

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
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SECRETARY

FL #	FL47216												
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	Casement												
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	FL47216_R0_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>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>	Standard	Year	ASTM E283	2019	ASTM E331	2000	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year												
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

01/01/2025

Date Approved

02/11/2025

Summary of Products

FL #	Model, Number or Name	Description
47216.1	ECO-NOVO Series 575 Casement Window	Large and Small Missile Impact Resistant 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 FL47216_R0_II ECO-NOVO Series 575 Casement Window-JA-2042-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47216_R0 AE ECO-NOVO Series 575 Casement Window-PA EVR-SS1.pdf Created by Independent Third Party: Yes

Back

Next

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Product Approval Accepts:



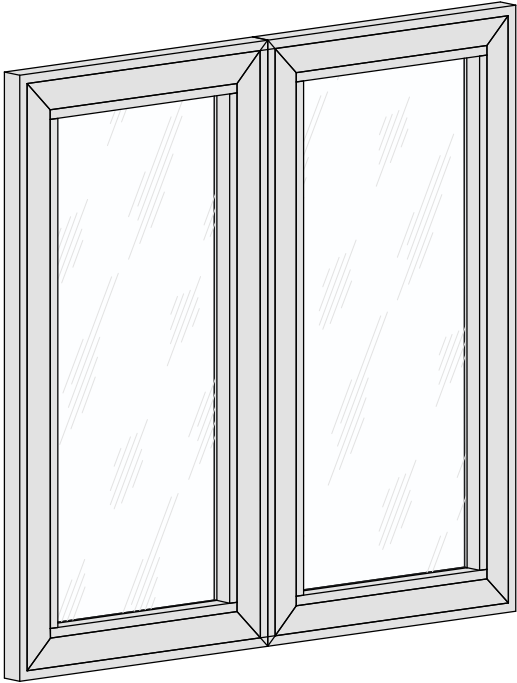
SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATIONS
103	GLAZING DETAILS
104	SECTIONAL DETAILS
105	SECTIONAL DETAILS
106	ANCHORAGE LAYOUT
107	PARTS LIST
108	FRAME ASSEMBLY

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

ECO WINDOW SYSTEM

ECO-NOVO SERIES 575 CASEMENT WINDOW SYSTEM

(LARGE AND SMALL MISSILE IMPACT RATED)



CASEMENT 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 SYSTEM, LLC
8502 NW 80TH STREET, MEDLEY, FL 33166
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER FL# 47216.1

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 **102** 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.

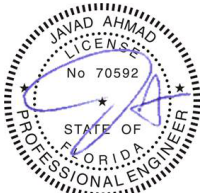
FL#47216.1



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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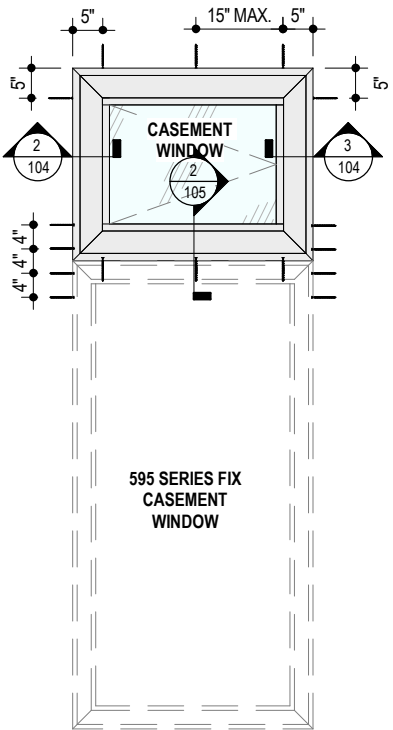
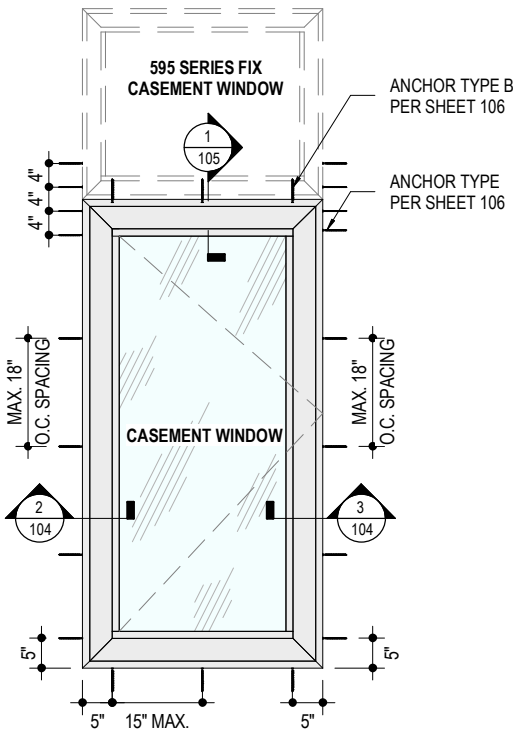
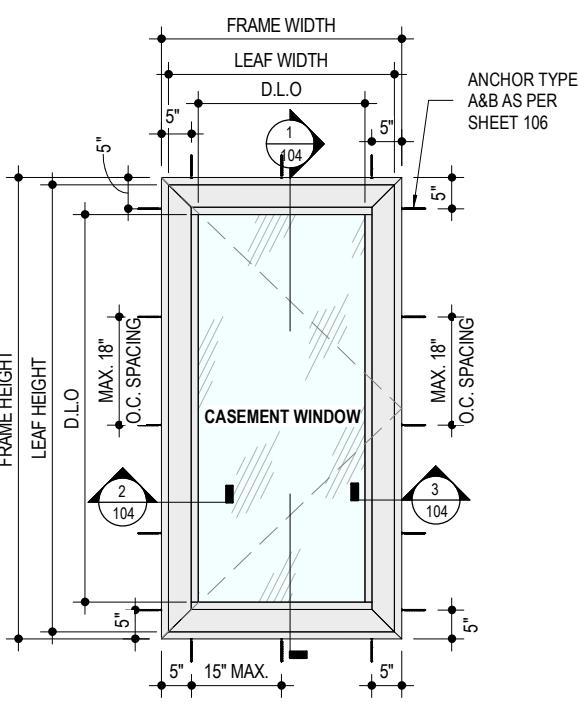
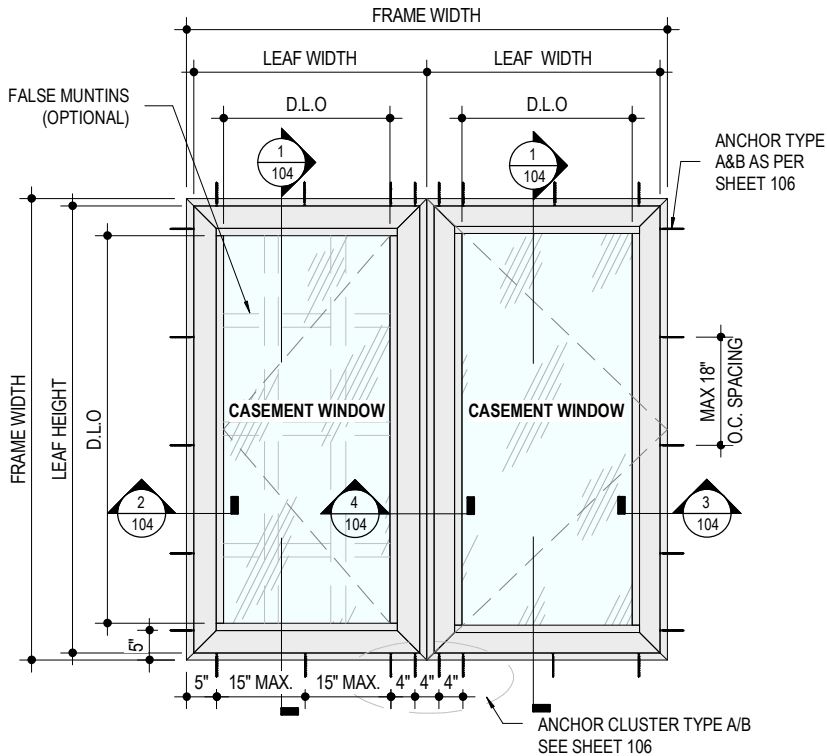
ECO-NOVO SERIES: 575 CASEMENT WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)



