



Product Approval
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Application Detail

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SECRETARY

FL #	FL47225												
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	Fixed												
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	FL47225_R0_COI_Certificate_of_Independence_JA-PE.pdf												
Referenced Standard and Year (of Standard)	<table border="0"> <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													

Product Approval Method

Method 1 Option D

Date Submitted 12/20/2024
Date Validated 12/31/2024
Date Pending FBC Approval 01/01/2025
Date Approved 02/11/2025

Summary of Products

FL #	Model, Number or Name	Description
47225.1	ECO-NOVO Series 595 Fix Casement Window	Large and Small Missile Impact Resistant Fix Casement 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 FL47225_R0_II ECO-NOVO SERIES 595 FIX CASEMENT WINDOW-JA-2042-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47225_R0_AE ECO-NOVO Series 595 Fix Casement Window-PA EVR-SS1.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:

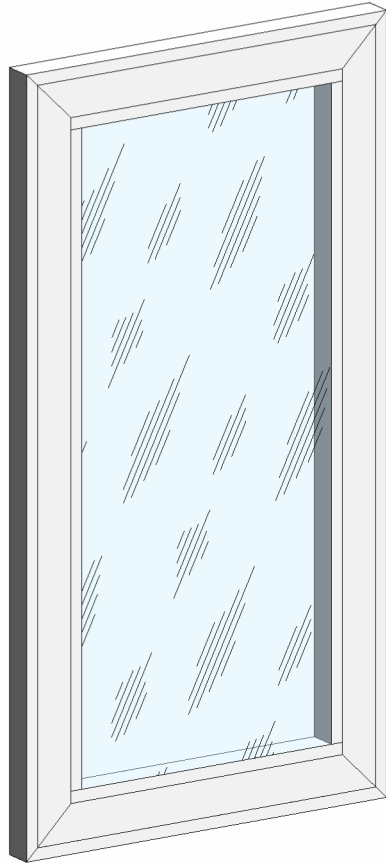
SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATION
103	GLAZING DETAILS
104	SECTIONAL DETAILS
105	SECTIONAL DETAILS
106	ANCHORAGE LAYOUT
107	PARTS LIST
108	FRAME ASSEMBLY

NOTE: THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED ECO WINDOW SYSTEM, 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.

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).
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

ECO WINDOW SYSTEMS
ECO-NOVO SERIES: 595 FIX CASEMENT WINDOW SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



FIX CASEMENT WINDOW SYSTEM

MAXIMUM DESIGN LOAD RATING = ± 60 PSF
(FOR SIZES SHOWN OR SMALLER)

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 AND COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

FL#47225.1



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Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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

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

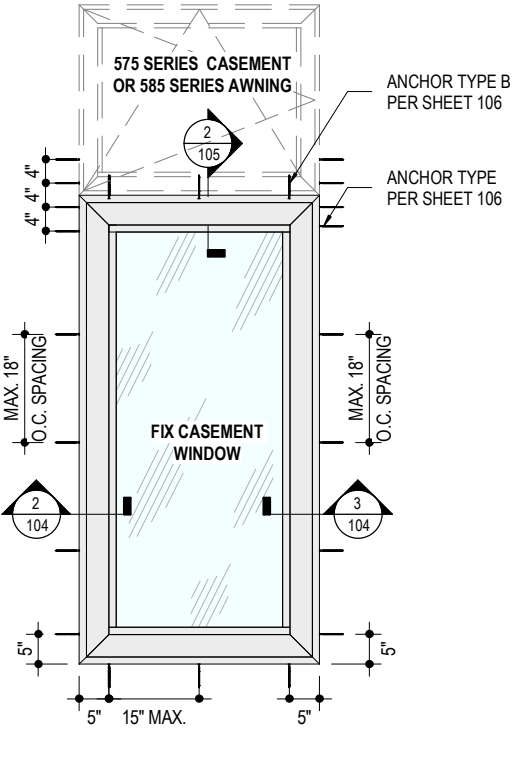
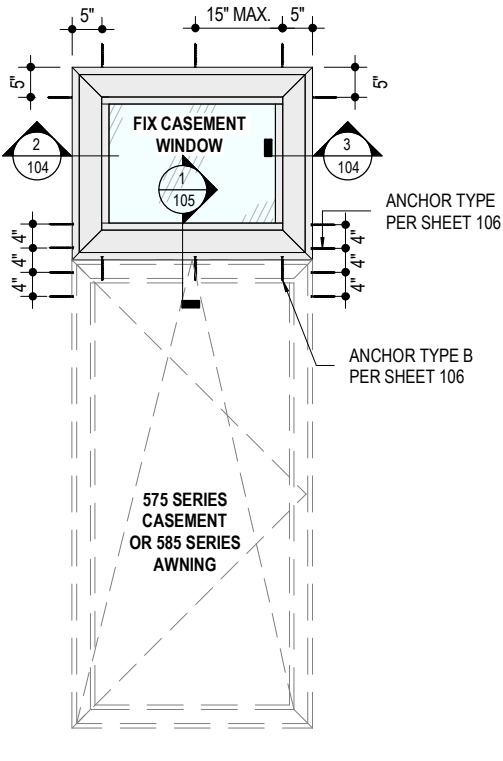
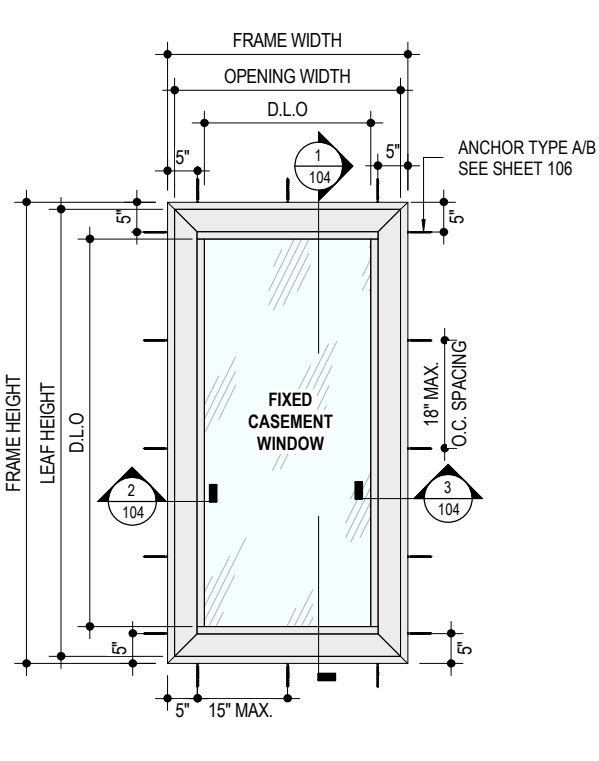
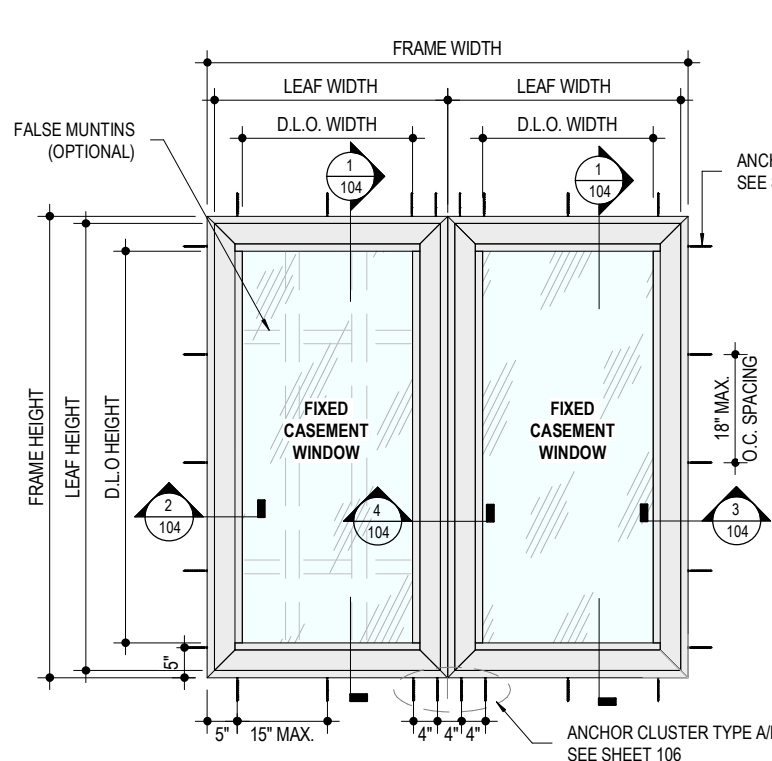
ECO-NOVO SERIES: 595 FIX CASEMENT WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)



