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DESIGN PRESSURES:

PLEASE SEE SHEET 103

NOTE: THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED AMERICAN STEEL MANUFACTURING 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.

NOTE: MATERIAL SELECTION AND CORROSION PROTECTION SHALL BE VERIFIED FOR THE APPLICABLE COASTAL DISTANCE AND EXPOSURE CONDITION IN ACCORDANCE WITH SECTION 1711 AND TABLE 1711.1 OF THE 2026 FBC.

CORROSION PROTECTION: ANCHORS AND ALL RELATED ATTACHMENT HARDWARE SHALL BE MANUFACTURED FROM CORROSION-RESISTANT MATERIALS OR PROTECTED BY AN APPROVED CORROSION-RESISTANT FINISH. FOR INSTALLATIONS WITHIN 3,000 FEET OF A SALTWATER COASTLINE, PROVIDE THE FOLLOWING:

1. FASTENERS INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED TO ASTM A153, CLASS D; ASTM A641, CLASS 3S; OR PROVIDED WITH EQUIVALENT CORROSION PROTECTION.

2. CONNECTORS AND METAL PLATES SHALL HAVE A STANDARD GALVANIZED FINISH COMPLYING WITH ASTM A653, G90; ASTM A123; OR AN APPROVED PROTECTIVE COATING COMPLYING WITH TPI 1.

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023 FBC)/ 9TH EDITION (2026 FBC) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201/202/203.
2. GLASS CAPACITIES MENTIONED IN THE PRESSURE CHARTS. THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
3. DESIGN PRESSURES MENTIONED IN THIS CERTIFICATION ARE ALLOWABLE PRESSURE (ASD) BASED ON TESTED PRESSURE DIVIDED BY A FACTOR OF SAFETY (2)
4. 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.
5. 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.
6. 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.

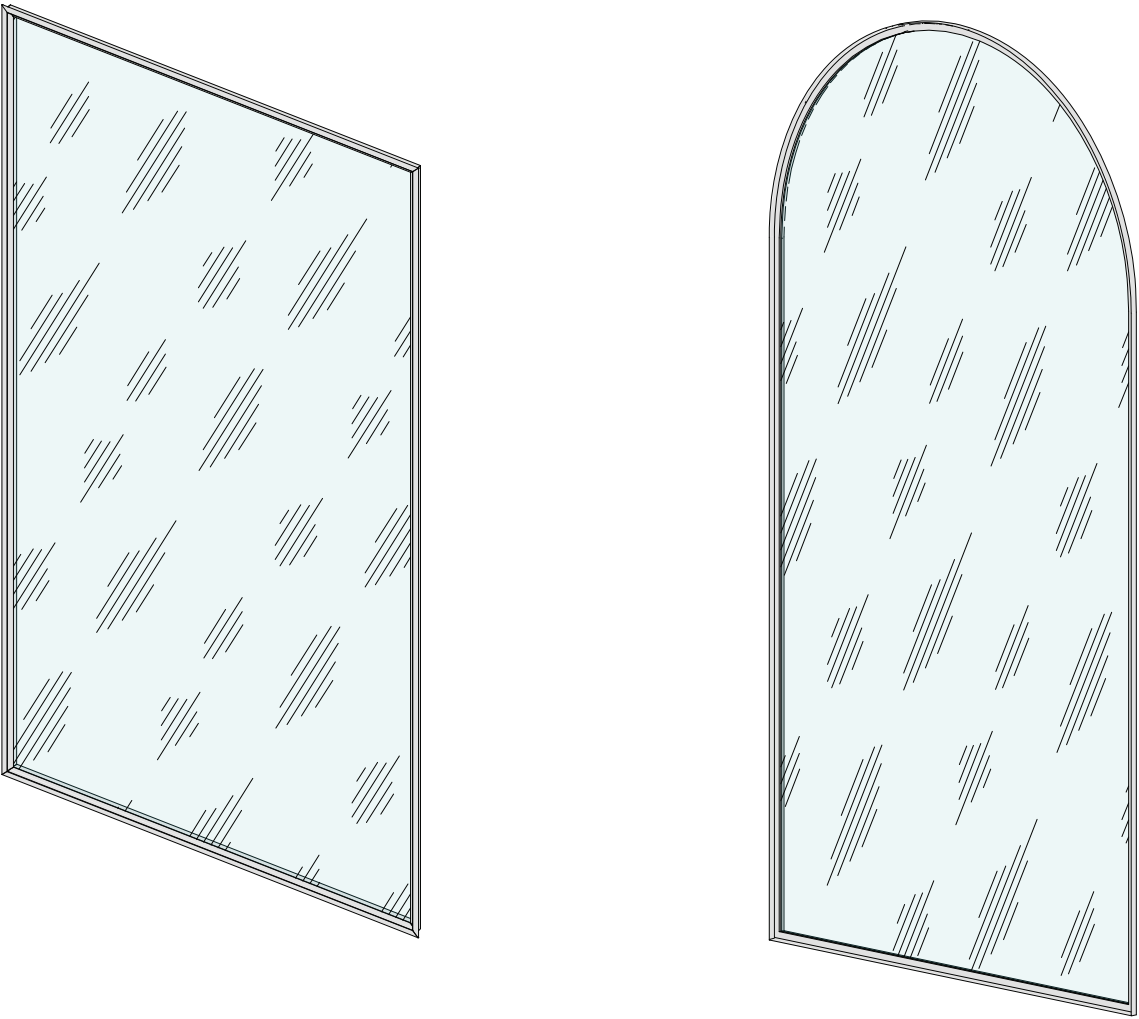
7. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE ANY SITE SPECIFIC INSTALLATION INFORMATION. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A QUALIFIED LICENSED ENGINEER IN THE STATE OF FLORIDA SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
8. THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. 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.
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. 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.
12. THIS PRODUCT IS APPROVED FOR FORCED ENTRY RESISTANCE AS PER ASTM F588.

13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
14. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
15. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
16. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

AMERICAN STEEL MANUFACTURING, LLC
280 W. HILLSBORO BLVD / DEERFIELD BEACH, FL 33441
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL FL# 48402

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

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.