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TYPICAL ELEVATIONS

FL#47216.1



1
102
TYPICAL CASEMENT ELEVATION
NOT TO SCALE

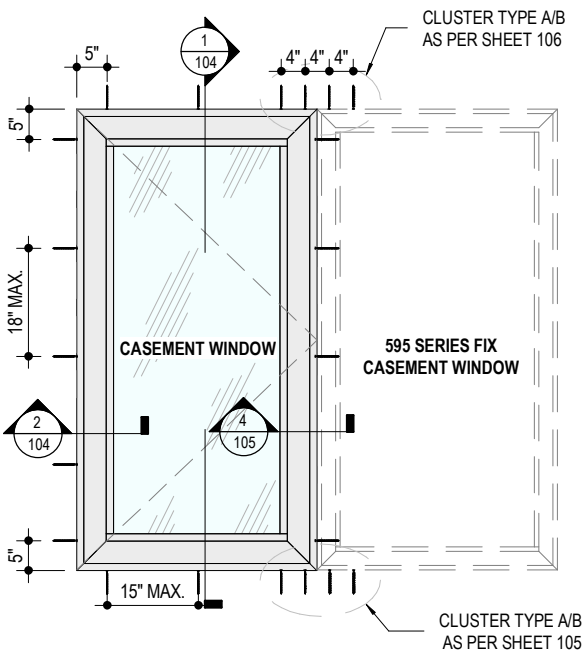
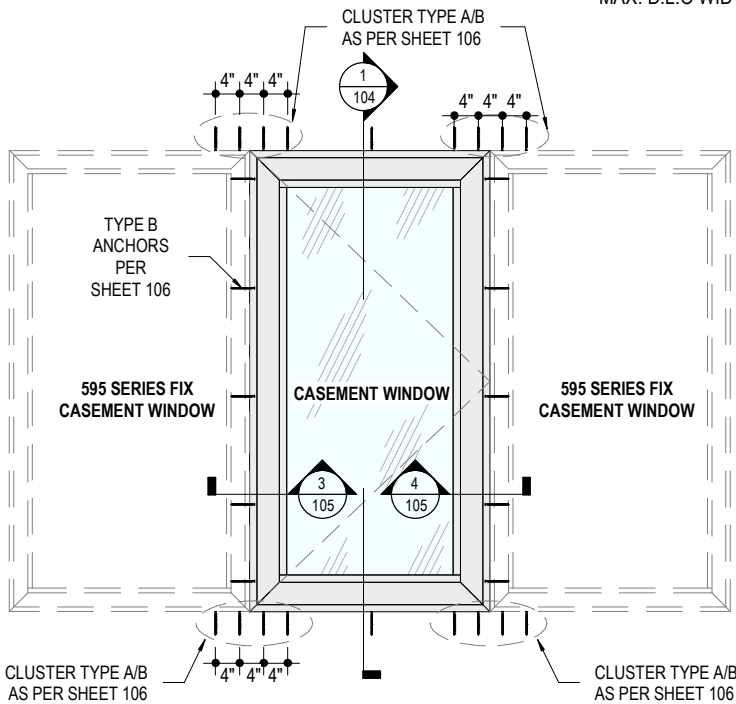
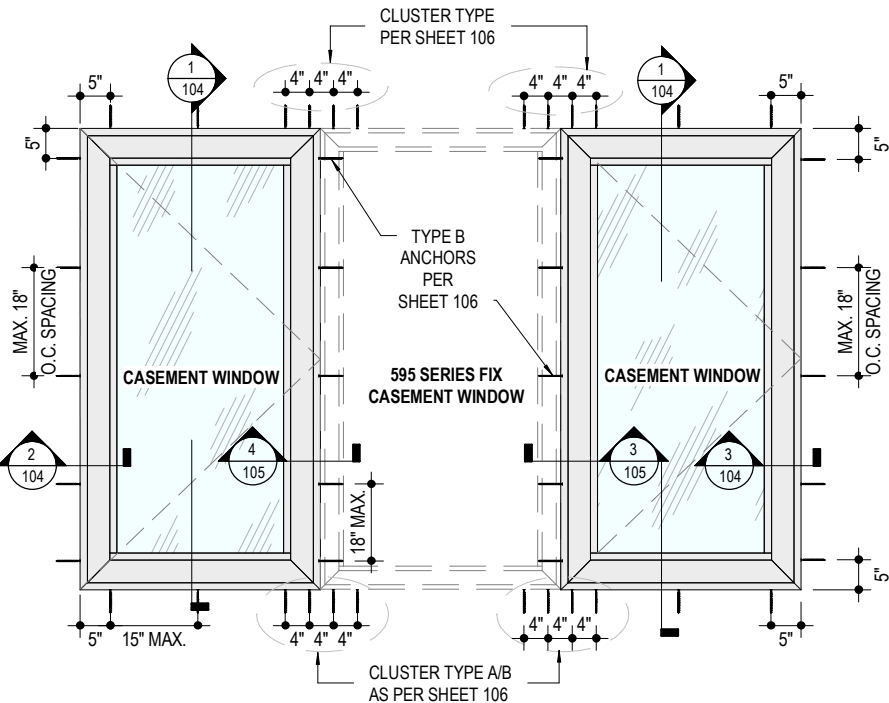
2
102
TYPICAL SINGLE CASEMENT ELEVATION
NOT TO SCALE