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8502 N.W. 80th STREET, MEDLEY, FL 33166
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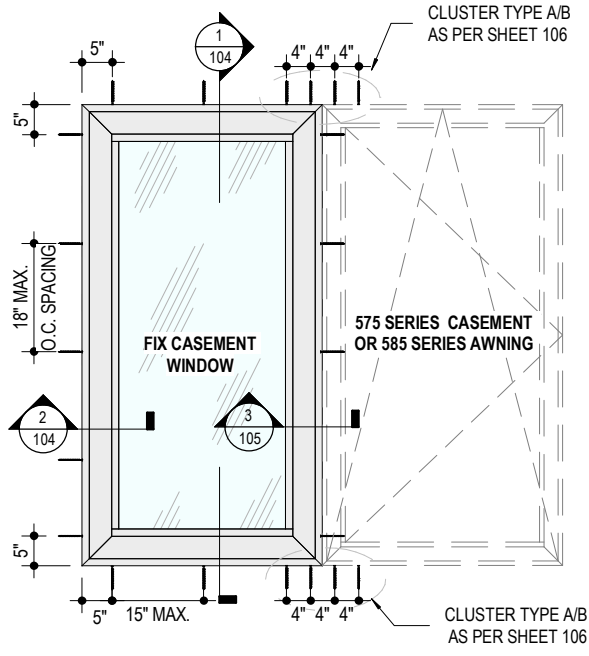
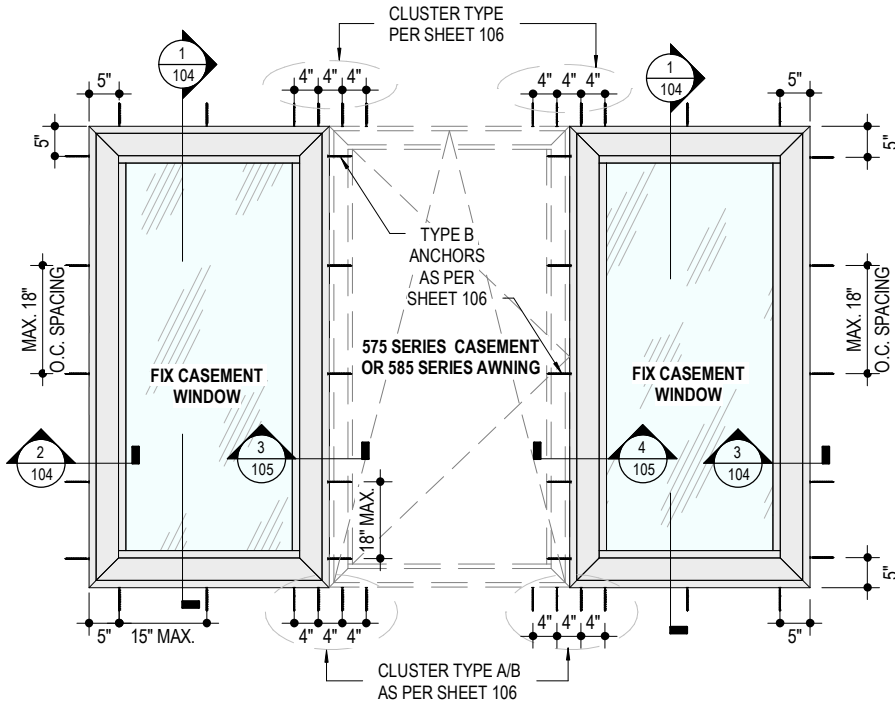
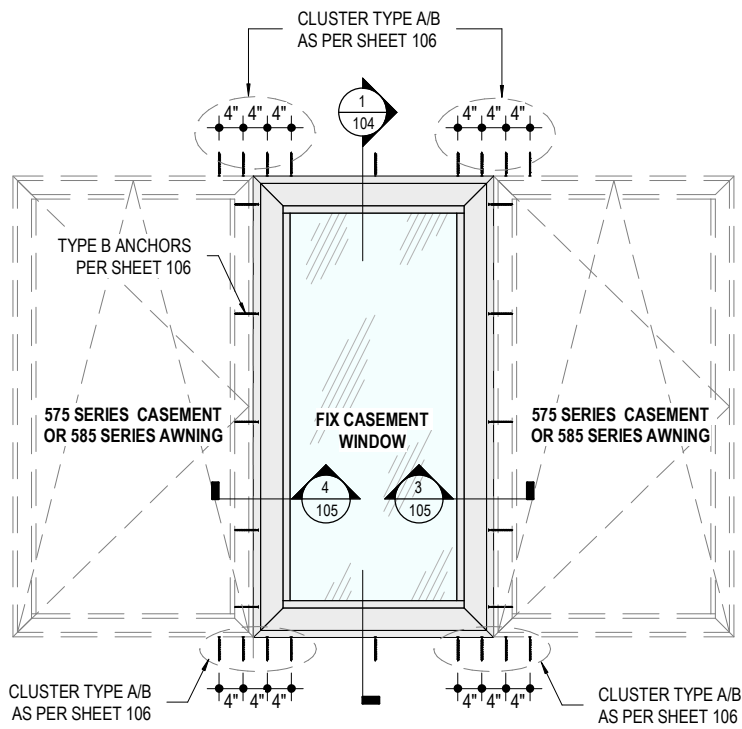


