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Product Approval
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FL #	FL47215	
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	FL47215_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 Submitted12/20/2024

Date Validated12/20/2024

Date Pending FBC Approval12/23/2024

Date Approved02/11/2025

Summary of Products		
FL #	Model, Number or Name	Description
47215.1	ECO-NOVO Series 375 Fix Window System	Large and Small Missile Impact Resistant Fix Window System
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +70/-70 Other: Please see enclosed documents for product performance information, maximum sizes, anchorage details, anchor type and spacing information.		Installation Instructions FL47215_R0_II_ECO-NOVO_SERIES_375_FIX_WINDOW-JA-2042-24.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47215_R0_AE_ECO-NOVO_Series_375_Fixed_Window-PA_EVR.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:



ECO WINDOW SYSTEMS,LLC

ECO-NOVO SERIES: 375 FIX WINDOW SYSTEM

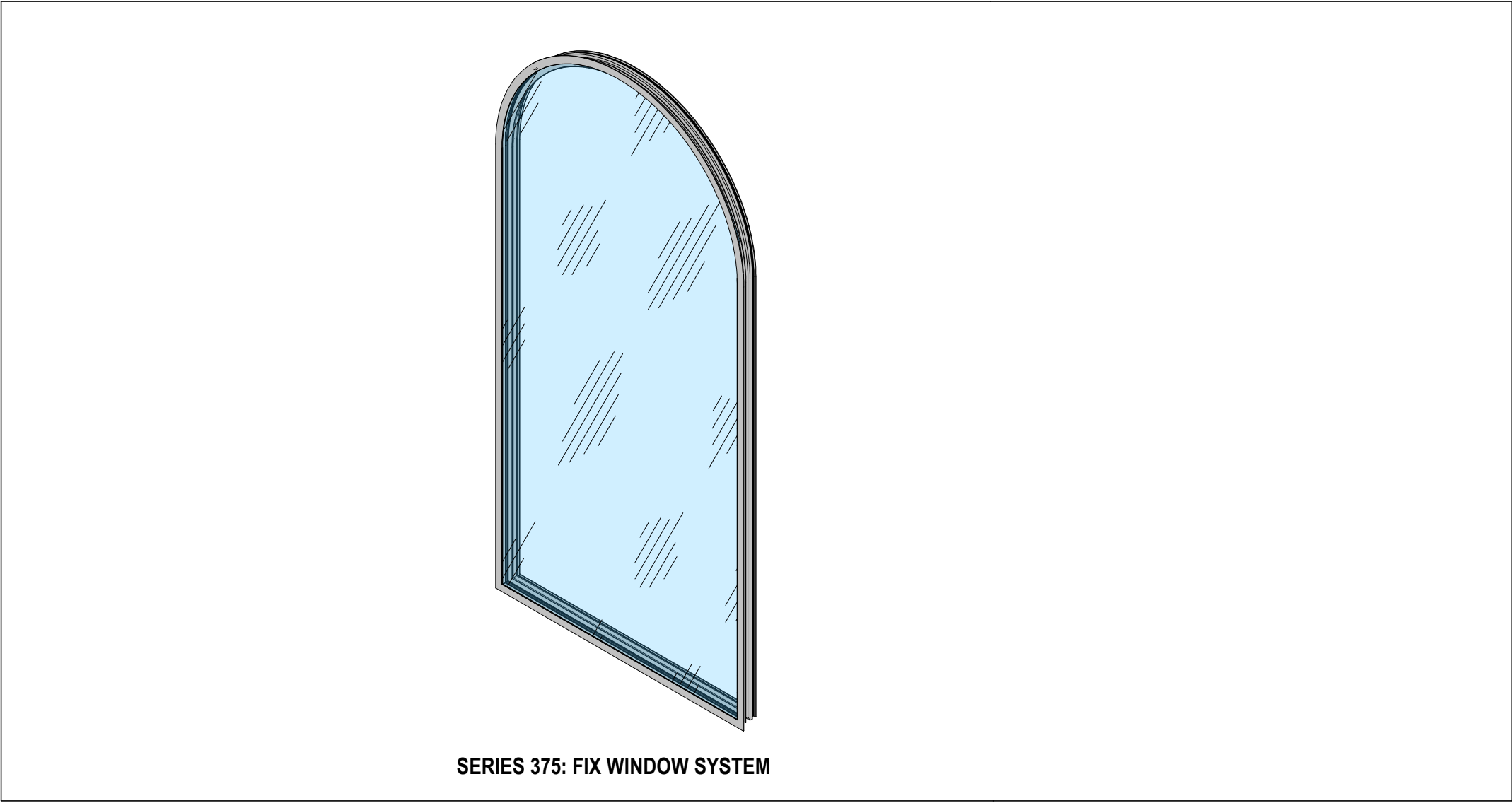
(SMALL AND LARGE MISSILE IMPACT RATED)

FL# 47215

SHEET INDEX	
101	COVER PAGE
102	FIXED WINDOW ELEVATION
103	ALTERNATE WINDOW SHAPES
104	GLAZING OPTIONS
105	SECTIONAL DETAILS
106	SECTIONAL DETAILS - FLUSH ADAPTER
107	ANCHORAGE DETAILS
108	PART LIST
109	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 FIXED WINDOW - FIXED WINDOW OR FIXED WINDOW 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.



SERIES 375: FIX WINDOW SYSTEM

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.

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. 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.

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.

7. ENSURE A COMPREHENSIVE REVIEW OF THE NOTES ON EACH SHEET TO AVOID ANY POTENTIAL PROBLEM IN UTILIZING THIS APPROVAL.

8. 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.

9. 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.

9. WOOD SCREWS REFERENCED IN THIS CERTIFICATION SHALL BE GRADE 2 MIN. (Fu = 74,000 PSI).

10. 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.

11. 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.

13. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

14. SAFEGUARDS MUST BE OBSERVED (NOT PART OF THIS CERTIFICATION).

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

THIS WINDOW SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.

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 DESIGN PRESSURE 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 **107**. [CLICK HERE](#)

• ANCHORAGE DETAILS- FOR VARIOUS SUBSTRATES- SEE SHEET **102** AND **107**. [CLICK HERE](#)

NOTE:

• ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDE LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PUES. FOR APPLICATION WHERE THE WINDOW IS BEING USED AS GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.

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 375: FIX WINDOW SYSTEM

(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC
8802 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5259 FAX: (305) 885-5902

