

ECO WINDOW SYSTEMS,LLC

ECO-NOVO SERIES: 375 FIX WINDOW SYSTEM

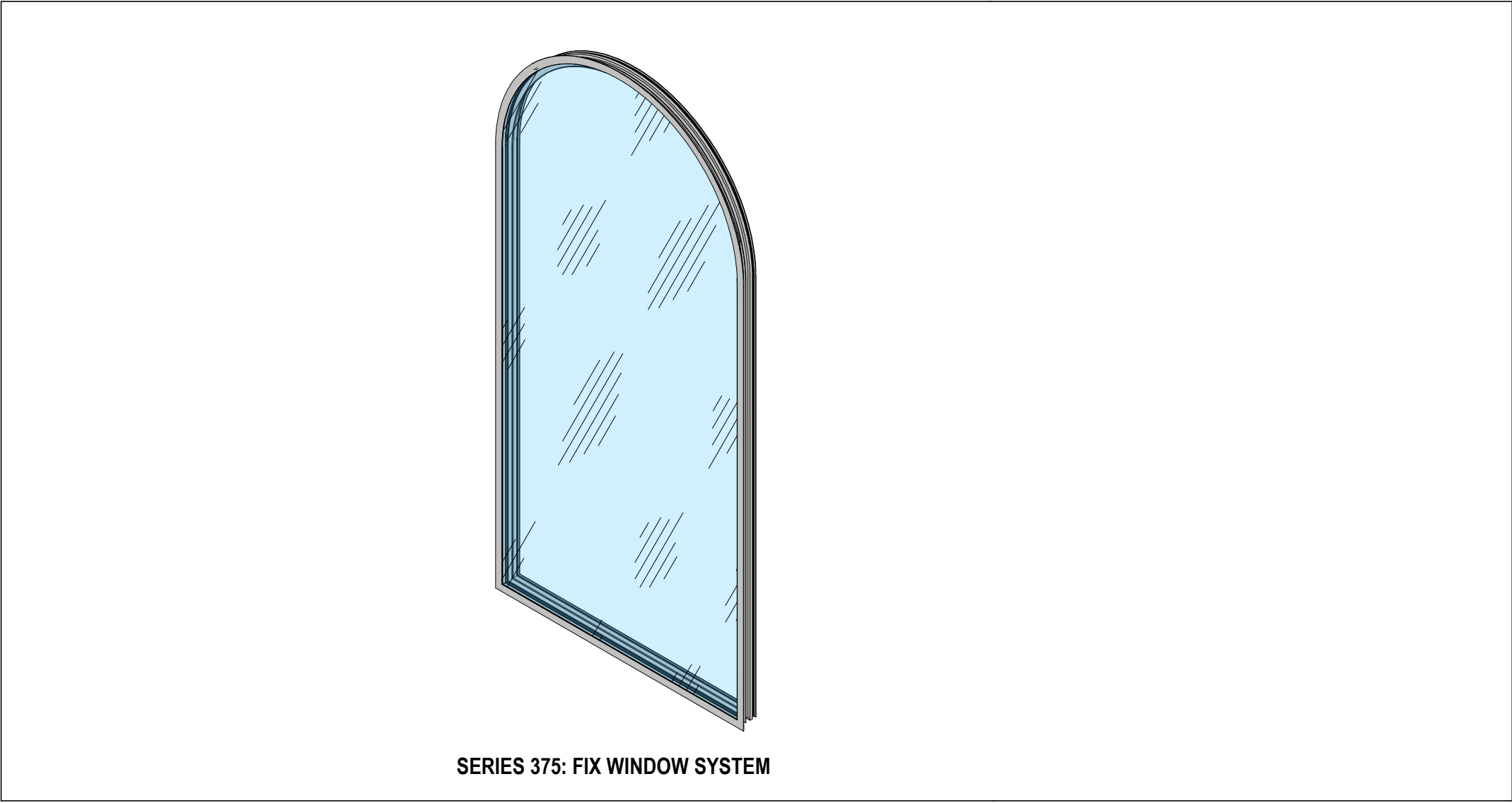
(SMALL AND LARGE MISSILE IMPACT RATED)

FL# 47215

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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.

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

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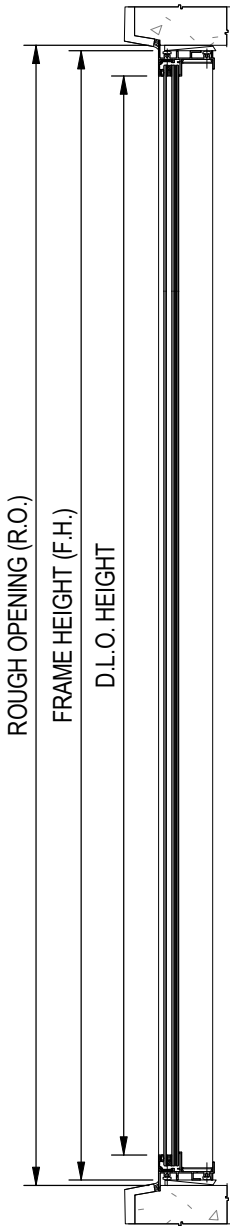
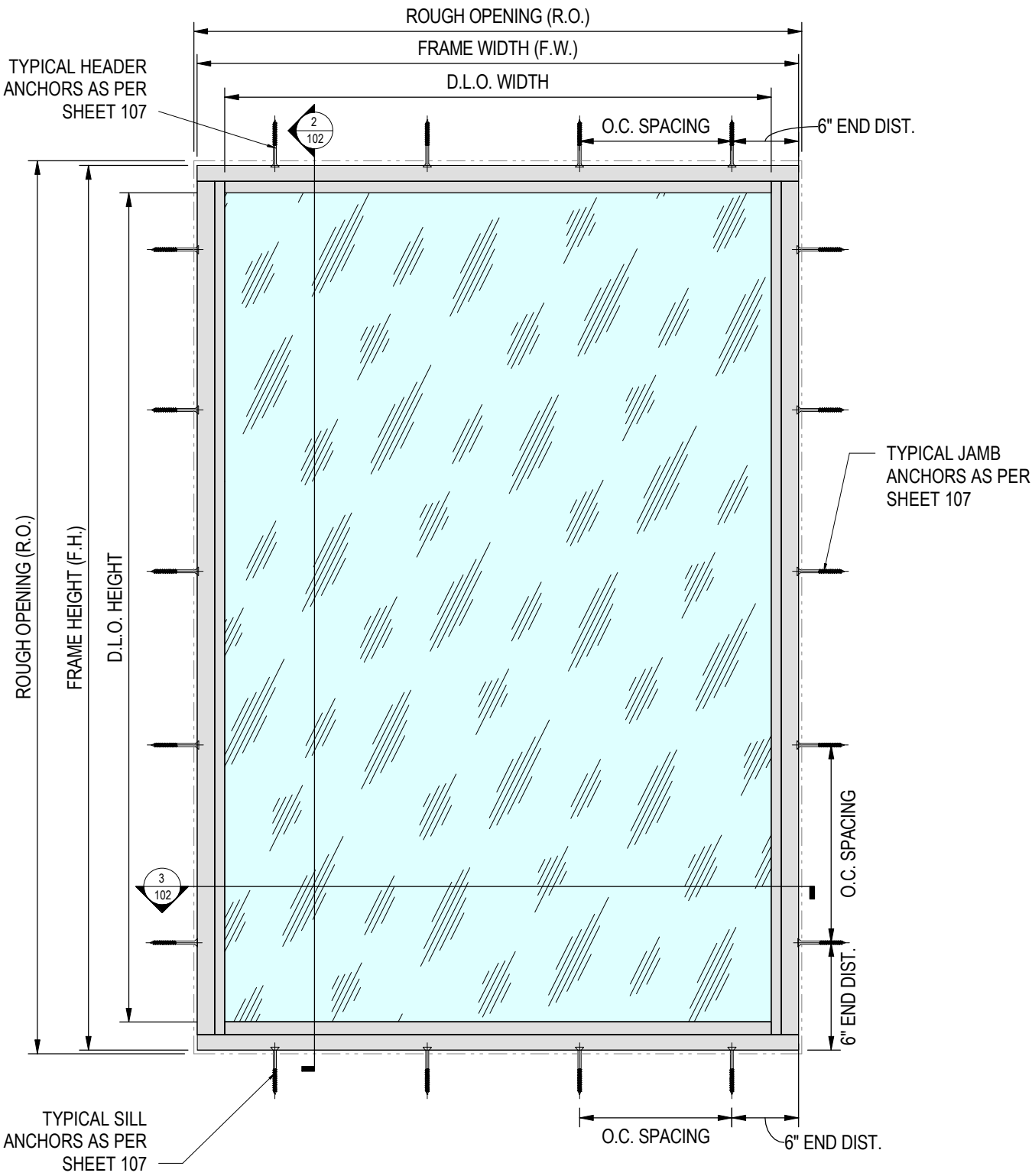
101