1
102
TYPICAL FIX CASEMENT ELEVATION
NOT TO SCALE

2
102
TYPICAL SINGLE FIX CASEMENT ELEVATION
NOT TO SCALE

4
102
ALTERNATIVE ELEVATION 1
NOT TO SCALE

3
102
ALTERNATIVE ELEVATION 2
NOT TO SCALE



5
102
ALTERNATIVE ELEVATION 3
NOT TO SCALE

6
102
ALTERNATIVE ELEVATION 4
NOT TO SCALE

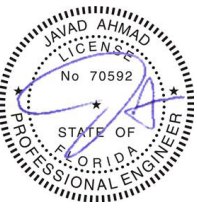
7
102
ALTERNATIVE ELEVATION 5
NOT TO SCALE



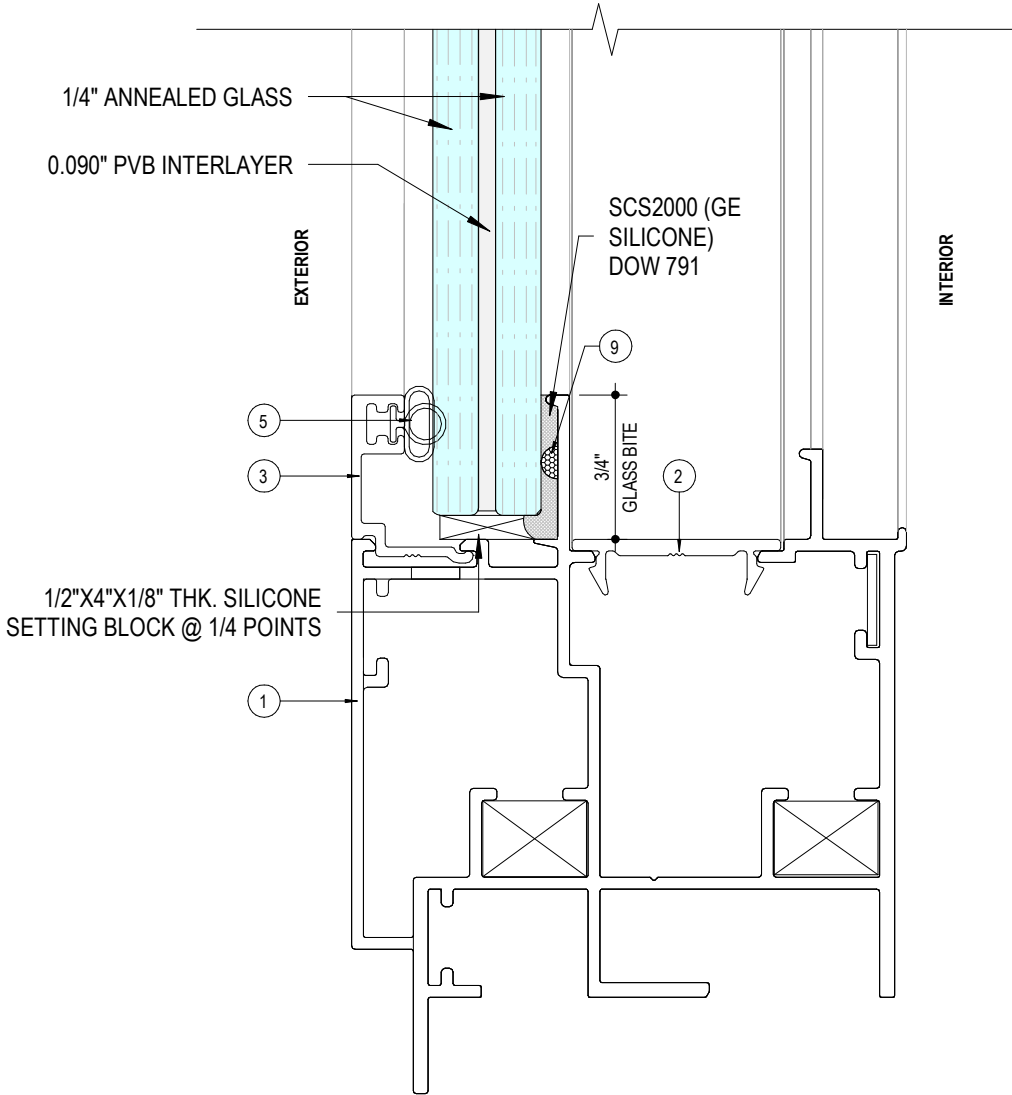
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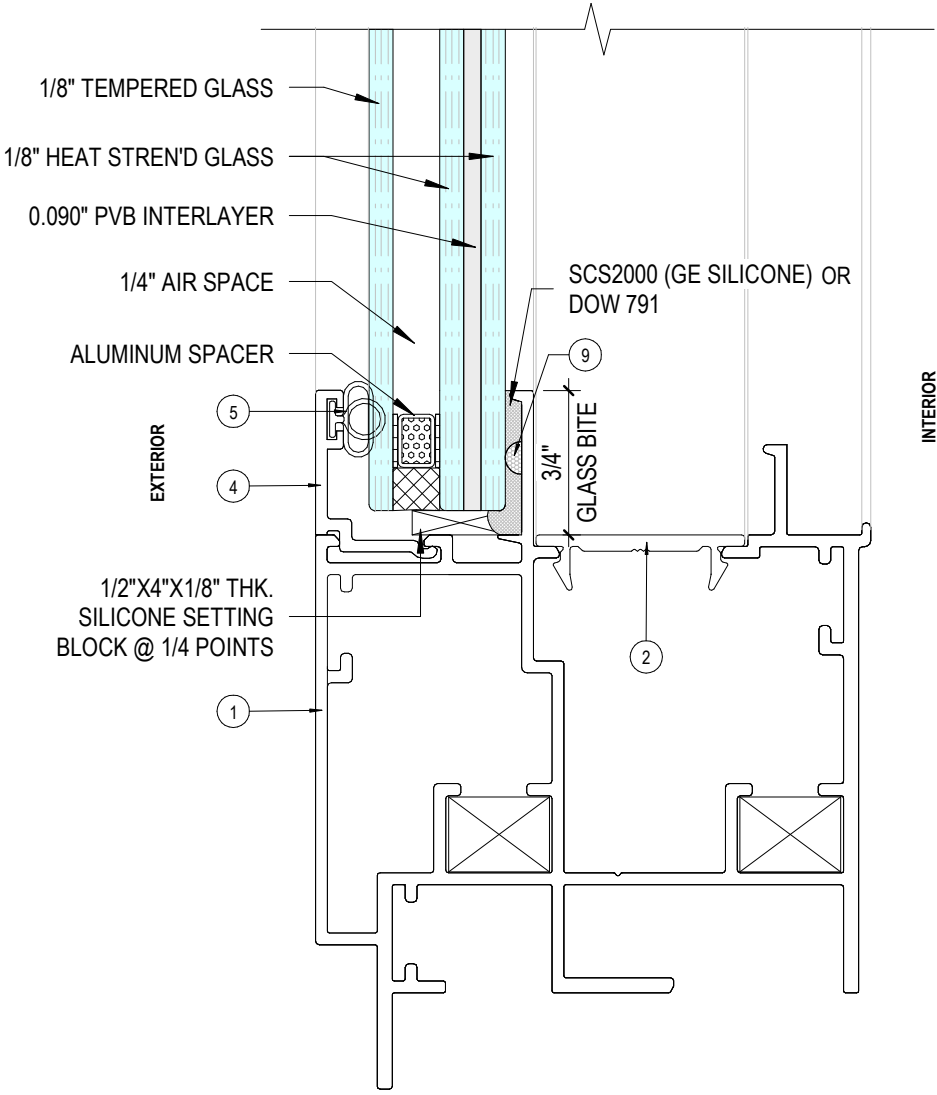
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1 9/16" LAMINATED GLASS UNIT
103 NOT TO SCALE