3
102
ALTERNATIVE ELEVATION 1
NOT TO SCALE

4
102
ALTERNATIVE ELEVATION 2
NOT TO SCALE

MAX. FRAME HEIGHT = 76"
MAX. FRAME WIDTH:
• FOR DOUBLE CASEMENT = 80"
• FOR SINGLE CASEMENT = 40"
MAX. D.L.O HEIGHT = 68-1/16"
MAX. D.L.O WIDTH = 32-1/32"

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



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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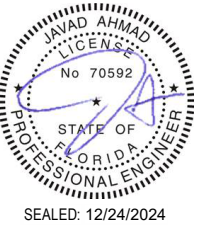
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date:	JA-2042-24	check by:	12-24-24
REVISION			
No.	DATE	BY	DESCRIPTION

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(LARGE AND SMALL MISSILE IMPACT RATED)

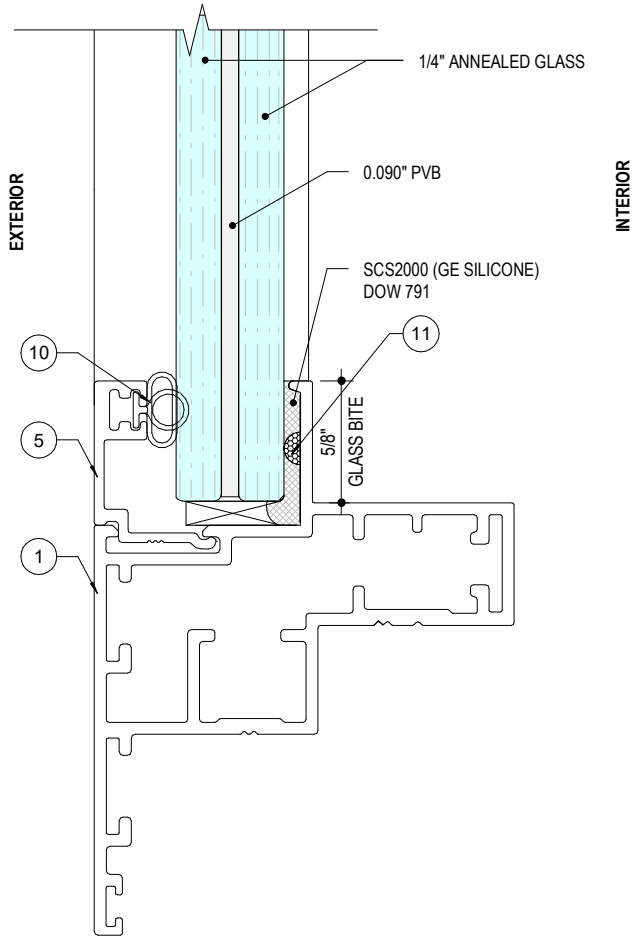


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TEL: (305) 885-5299 FAX: (305) 885-5902