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEALED: 12/19/2024

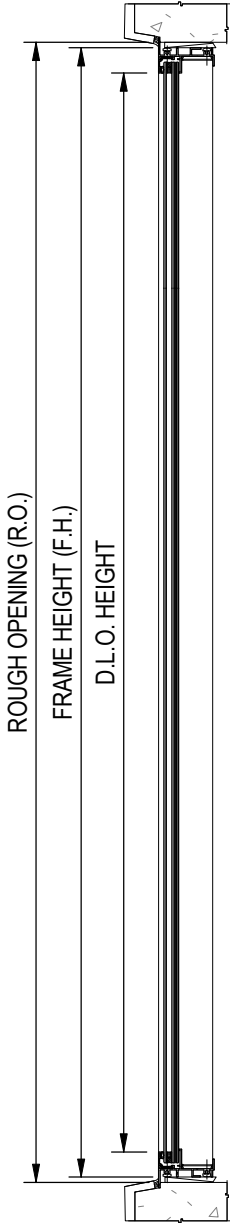
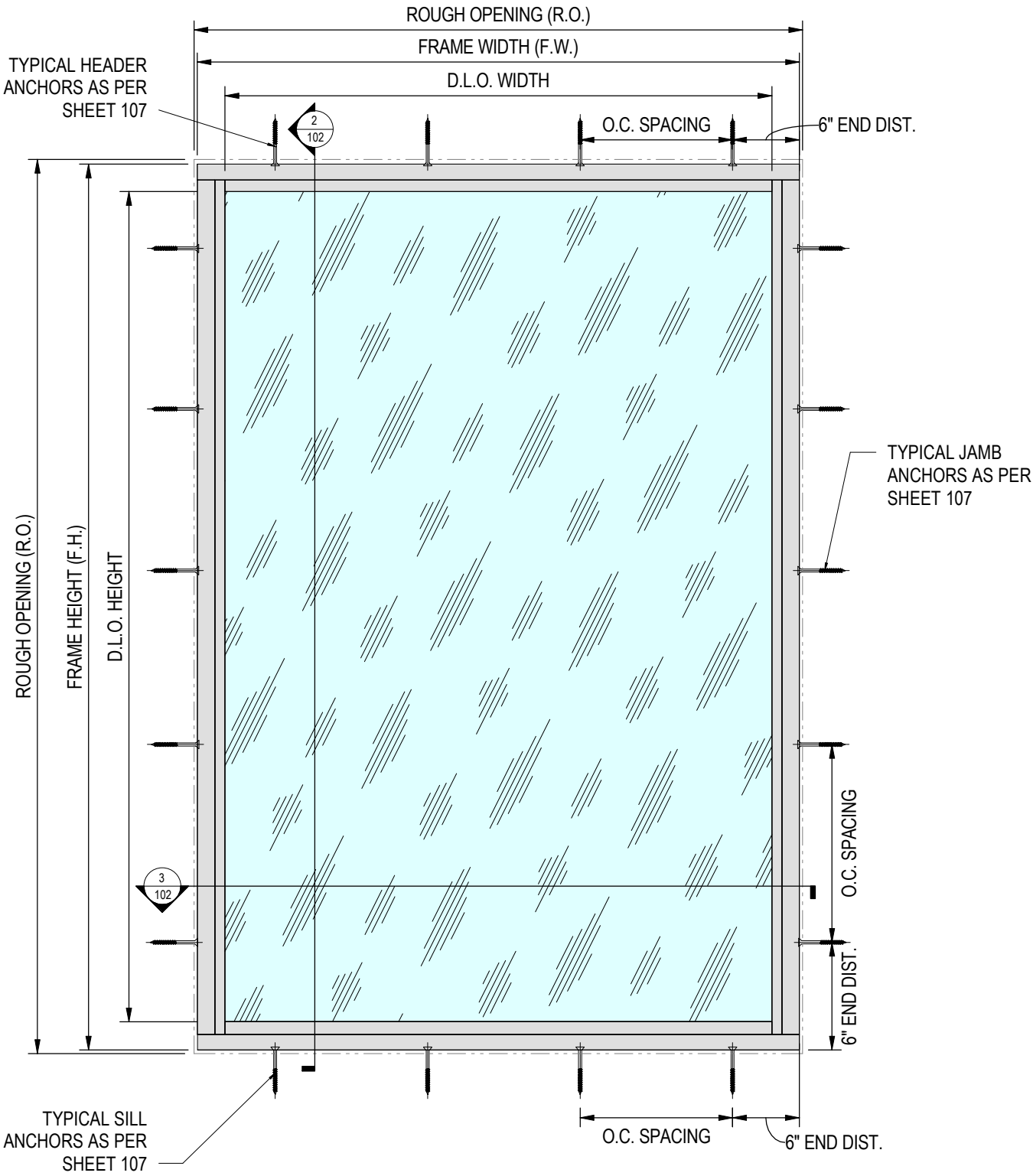
101

101 OF 109

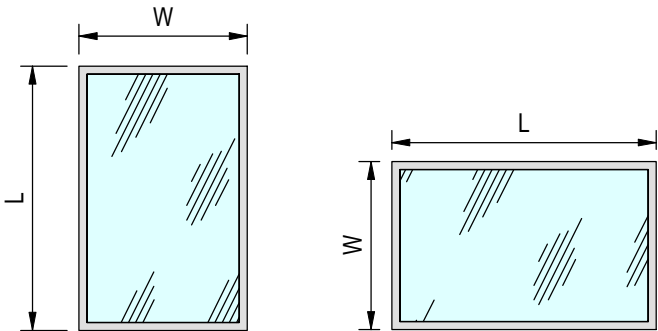


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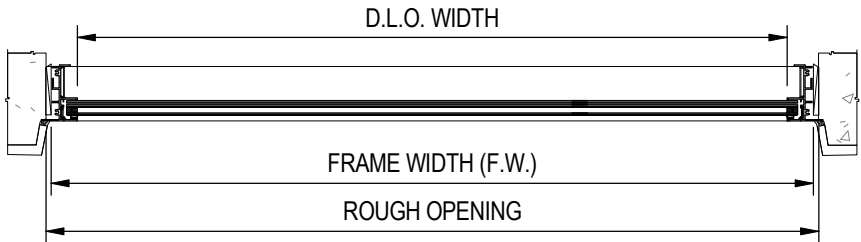
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2
102
VERTICAL SECTIONAL VIEW
NOT TO SCALE



NOTE:
• WIDTH AND LENGTH CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



3
102
HORIZONTAL SECTIONAL VIEW
NOT TO SCALE

MAX. FRAME SIZE:

MAX. FRAME HEIGHT = 108"
MAX. FRAME WIDTH = 40"
DLO HEIGHT = FRAME HEIGHT - 2.445"
DLO WIDTH = FRAME WIDTH - 2.32"

ALLOWABLE DESIGN PRESSURES

+/- 70 PSF

NOTE:

THE WINDOW SIZE MUST ADHERE TO THE MAXIMUM LIMITS SPECIFIED ON THIS SHEET. ANY DIMENSIONS EXCEEDING THESE LIMITS ARE NOT PERMITTED WITHIN THIS APPROVAL.

THE DESIGN PRESSURE SHOULD NOT SURPASS THE ALLOWABLE PRESSURE INDICATED ON THIS SHEET.

THE SUPPORTING STRUCTURE MUST BE CHECKED FOR THE LOAD IMPOSED BY THIS PRODUCT. THIS APPROVAL DOES NOT COVER THE DESIGN OF SUPPORTING STRUCTURE.

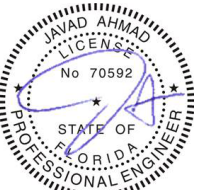
FOR NON-RECTANGULAR SHAPES, THE MAX. DIMENISONS OF THE FRAME SHALL BE MEASURED BY MAKING A RECTANGLE COVERING THE COMPLETE FRAME AS SHOWN IN SHEET 103.

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

ECO-NOVO SERIES 375: FIX WINDOW
SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC
8602 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 865-5299 FAX: (305) 865-5902



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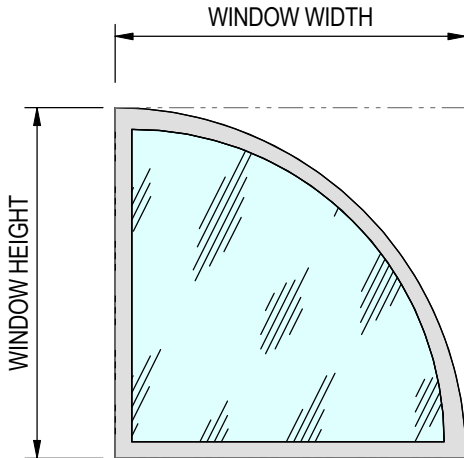
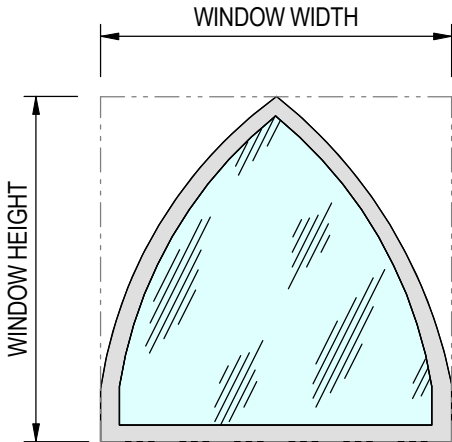
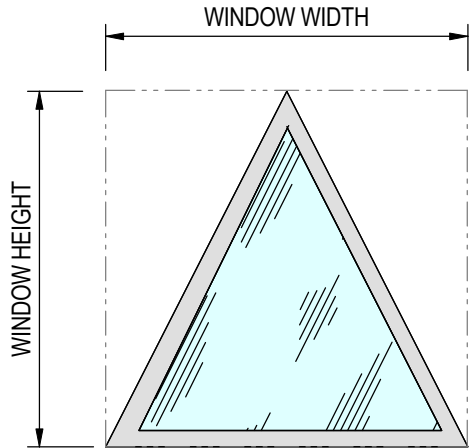
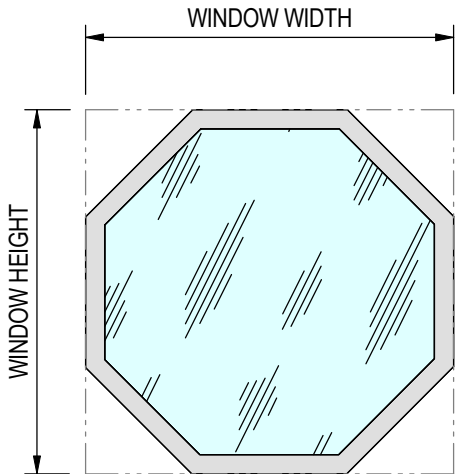
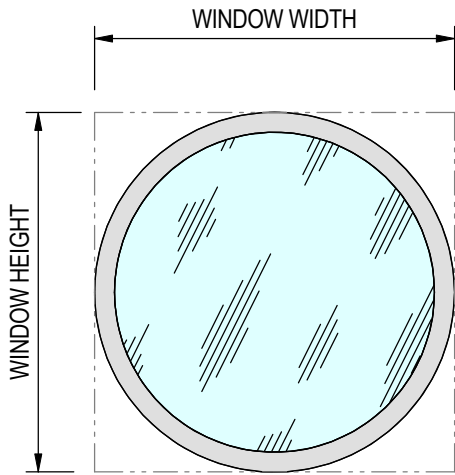
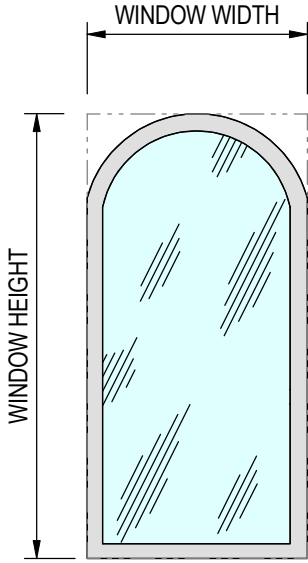
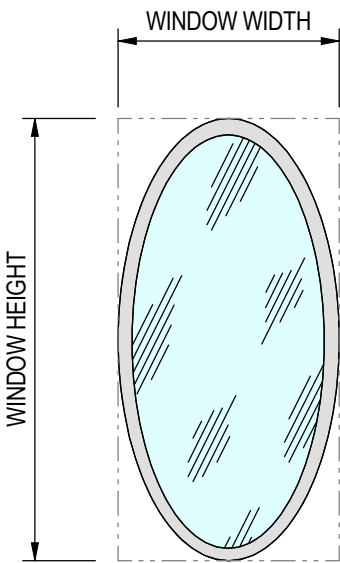
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Ph: (305) 424-8001

