

SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATIONS - INSWING AND OUTSWING
103	GLAZING OPTIONS, BEADS AND MUNTINS
104	SETTING BLOCK LAYOUT AND NOTES
105	INSWING HORIZONTAL SECTIONAL LOCK RAIL DETAILS-UNEQUAL AND EQUAL LEG
106	INSWING HORIZONTAL SECTIONAL LOCKBOX DETAILS - EQUAL LEG
107	INSWING VERTICAL SECTIONAL DETAILS-UNEQUAL LEG AND EQUAL LEG
108	OUTSWING HORIZONTAL SECTIONAL DETAILS- UNEQUAL AND EQUAL LEG
109	OUTSWING HORIZONTAL SECTIONAL LOCK BOX DETAILS-UNEQUAL AND EQUAL LEG
110	OUTSWING VERTICAL SECTIONAL DETAILS-EQUAL AND UNEQUAL LEG
111	ANCHORAGE LAYOUT
112	ALTERNATE SILL DETAILS

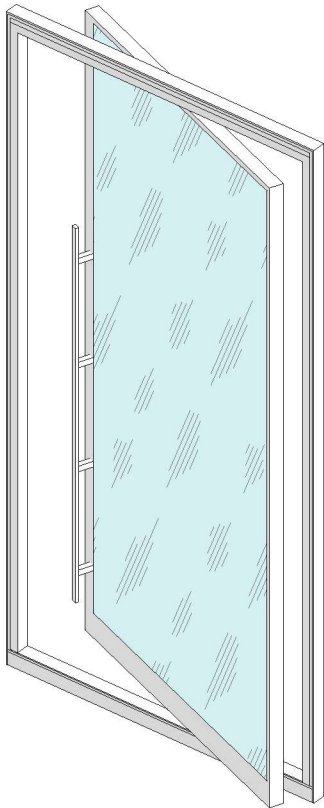
- NOTE:**
- THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED OPTIMUM STEEL WINDOWS AND DOORS PRODUCTS. WHEN MULLED COMBINATIONS ARE USED, THE LOWER DESIGN PRESSURE FROM EACH PRODUCT WILL APPLY TO THE ENTIRE SYSTEM. FINAL APPROVAL OF ALL DESIGNS SHALL BE GRANTED BY THE GOVERNING MUNICIPALITY.
 - IF THE DESIGN PRESSURES / FRAME DIMENSIONS ON SITE EXCEEDS THE PRESSURES GIVEN IN THIS APPROVAL, PLEASE CONTACT OPTIMUM WINDOWS FOR SPECIAL APPROVALS.

OPTIMUM STEEL WINDOWS AND DOORS

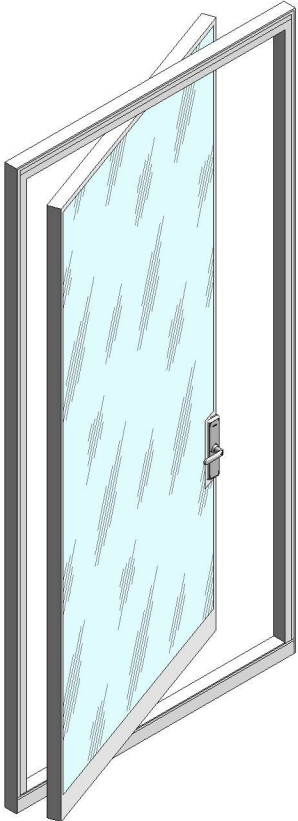
RTS430i STAINLESS STEEL INSWING & OUTSWING PIVOT DOOR

(HVHZ IMPACT RATED)

FL# 47500.1



PIVOT INSWING WITH LOCK RAIL



PIVOT OUTSWING WITH LOCK BOX

DESIGN PRESSURE RATING			
SILL TYPE	FRAME SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
ADA SILL	73-1/4" X 147-7/8"	+/- 60 PSF	LARGE & SMALL MISSILE IMPACT
NON PERFORMANCE SILL (SEE SHEET 112)	73-1/4" X 144-3/8"		

GENERAL NOTES

- THE 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 MENTIONED IN THE PRESSURE CHARTS IN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
- DESIGN PRESSURES MENTIONED IN THIS CERTIFICATION ARE ALLOWABLE PRESSURES (ASD) BASED ON TESTED PRESSURE DIVIDED BY A FACTOR OF SAFETY OF 1.5.
- 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.
- 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.
- 1BY OR 2BY WOOD BUCK & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

- 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 ENGINEER LICENSED IN THE STATE OF FLORIDA 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.
- 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.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES..
- 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.
- THIS PRODUCT IS APPROVED FOR FORCED ENTRY RESISTANCE AS PER ASTM F588-07.

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

OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL ST. ELLENVILLE, NY 12428
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER FL# 47500.1

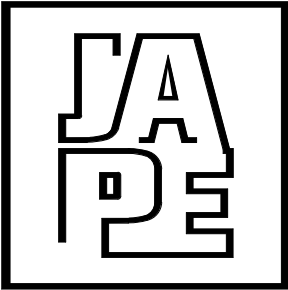
THIS SYSTEM IS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT (LEVEL D & E)



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SERIES : RTS430i
MODEL : THERMALLY BROKEN
STAINLESS STEEL PIVOT DOOR



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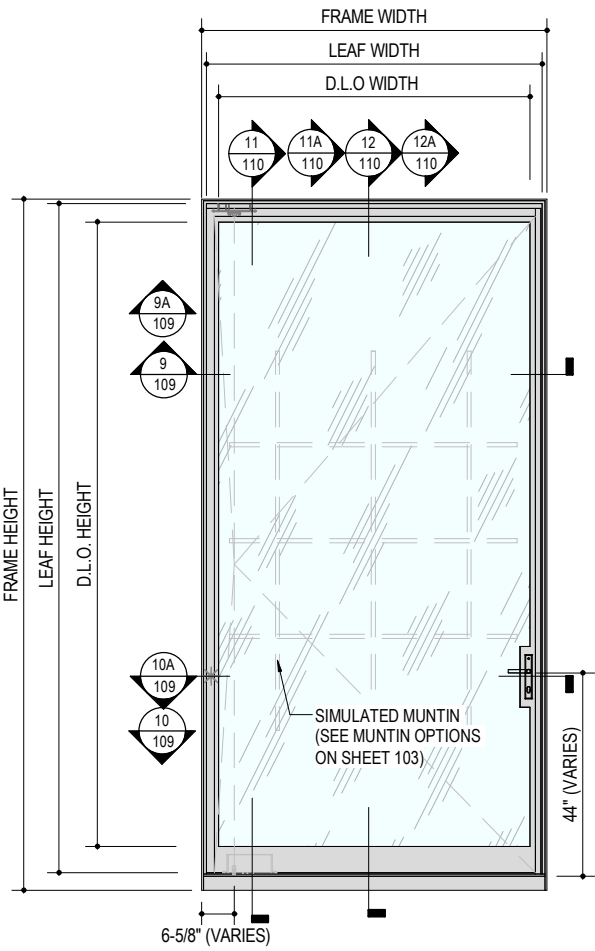
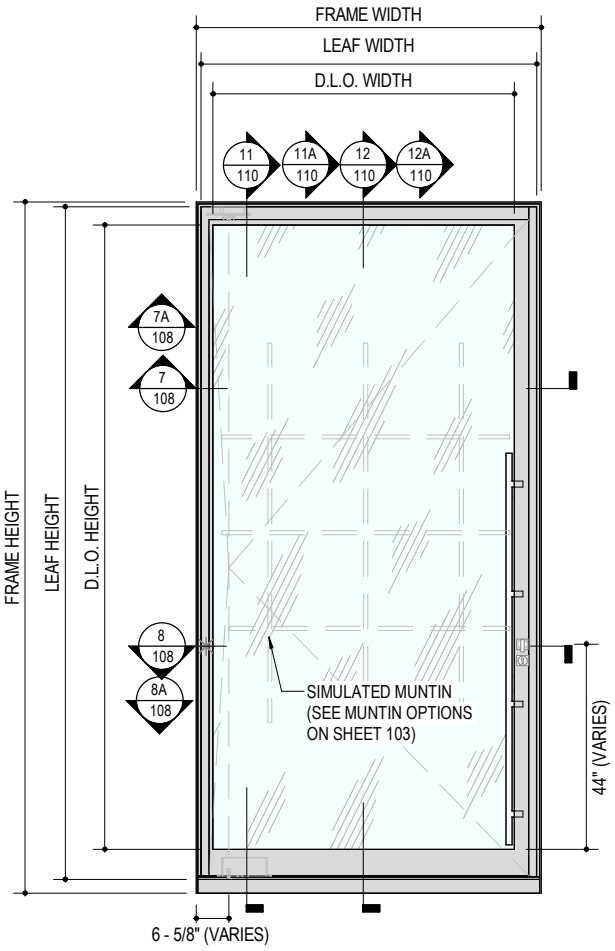
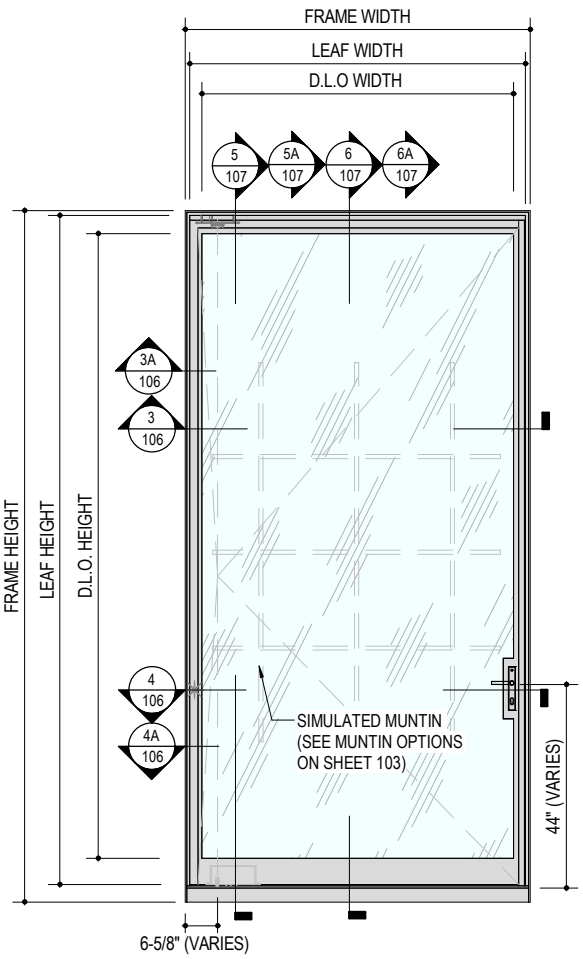
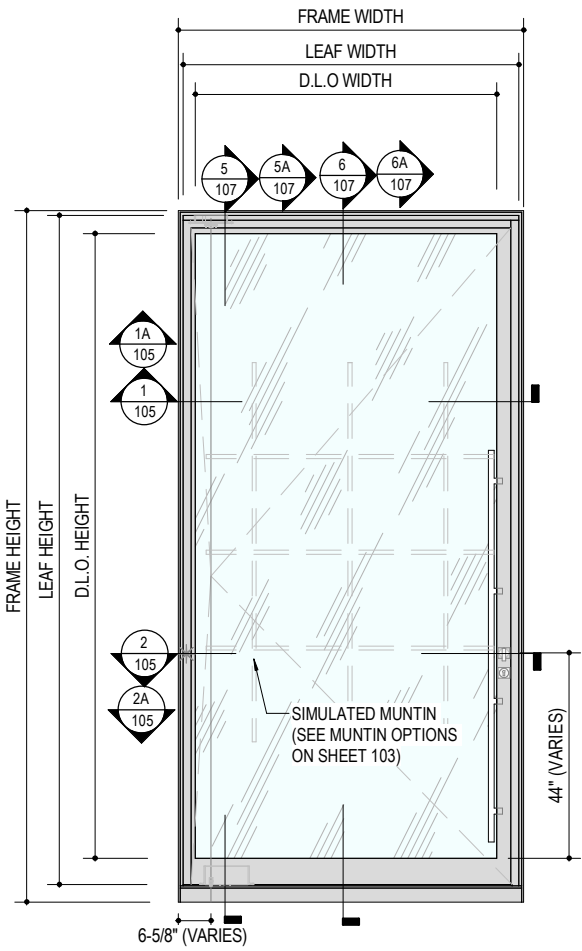