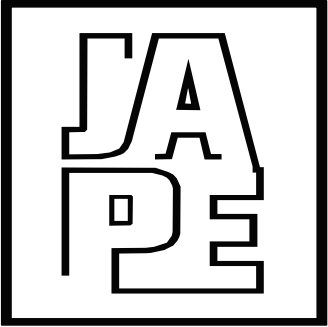
SKYLIGHT SYSTEM

AMERICAN STEEL MANUFACTURING, LLC

SKYLIGHT SYSTEM

(LARGE AND SMALL MISSILE IMPACT RATED)

FL# 48402



JAVAD AHMAD PE, inc

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support@ja-pe.com

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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :			
SKYLIGHT SYSTEM			
LARGE AND SMALL MISSILE IMPACT RATED			
CLIENT :			
AMERICAN STEEL MANUFACTURING, LLC			
280 W. HILLSBORO BLVD / DEERFIELD BEACH, FL 33441			
REVISION			
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Date:		08-18-2026	
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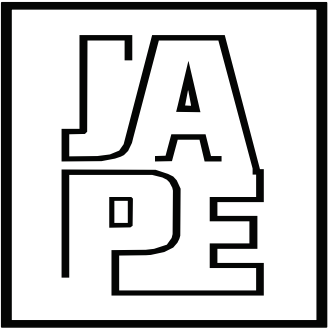
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TYPICAL ELEVATIONS

FL# 48402



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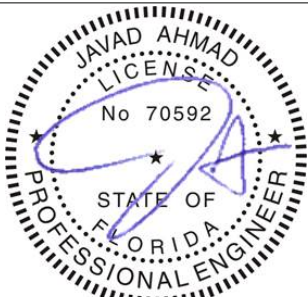
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SYSTEM	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	MAX. FRAME WIDTH	MAX. FRAME HEIGHT	PRESSURE CAPACITY
SKYLIGHT	48"	144"	50-3/4"	146-3/4"	TABLE 1/103

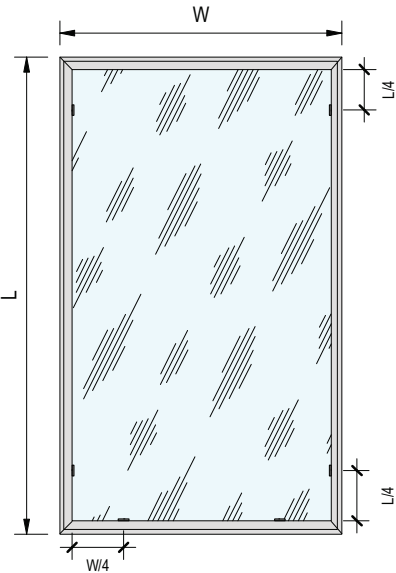
NOTE:

- THE PRESSURE TABLE ON SHEET 103 SHOWS THE ALLOWABLE DESIGN PRESSURES FOR EACH GLASS TYPE CALCULATED BASED ON THE TESTED AREA OF D.L.O.
- THE SKYLIGHT SIZE MUST ADHERE TO THE MAXIMUM LIMITS SPECIFIED ON THIS SHEET.

D.L.O. CALCULATION

- FOR SKYLIGHT SYSTEM

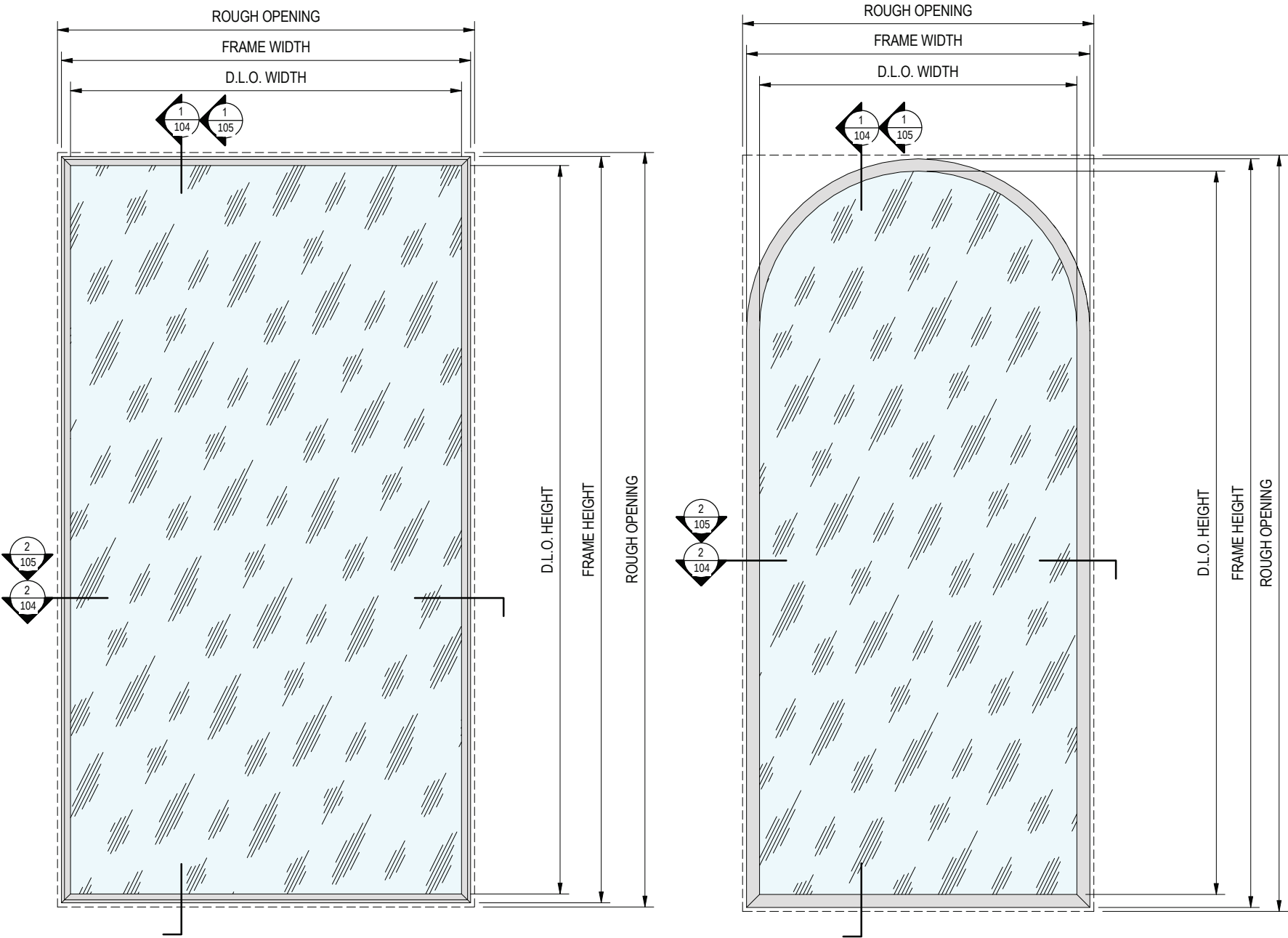
D.L.O. HEIGHT = FRAME HEIGHT - 2-3/4"
D.L.O. WIDTH = FRAME WIDTH - 2-3/4"



