD FOR 9/16 LAMINATED GLASS	6063-T6
7	A571	16u.	ALUMINUM CORNER KEY	6063-T5
8	A572	16u.	STEEL FACE ALIGNMENT KEY	ST/STEEL
9	A573	2u	STORM 16" AWNING FRICTION HINGES	ST/STEEL
10	G283	AS RQ'D	BULB GASKET	EPDM
11	FLB-23	AS RQ'D	BUMP-ON SPACER	SILICONE
12	CL02-7045	1u	MULTI-POINT LOCKING MECHANISM BY INTERLOCK	VARIES
13	C011-7759	1u	ARM NOVA OPERATOR SYSTEM BY INTERLOCK	VARIES

LOCKS:
MULTI-POINT LOCKING SYSTEM BY INTERLOCK AT FRAME JAMB. LOCK OPERATOR AT 10" FROM SILL END FASTENED TO JAMBS WITH (2) #10 X 5/8 SMS

LOCKING BAR SECURED TO JAMB WITH GUIDES SPACED AT 18" O.C. MAX. EACH GUIDE FASTENED WITH (3) #10 X 1/2" PH FH SMS

STEEL KEEPERS AT VENT FACING LOCKING POINTS SPACED AT 18" O.C. MAX. EA. FASTENED WITH (2) #10 X 1/2" PH FH SMS

HINGES:
STORMB16 FRICTION HINGES LOCATED AT JAMBS TOP CORNER FASTENED TO FRAMES WITH (3) #10 X 1/2 PH FH SELF DRILLING SCREWS FASTENED TO VENT WITH (3) #10 X 1/2 PH FH

OPERATOR:
SINGLE ARM OPERATOR BY INTERLOCK LOCATED AT MIDSPAN OF FRAME SILL FASTENED WITH (8) #8 X 1/2 PH FH SDS.



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drawing no.	JA-2042-24	drawn by:	AK
date:	12-27-24	check by:	BS
REVISION			
No.	DATE	BY	DESCRIPTION
1	12/27/2024	AK	UPDATE AS PER DBPR COMMENT

ECO-NOVO SERIES 585 AWNING WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)

ECO WINDOW SYSTEMS, LLC.
8602 N.W. 80th ST. MEDLEY, FL 33186
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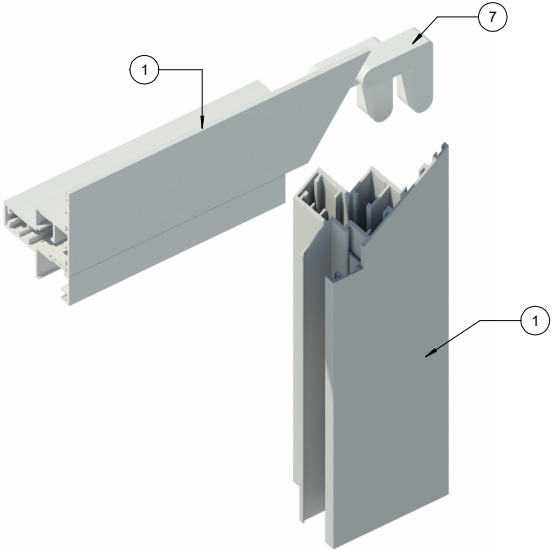


SEALED: 12/27/2024

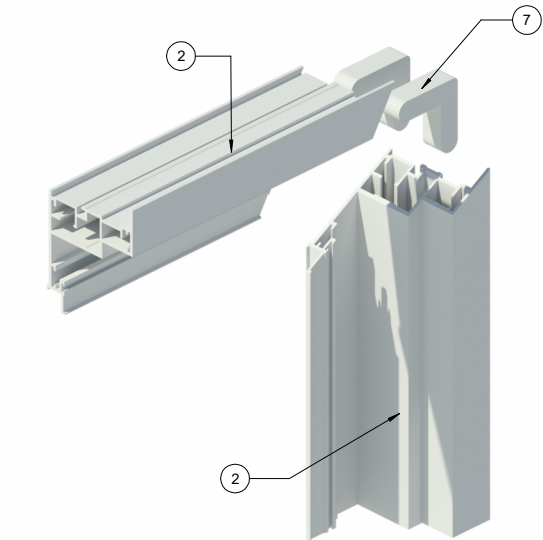


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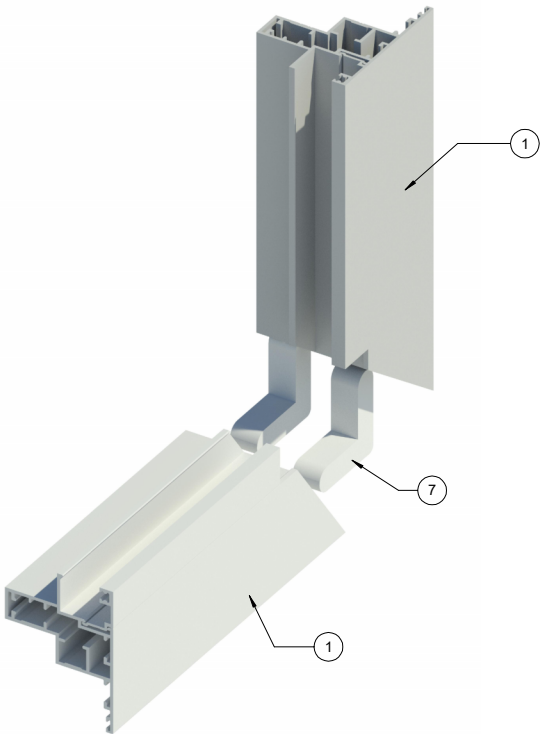
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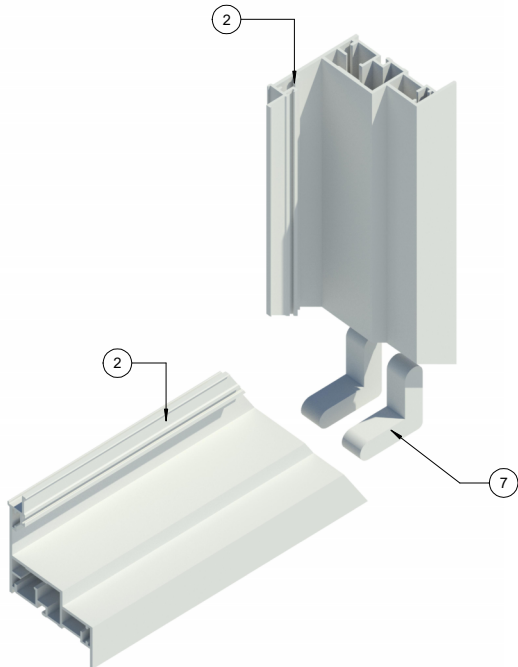
TOP CORNER LEAF ASSEMBLY DETAIL



TOP CORNER FRAME ASSEMBLY DETAIL



BOTTOM CORNER LEAF ASSEMBLY DETAIL



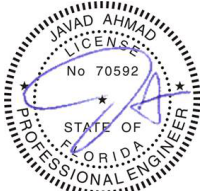
BOTTOM CORNER FRAME ASSEMBLY DETAIL

drawing no.	JA-2042-24	drawn by:	AK
date:	12-27-24	check by:	BS
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