101 OF 109

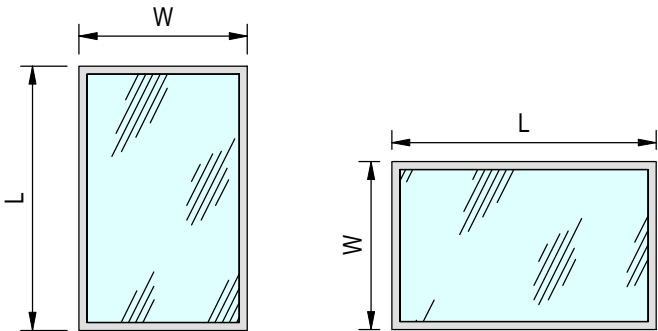


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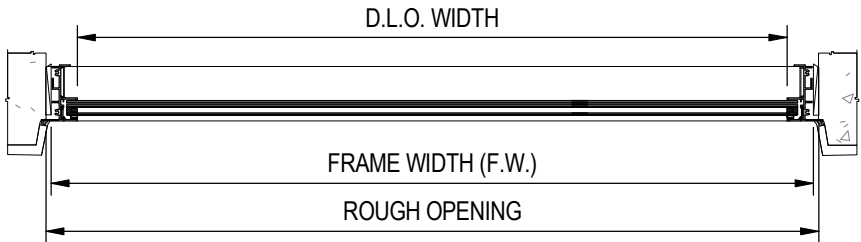
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2
102
VERTICAL SECTIONAL VIEW
NOT TO SCALE



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.

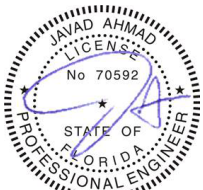
FOR NON-RECTANGULAR SHAPES, THE MAX. DIMENISONS OF THE FRAME SHALL BE MEASURED BY MAKING A RECTANGLE COVERING THE COMPLETE FRAME AS SHOWN IN SHEET 103.

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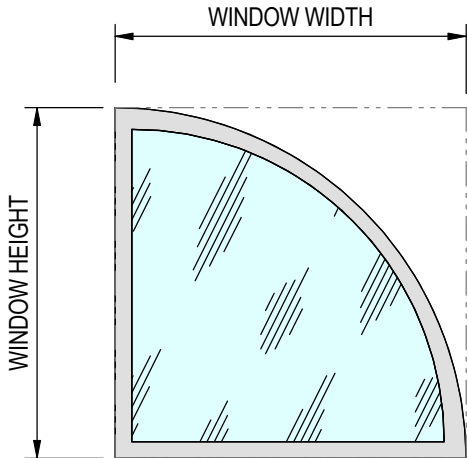
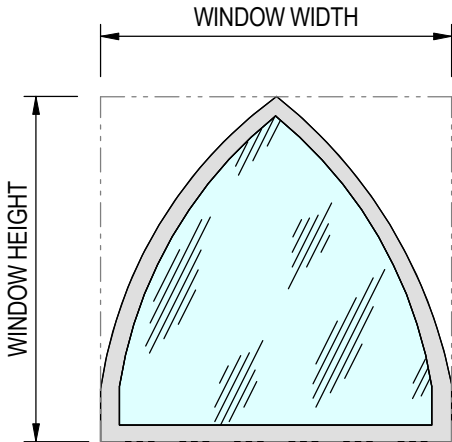
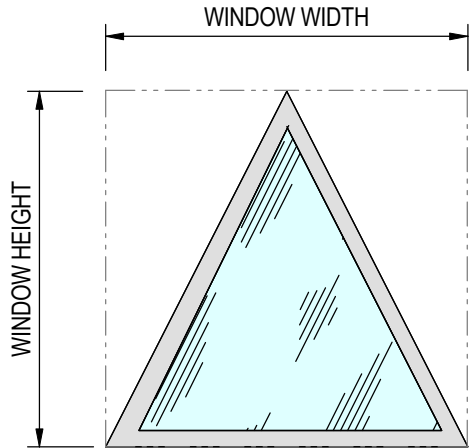
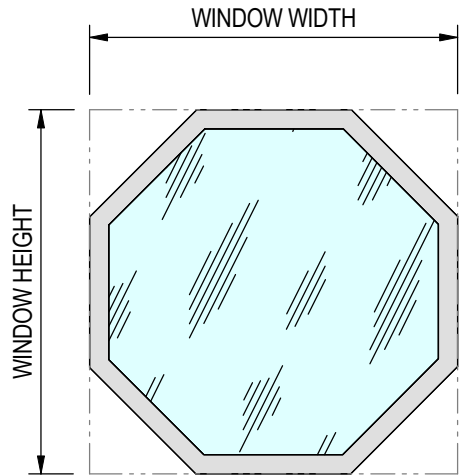
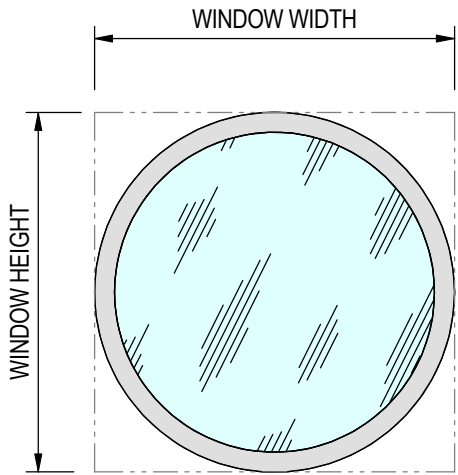
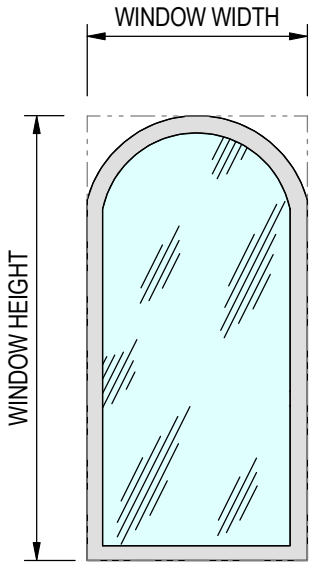
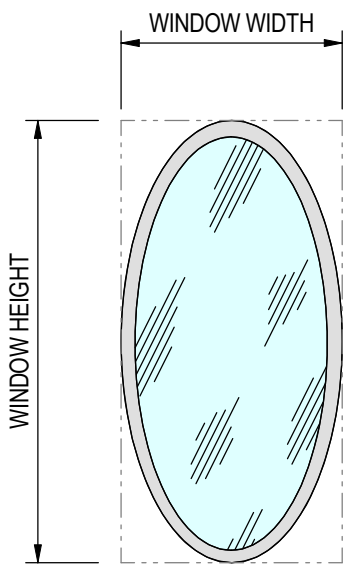
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(LARGE AND SMALL MISSILE IMPACT RATED)