SETTING BLOCK LAYOUT

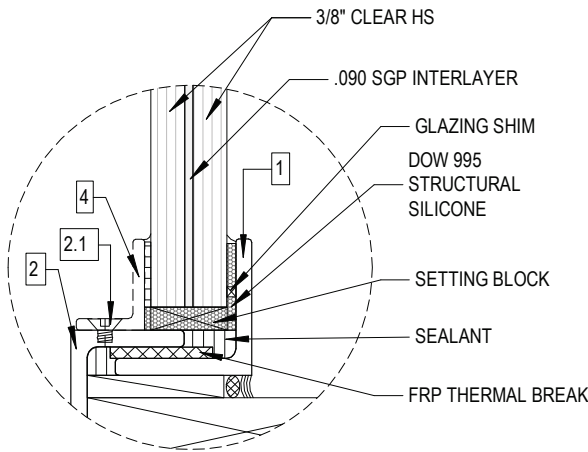
NOTE:

- FOR THERMALLY BROKEN - INTERIOR GLAZED: SEE SHEET 104
- FOR NON THERMALLY BROKEN - INTERIOR GLAZED: SEE SHEET 105



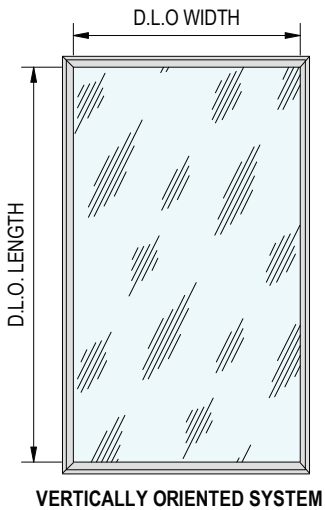
1
102 TYPICAL SKYLIGHT ELEVATION
NOT TO SCALE

2
102 TYPICAL ARCHED SKYLIGHT ELEVATION
NOT TO SCALE

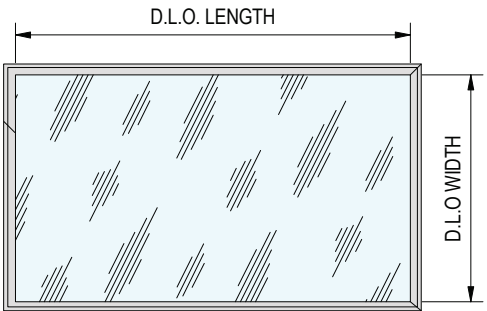


GL1 - 13/16" LAMINATED GLASS UNIT
NOT TO SCALE

NOTES:
MAXIMUM THICKNESS OF THERMAL BREAK IS 0.5"



VERTICALLY ORIENTED SYSTEM

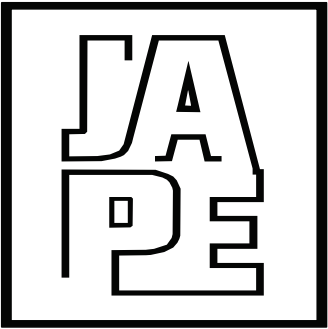


HORIZONTALLY ORIENTED SYSTEM

NOTE:
SEE SHEET 102 FOR D.L.O. CALCULATION

TABLE 1/103: ALLOWABLE DESIGN LOAD CAPACITY - PSF		
SKYLIGHT SYSTEM		
D.L.O. WIDTH (IN.)		GLASS TYPE
	D.L.O. LENGTH (IN.)	GL-1
48	48	+/- 65
	68	+/- 65
	84	+/- 65
	98	+/- 65
	124	+/- 65
	144	+/- 60

NOTE:
PRESSURES WILL REMAIN SAME FOR DIFFERENT FRAME MATERIALS.



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PROJECT :

SKYLIGHT SYSTEM

LARGE AND SMALL MISSILE
IMPACT RATED

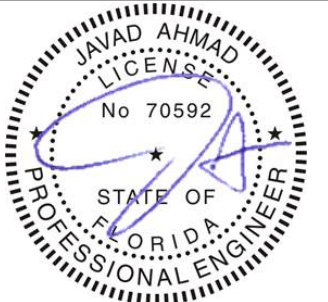
CLIENT :

AMERICAN STEEL
MANUFACTURING, LLC

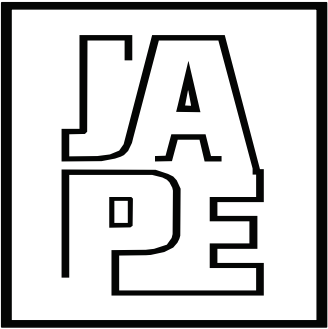
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DEERFIELD BEACH, FL 33441

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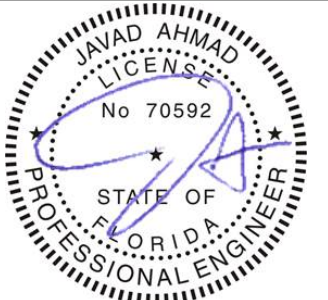
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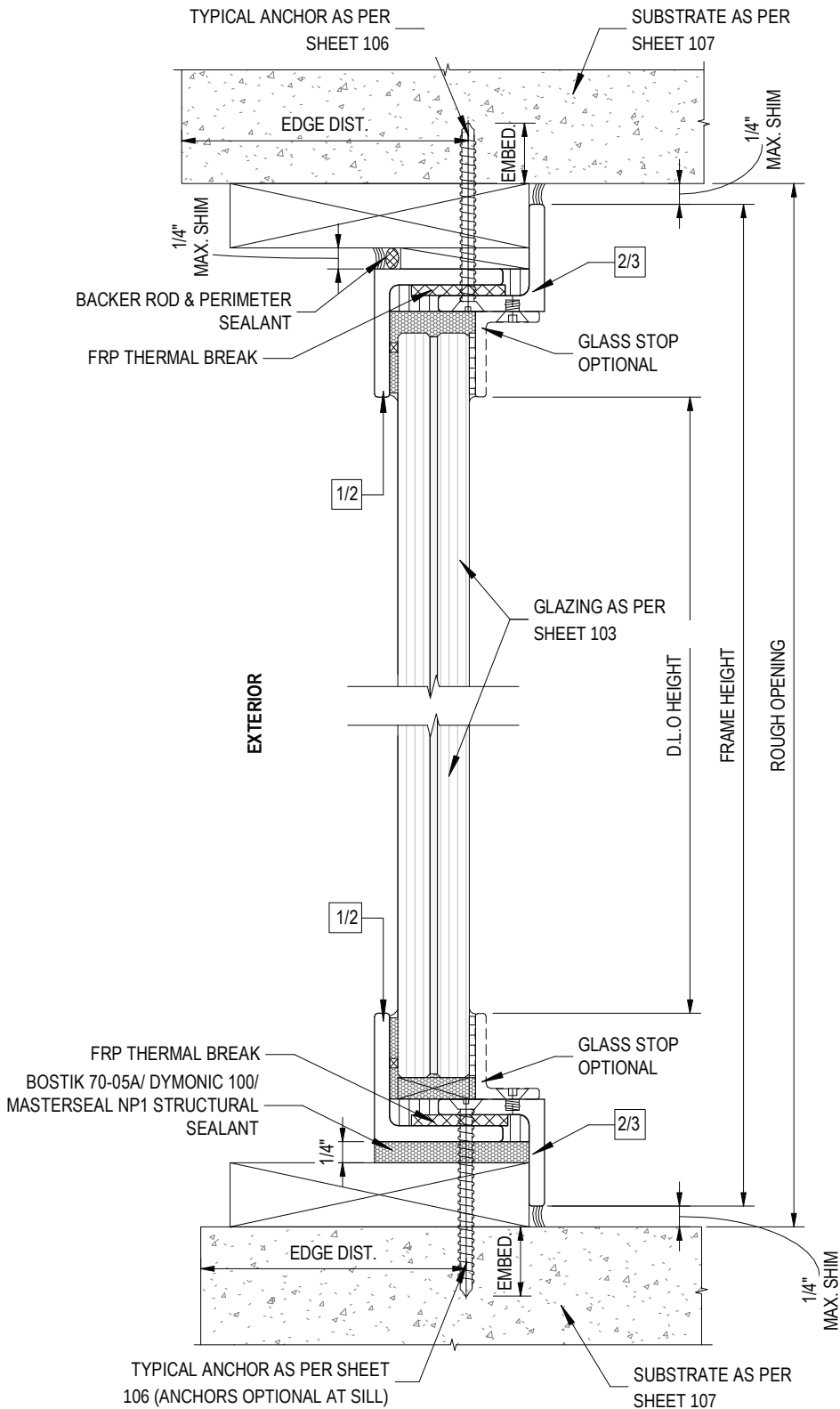
Drawing no. JA-1829-25