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OPTIMUM STEEL WINDOWS AND DOORS			
PROJECT:			
RTS430i STAINLESS STEEL INSWING AND OUTSWING PIVOT DOOR			
PROJECT NUMBER			
JA-1937-24			
PAGE NUMBER:			
101 OF 112			

TYPICAL ELEVATIONS - INSWING AND OUTSWING

FL# 47500.1



1
102 INSWING PIVOT DOOR WITH LOCK RAIL
EXTERIOR VIEW

2
102 INSWING PIVOT DOOR WITH LOCK BOX
EXTERIOR VIEW

3
102 OUTSWING PIVOT DOOR WITH LOCK RAIL
EXTERIOR VIEW

4
102 OUTSWING PIVOT DOOR WITH LOCK BOX
EXTERIOR VIEW

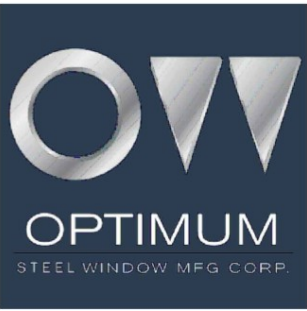
NOTE:

✱ — STORM LOCK ON THE INTERIOR SIDE OF THE DOOR FRAME

SYSTEM	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	MAX. FRAME WIDTH	MAX. FRAME HEIGHT
PIVOT DOOR WITH LOCK RAIL WITH ADA SILL	64 - 5/8"	136 - 15/16"	73 -1/4"	147 - 7/8"
PIVOT DOOR WITH LOCK BOX WITH ADA SILL	66 - 3/4"	136 - 15/16"	73 -1/4"	147 - 7/8"
PIVOT DOOR WITH LOCK RAIL - NON PERFORMANCE SILL	64 - 5/8"	136 - 15/16"	73 -1/4"	144 - 3/8"
PIVOT DOOR WITH LOCK BOX - NON PERFORMANCE SILL	66-3/4"	136 -15/16"	73 -1/4"	144 - 3/8"

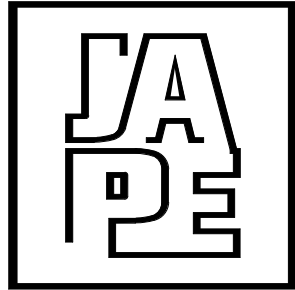
NOTE:

- FOR THE RATIONAL ANALYSIS OF FRAME DIMENSIONS EXCEEDING THE MAXIMUM FRAME DIMENSIONS MENTIONED HEREIN, THE DESIGN AREA MUST NOT EXCEED THE MAXIMUM TESTED AREA (= 'MAX. FRAME WIDTH' X 'MAX. FRAME HEIGHT')



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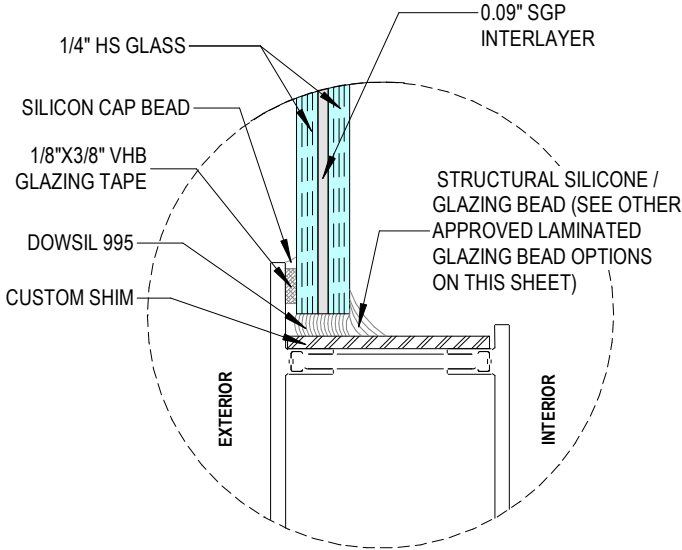
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OPTIMUM STEEL WINDOWS AND DOORS

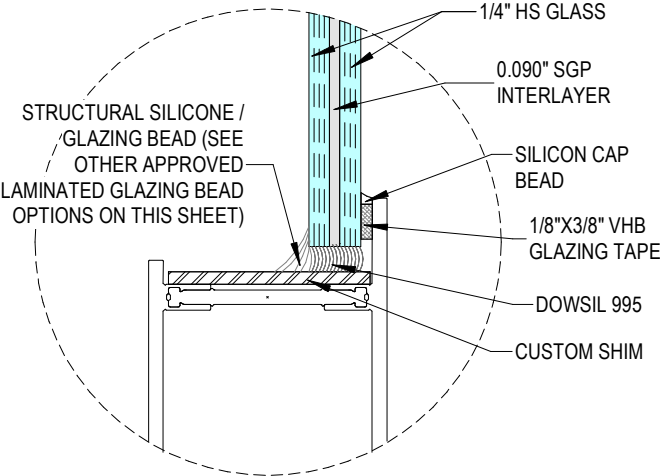
PROJECT:
RTS430i STAINLESS STEEL INSWING AND OUTSWING PIVOT DOOR

PROJECT NUMBER
JA-1937-24

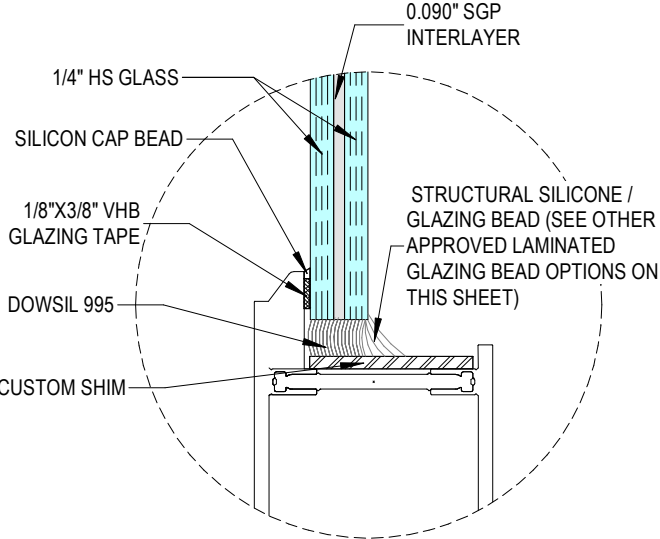
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102 OF 112