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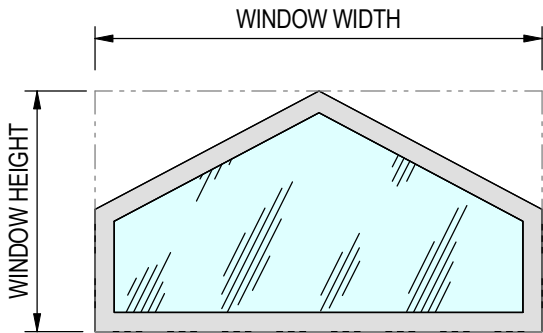
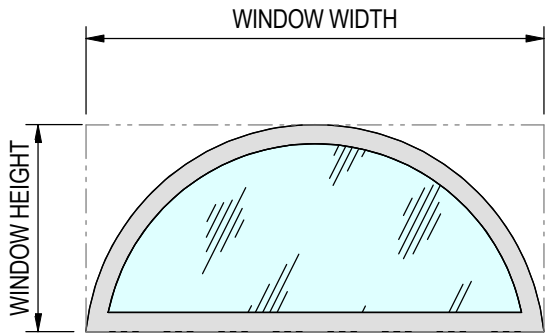
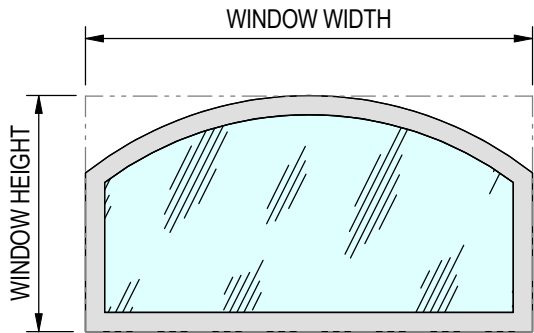


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NOTE:
DESIGN PRESSURE AND FRAME SIZES AS PER SHEET 102

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.



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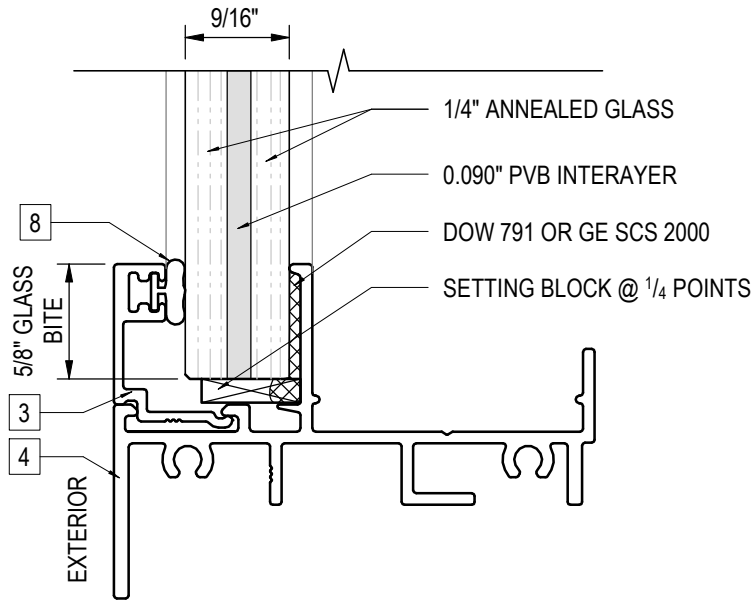
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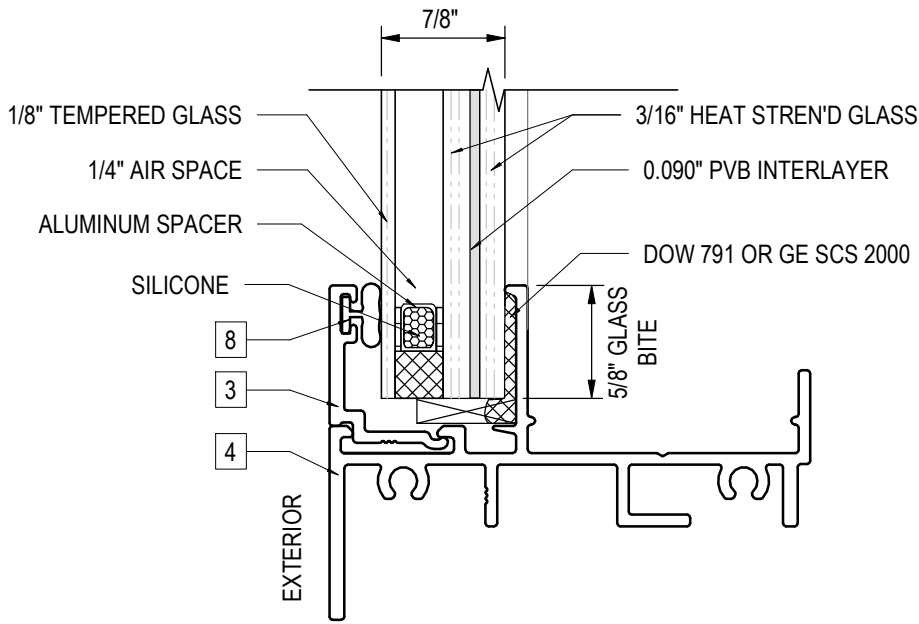
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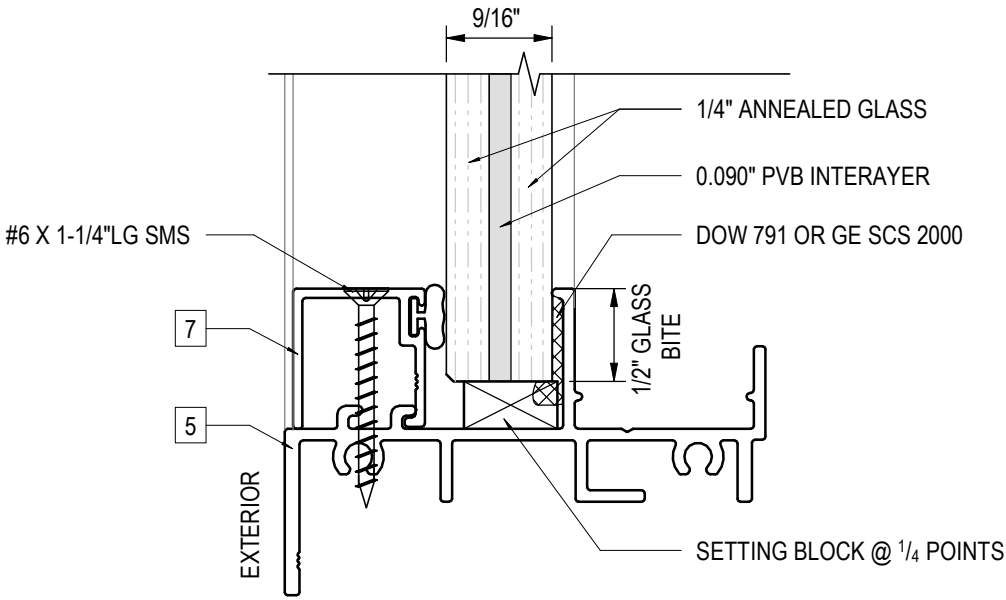
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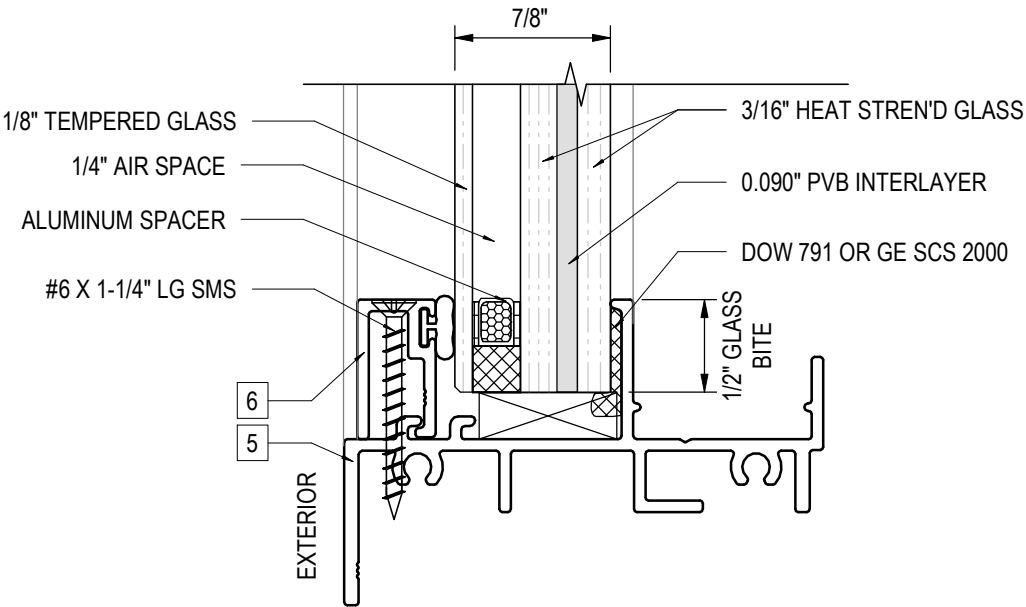
1
104
GLAZING DETAIL A
NOT TO SCALE