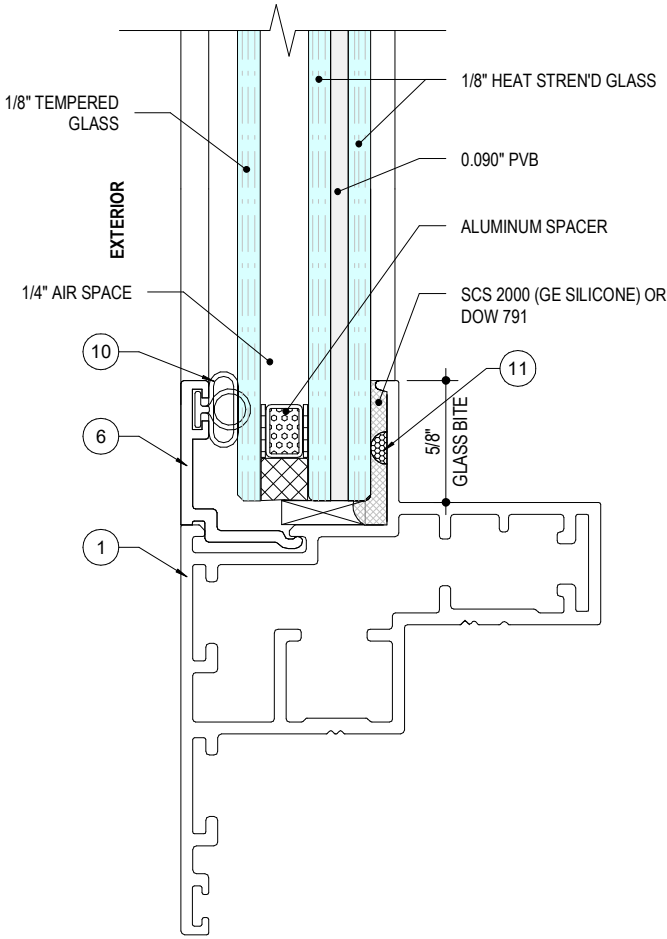
1
103

TYPICAL GLAZING TYPE-1
NOT TO SCALE



2
103

TYPICAL GLAZING TYPE-2
NOT TO SCALE



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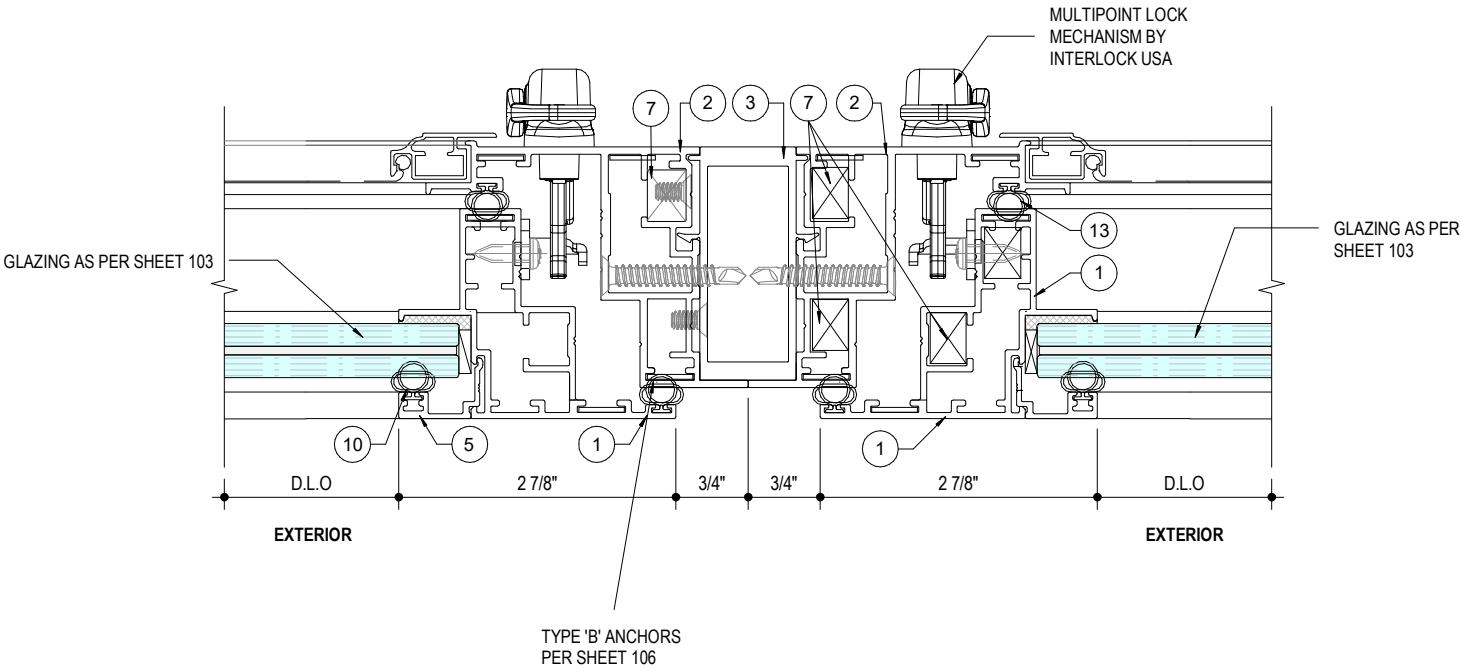
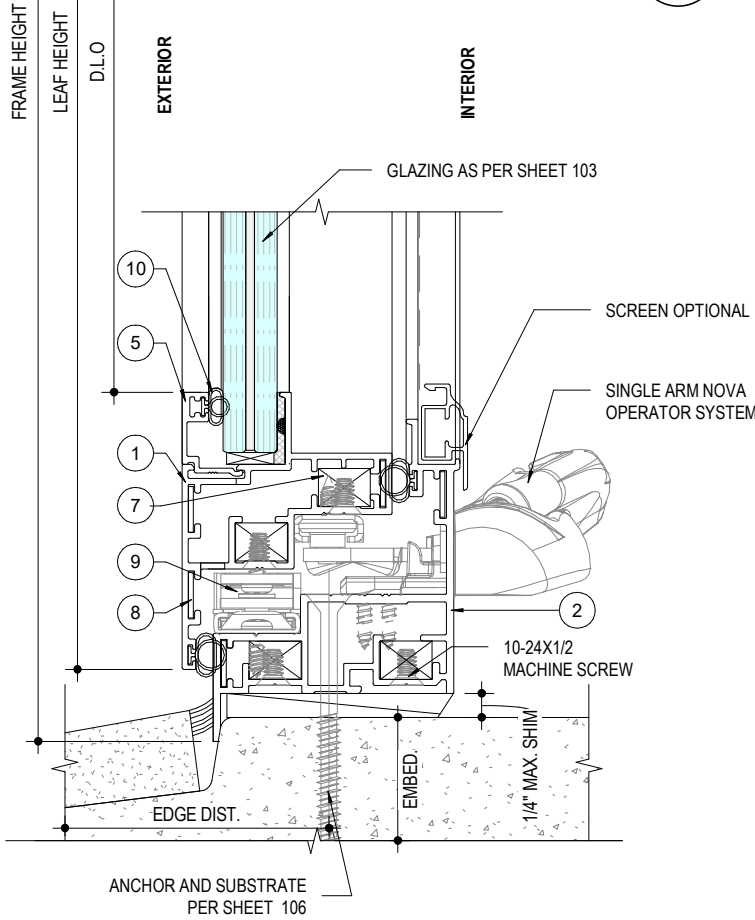
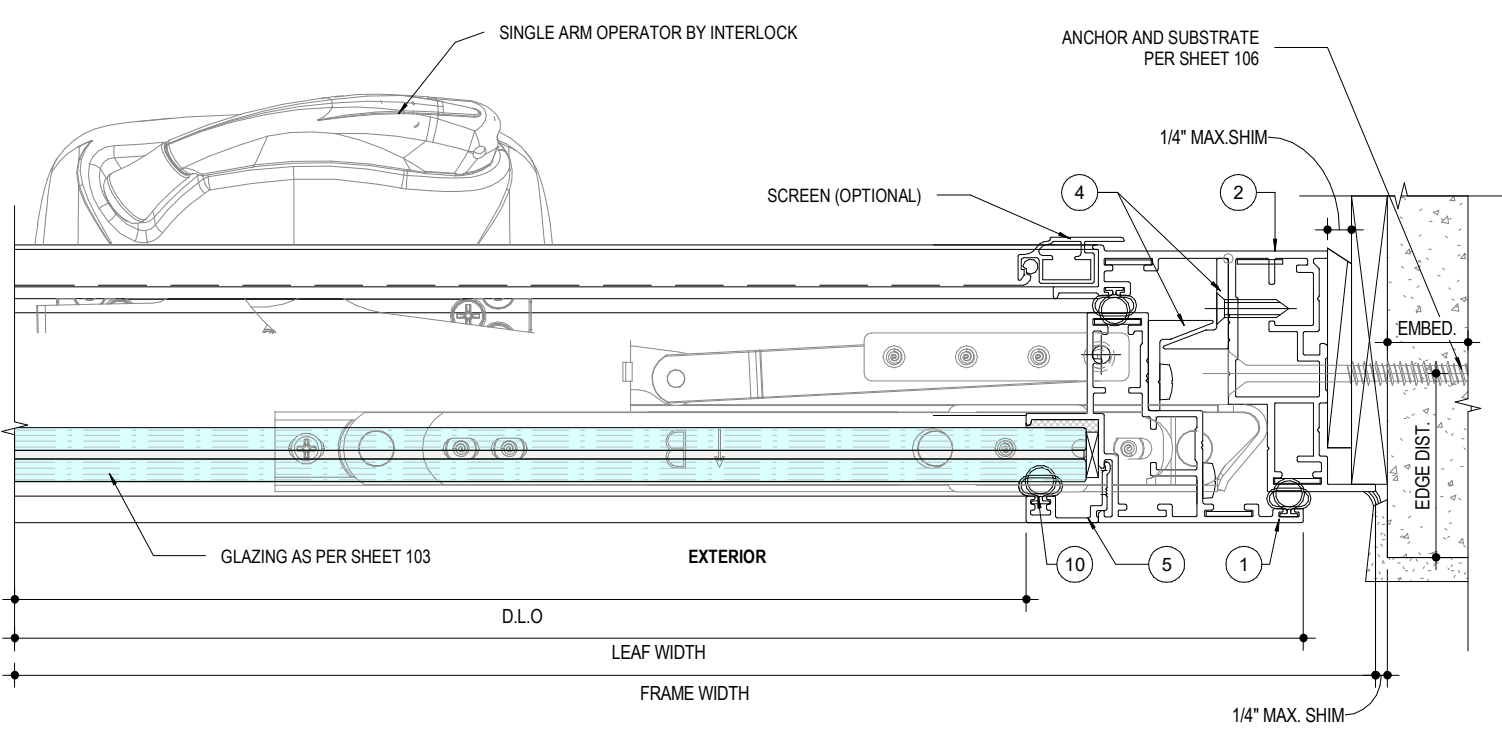
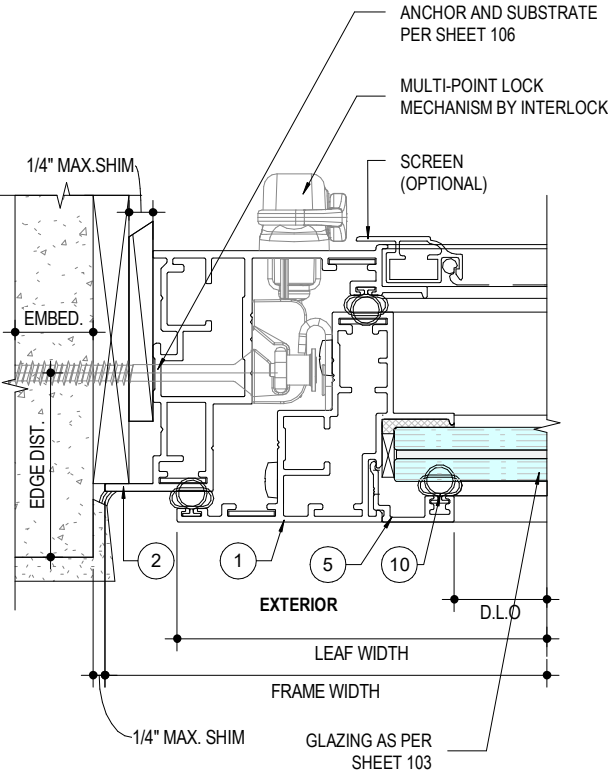
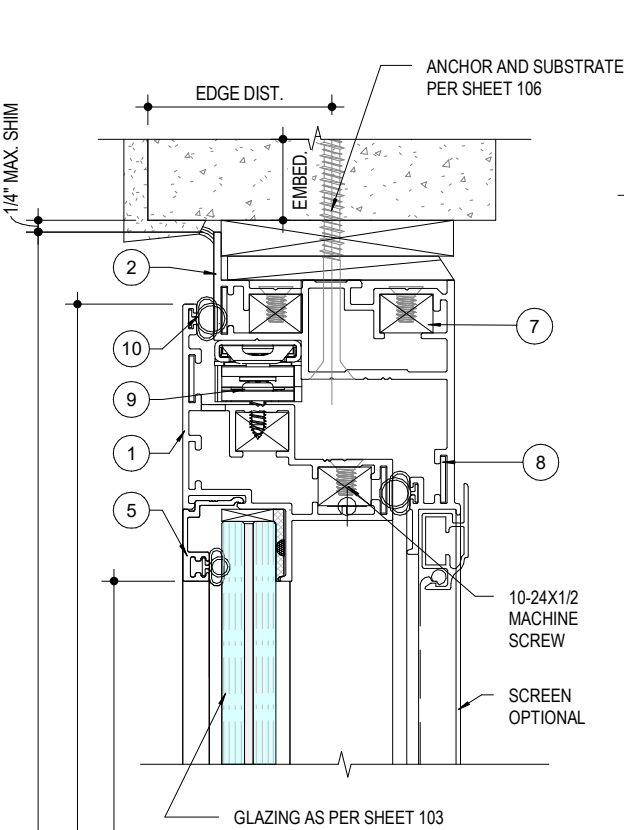
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WINDOW
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1
104
CASEMENT SILL AND HEAD DETAIL
NOT TO SCALE