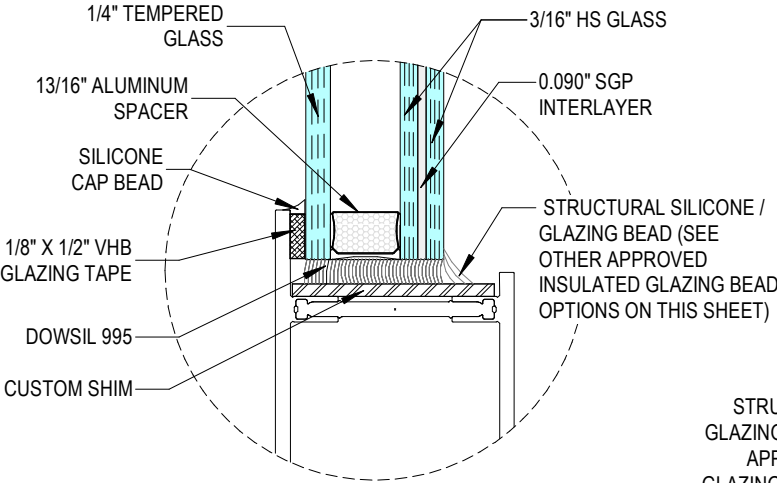
GL 1 - 9/16" LAMINATED GLASS UNIT



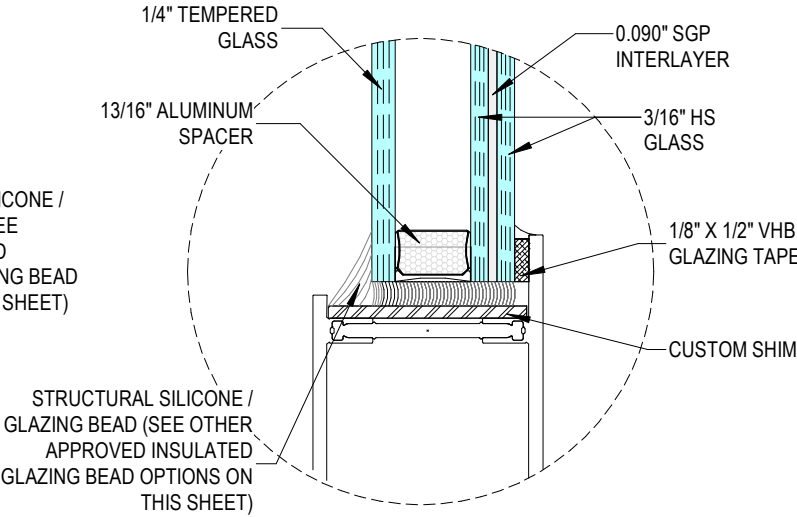
GL 2 - 9/16" LAMINATED GLASS UNIT



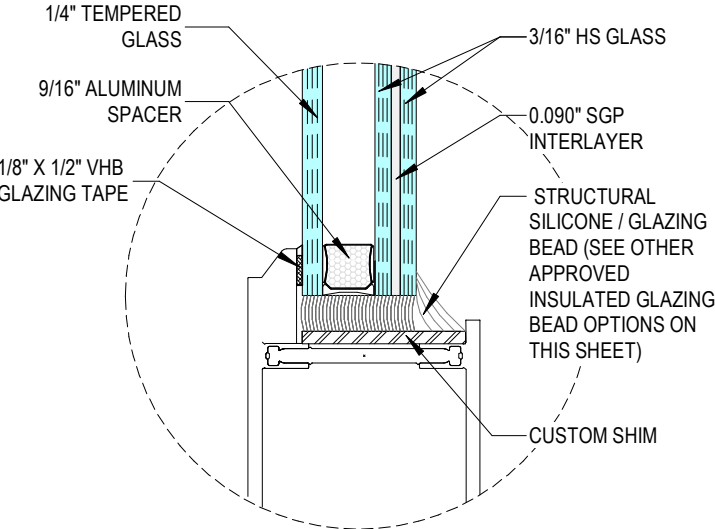
GL 3 - 9/16" LAMINATED GLASS UNIT



GL 4 - (1 - 1/2") INSULATED GLASS UNIT



GL 5 - (1 - 1/2") INSULATED GLASS UNIT

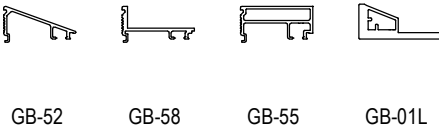


GL 6 - (1 - 3/16") INSULATED GLASS UNIT

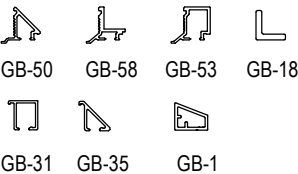
SIMULATED MUNTIN:



APPROVED MONOLITHIC LAMINATED GLAZING BEAD OPTIONS



APPROVED INSULATED GLAZING BEAD OPTIONS



GLAZING NOTES:

1. AFTER THE OPERABLE PANELS HAVE BEEN INSTALLED AND REINSPECTED (LEVEL PLUMB & SQUARE), IT IS IMPERATIVE THAT THE HARDWARE, GASKET COMPRESSION, FUNCTIONALITY AND THE REVEALS AROUND THE VENTS OR SASH, BE INSPECTED BEFORE GLAZING THE VENTS OR SASH. THESE MEASURES ARE TO PREVENT ANY REGLAZING IN THE FUTURE.
2. BEFORE GLAZING ANY HINGED PRODUCTS, THE VENTS OR SASH MUST BE WEDGED ON THE SIDE WITH THE HANDLE, APPROX. 1/8" TO 3/16". THE VENT MUST BE SHUT AND LOCKED IN PLACE WITH THE MULTI-POINTS ENGAGED DURING THE GLAZING OF THE UNITS. (FRAMES SHOULD NEVER BE GLAZED IN THE OPEN POSITION).
3. CONFIRM THE GLASS SIZE AND REBATE SIZE TO ENSURE THAT THE GLASS WILL FIT.
4. REMOVE GLAZING BEADS AND CAREFULLY LABEL SIDE AND OPENING ON EACH GLAZING BEAD REMOVED. *GLAZING BEADS ARE CUT TO SIZE AND ARE NOT INTERCHANGEABLE AMONGST UNITS.
5. CLEAN GLAZING/GRID REBATE WITH ISOPROPYL ALCOHOL.
6. CAREFULLY APPLY GLAZING PRIMER ALONG GLAZING/GRID REBATE. APPLY DOUBLE-SIDED FOAM GLAZING TAPE AROUND THE PERIMETER OF THE GLAZING/GRID REBATE. (REFER TO SHOP DRAWING DETAILS FOR SIZE AND PLACEMENT.)
7. PLACE SETTING BLOCKS AS NECESSARY. CAREFULLY SCORE ANY SETTING BLOCKS THAT BYPASS GLAZING. VERIFY THAT SETTING BLOCK LOCATIONS CROSS BLOCK WHERE INDICATED. (REFER TO SETTING BLOCK LAYOUT FOR PLACEMENT.)
8. INSPECT AND CLEAN GLASS PRIOR TO PLACEMENT OF GLASS.
9. CAREFULLY APPLY GLAZING PRIMER TO GLASS AREAS THAT MEET BOTH THE GLAZING/GRID TAPE.
10. REMOVE GLAZING TAPE LINER.
11. CAREFULLY INSTALL GLASS INTO GLAZING POCKET.
12. REINSTALL GLAZING BEAD ALONG THE INTERIOR. (REFER TO GLAZING DETAILS PROVIDED IN SHOP DRAWING SECTION DETAILS.) *GLAZING BEADS ARE CUT TO SIZE AND ARE NOT INTERCHANGEABLE AMONGST UNITS.
13. IT IS STRONGLY RECOMMENDED THAT THE SILICONE EXTERIOR SEALANT APPLIED IMMEDIATELY AROUND THE PERIMETER AND GLASS-TO-METAL LOCATIONS, INCLUDING CAP-BEADING THE SIMULATED DIVIDED LITES (SDL'S) TO PREVENT THE GLASS FROM SHIFTING AFTER IT'S INSTALLED AND CROSSED BLOCK.
14. UPON GLAZING COMPLETION, IT IS STRONGLY RECOMMENDED THAT ALL VENTS/DOORS IN THE CLOSED/LOCKED POSITION FOR 24 HOURS TO SOLIDIFY CURING PROCESS.
15. WHEN OPENING, CAREFULLY REMOVE SHIMS BENEATH OPERABLE PANELS AND VERIFY THE OPERATION OF THE UNIT.