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

MAXIMUM DESIGN LOAD RATING = ± 60 PSF
(FOR SIZES SHOWN OR SMALLER)

- MAX. FRAME HEIGHT = 76"
MAX. FRAME WIDTH:
• FOR DOUBLE FIX CASEMENT = 80"
• FOR SINGLE FIX CASEMENT = 40"
MAX. D.L.O HEIGHT = FRAME HEIGHT - 8"
MAX. D.L.O WIDTH = FRAME WIDTH - 8"



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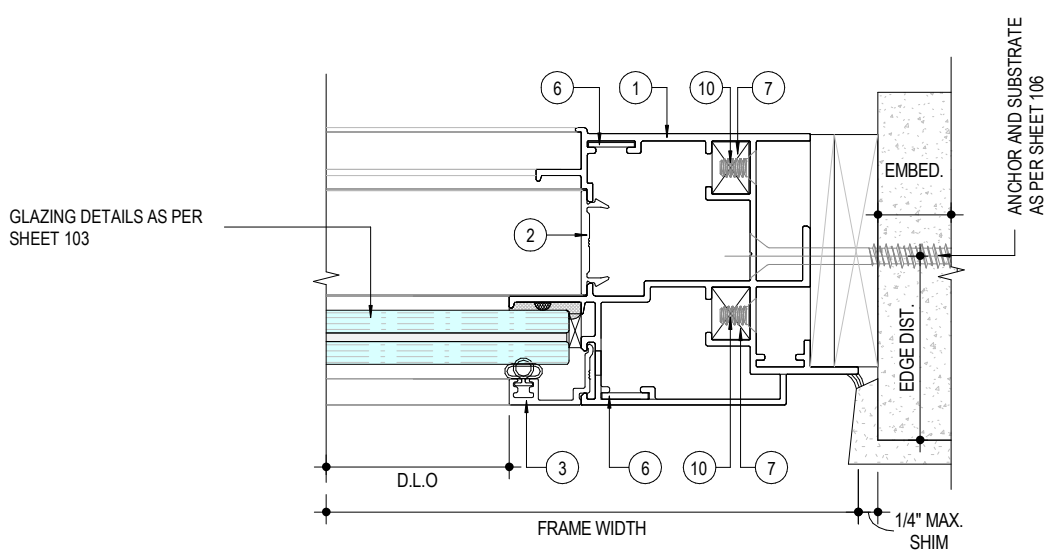
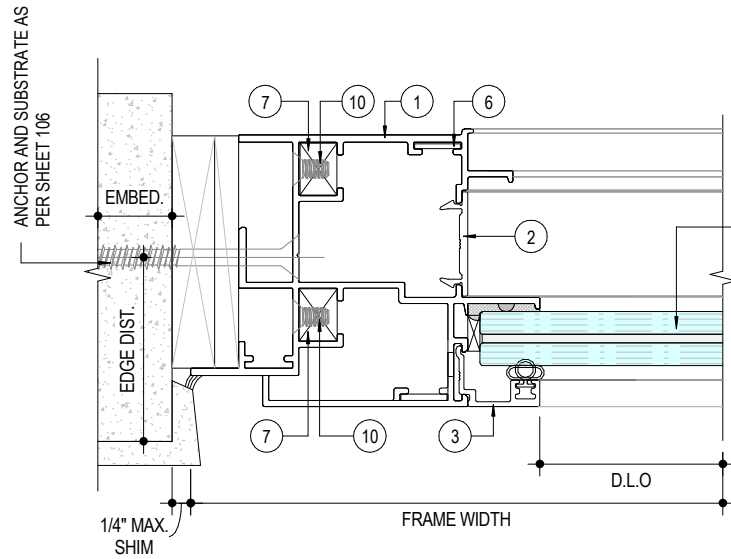
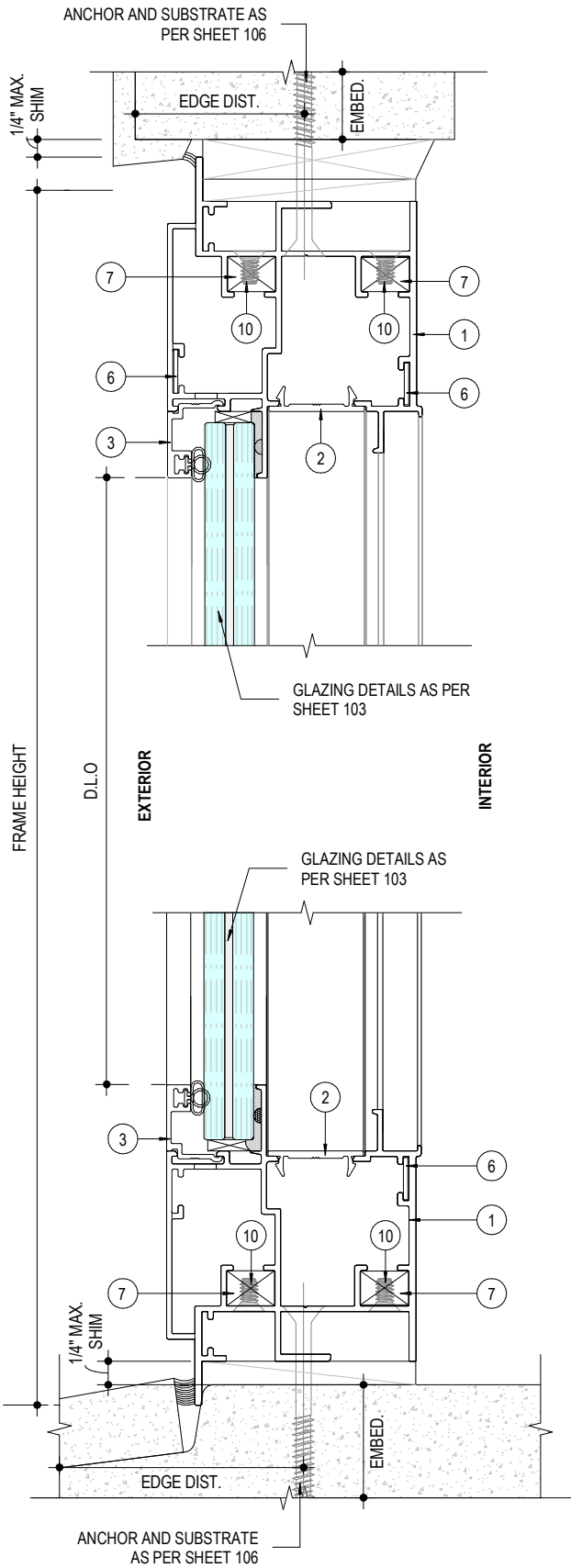
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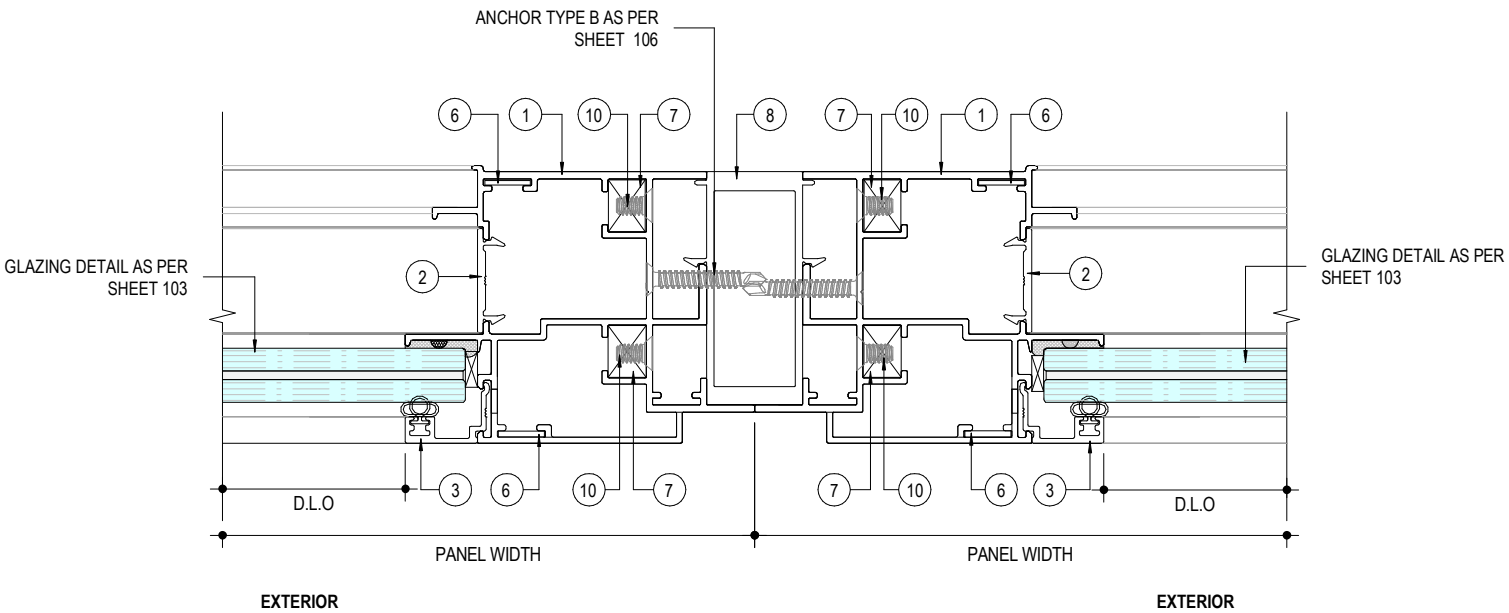


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2
104
FIX CASEMENT JAMB DETAIL 1
NOT TO SCALE