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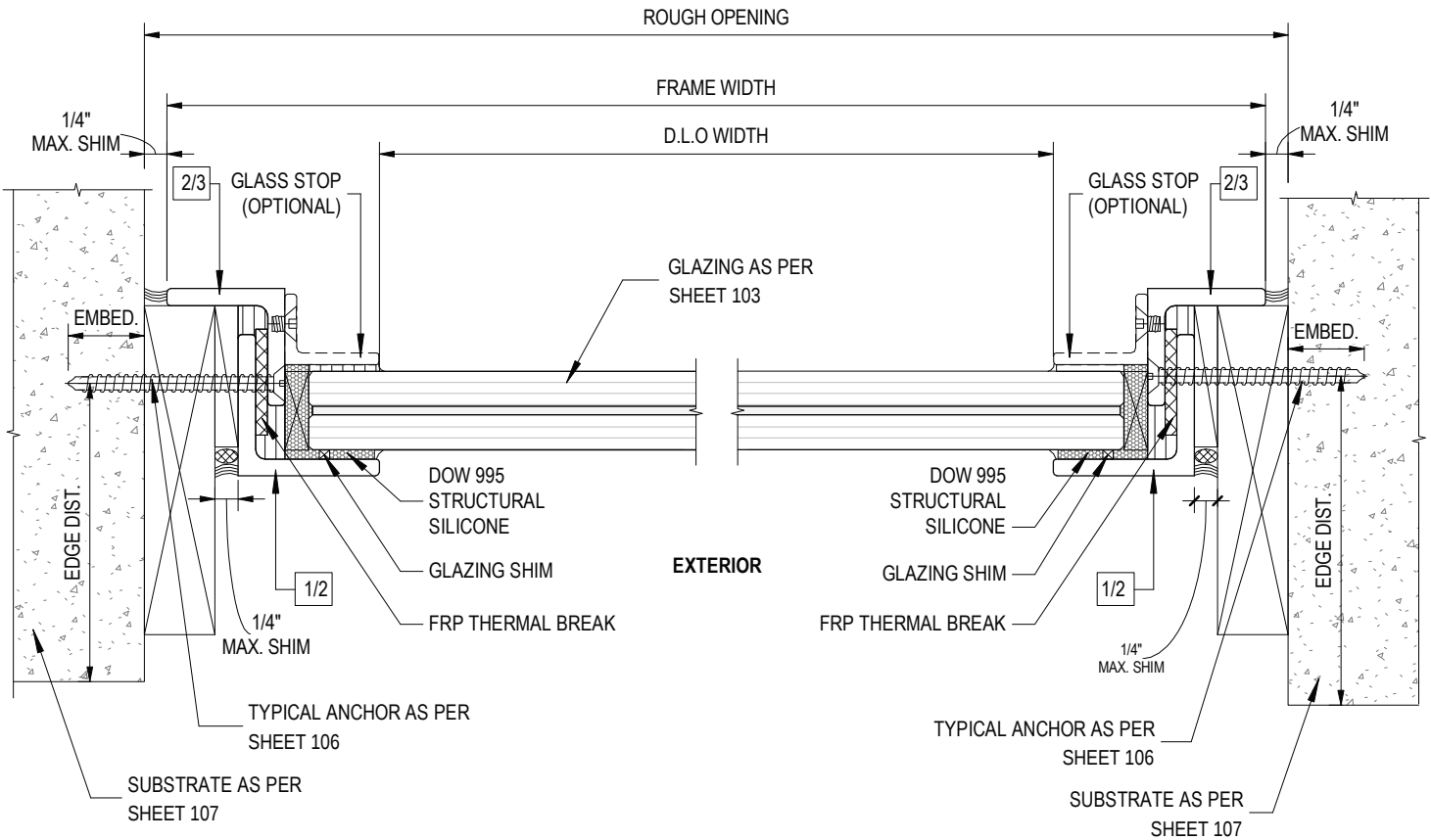