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STAINLESS STEEL PIVOT DOOR



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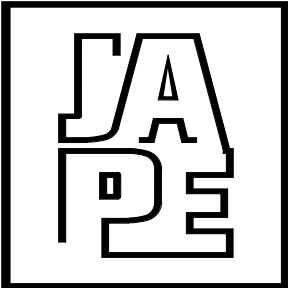
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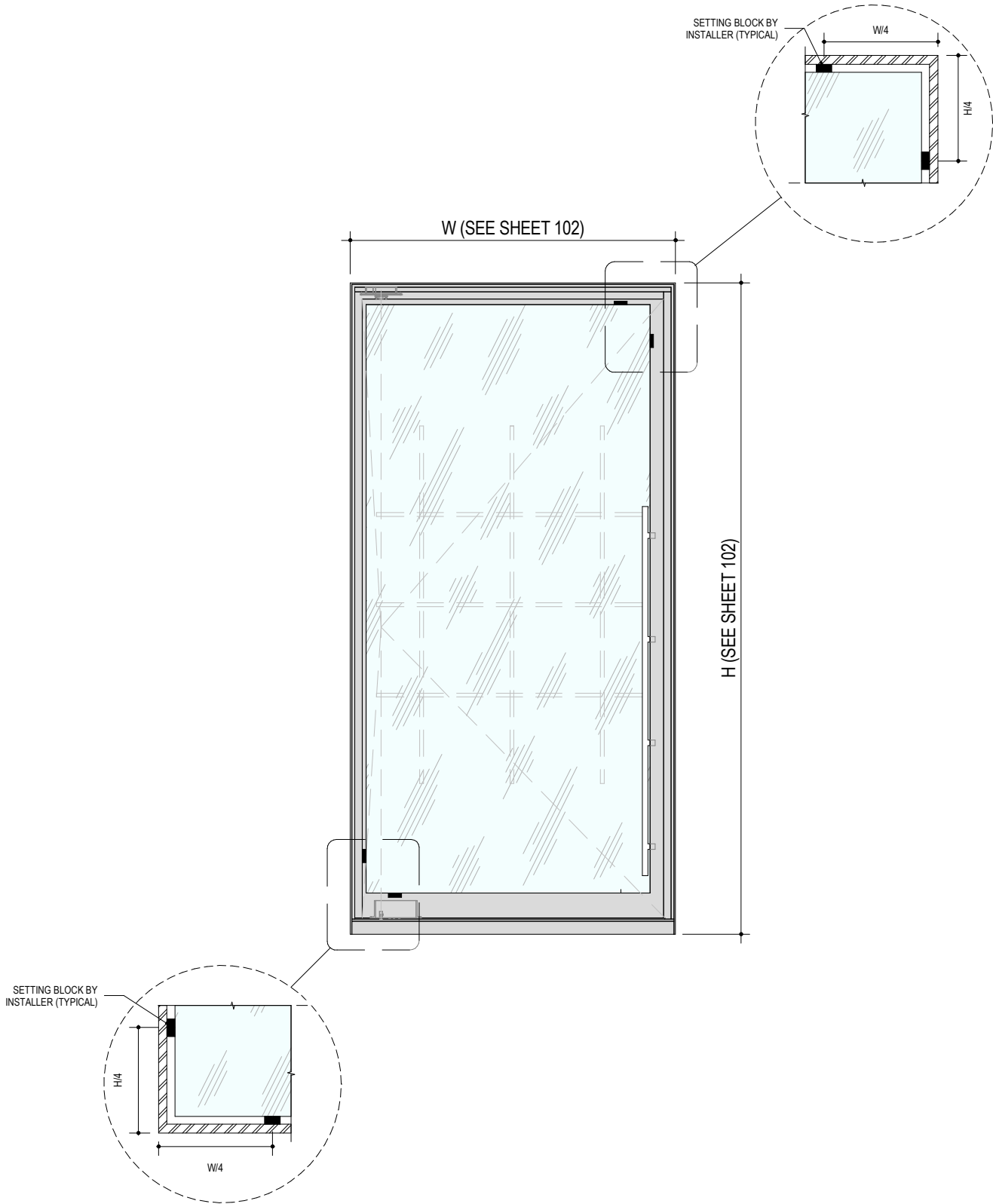
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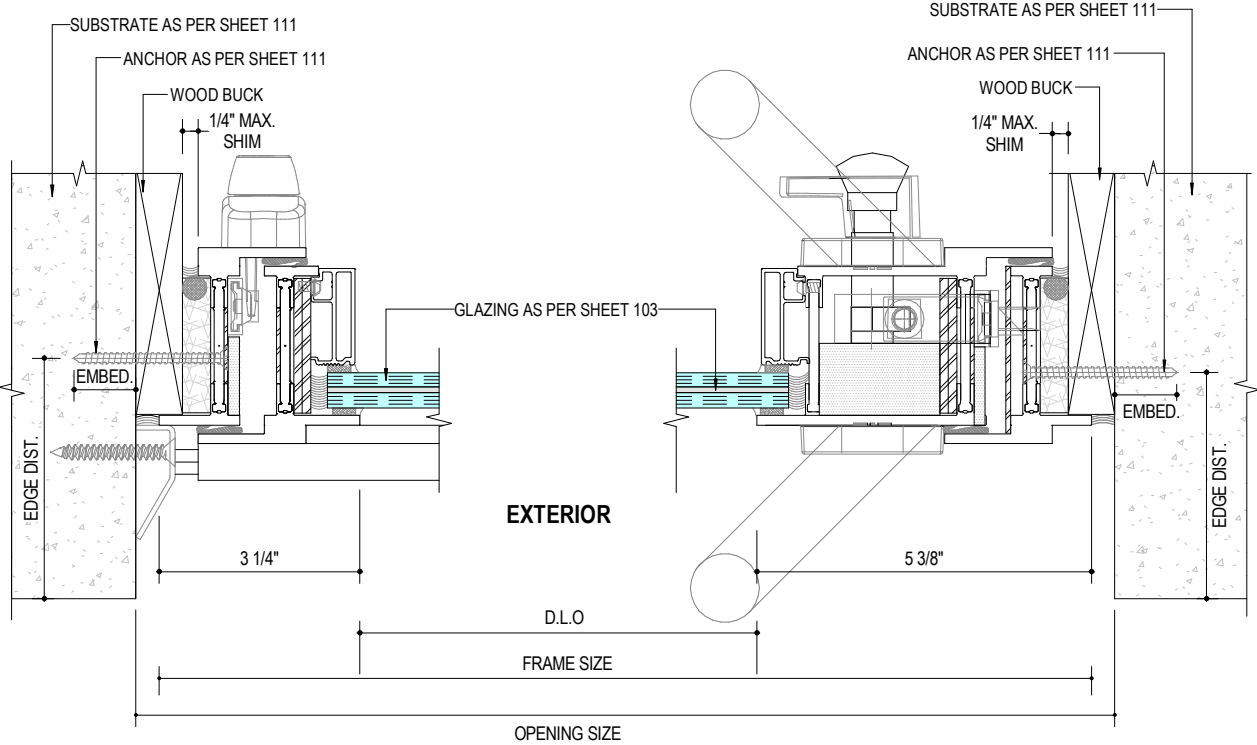
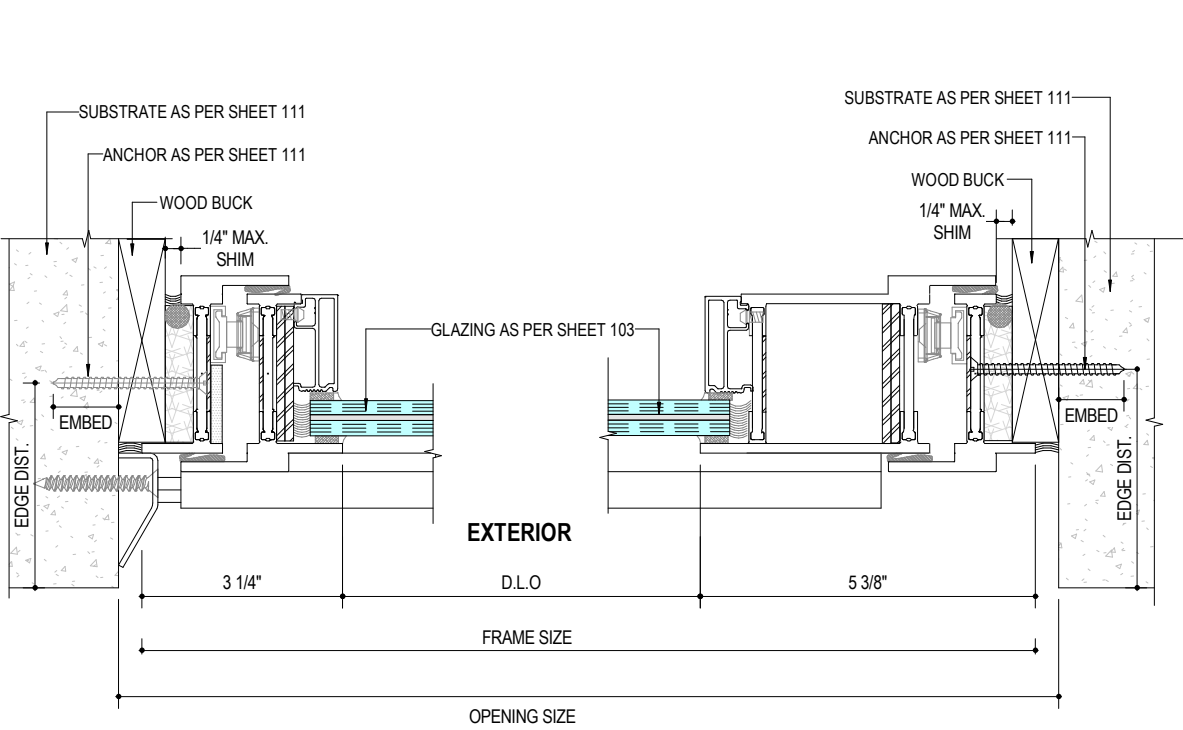
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PAGE NUMBER:
104 OF 112



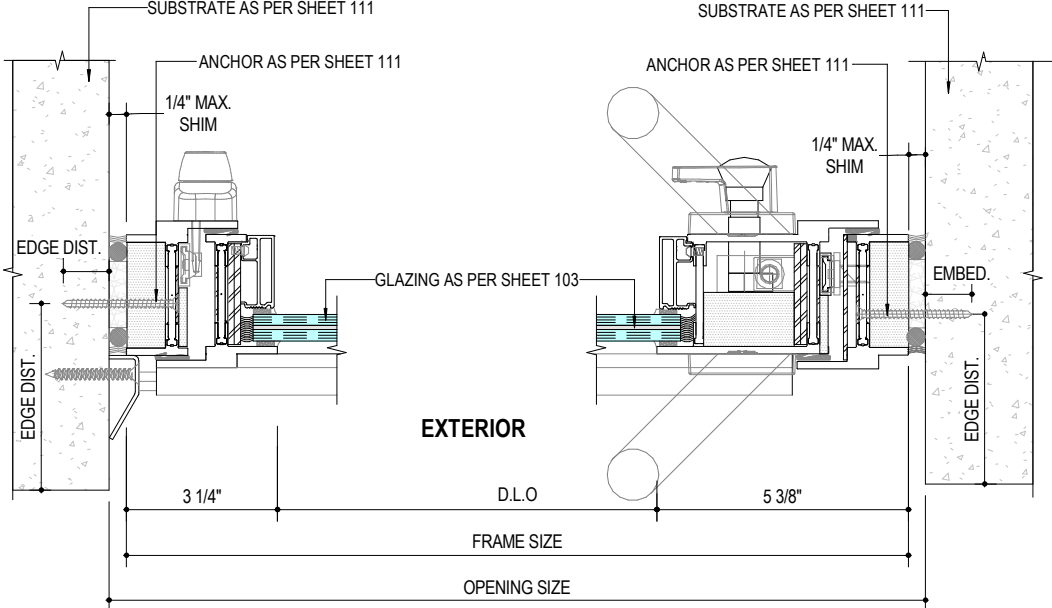
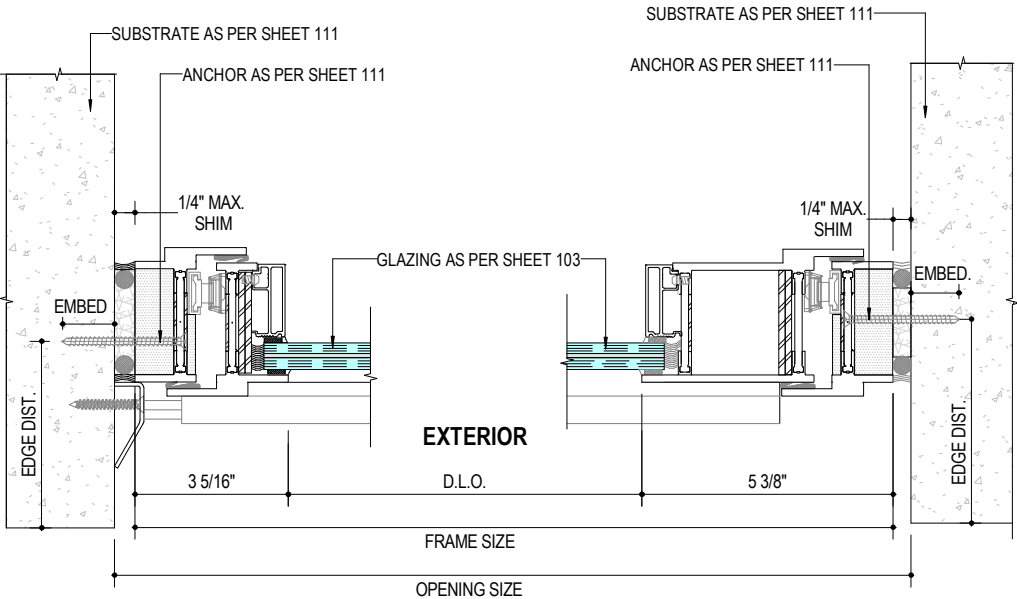
INSWING HORIZONTAL SECTIONAL LOCK RAIL DETAILS- UNEQUAL AND EQUAL LEG