3
104
FIX CASEMENT JAMB DETAIL 2
NOT TO SCALE



4
104
FIX CASEMENT INTERMEDIATE MULLION DETAIL
NOT TO SCALE

1
104
FIXED CASEMENT SILL AND HEAD DETAIL
NOT TO SCALE



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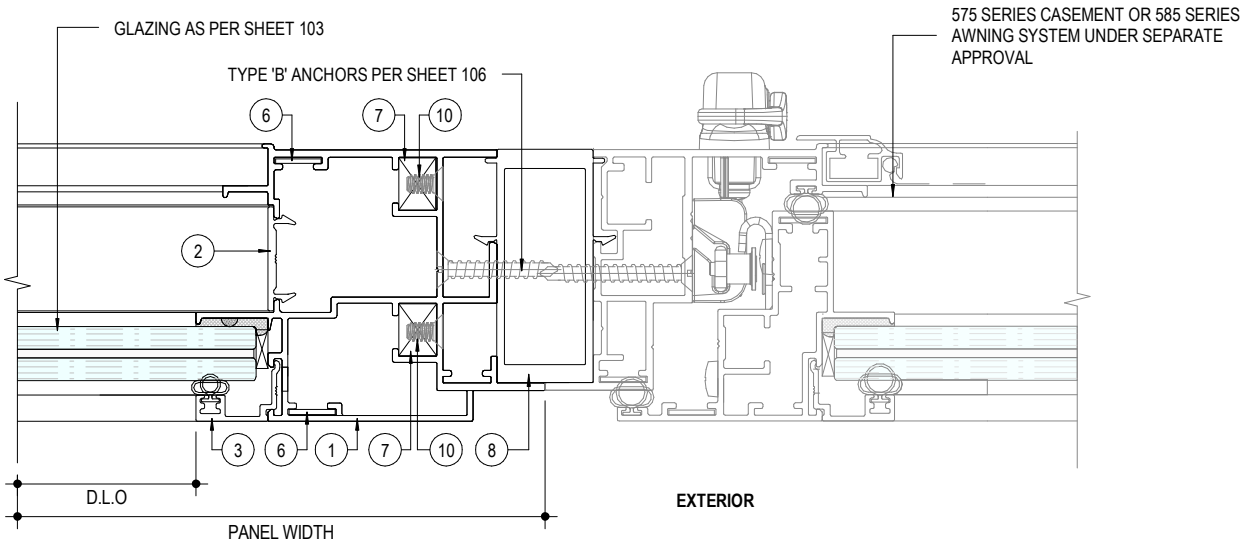
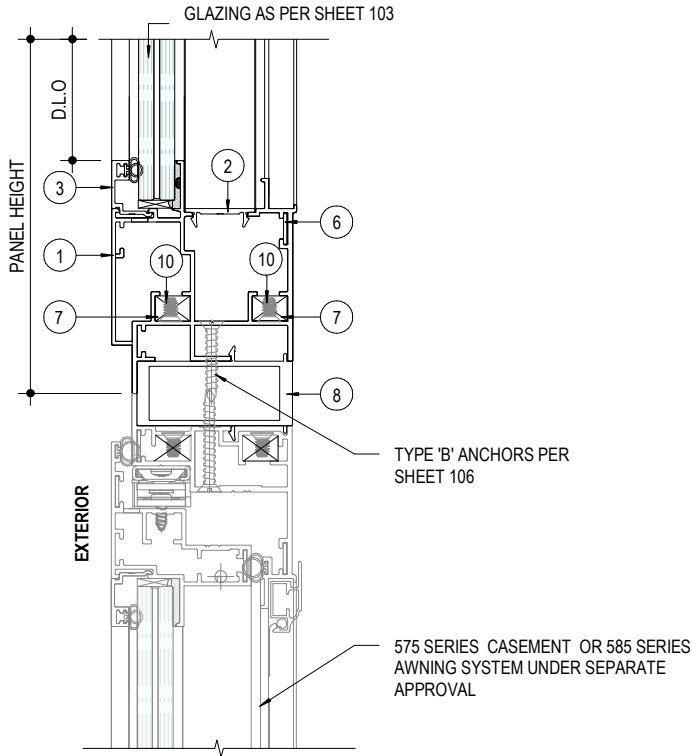


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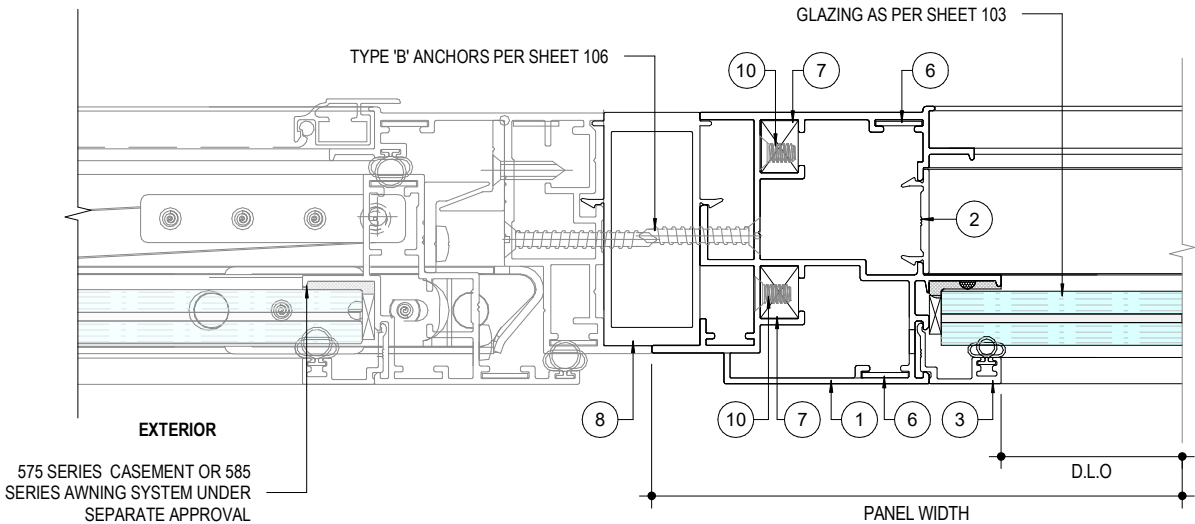
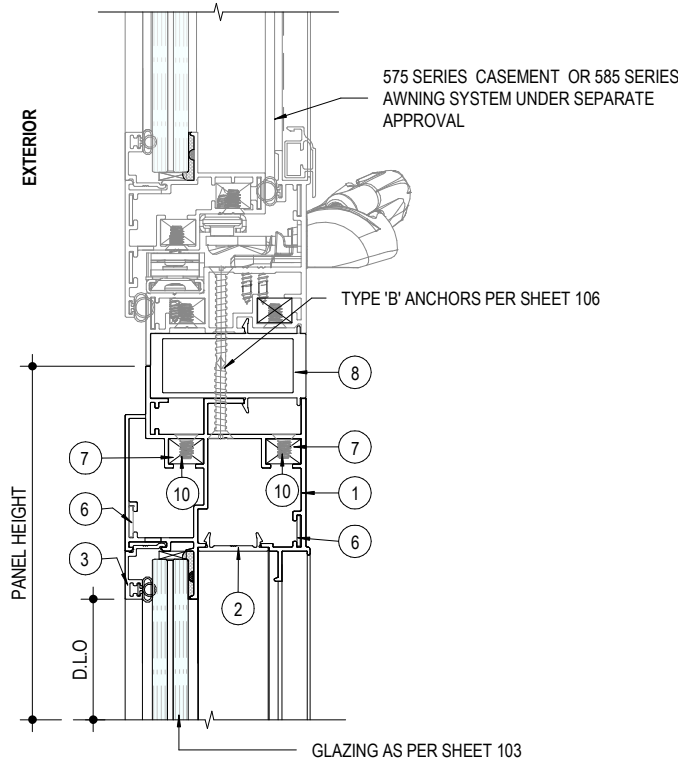
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1
105
INTERMEDIATE HORIZONTAL MULLION DETAIL 1
NOT TO SCALE