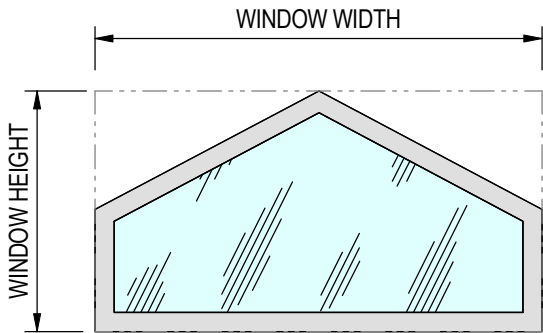
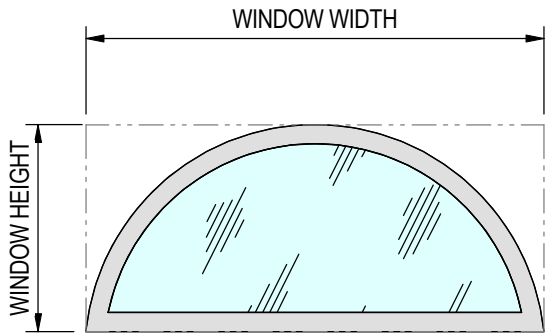
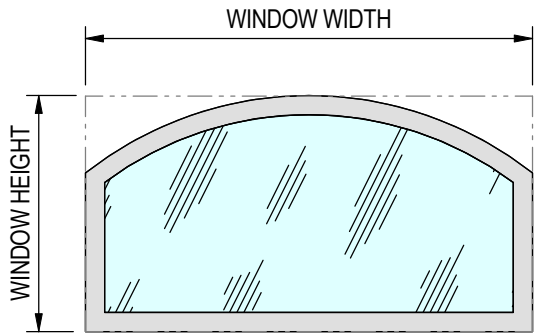
support@ja-pe.com

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NOTE:
DESIGN PRESSURE AND FRAME SIZES AS PER SHEET 102

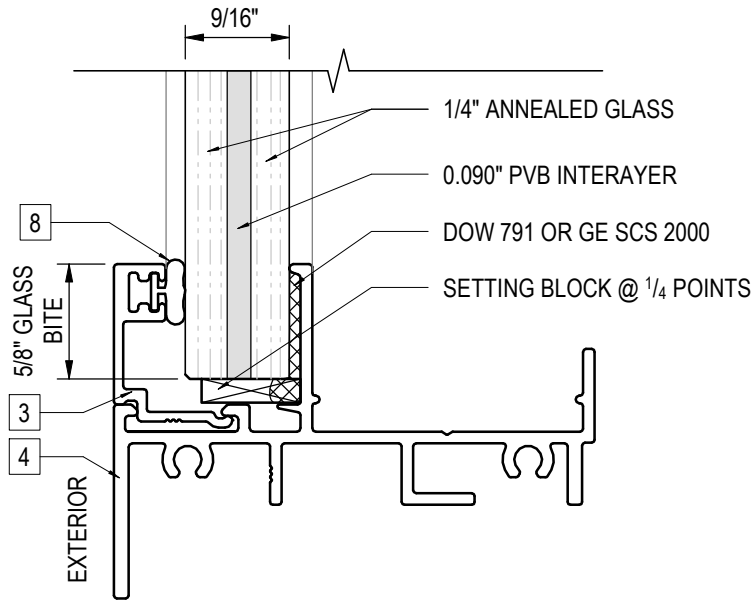
TO OBTAIN ALLOWABLE PRESSURES FOR ALTERNATIVE WINDOW SHAPES:
- INSCRIBE ALTERNATIVE SHAPE IN A RECTANGULAR BOX, AS SHOWN HERE.
- USE THE WIDTH AND HEIGHT OF THE BOX TO DETERMINE THE ALLOWABLE PRESSURES.



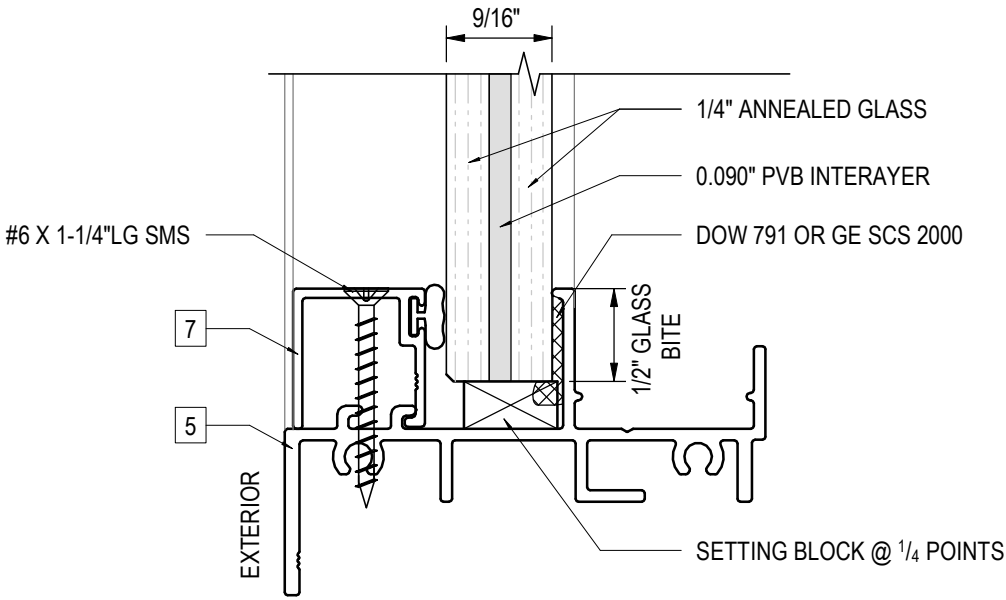
ECO-NOVO SERIES 375: FIX WINDOW SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