FL# 47500.1



1
105 HORIZONTAL SECTION - LOCK RAIL WITHOUT HARDWARE - UNEQUAL LEG - 1
NOT TO SCALE

2
105 HORIZONTAL SECTION - LOCK RAIL WITH HARDWARE - UNEQUAL LEG - 2
NOT TO SCALE



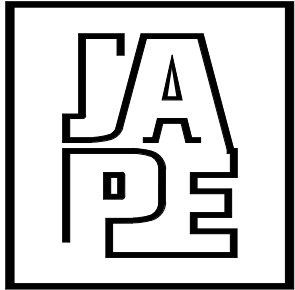
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NOT TO SCALE

2A
105 INSWING HORIZONTAL SECTION - LOCK RAIL WITH HARDWARE- EQUAL LEG - 2A
NOT TO SCALE



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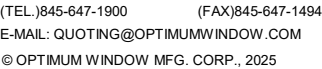


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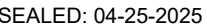


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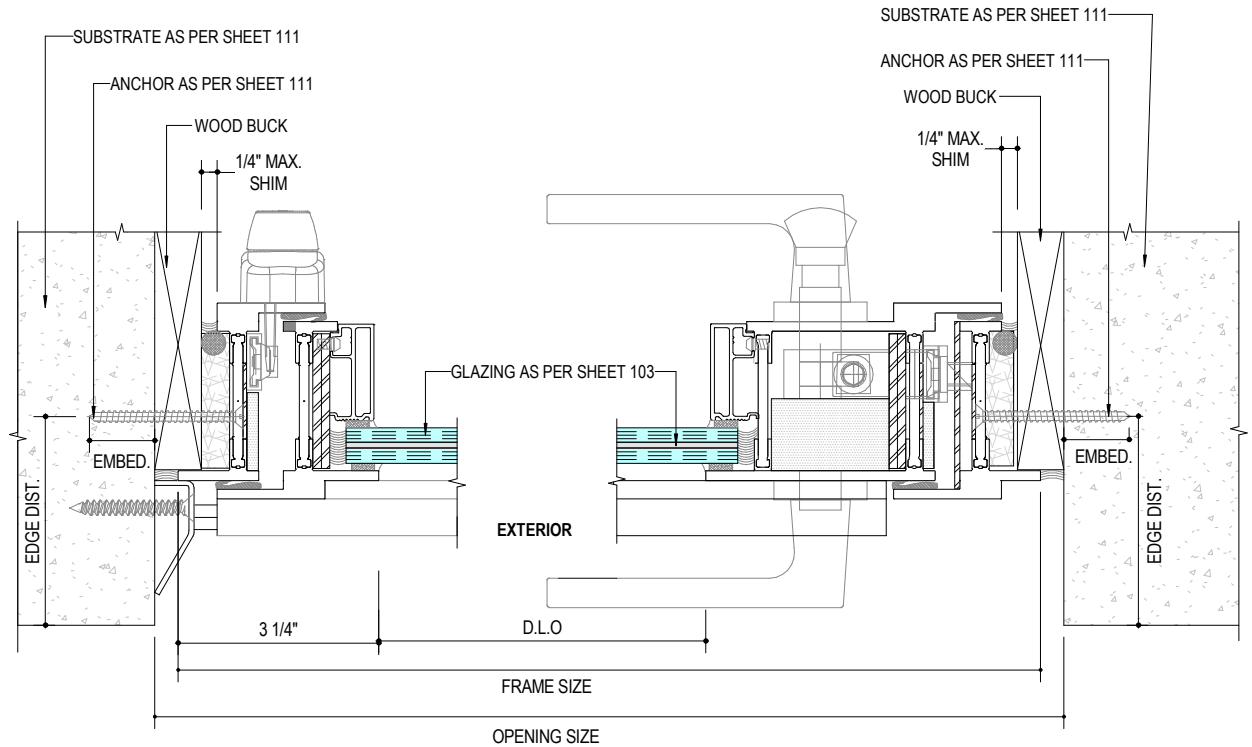
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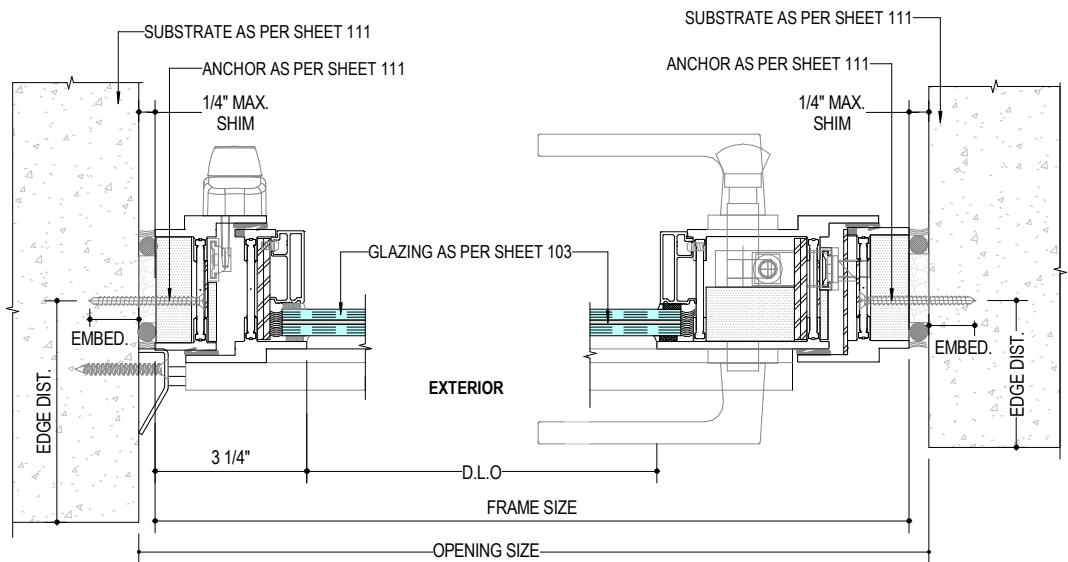
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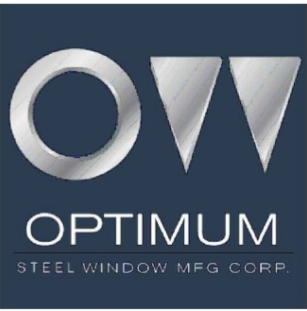


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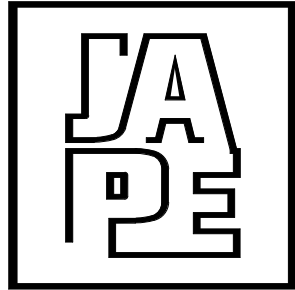
INSWING VERTICAL SECTIONAL DETAILS-UNEQUAL LEG AND EQUAL LEG