3
105
FIX CASEMENT TO ALTERNATIVE SYSTEM - INTERMEDIATE DETAIL
NOT TO SCALE



2
105
INTERMEDIATE HORIZONTAL MULLION DETAIL 2
NOT TO SCALE

4
105
ALTERNATIVE SYSTEM TO FIX CASEMENT - INTERMEDIATE DETAIL
NOT TO SCALE

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No.	DATE				

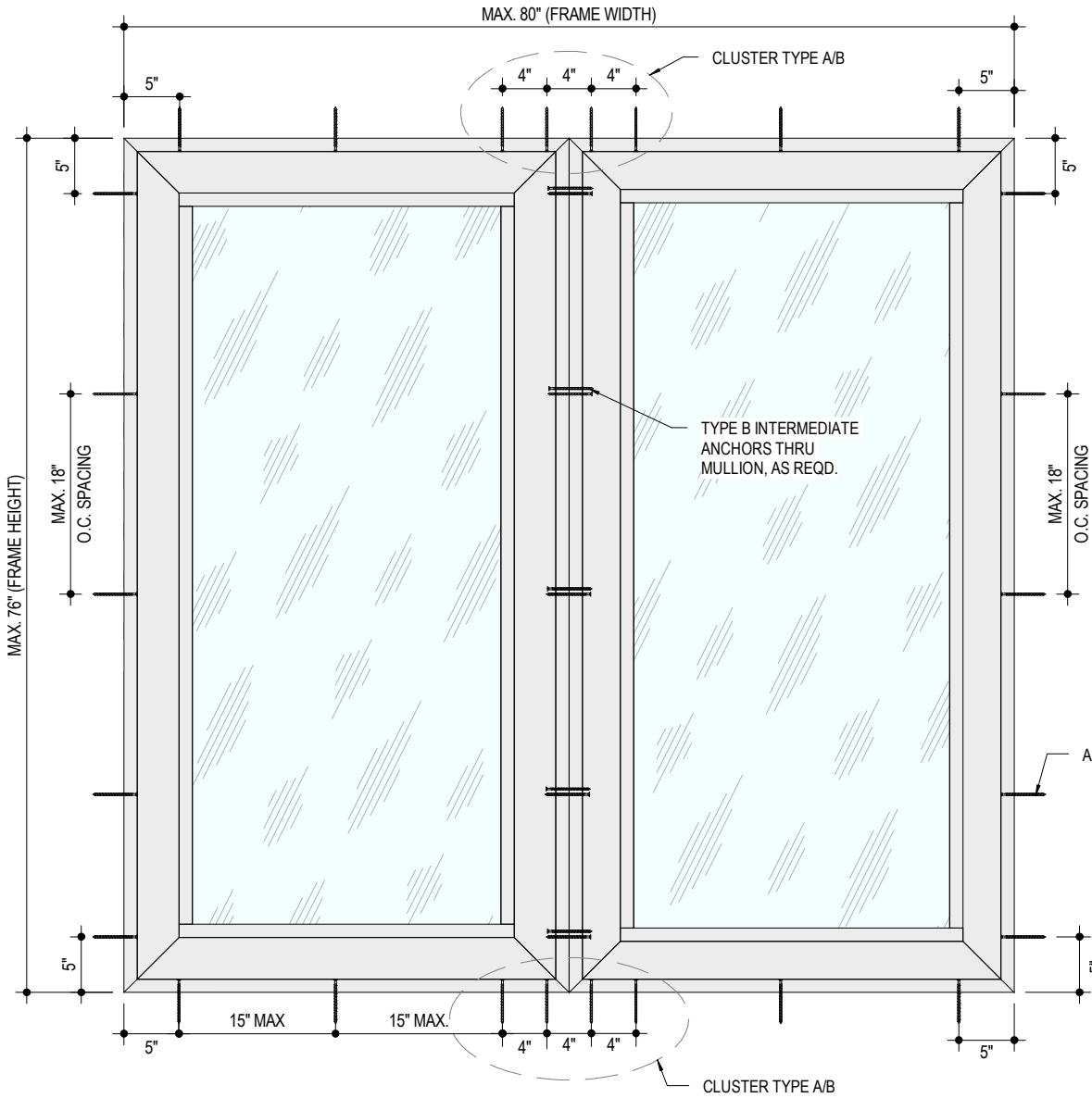
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1
106
TYPICAL ANCHORAGE LAYOUT
NOT TO SCALE

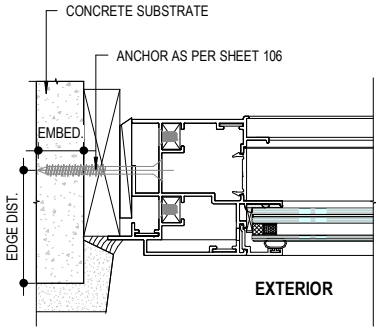
TYPICAL ANCHOR TYPES:

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

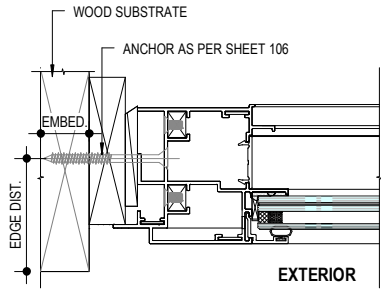
- INTO 2BY WOOD WITH 1-1/2" MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE AND 18" O.C. SPACING @ JAMB AND 15" O.C. SPACING @ SILL & HEAD
- DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 18" O.C. SPACING @ JAMB AND 15" O.C. SPACING @ SILL & HEAD
- DIRECTLY INTO HOLLOW MASONRY WITH 1-1/2" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND 18" O.C. SPACING @ JAMB AND 15" O.C. SPACING @ SILL & HEAD

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

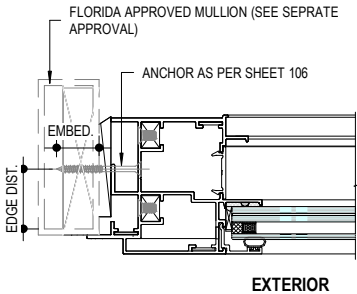
- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 18" O.C. SPACING @ JAMB AND 15" O.C. SPACING @ SILL & HEAD
- INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 18" O.C. SPACING @ JAMB AND 15" O.C. SPACING @ SILL & HEAD



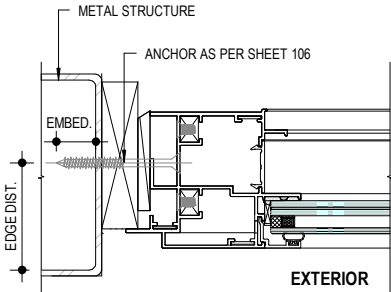
2
106
ANCHORAGE INTO CONCRETE
NOT TO SCALE



3
106
ANCHORAGE INTO WOOD STRUCTURE
NOT TO SCALE



4
106
ANCHORAGE INTO ALUMINUM MULLION
NOT TO SCALE



5
106
ANCHORAGE INTO METAL 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.