3
104
GLAZING DETAIL B
NOT TO SCALE



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



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



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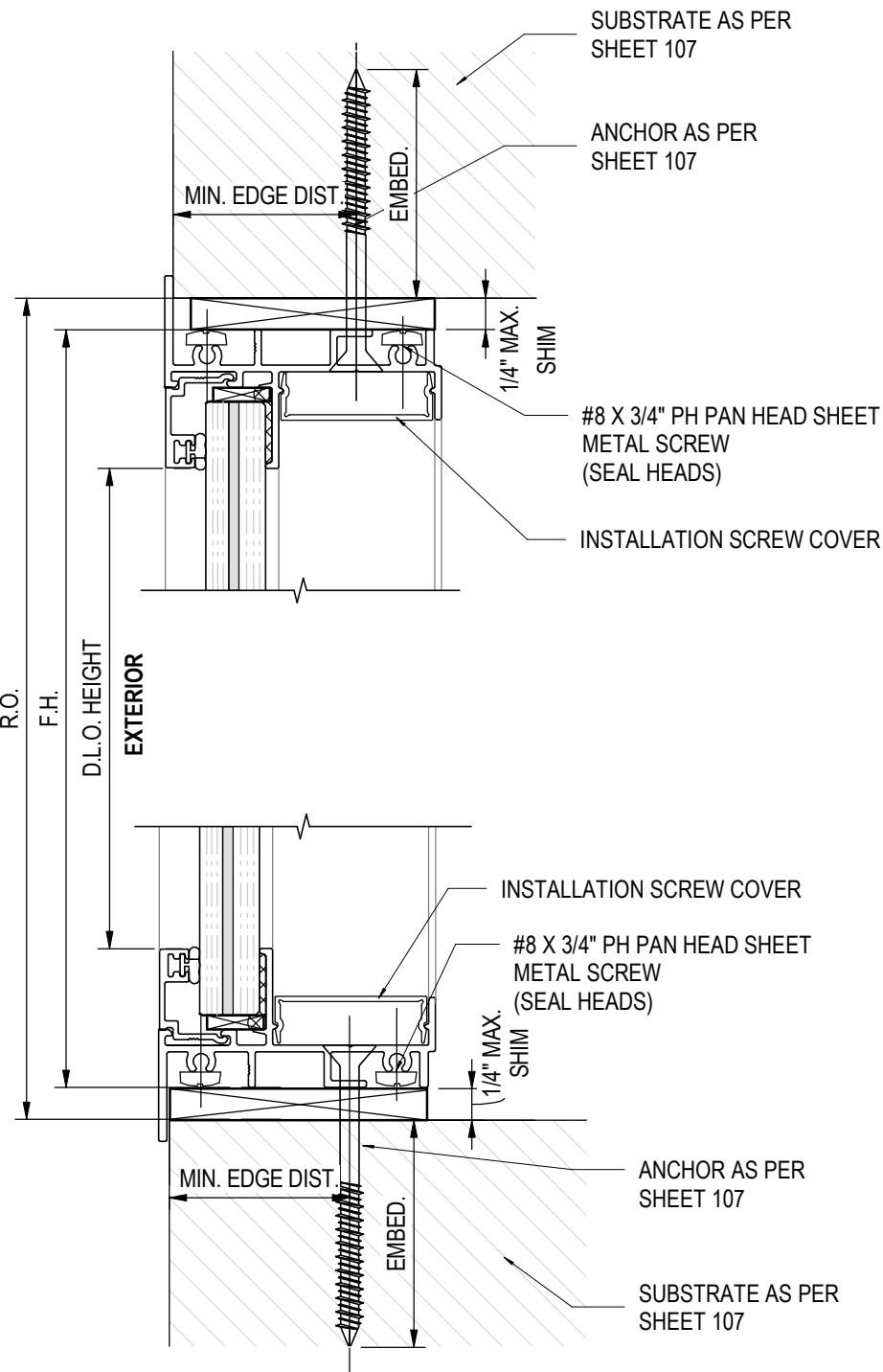