FL# 47500.1



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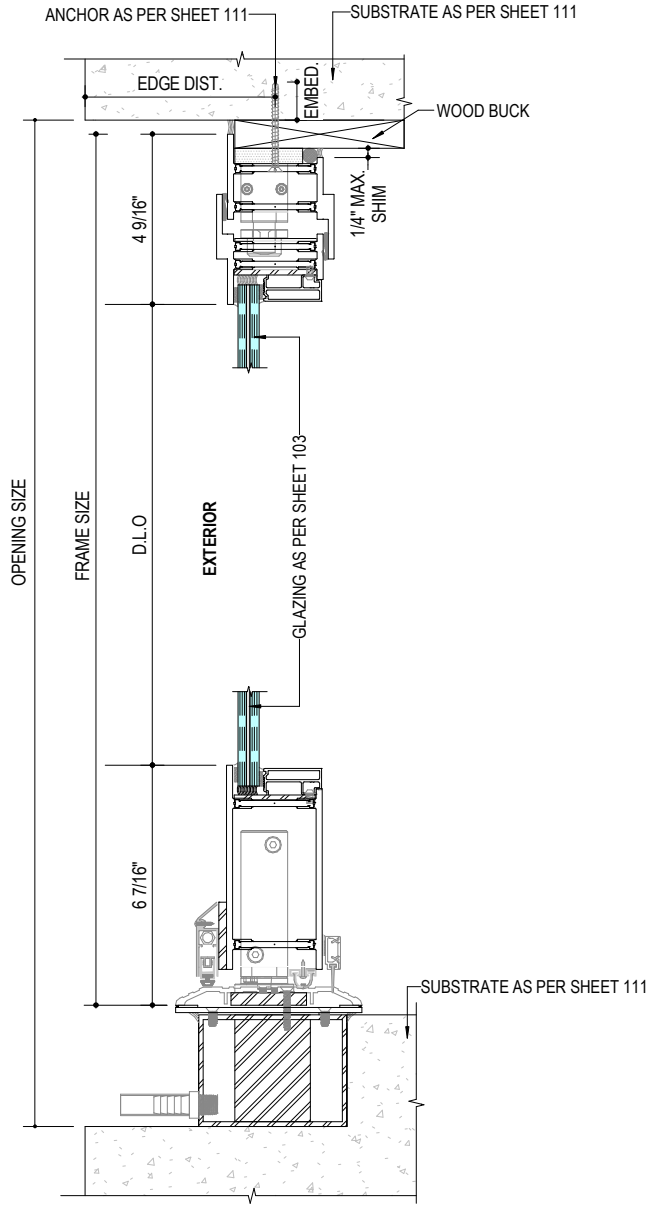
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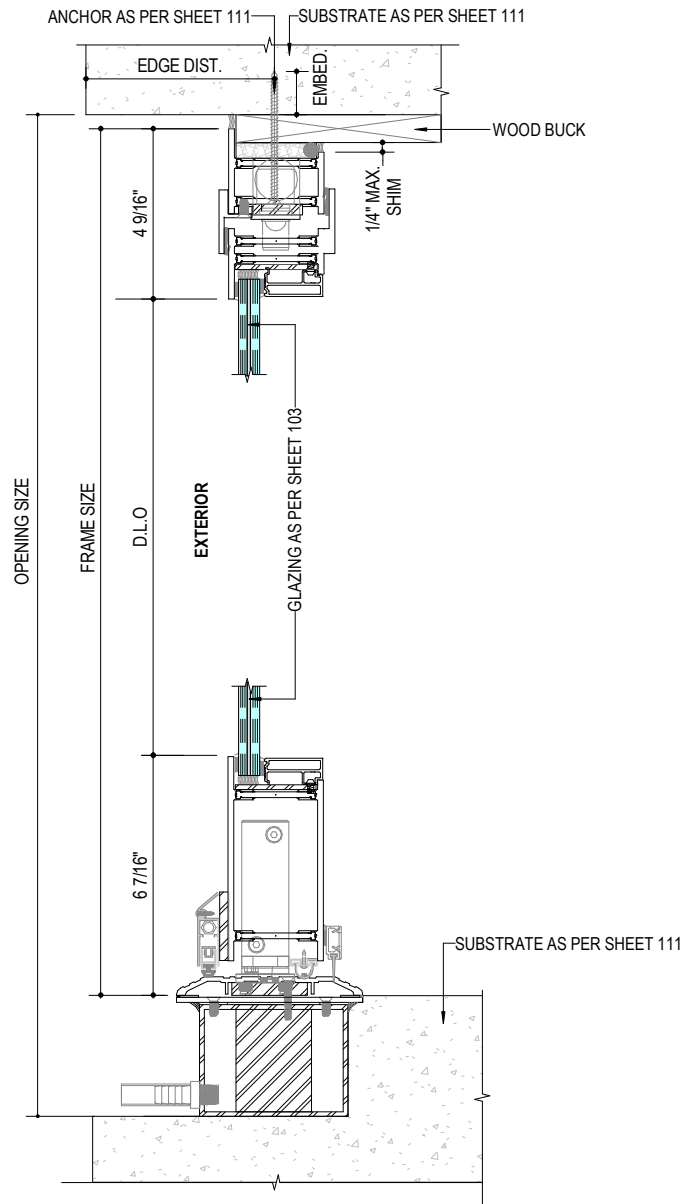
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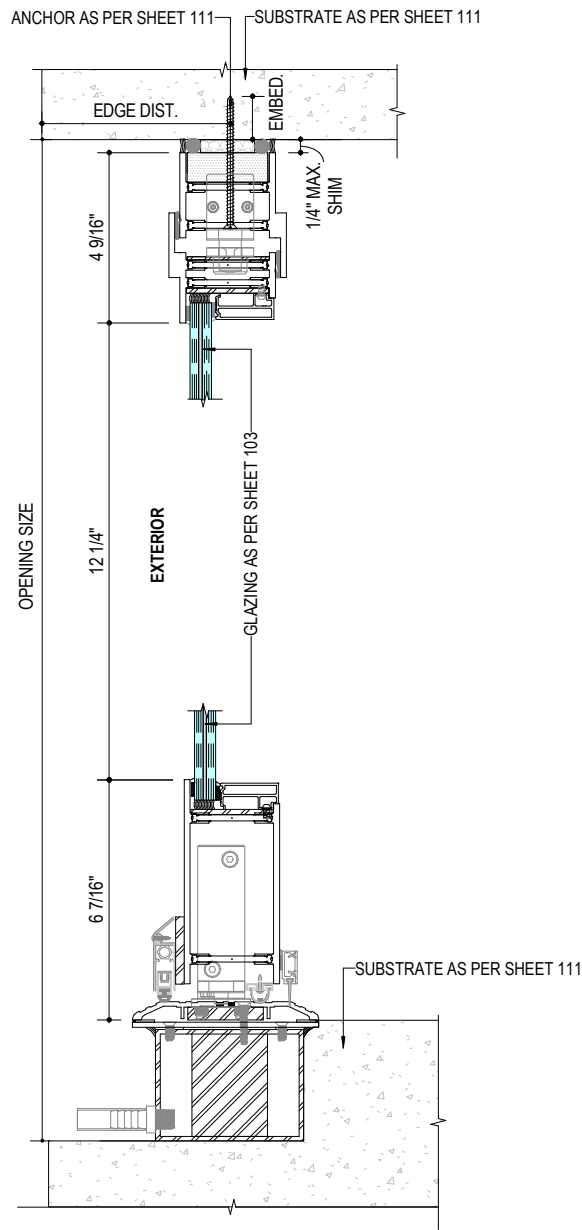
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OPTIMUM STEEL WINDOWS AND DOORS
PROJECT:
RTS430i STAINLESS STEEL INSWING AND OUTSWING PIVOT DOOR
PROJECT NUMBER
JA-1937-24
PAGE NUMBER:



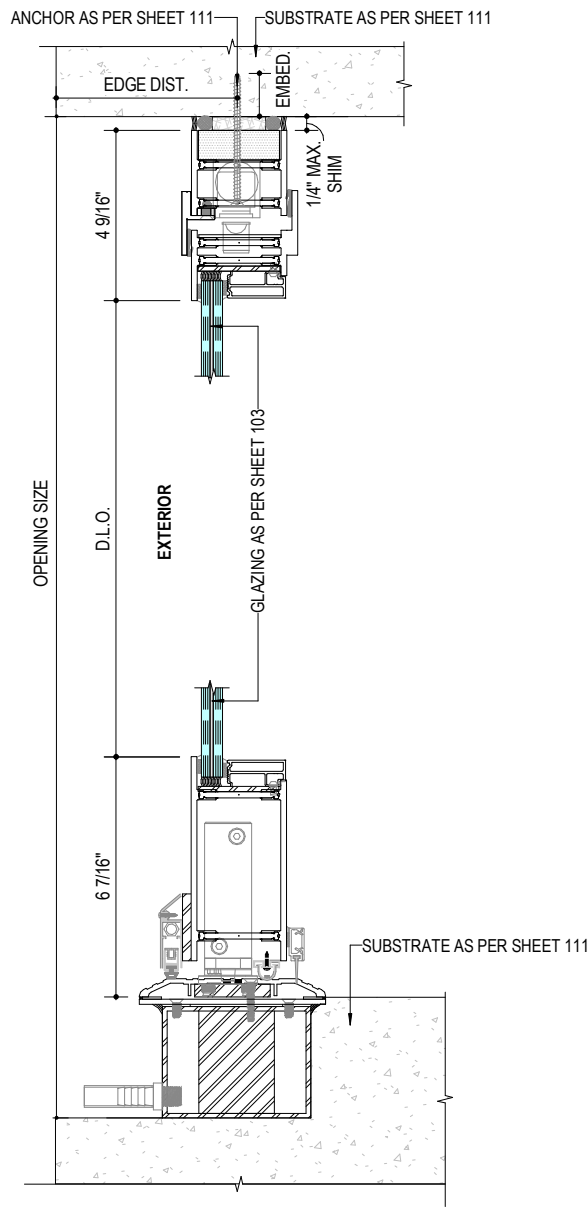
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107 LOCK BOX AND LOCK RAIL