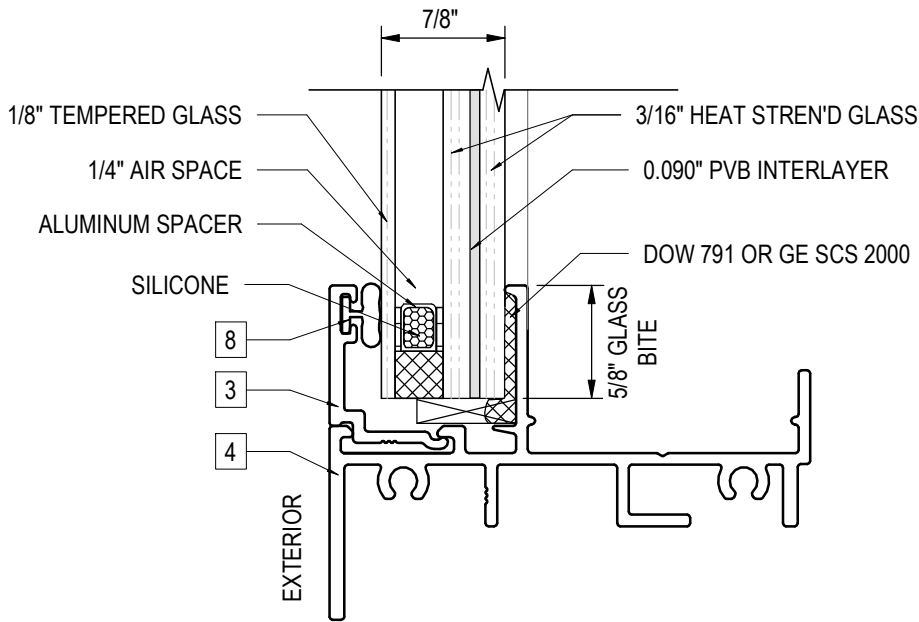
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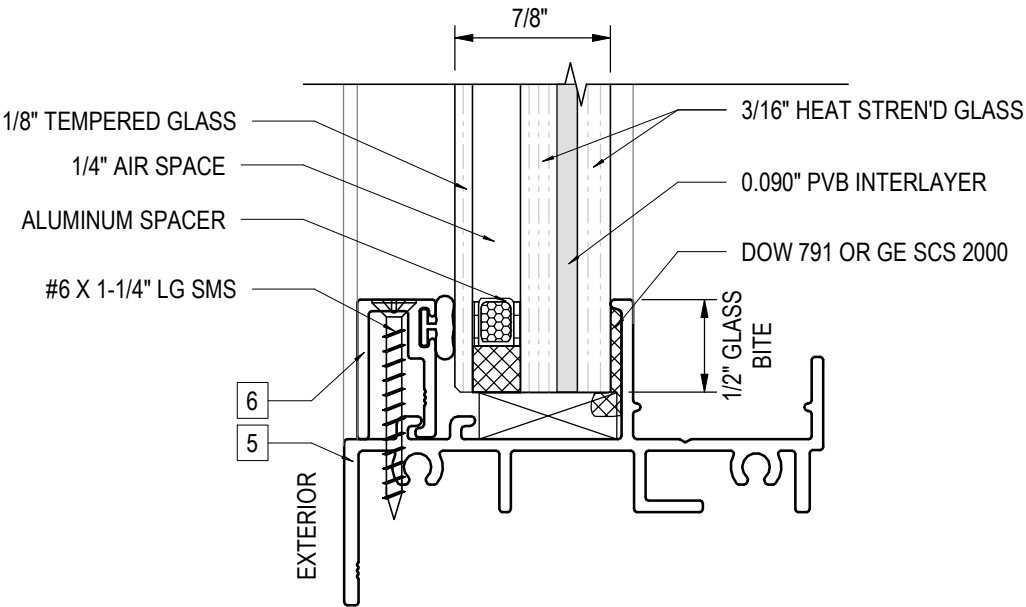
1
104
GLAZING DETAIL A
NOT TO SCALE



2
104
GLAZING DETAIL A (ARC SHAPES)
NOT TO SCALE



3
104
GLAZING DETAIL B
NOT TO SCALE



4
104
GLAZING DETAIL B (ARC SHAPES)
NOT TO SCALE



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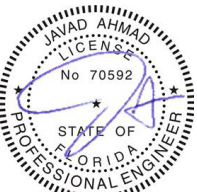
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		REVISION			
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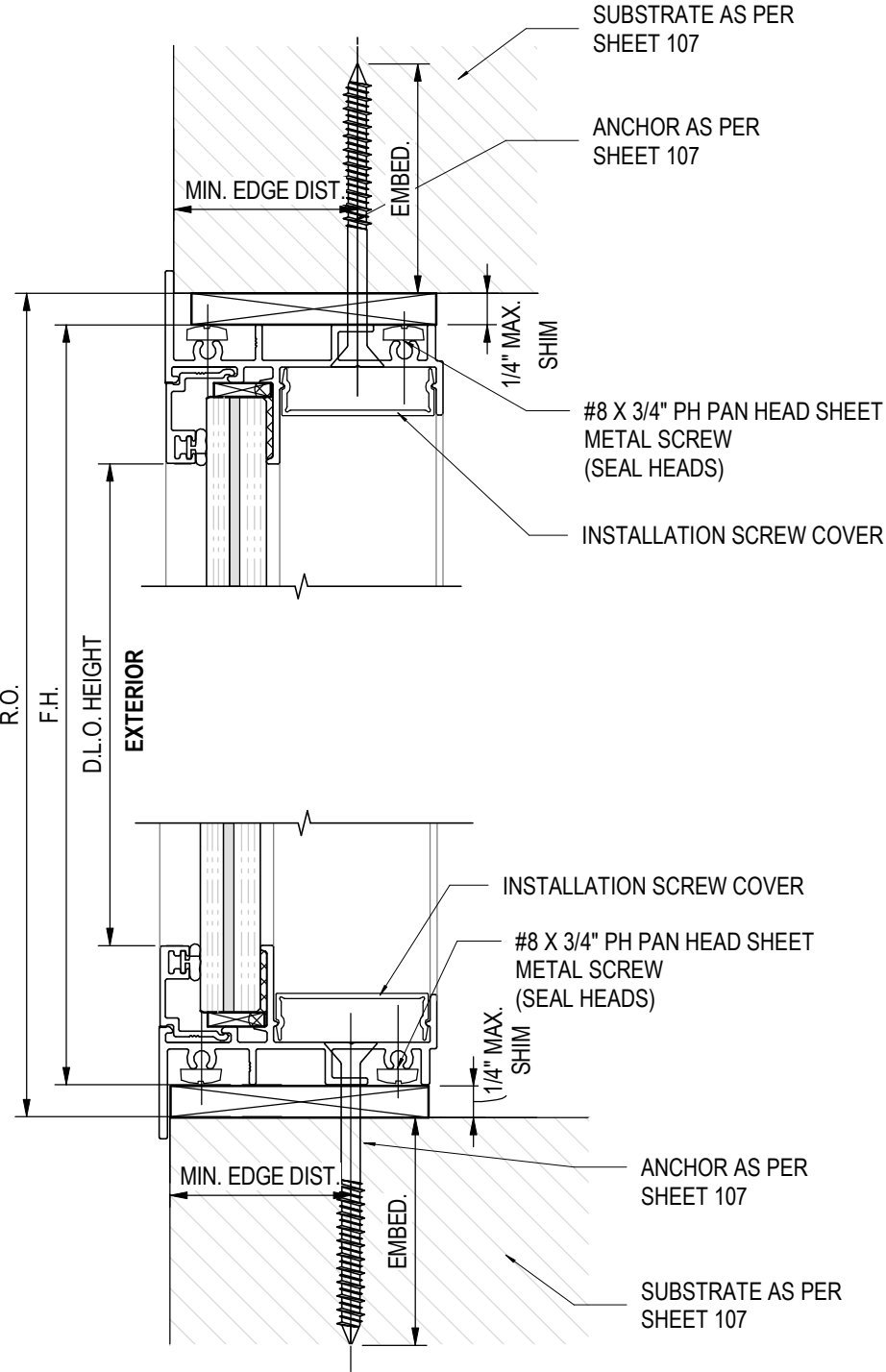
ECO-NOVO SERIES 375: FIX WINDOW SYSTEM
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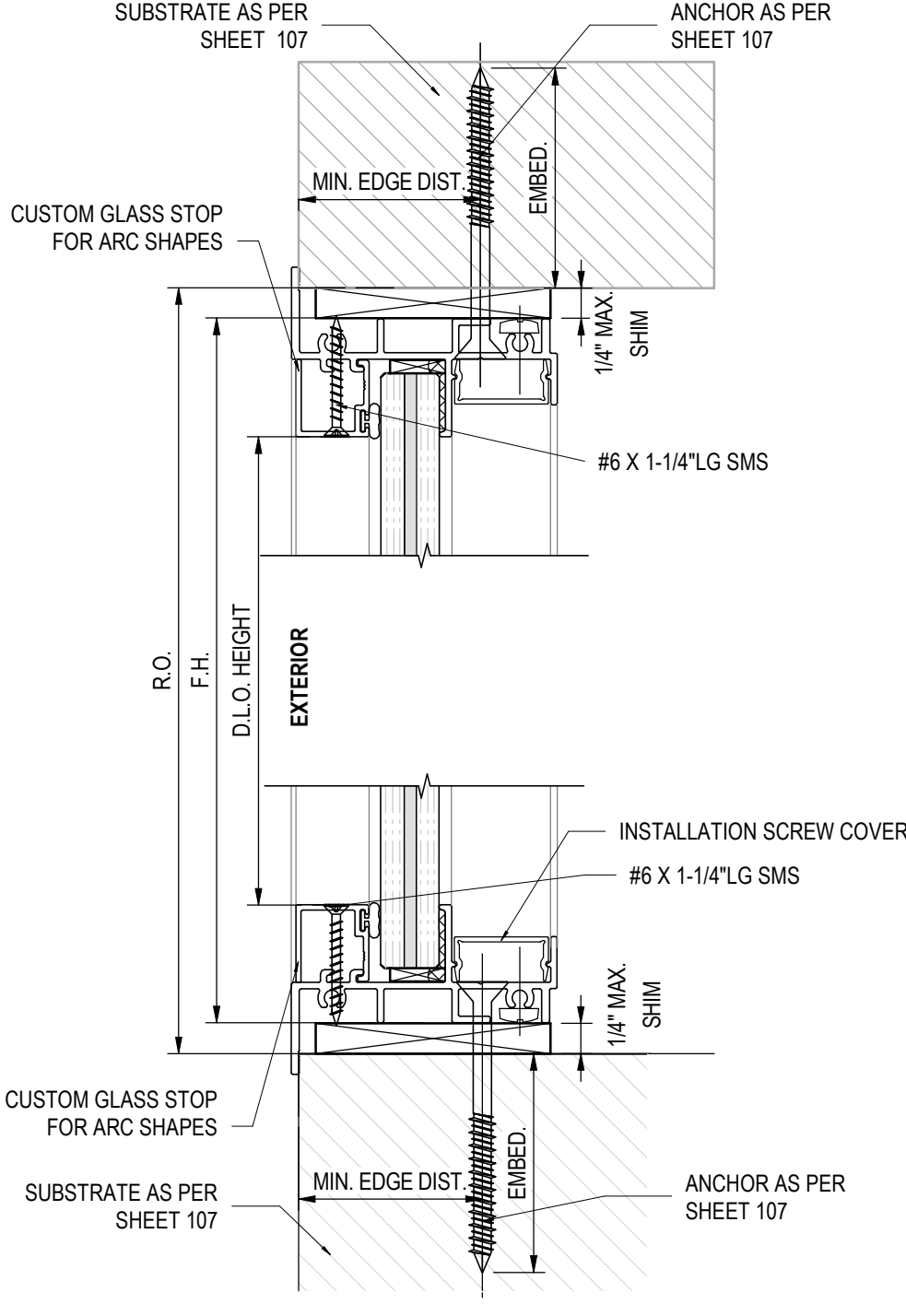
ECO WINDOW SYSTEMS, LLC
8602 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5259 FAX: (305) 885-5902