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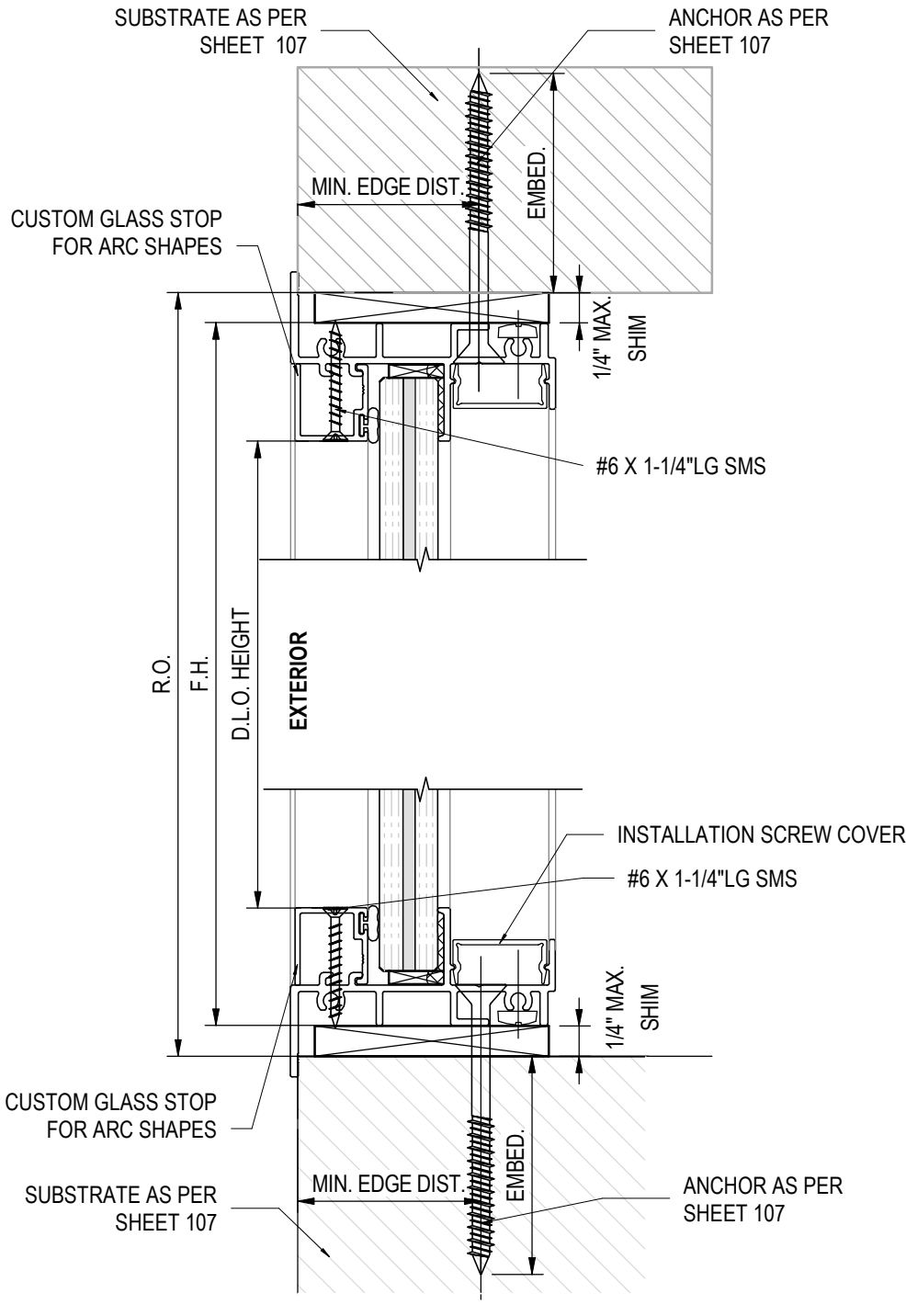
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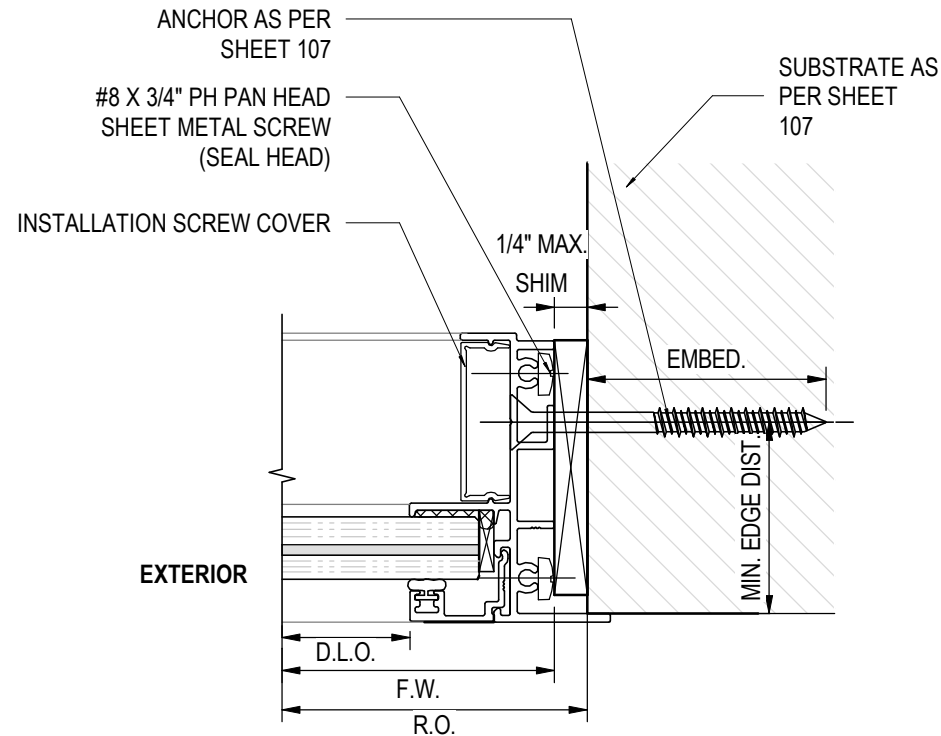
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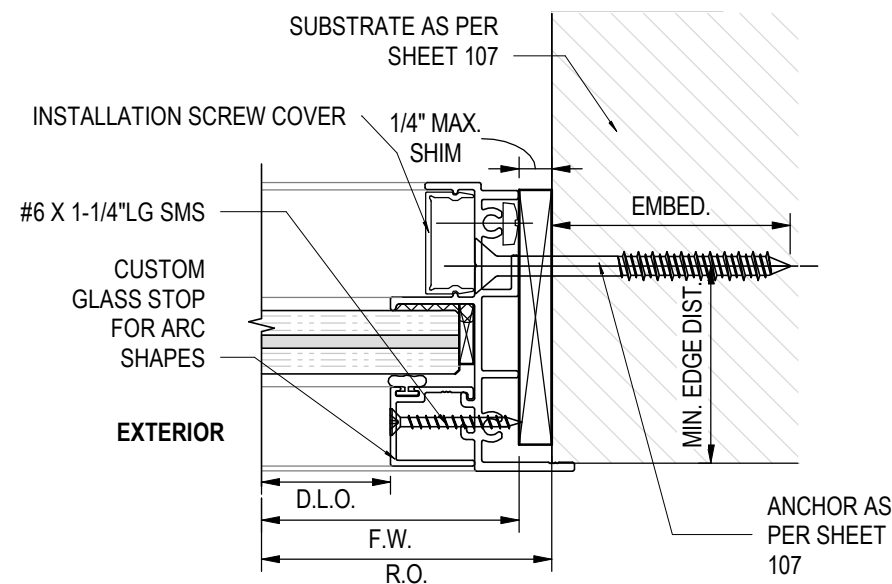
1 HEAD/SILL SECTIONAL DETAIL
105 NOT TO SCALE