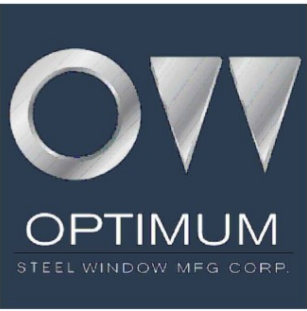
6 VERTICAL SECTION UNEQUAL LEG 2
107 LOCK BOX AND LOCK RAIL



5A VERTICAL SECTION EQUAL LEG 1
107 LOCK BOX AND LOCK RAIL



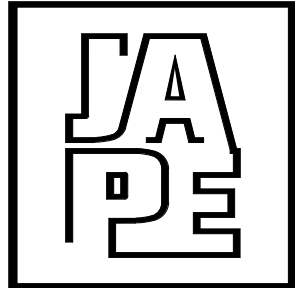
6A VERTICAL SECTION EQUAL LEG 2
107 LOCK BOX AND LOCK RAIL



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SERIES : RTS430i

MODEL : THERMALLY BROKEN
STAINLESS STEEL PIVOT DOOR



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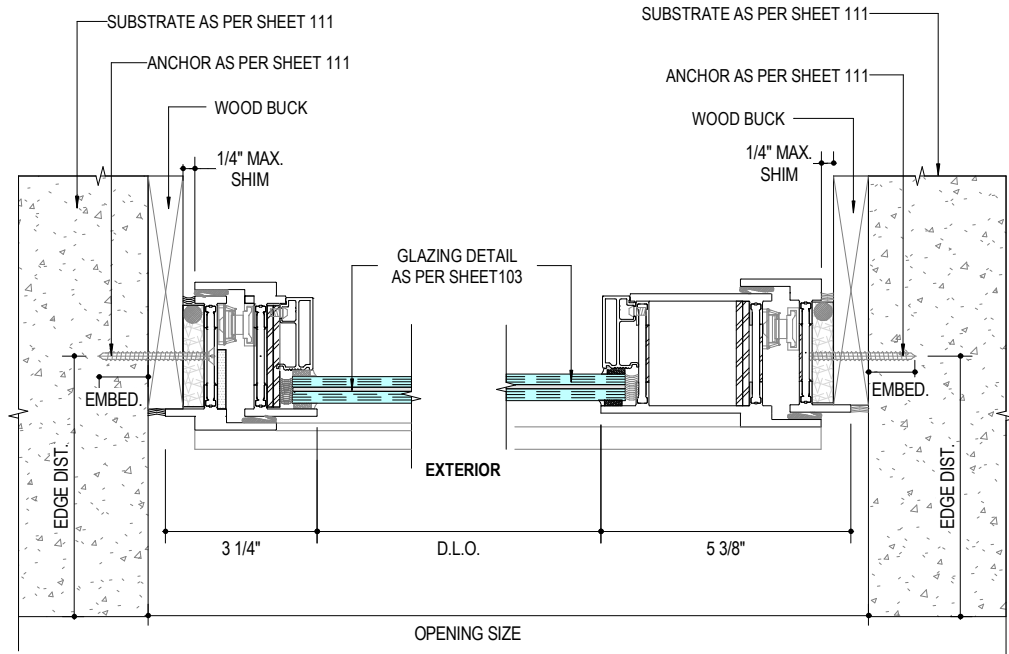
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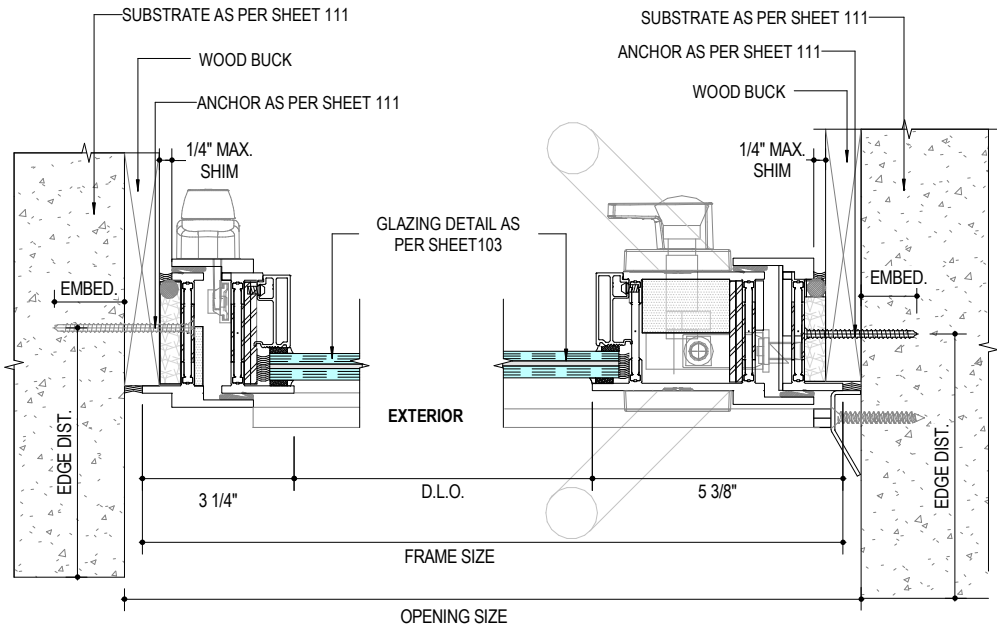
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PROJECT NUMBER
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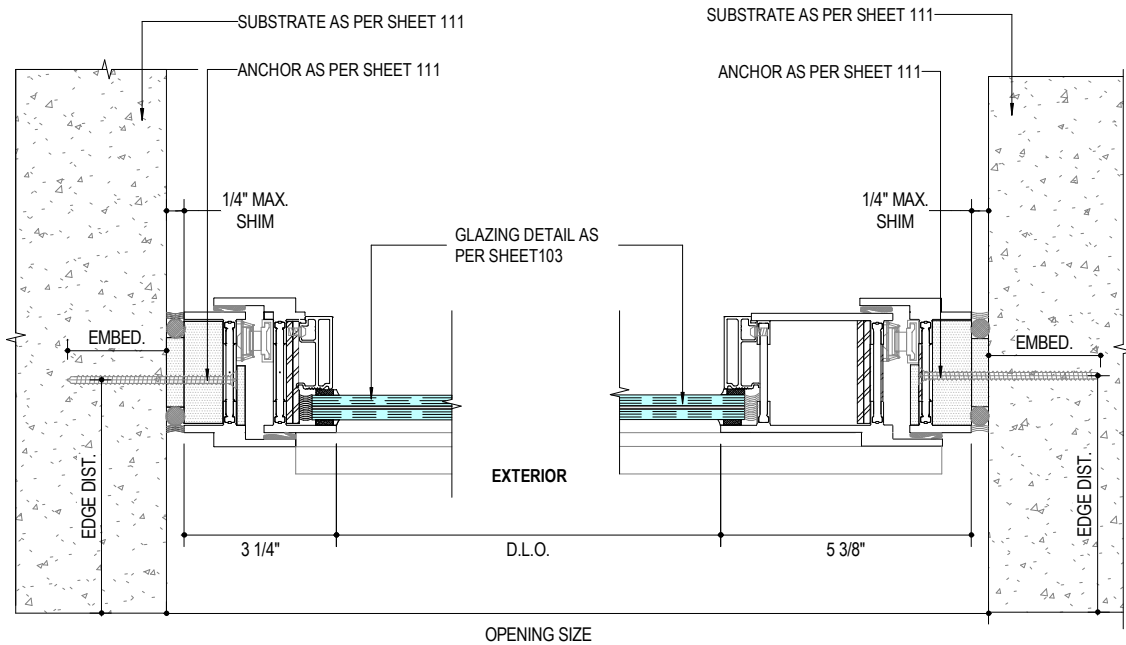
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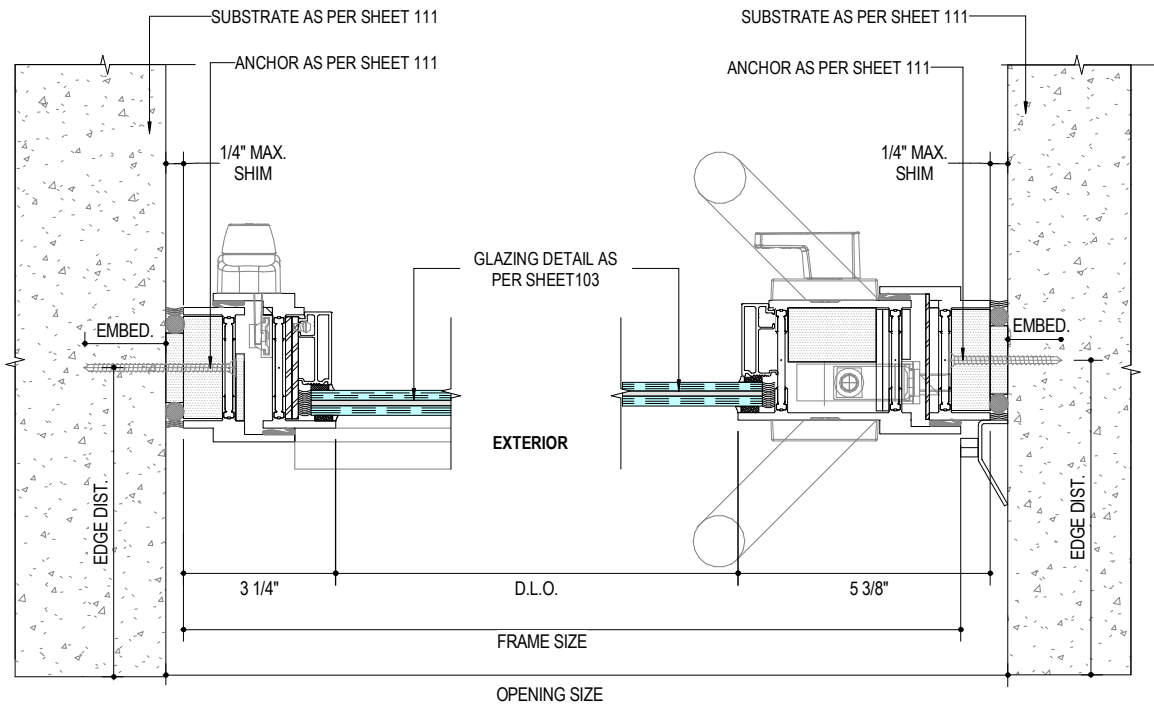
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108 NOT TO SCALE