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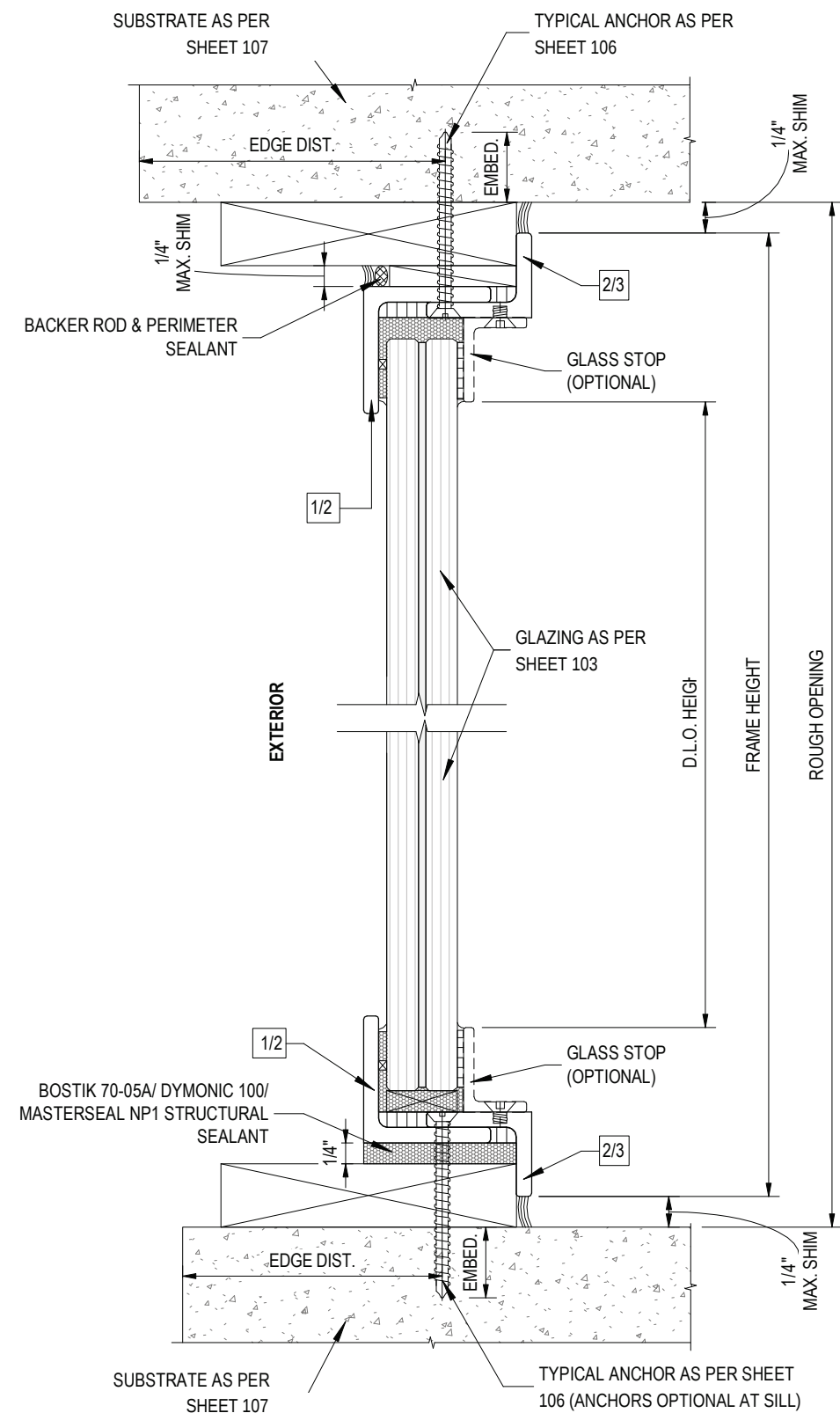
NOTE:
ANCHORS LAYOUT AS SHOWN ON SHEET 106 CAN BE USED IN LIEU OF
STRUCTURAL SILICON.



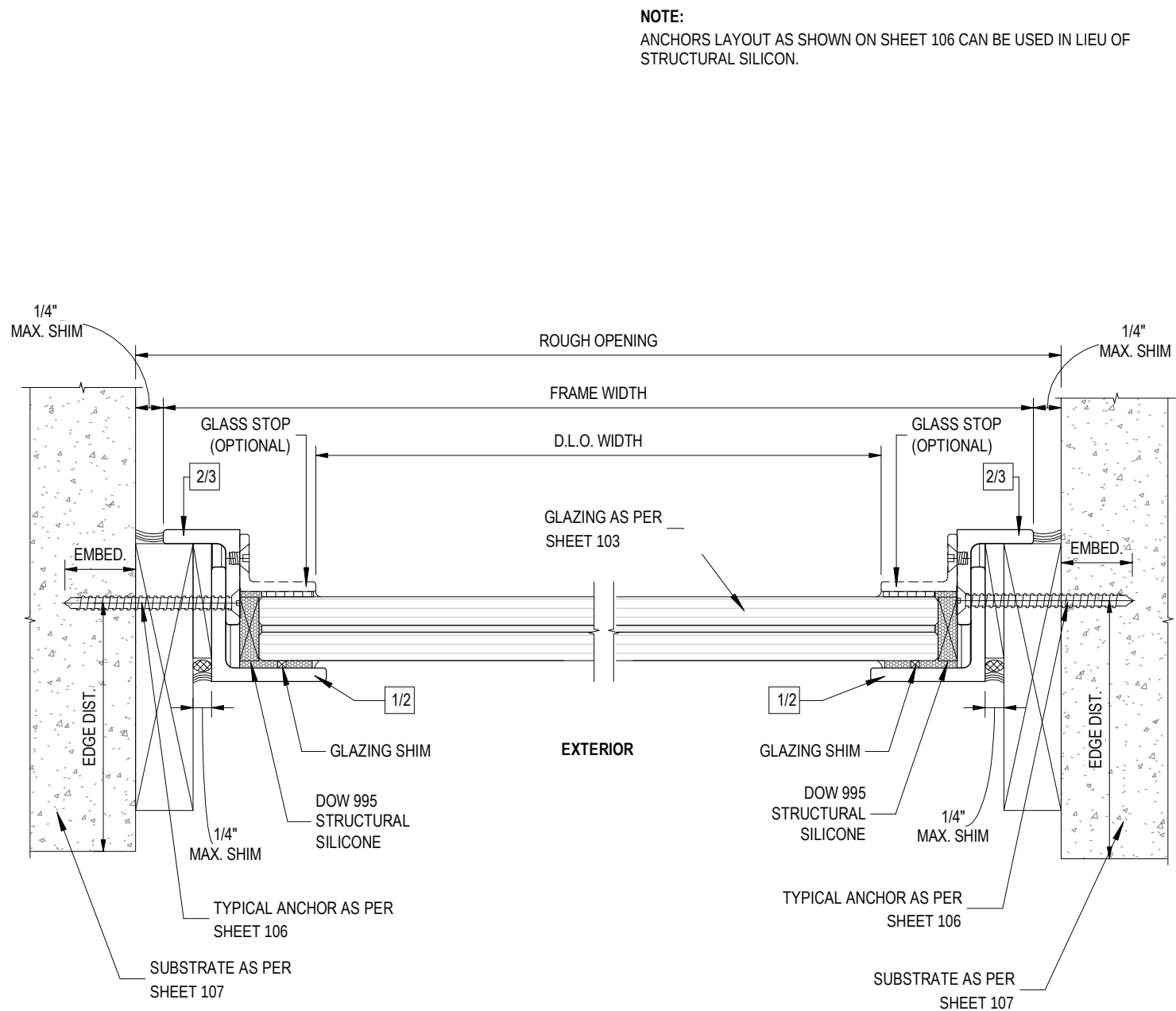
1 HEAD AND SILL DETAIL - INTERIOR GLAZED
104 NOT TO SCALE



2 JAMB DETAILS - INTERIOR GLAZED
104 NOT TO SCALE

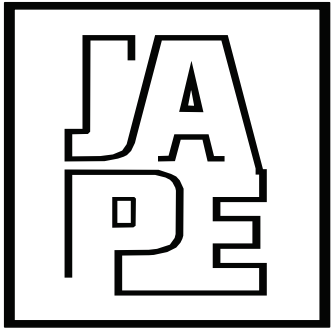


1 HEAD AND SILL DETAIL- INTERIOR GLAZED
105 NOT TO SCALE



2 JAMB DETAIL - INTERIOR GLAZED
105 NOT TO SCALE

NOTE:
ANCHORS LAYOUT AS SHOWN ON SHEET 106 CAN BE USED IN LIEU OF
STRUCTURAL SILICON.