2
104
CASEMENT LOCK JAMB DETAIL
NOT TO SCALE

3
104
CASEMENT JAMB DETAIL
NOT TO SCALE

4
104
CASEMENT INTERMEDIATE MULLION DETAIL
NOT TO SCALE

NOTE:
MAXIMUM LENGTH OF THE UNCLIPPED MULLION CAN BE 76" FOR MAX. TRIBUTARY WIDTH OF 40".



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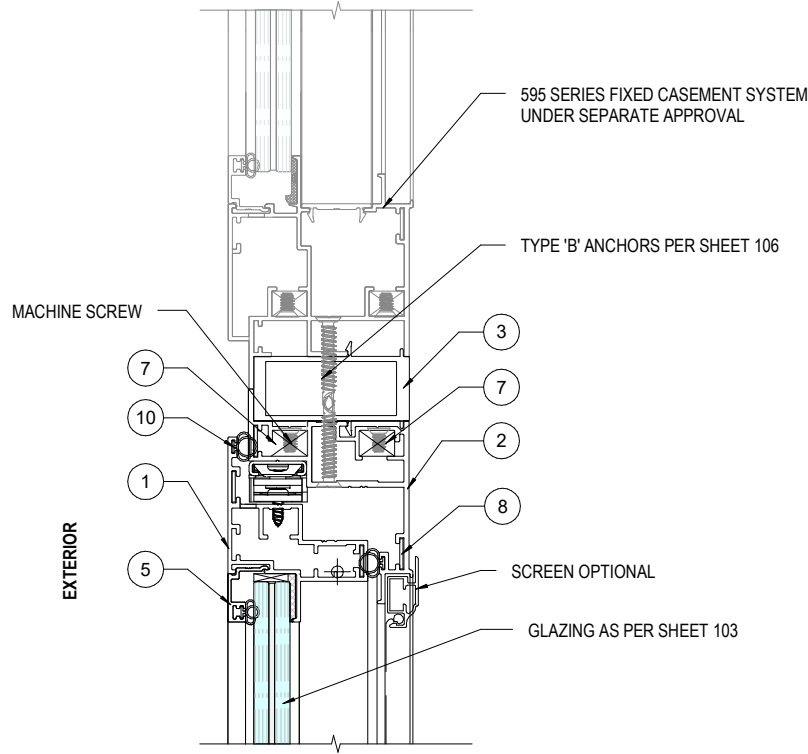
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SA	drawn by:	BS	check by:		
No.	DATE				