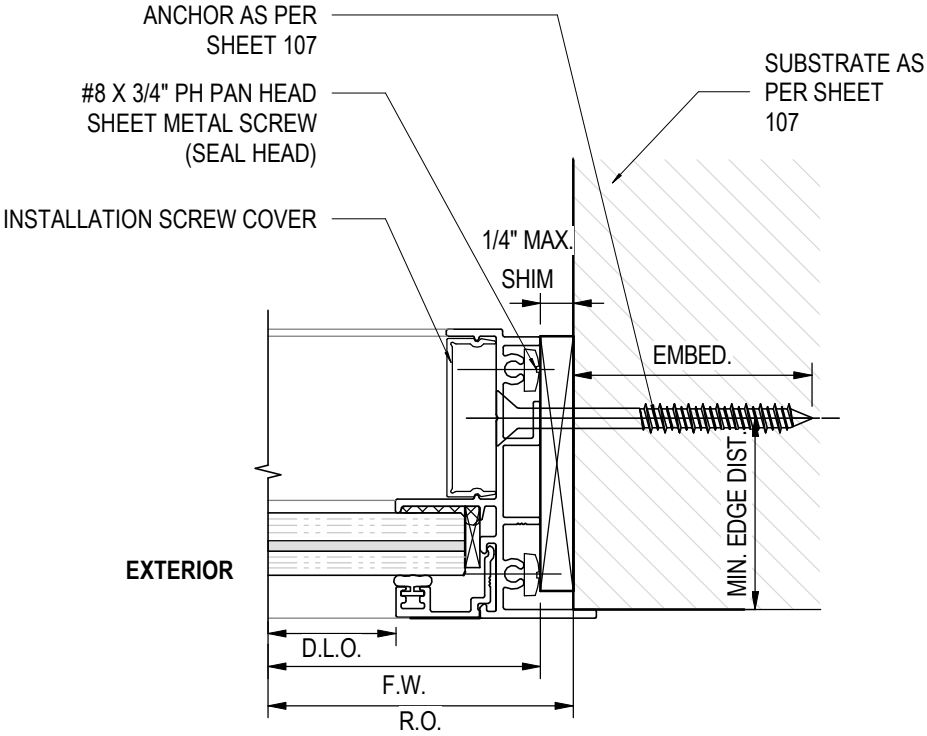
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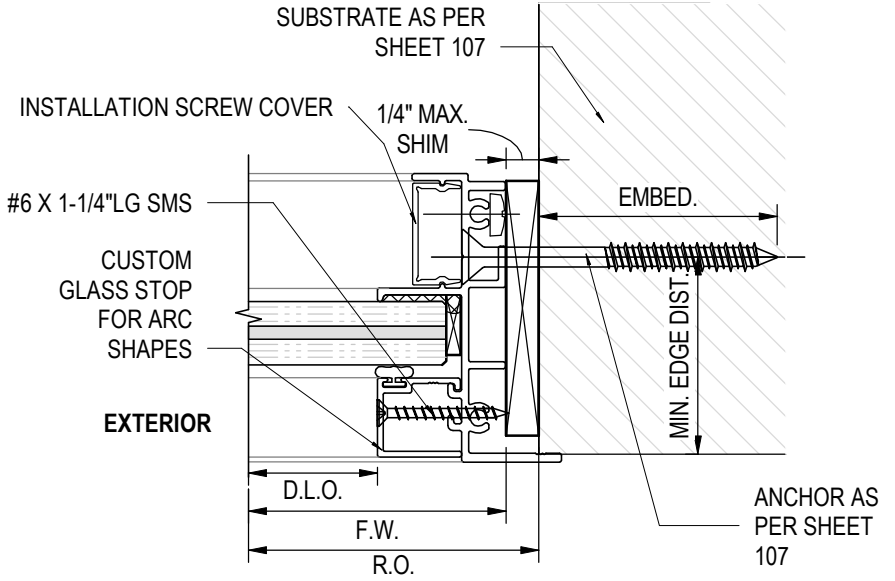
1 HEAD/SILL SECTIONAL DETAIL
105 NOT TO SCALE