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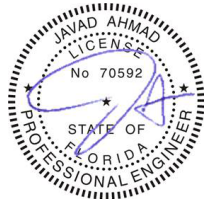
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PARTS LIST

NO.	PART #	QTY	DESCRIPTION	MATERIAL
1	E587	AS RQ'D	FIX CASEMENT FRAME	6063-T6
2	E677	AS RQ'D	FIX CASEMENT SNAP-IN COVER	6063-T6
3	E278	AS RQ'D	GLAZING BEAD FOR 11/16 INSULATED -LAM. GLASS	6063-T6
4	E279	AS RQ'D	GLAZING BEAD FOR 9/16 LAMINATED GLASS	6063-T6
5	G283	AS RQ'D	BULB GASKET	EPDM
6	A572	16u.	STEEL FACE ALIGNMENT KEY	ST/STEEL
7	A571	16u.	ALUMINUM CORNER KEY	6063-T5
8	E588	AS RQ'D	CASEMENT MULLION	6063-T6
9	FLB-23	AS RQ'D	BUMP-ON SPACER	SILICONE
10	-	AS RQ'D	10-24X1/2 MACHINE SCREW	SS

FL#47225.1



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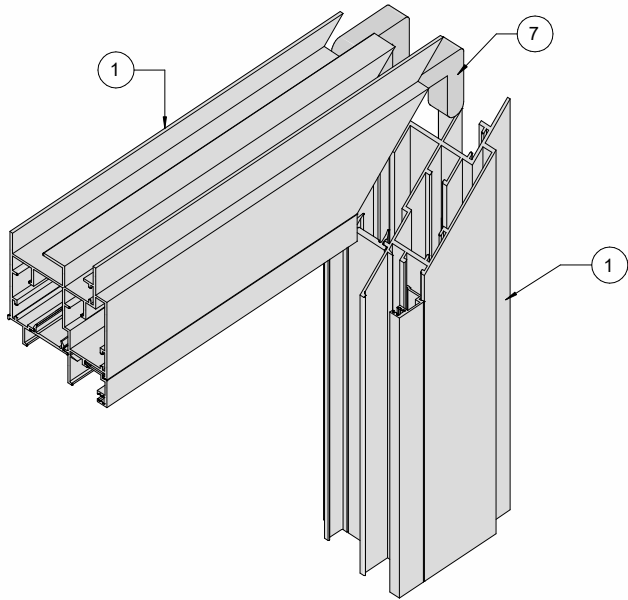
ECO WINDOW SYSTEMS, LLC.

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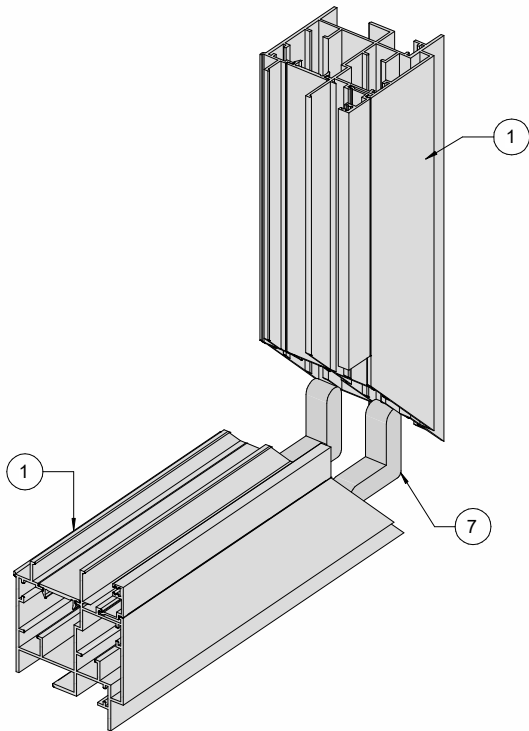
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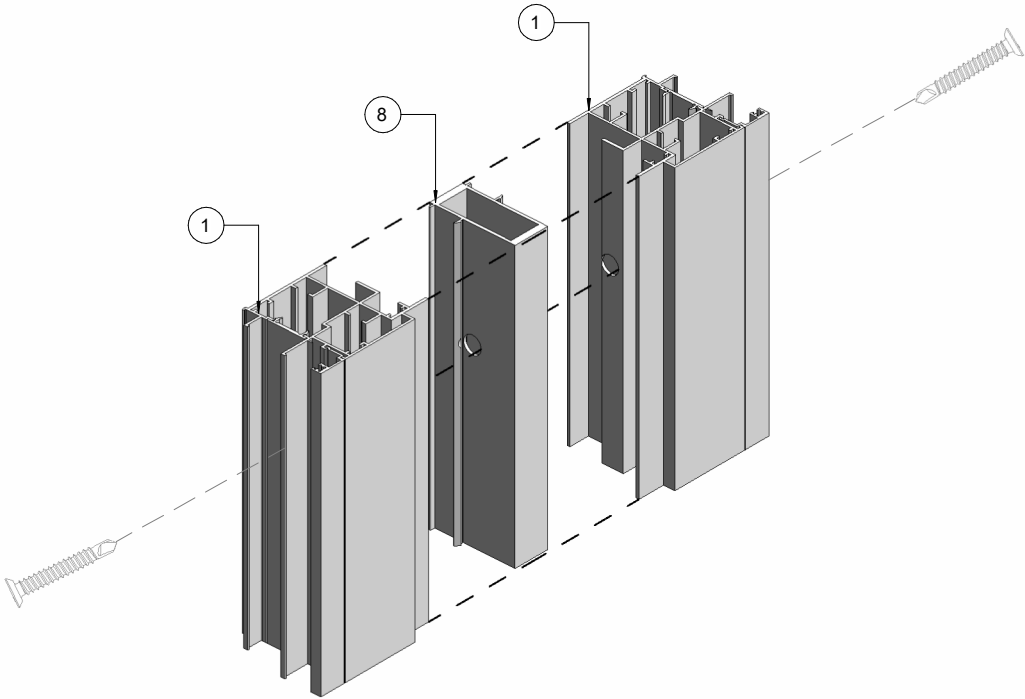
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TOP CORNER FRAME ASSEMBLY DETAIL



BOTTOM CORNER FRAME ASSEMBLY DETAIL



INTERMEDIATE CASEMENT MULLION ASSEMBLY DETAIL



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