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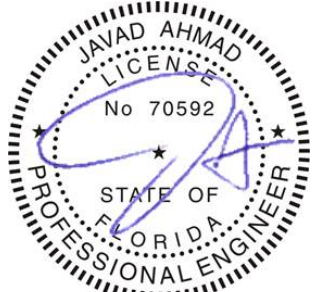
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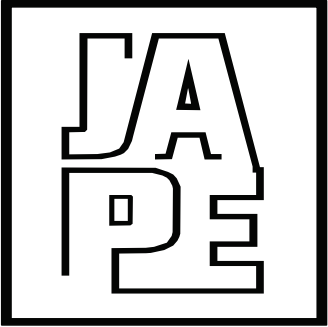
PROJECT :
SKYLIGHT SYSTEM
LARGE AND SMALL MISSILE IMPACT RATED
CLIENT :
AMERICAN STEEL MANUFACTURING, LLC
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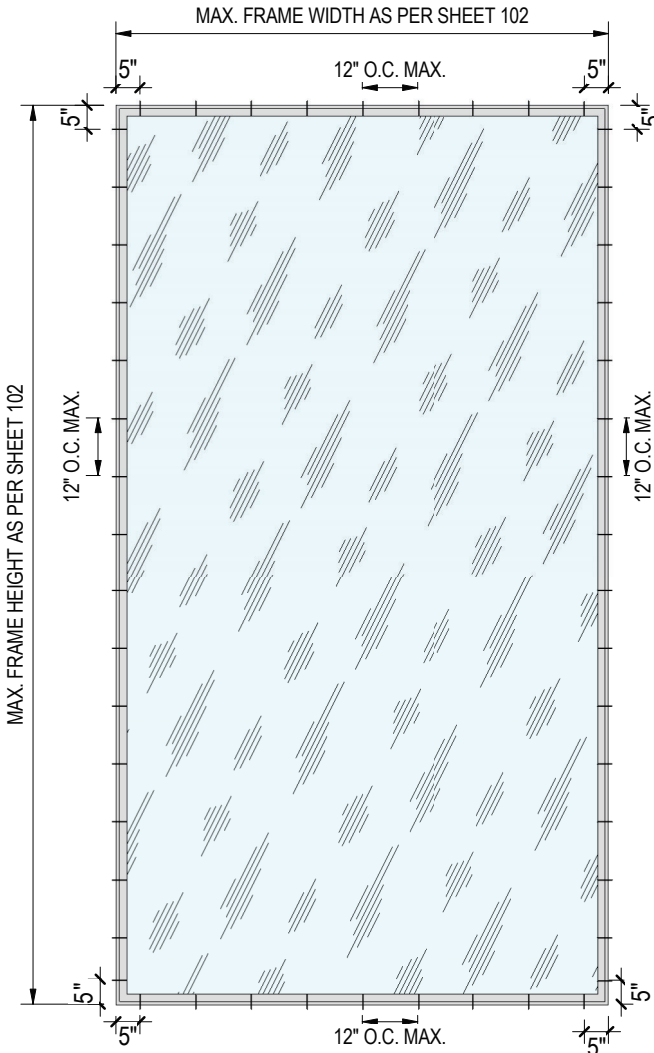
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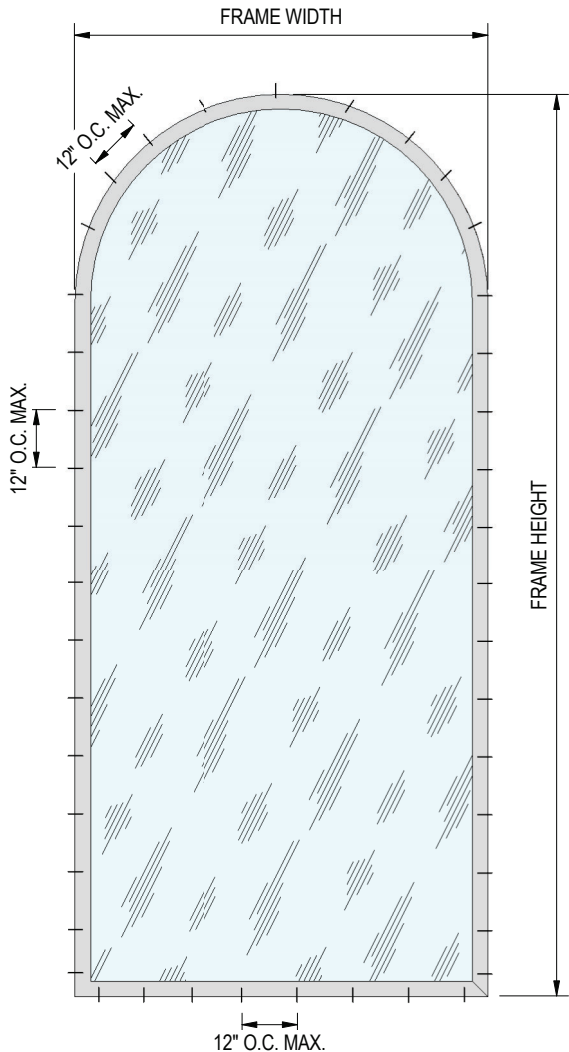
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(ANCHORING AT SILL CAN BE
PROVIDED IN LIEU OF THE
STRUCTURAL ADHESIVE)



(ANCHORING AT SILL CAN BE
PROVIDED IN LIEU OF THE
STRUCTURAL ADHESIVE)

TYPICAL ANCHOR TYPES:

TYPE A -1/4" DEWALT ULTRAICON+ (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 12" O.C. SPACING.
- DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 12" O.C. SPACING
- DIRECTLY INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE, AND 12" 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 12" 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 12" O.C. SPACING

ANCHOR / SUBSTRATE NOTES:

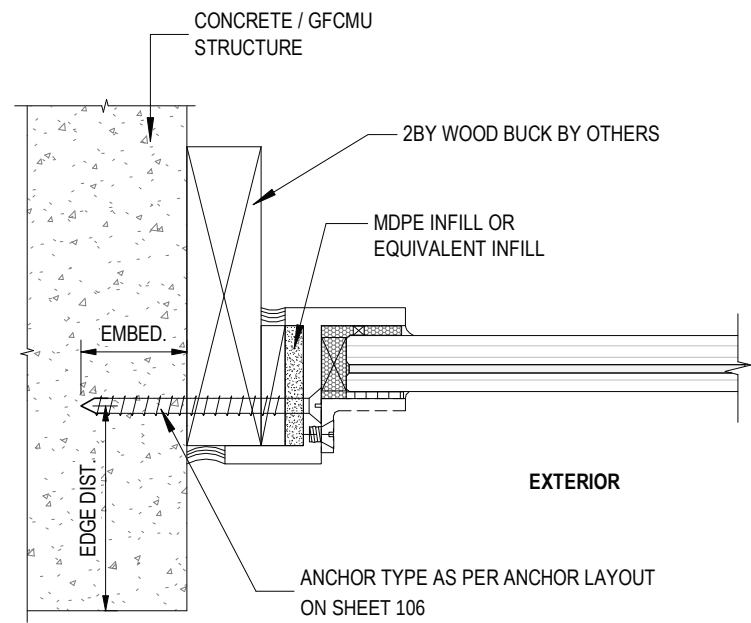
- WOOD AT HEAD OR JAMBS SHOULD BE MIN. SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.) OR EQ.
- CONCRETE AT HEAD OR JAMBS SHOULD BE MIN. f'c= 3000 PSI
- C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
- STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
- ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
- STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED BY OTHERS.