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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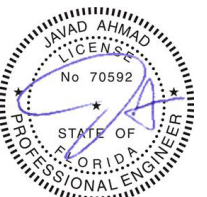
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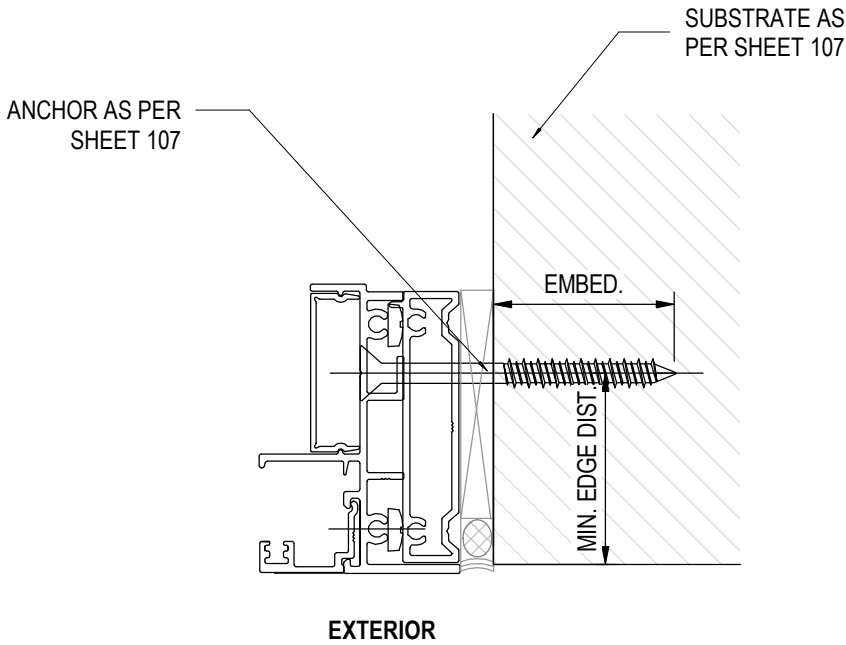
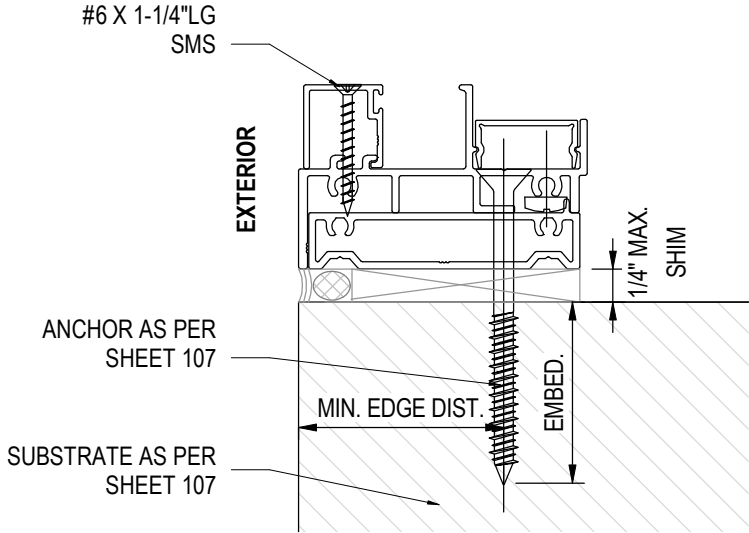
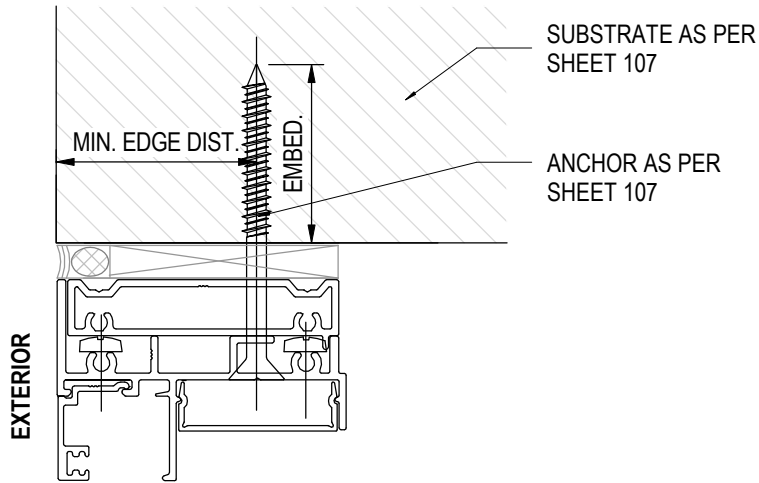
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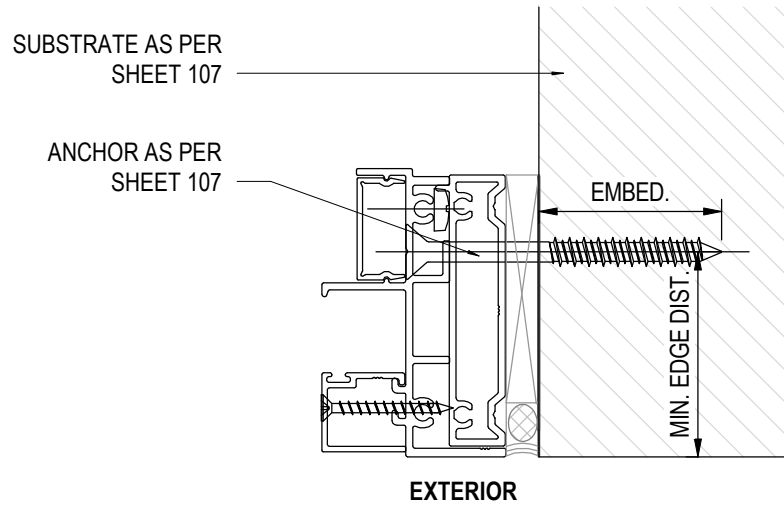
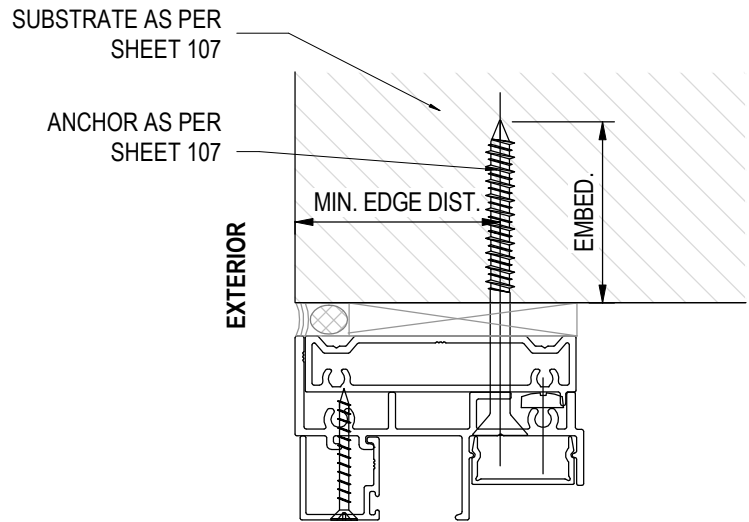
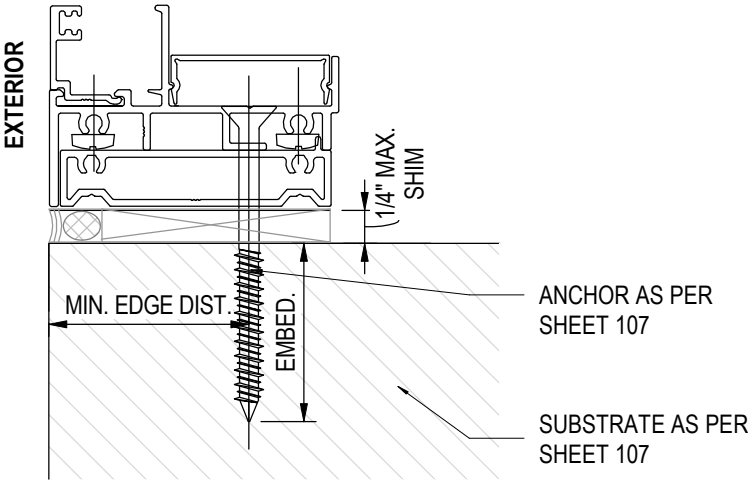
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1 HEAD SECTIONAL DETAIL WITH FLUSH ADAPTER
106 NOT TO SCALE