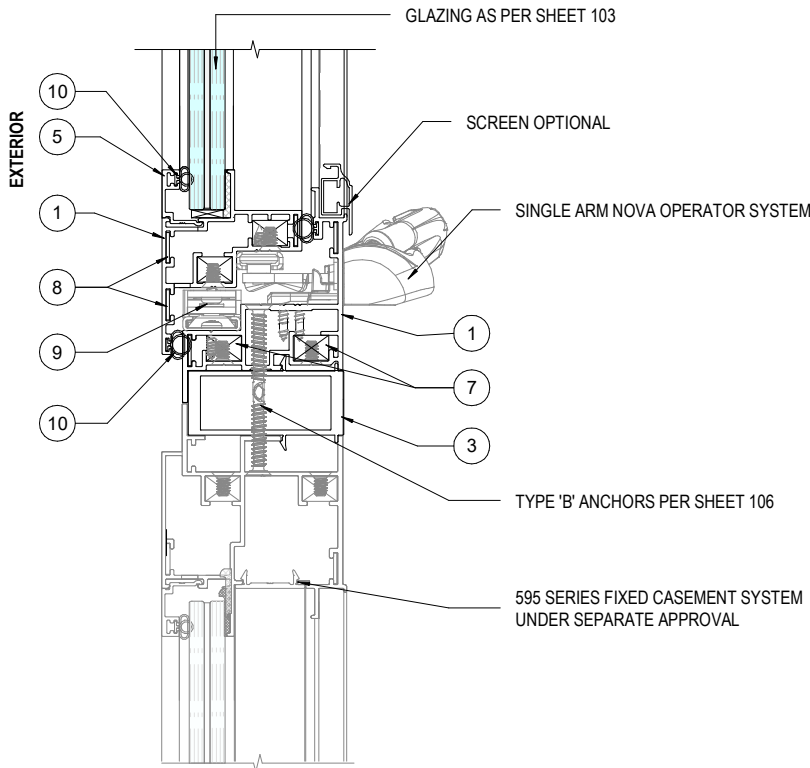
ECO-NOVO SERIES: 575 CASEMENT WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)



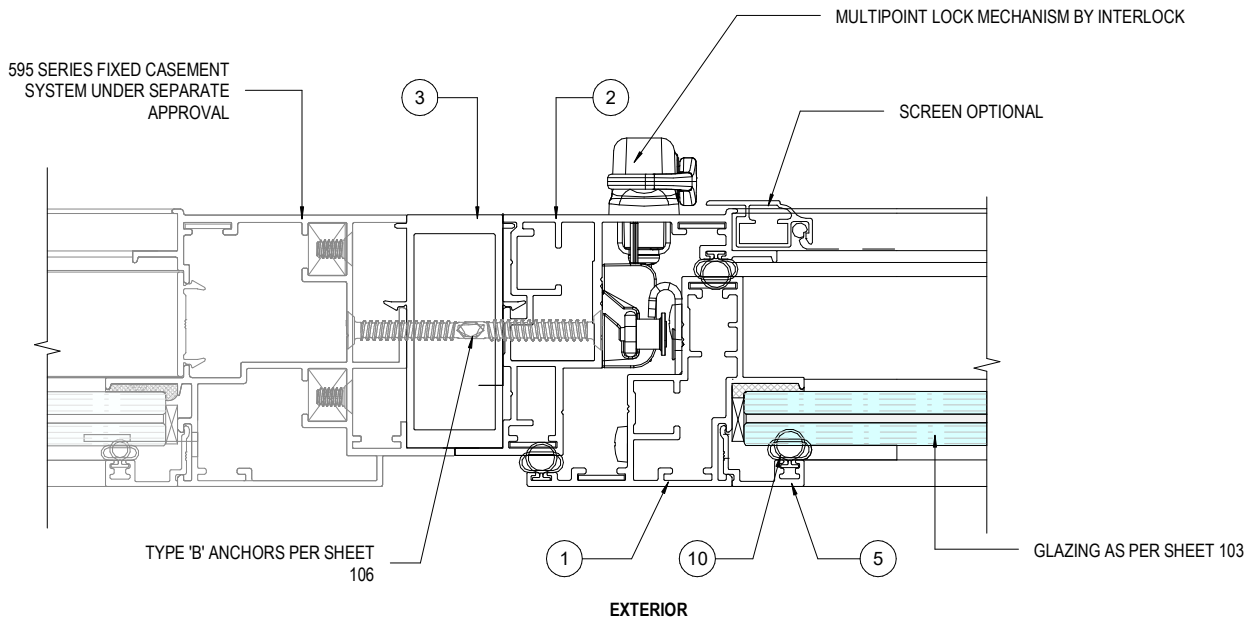
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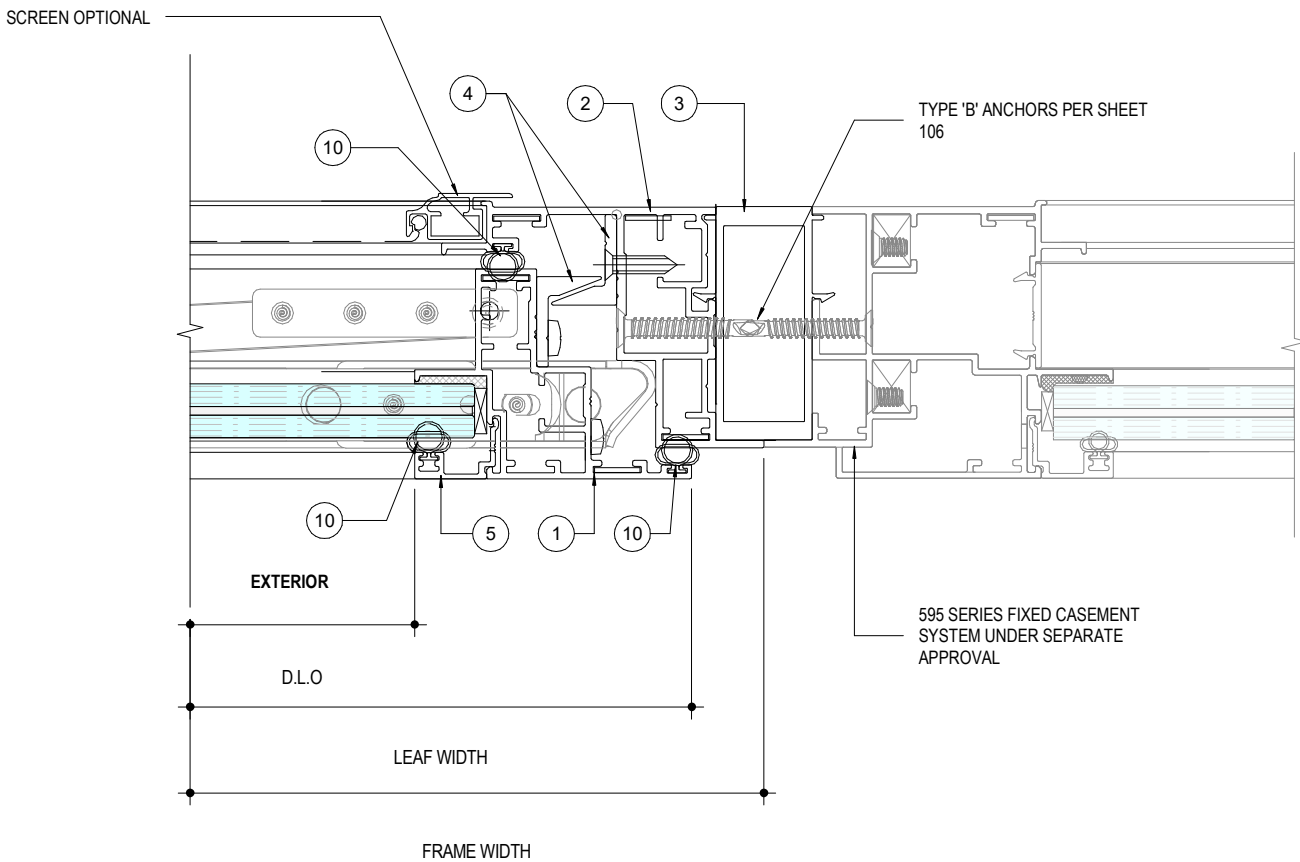
1
105
INTERMEDIATE HORIZONTAL MULLION
NOT TO SCALE