NOTE:

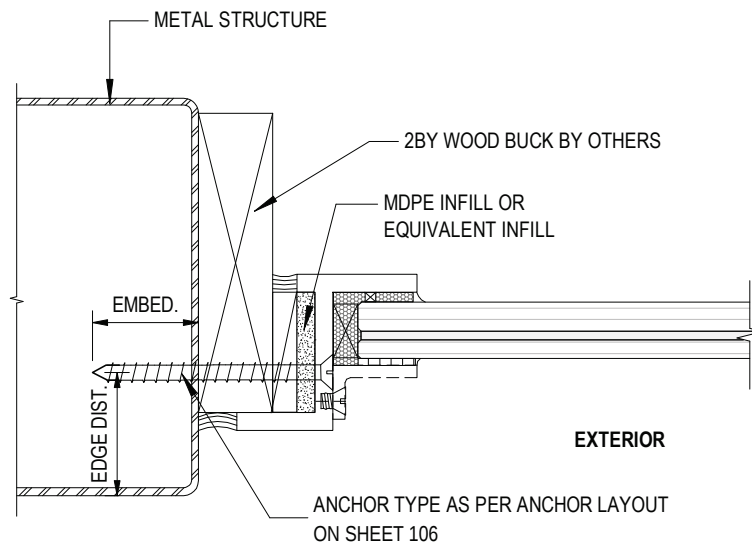
THE SUPPORTING WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.

SEALANTS:

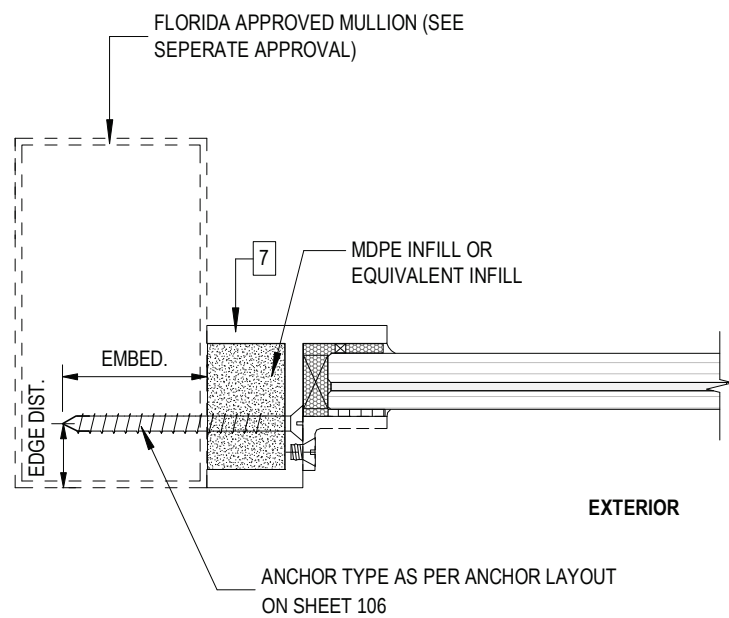
ALL JOINTS AND FRAME CONNECTIONS SHALL BE SEALED WITH ALUMINUM COLOR SEALANT.



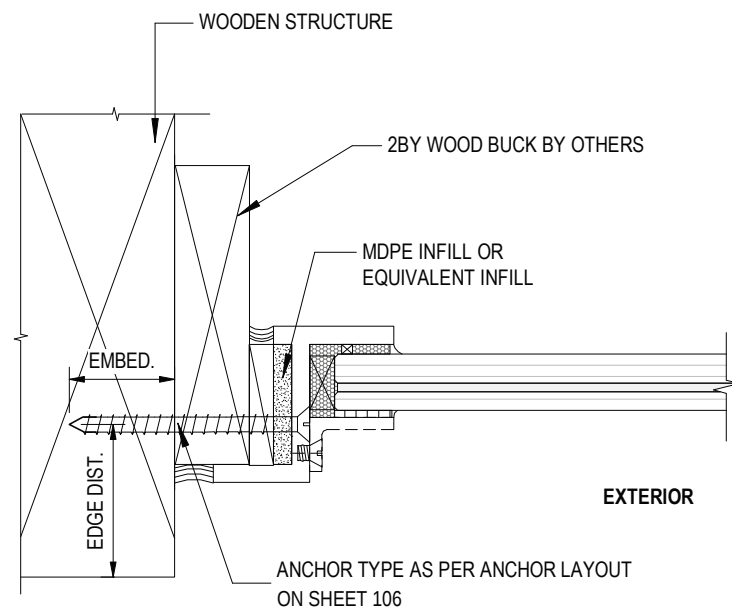
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107 ANCHORAGE INTO CONCRETE
NOT TO SCALE



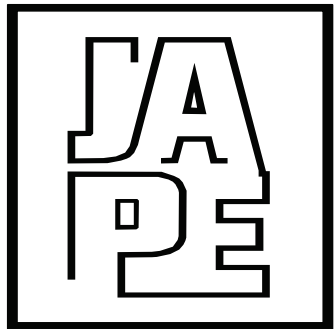
2
107 ANCHORAGE INTO METAL STRUCTURE
NOT TO SCALE



3
107 ANCHORAGE INTO ALUMINUM MULLION
NOT TO SCALE



4
107 ANCHORAGE INTO WOOD STRUCTURE
NOT TO SCALE



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PROJECT :

SKYLIGHT SYSTEM

LARGE AND SMALL MISSILE
IMPACT RATED

CLIENT :