2 HEAD/SILL SECTIONAL DETAIL (ARC SHAPES)
105 NOT TO SCALE



3 JAMB DETAIL
105 NOT TO SCALE



4 JAMB DETAIL (ARC SHAPES)
105 NOT TO SCALE



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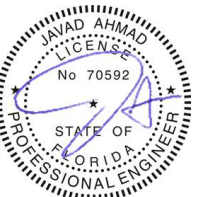
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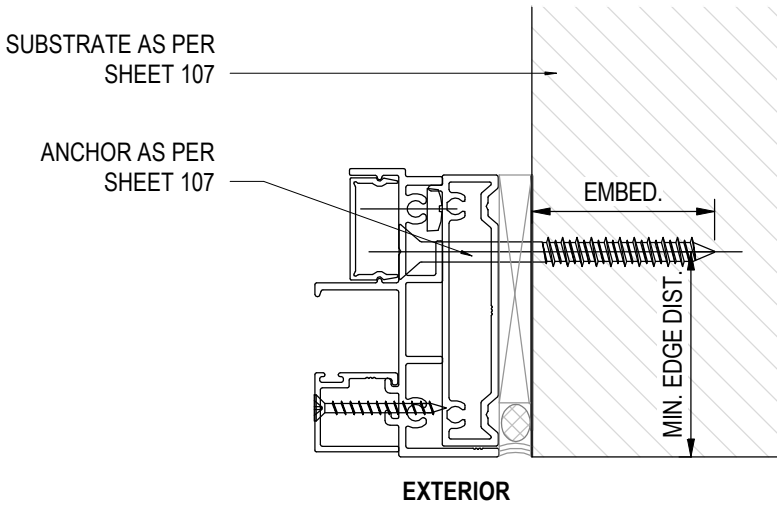
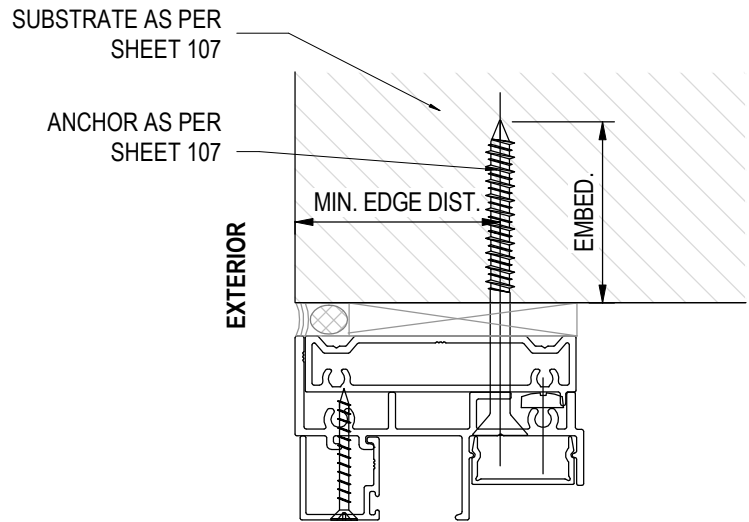
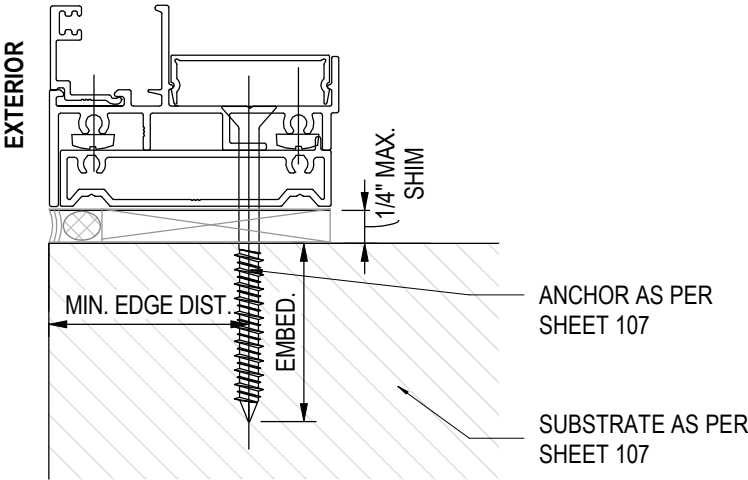
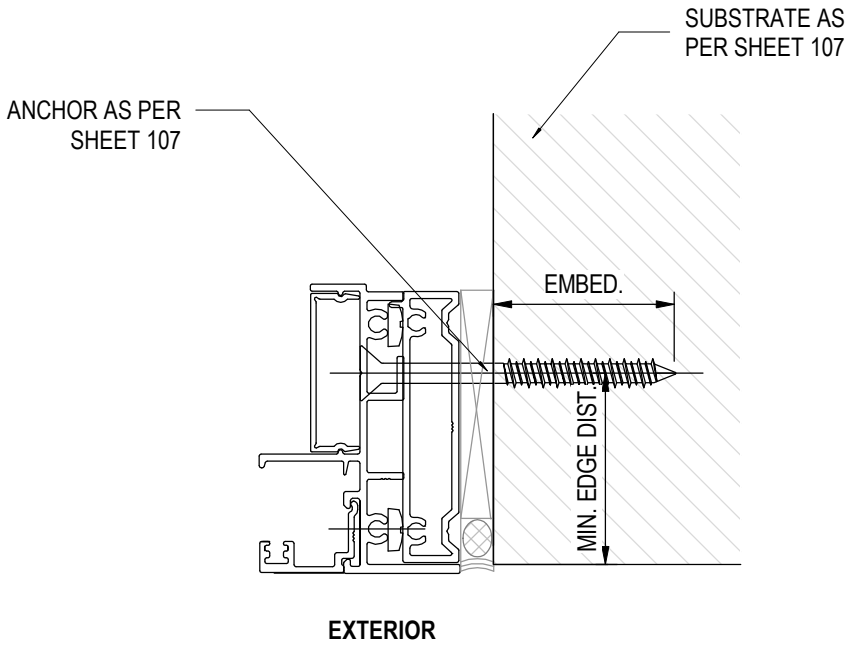
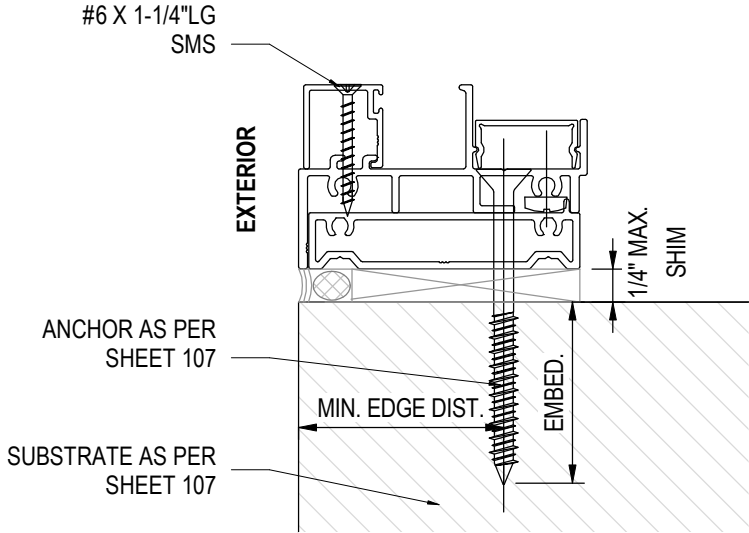
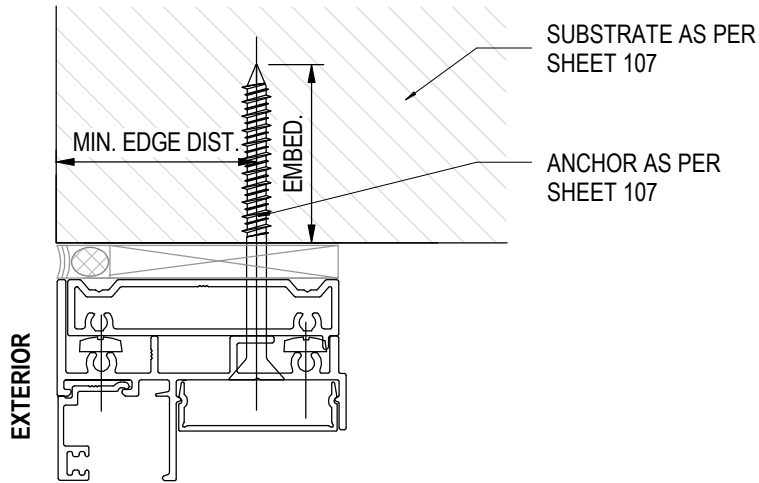
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1 HEAD SECTIONAL DETAIL WITH FLUSH ADAPTER
106 NOT TO SCALE