2
105
INTERMEDIATE HORIZONTAL MULLION
NOT TO SCALE



3
105
MULLION-FIX TO CASEMENT
NOT TO SCALE



4
105
MULLION-CASEMENT TO FIX
NOT TO SCALE



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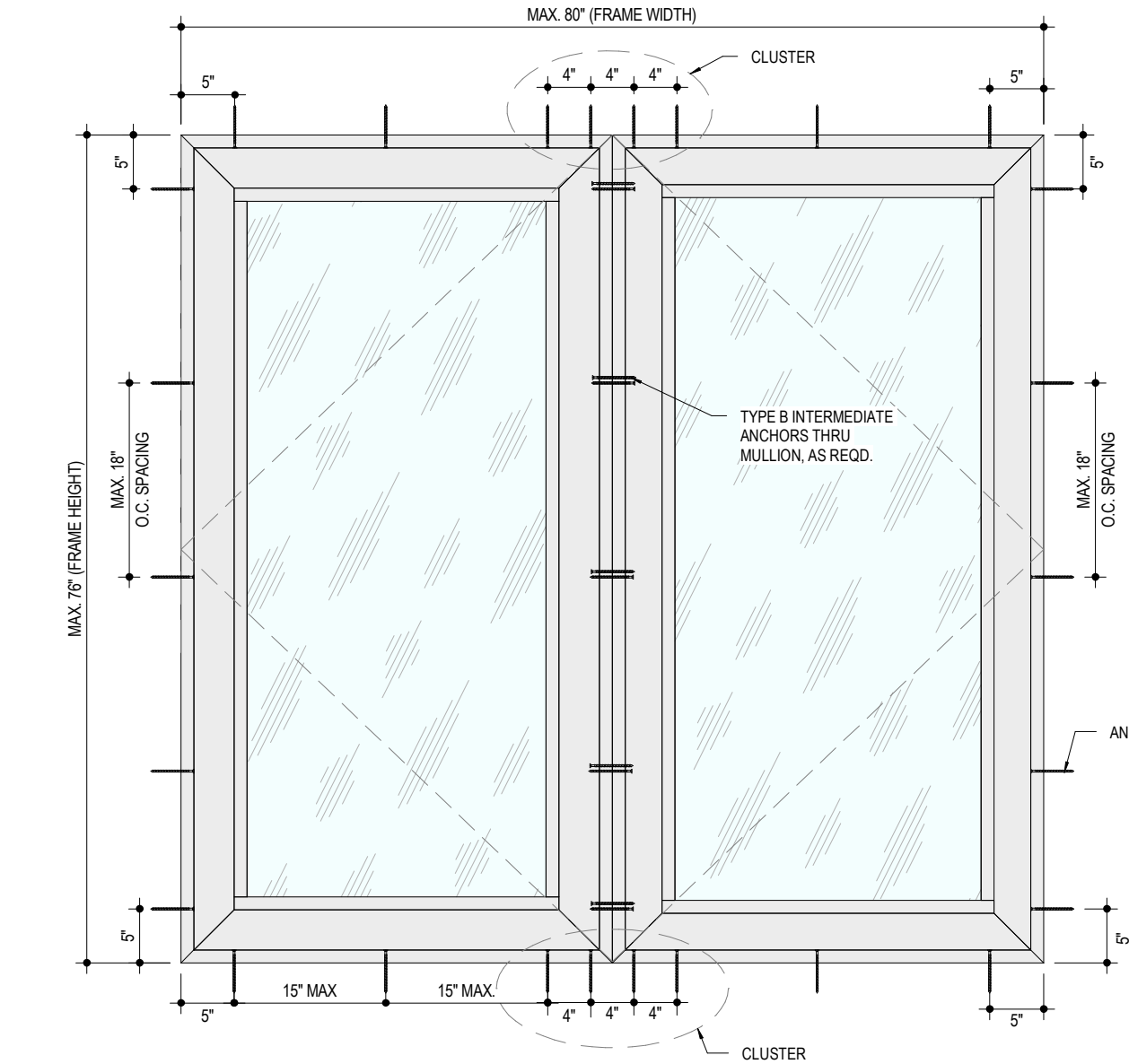
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ECO-NOVO SERIES: 575 CASEMENT WINDOW
(LARGE AND SMALL MISSILE IMPACT RATED)



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1
106
TYPICAL ANCHORAGE LAYOUT
NOT TO SCALE

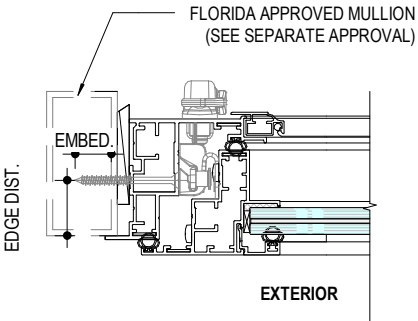
TYPICAL ANCHOR TYPES:

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

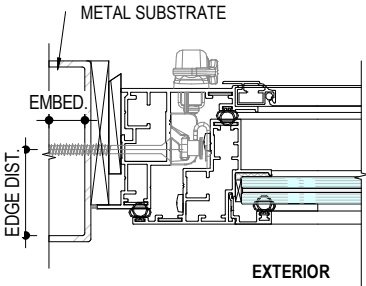
- INTO 2BY WOOD WITH 1-1/2"MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE AND 18" O.C. SPACING.
- DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 18" O.C. SPACING
- DIRECTLY INTO HOLLOW MASONRY WITH 1-1/2" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND 18"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

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

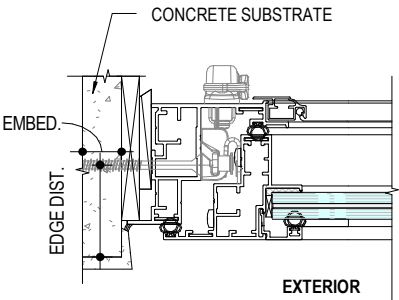
- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 18" O.C. SPACING
- INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 18" O.C. SPACING



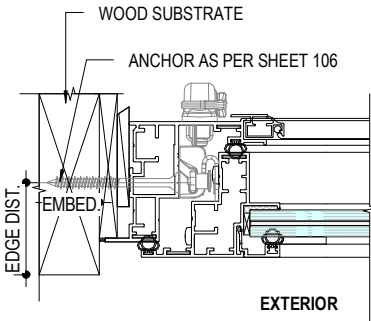
2
106
ANCHORAGE INTO ALUMINUM MULLION
NOT TO SCALE



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.