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280 W. HILLSBORO BLVD /
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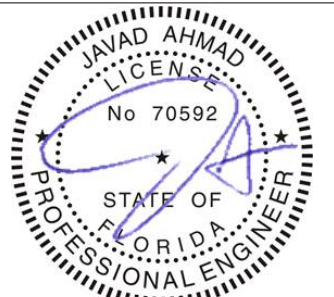
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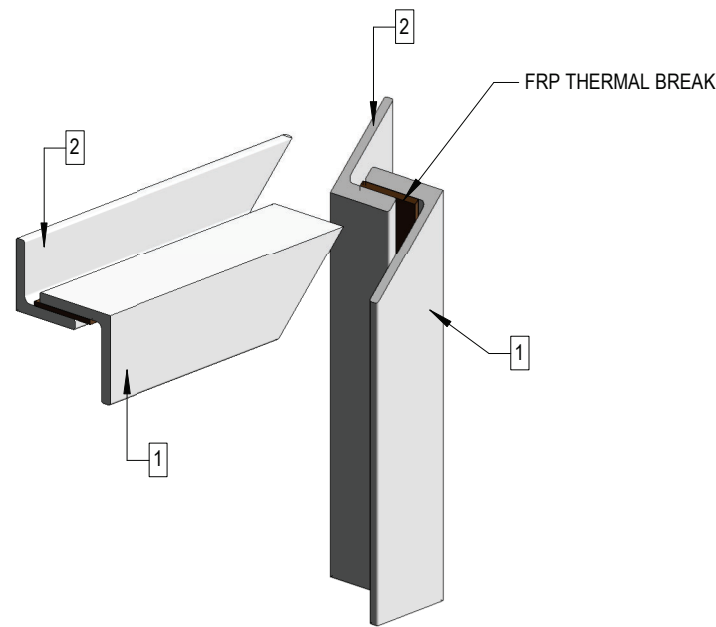
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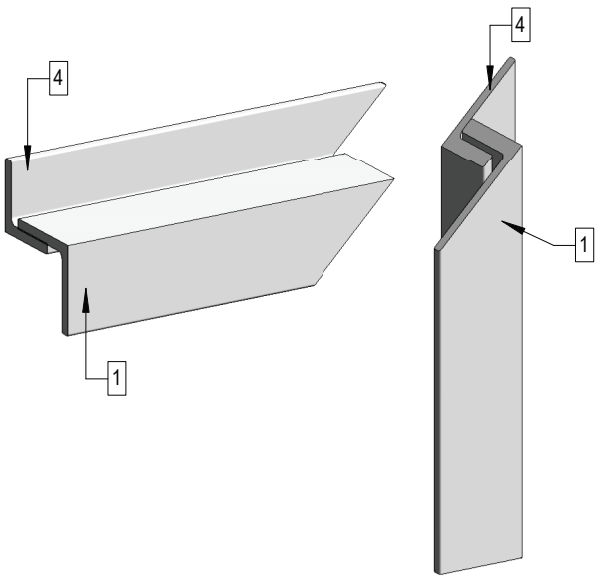
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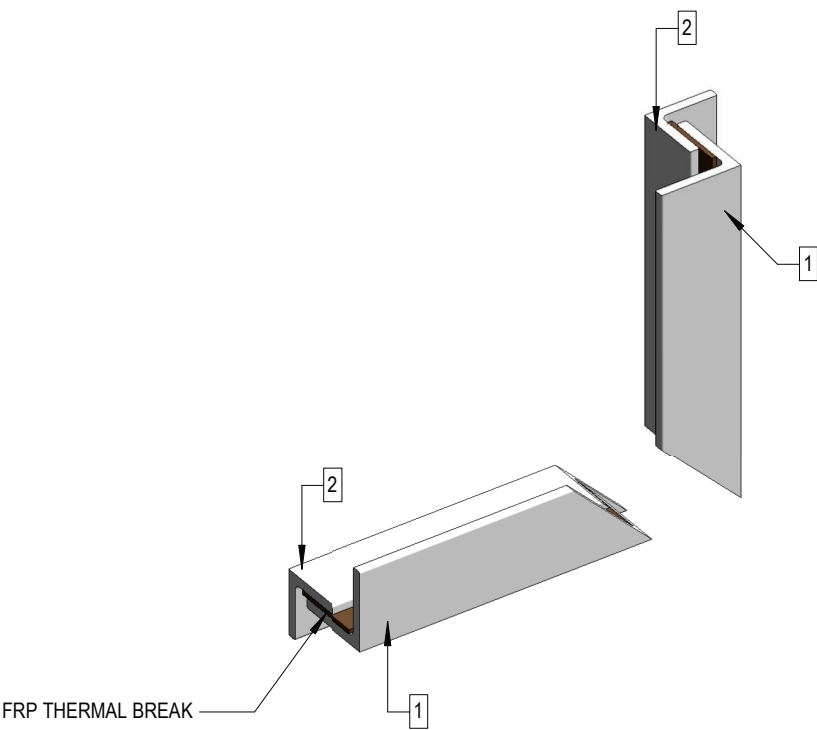
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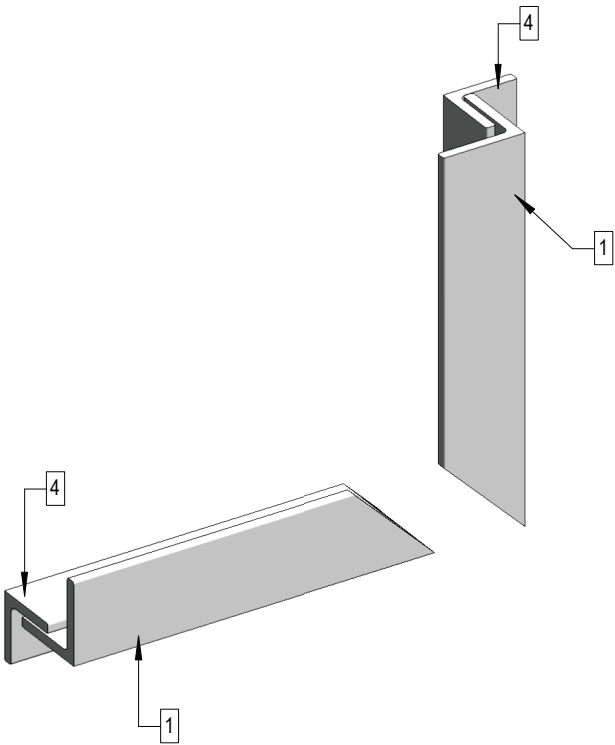
THERMALLY BROKEN - TOP CORNER FRAME ASSEMBLY DETAILS



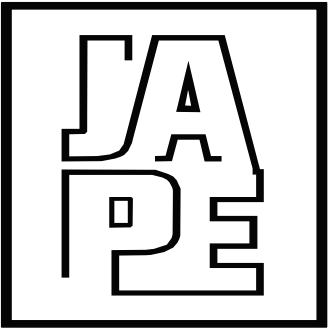
NON-THERMALLY BROKEN - TOP CORNER FRAME ASSEMBLY DETAILS



THERMALLY BROKEN - BOTTOM CORNER FRAME ASSEMBLY DETAILS



NON-THERMALLY BROKEN - BOTTOM CORNER FRAME ASSEMBLY DETAILS



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