2 SILL (ARC SHAPES) WITH FLUSH ADAPTER
106 NOT TO SCALE

3 JAMB DETAIL WITH FLUSH ADAPTER
106 NOT TO SCALE

4 SILL SECTIONAL DETAIL WITH FLUSH ADAPTER
106 NOT TO SCALE

5 HEAD (ARC SHAPES) WITH FLUSH ADAPTER
106 NOT TO SCALE

6 JAMB DETAIL (ARC SHAPES) WITH FLUSH ADAPTER
106 NOT TO SCALE



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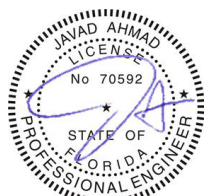
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ST	drawn by:	MK	check by:				

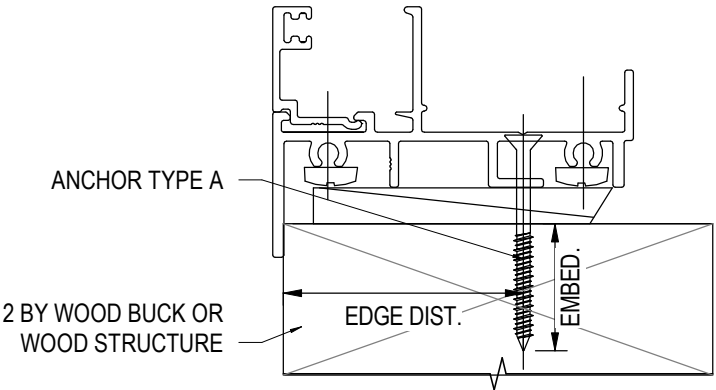
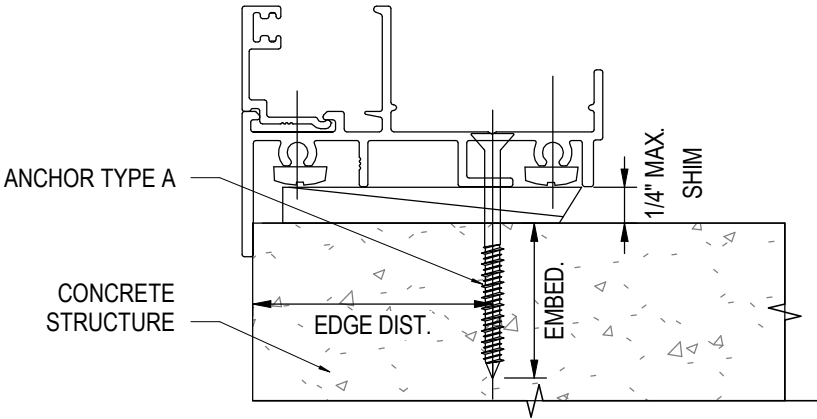
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SEALED: 12/19/2024



TYPICAL ANCHOR TYPES
(APPLIES TO ALL ANCHORS GOING THROUGH THE DOOR FRAME):

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

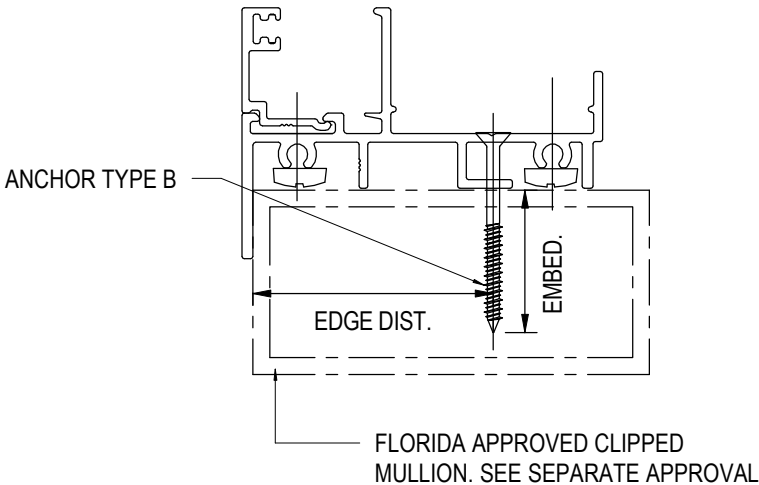
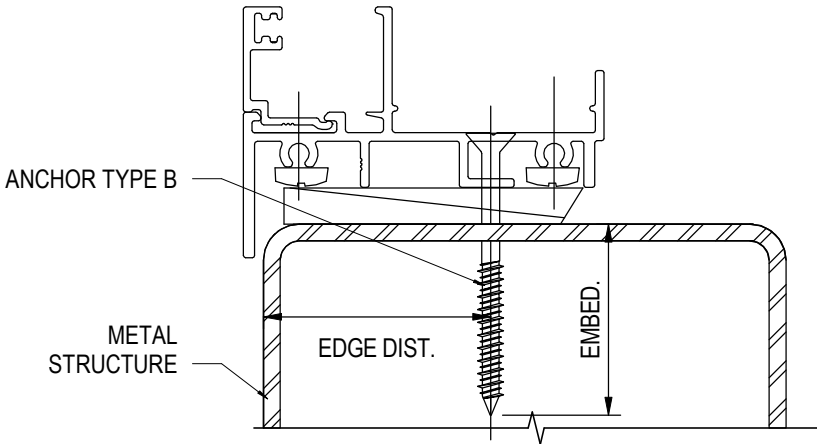
- DIRECTLY INTO CONCRETE, OR HOLLOW/GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, AND 1-1/2" MIN. EDGE DISTANCE AND 16" O.C. SPACING
- INTO 2BY WOOD WITH 1-1/2" MIN PENETRATION, AND 1-1/4" MIN EDGE DISTANCE

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

- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH MIN. (3) THREADS EXTENDED BEYOND METAL THICKNESS, 3/4" MIN.EDGE DISTANCE AND 16" O.C. SPACING
- INTO APPROVED MULLIONS MIN. 1/8" THK. WITH MIN. (3) THREADS EXTENDED BEYOND METAL THICKNESS, 3/4" MIN.EDGE DISTANCE AND 16" O.C. SPACING

1
107
TYPICAL ANCHORAGE INTO CONCRETE
NOT TO SCALE

3
107
TYPICAL ANCHORAGE INTO WOODEN SUBSTRATE
NOT TO SCALE



- ANCHOR / SUBSTRATE NOTES:**
- WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
 - CONCRETE AT HEAD 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 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 WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THE SUPPORTING STRUCTURE MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM.

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

2
107
TYPICAL ANCHORAGE INTO METAL SUBSTRATE
NOT TO SCALE

4
107
TYPICAL ANCHORAGE INTO ALUMINUM MULLION
NOT TO SCALE



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drawing no.	date:	JA-2042-24	drawn by:	ST	check by:	MK	REVISION		
							BY	DESCRIPTION	
No.									

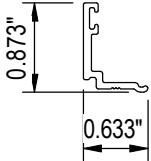
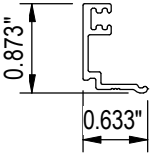
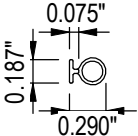
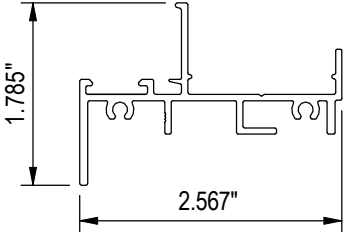
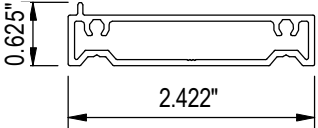
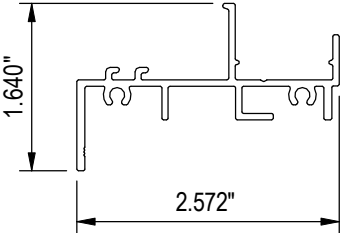
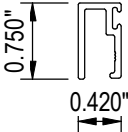
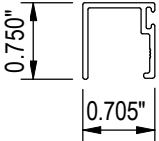
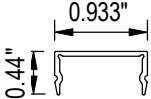
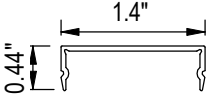
ECO-NOVO SERIES 375: FIX WINDOW SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



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



SEALED: 12/19/2024

1. GLASS STOP  ALLOY 6063-T6E278	2. GLASS STOP  ALLOY 6063-T6E279	3. BULB GASKET  TPE & POLYPROPYLENEG283	4. FRAME HEAD  ALLOY 6063-T6E371	5. FLUSH ADAPTER  ALLOY 6063-T6E372
6. FRAME FOR SHAPES  ALLOY 6063-T52E373	7. GLASS STOP FOR SHAPES  ALLOY 6063-T52E374	8. GLASS STOP FOR SHAPES  ALLOY 6063-T52E375	9. INSTALLATION SCREW COVER FOR SHAPES  PVCXXX	10. INSTALLATION SCREW COVER  PVCXXX