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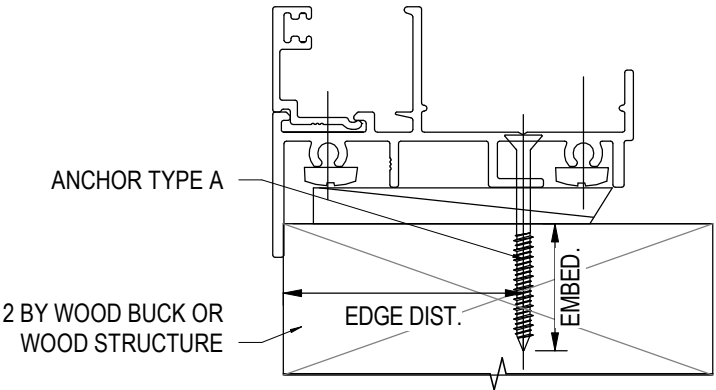
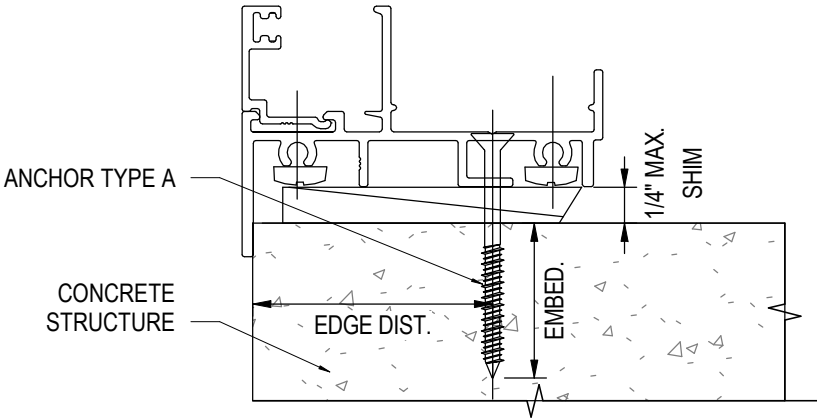
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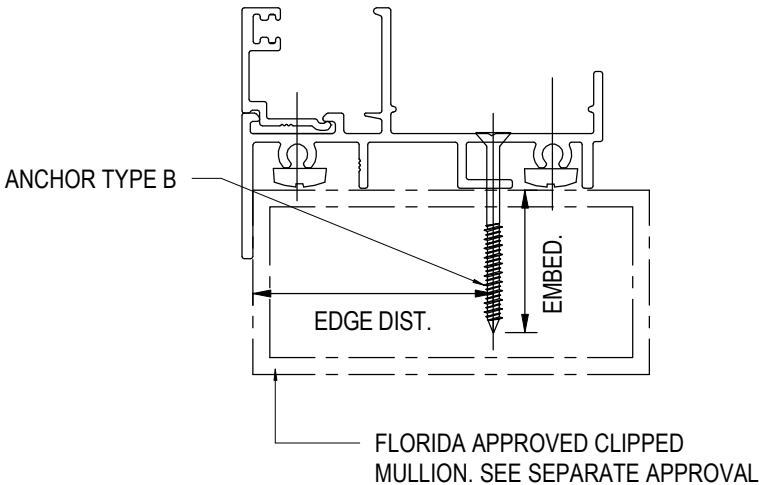
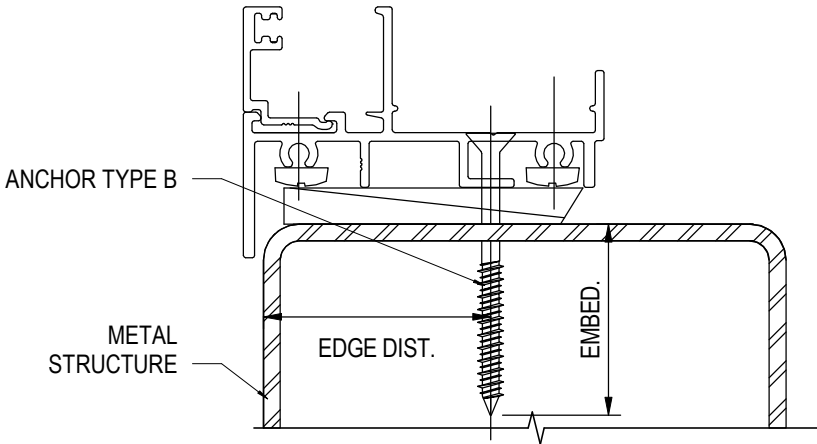
TYPICAL ANCHOR TYPES
(APPLIES TO ALL ANCHORS GOING THROUGH THE DOOR FRAME):

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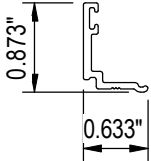
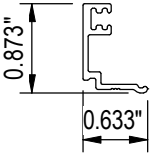
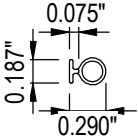
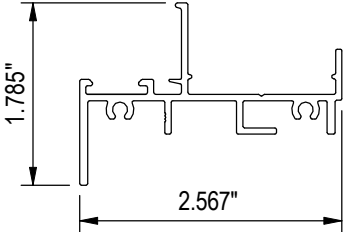
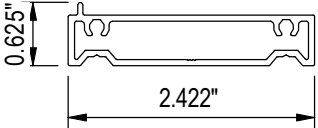
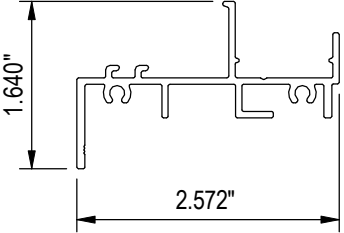
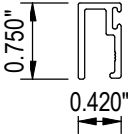
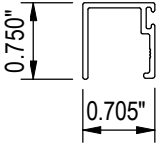
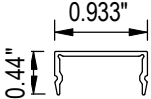
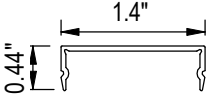
ECO-NOVO SERIES 375: FIX WINDOW SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