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						DESCRIPTION	BY	DATE	No.

ECO-NOVO SERIES: 575 CASEMENT WINDOW (LARGE AND SMALL MISSILE IMPACT RATED)

ECO WINDOW SYSTEMS, LLC
5802 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



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" 4 BAR 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 LOCK SYSTEM BY INTERLCK AT FRAME JAMB LOCK OPERATOR AT 10" FROM SILL 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

5X STEEL KEEPERS AT VENT FACING LOCKING POINTS SPACED AT 18" O.C. MAX. EA. FASTEBED WITH (2) #10 X 1/2" PH FH SMS

HINGES:
STORMB16 FRICTION HINGES LOCATED AT TOP AND BOTTOM CORNERS 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 SILL END FASTENED WITH (8) #8 X 1/2 PH FH SDS.



JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102
Doral, FL 33126
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support@ja-pe.com

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drawing no.

JA-2042-24

drawn by:

SA

date:

12-24-24

check by:

BS

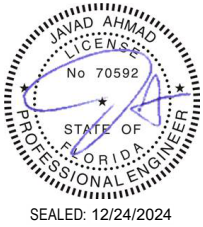
REVISION

No.	DATE	BY	DESCRIPTION

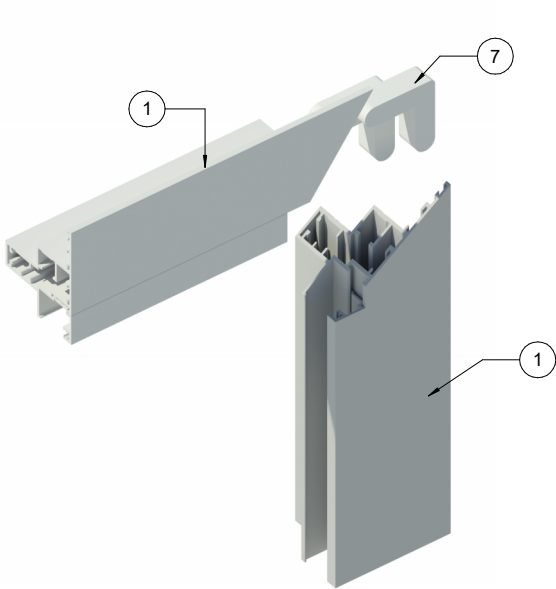
ECO-NOVO SERIES: 575 CASEMENT WINDOW

(LARGE AND SMALL MISSILE IMPACT RATED)

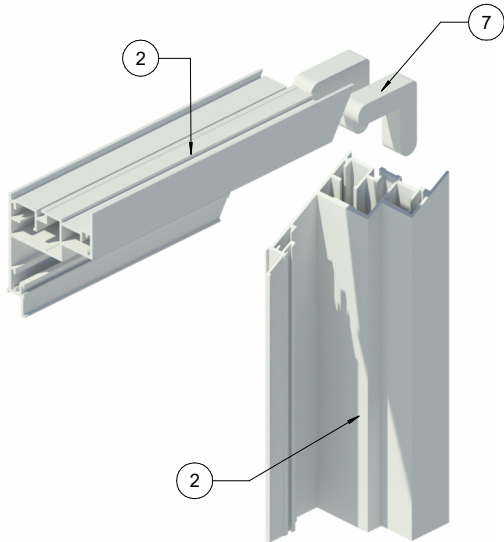
ECO WINDOW SYSTEMS, LLC
5802 N.W. 80th ST., MEDLEY, FL 33166
TEL: (305) 885-5259 FAX: (305) 885-5902



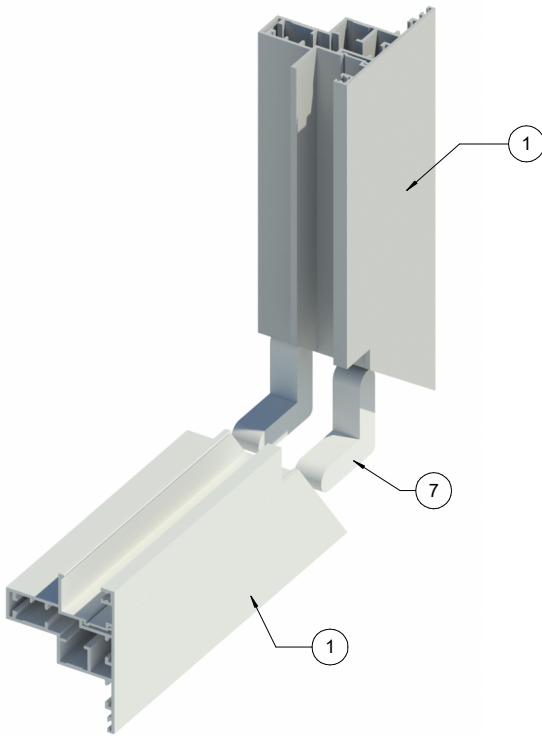
SEALED: 12/24/2024



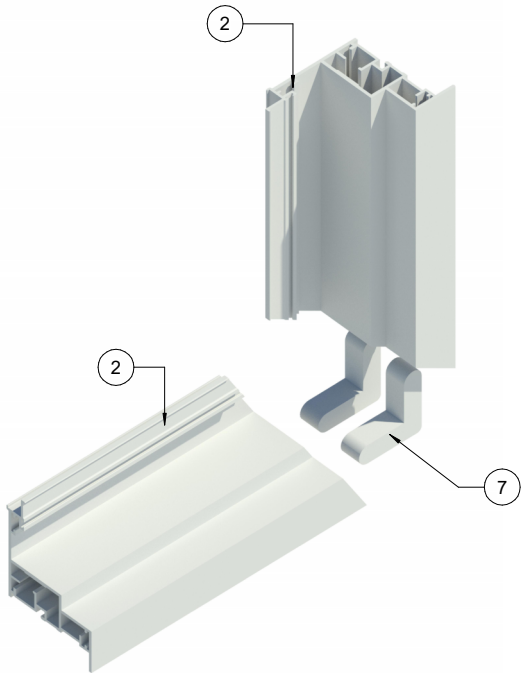
TOP CORNER LEAF ASSEMBLY DETAIL



TOP CORNER FRAME ASSEMBLY DETAIL



BOTTOM CORNER LEAF ASSEMBLY DETAIL



BOTTOM CORNER FRAME ASSEMBLY DETAIL



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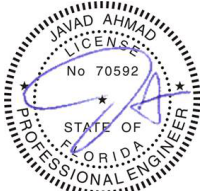
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