BILL OF MATERIAL					
ITEM#	PART#	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E278	AS REQD.	GLASS STOP	ALLOY 6063-T6	-
2	E279	AS REQD.	GLASS STOP	ALLOY 6063-T6	-
3	G283	AS REQD.	BULB GASKET	TPE & POLYPROPYLENE	-
4	E371	AS REQD.	FRAME HEAD	ALLOY 6063-T6	-
5	E372	AS REQD.	FLUSH ADAPTER	ALLOY 6063-T6	-
6	E373	AS REQD.	FRAME FOR SHAPES	ALLOY 6063-T52	-
7	E374	AS REQD.	GLASS STOP FOR SHAPES	ALLOY 6063-T52	-
8	E375	AS REQD.	GLASS STOP FOR SHAPES	ALLOY 6063-T52	-
9	-	AS REQD.	INSTALLATION SCREW COVER FOR SHAPES	PVC	-
10	-	AS REQD.	INSTALLATION SCREW COVER	PVC	-



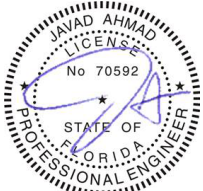
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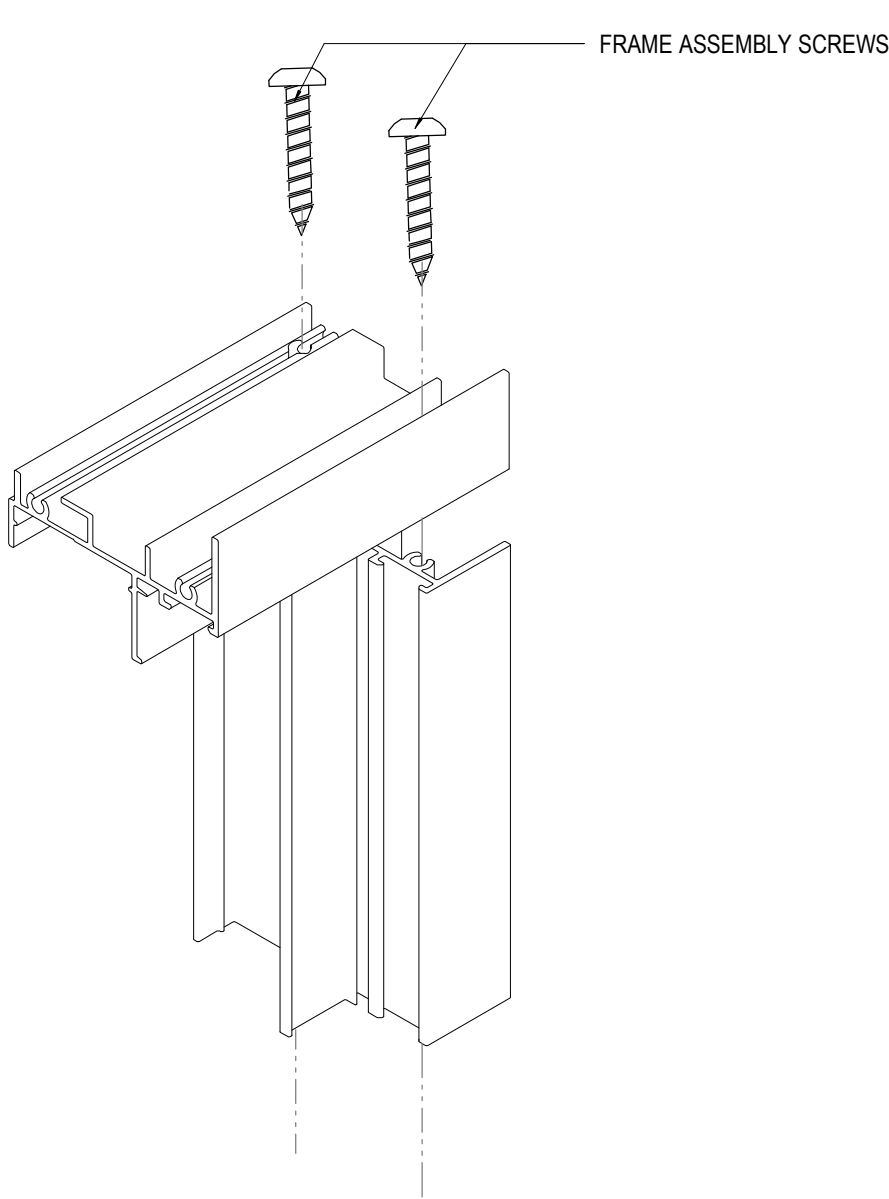
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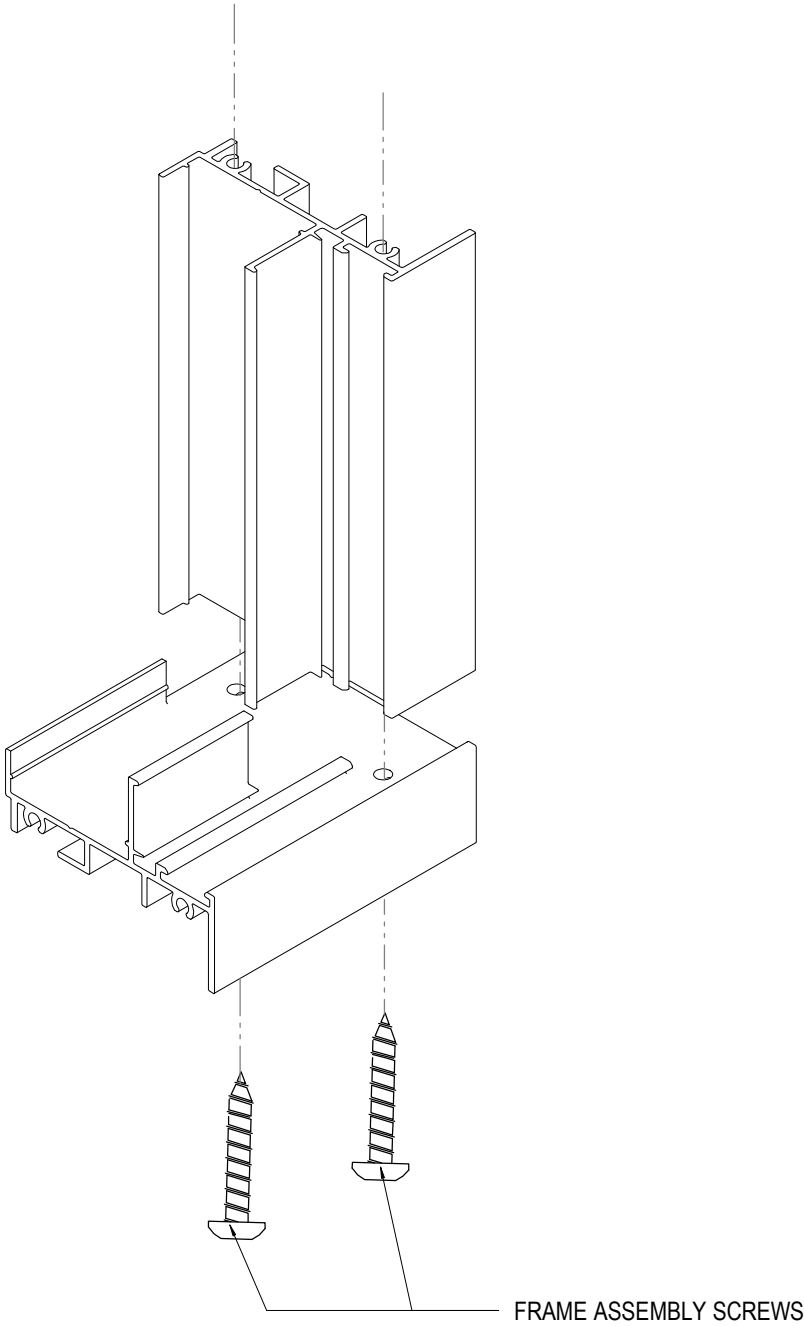
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FRAME TOP CORNER



FRAME BOTTOM CORNER



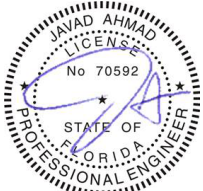
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