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	-



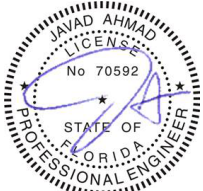
JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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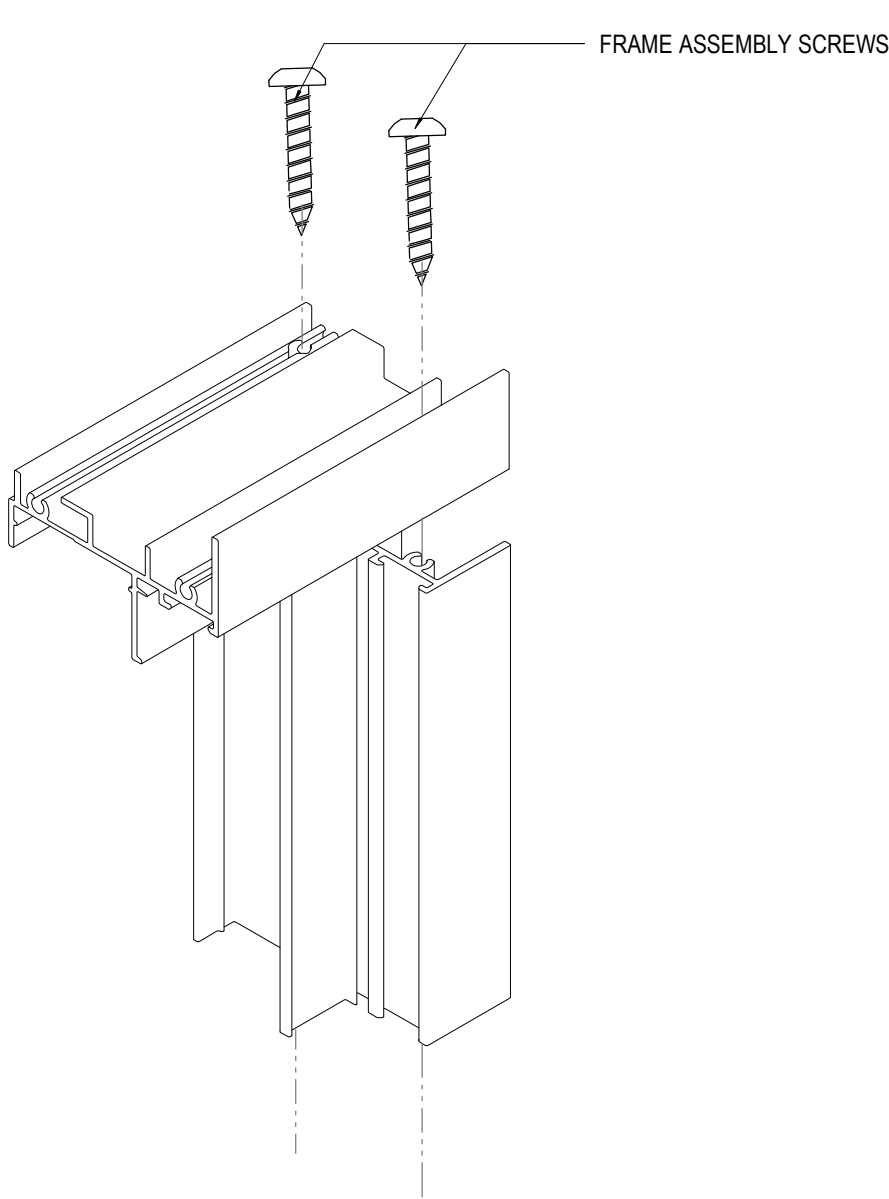
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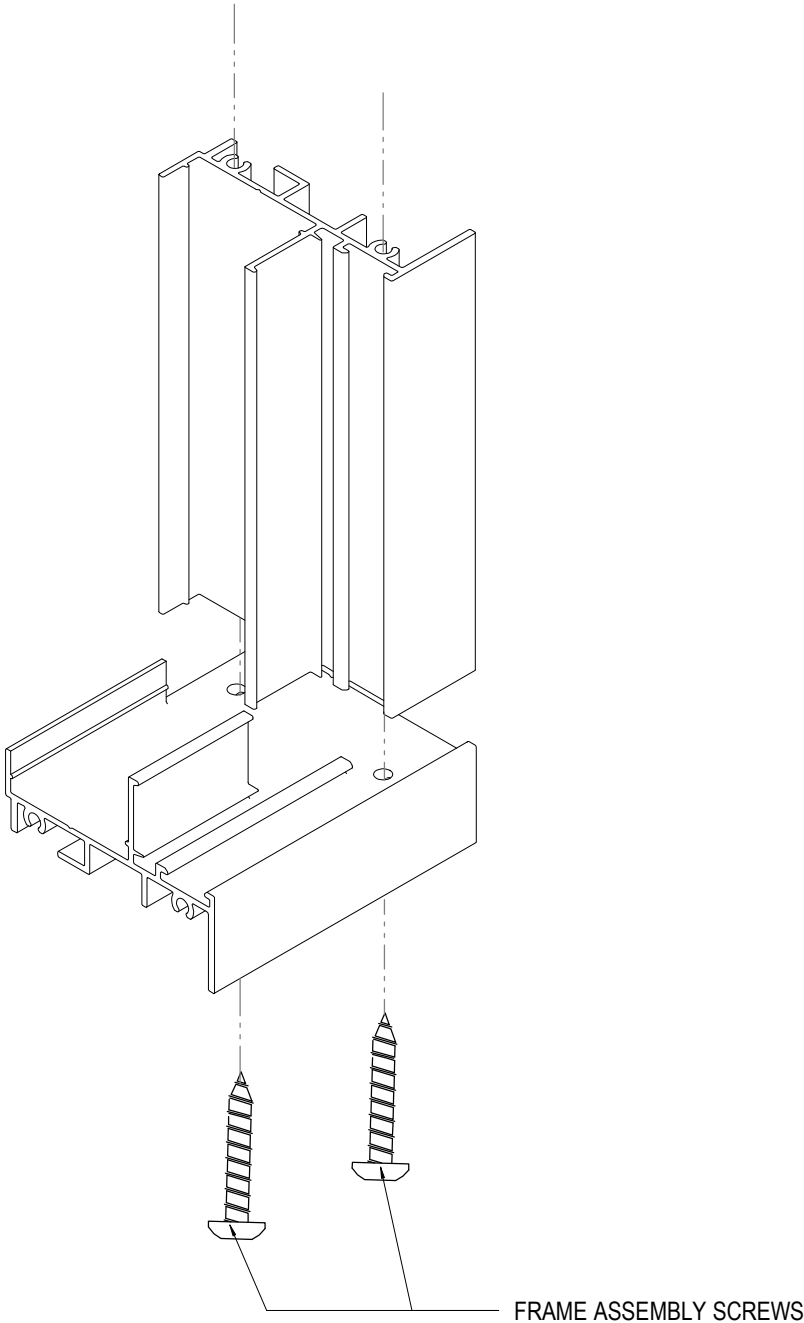
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FRAME TOP CORNER



FRAME BOTTOM CORNER



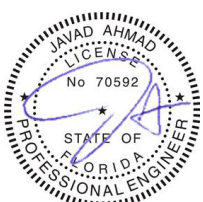
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