8 OUTSWING HORIZONTAL SECTION - LOCK RAIL WITH HARDWARE - UNEQUAL LEG - 8
108 NOT TO SCALE

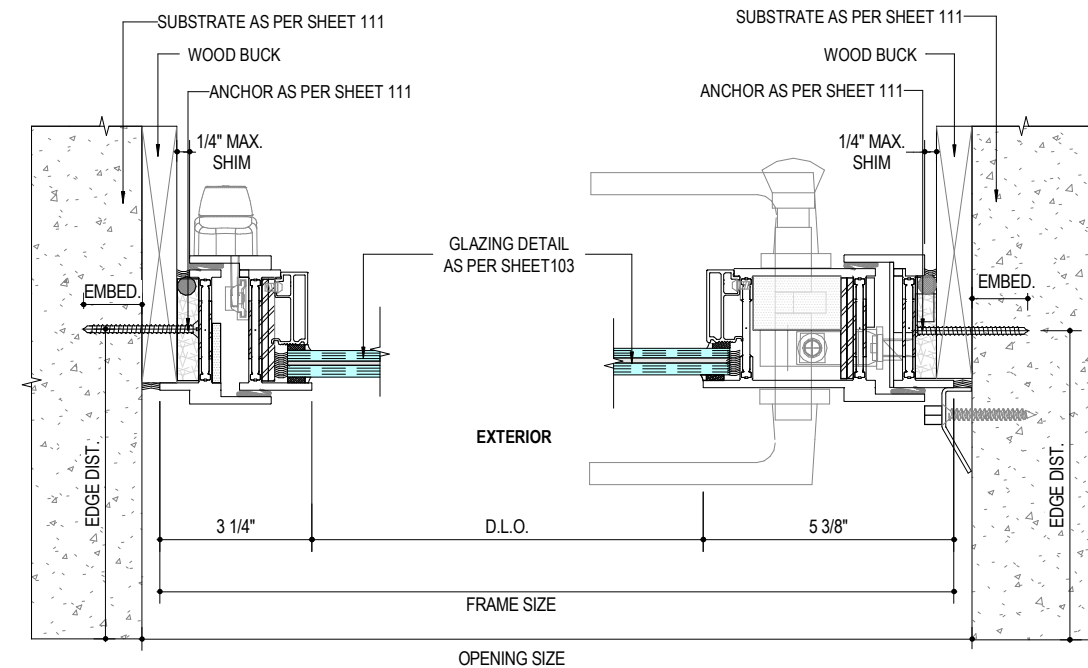


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108 NOT TO SCALE



8A OUTSWING HORIZONTAL SECTION - LOCK RAIL WITH HARDWARE - EQUAL LEG - 8A
108 NOT TO SCALE

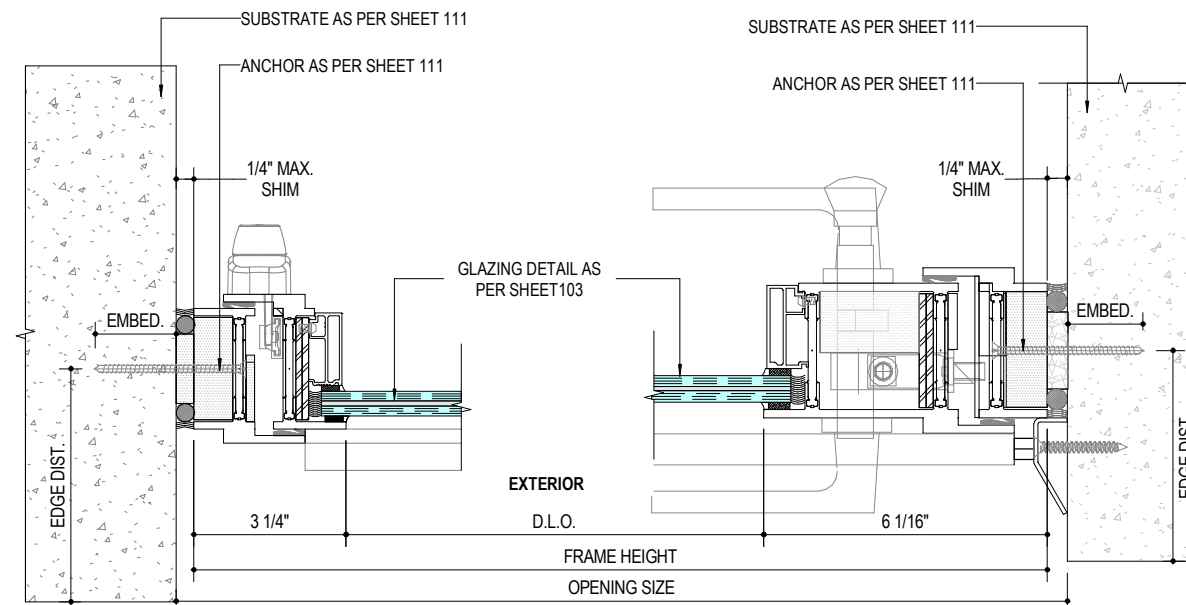
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10
109

OUTSWING HORIZONTAL SECTION - LOCK BOX WITH HARDWARE -UNEQUAL LEG -10

NOT TO SCALE



10A
109

OUTSWING HORIZONTAL SECTION - LOCK BOX WITH HARDWARE - EQUAL LEG - 10A

NOT TO SCALE

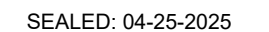


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MODEL :	THERMALLY BROKEN STAINLESS STEEL PIVOT DOOR



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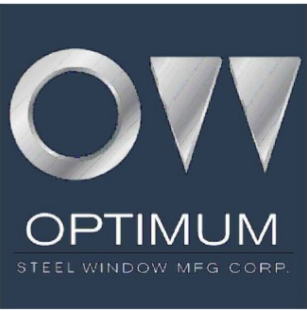
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RTS430i STAINLESS STEEL INSWING
AND OUTSWING PIVOT DOOR

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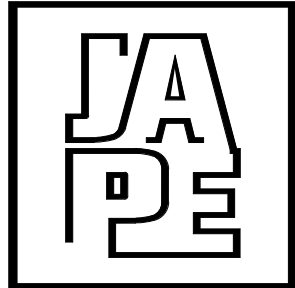
PAGE NUMBER:

109 OF 112



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MODEL : THERMALLY BROKEN
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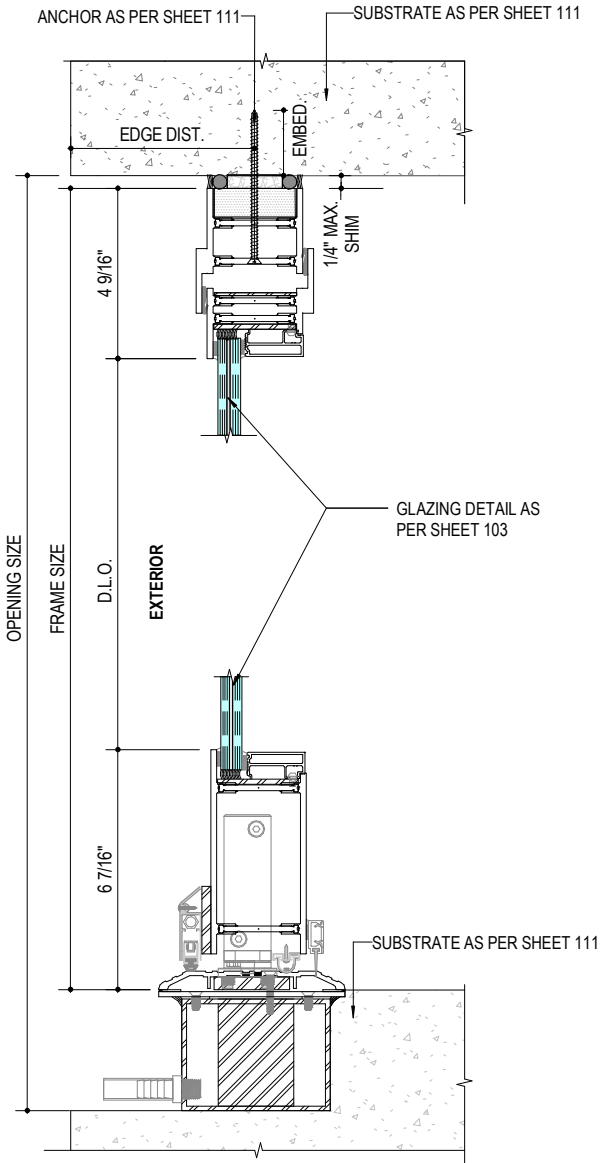
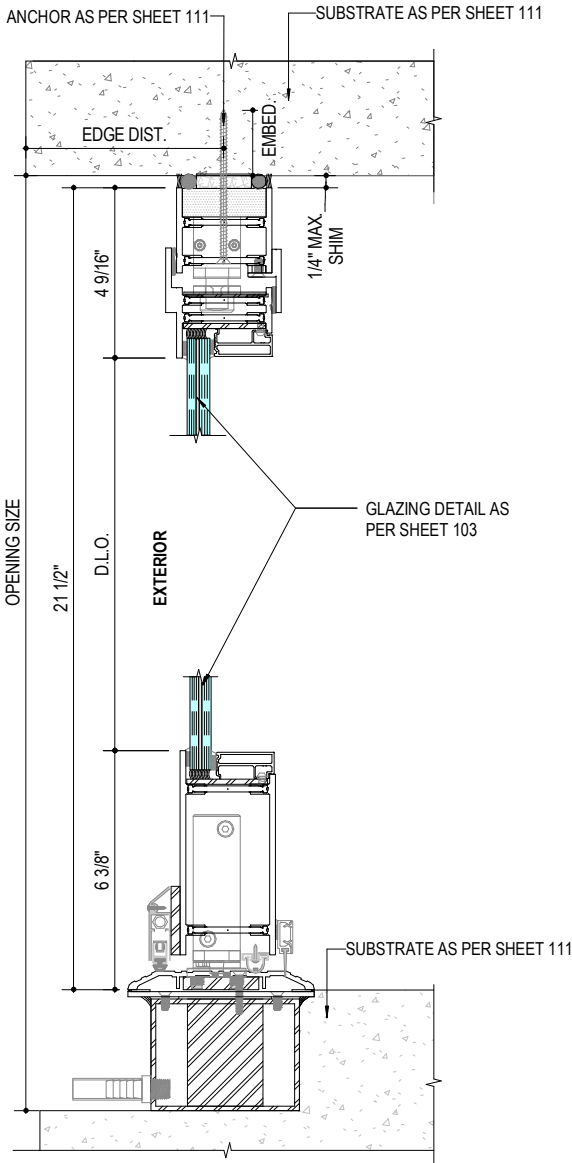
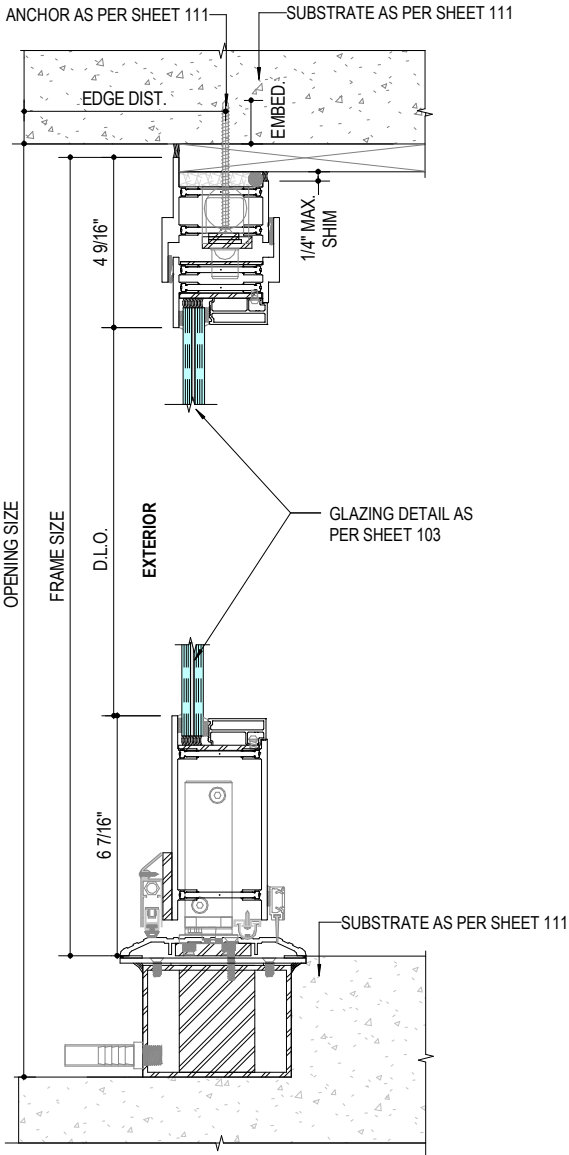
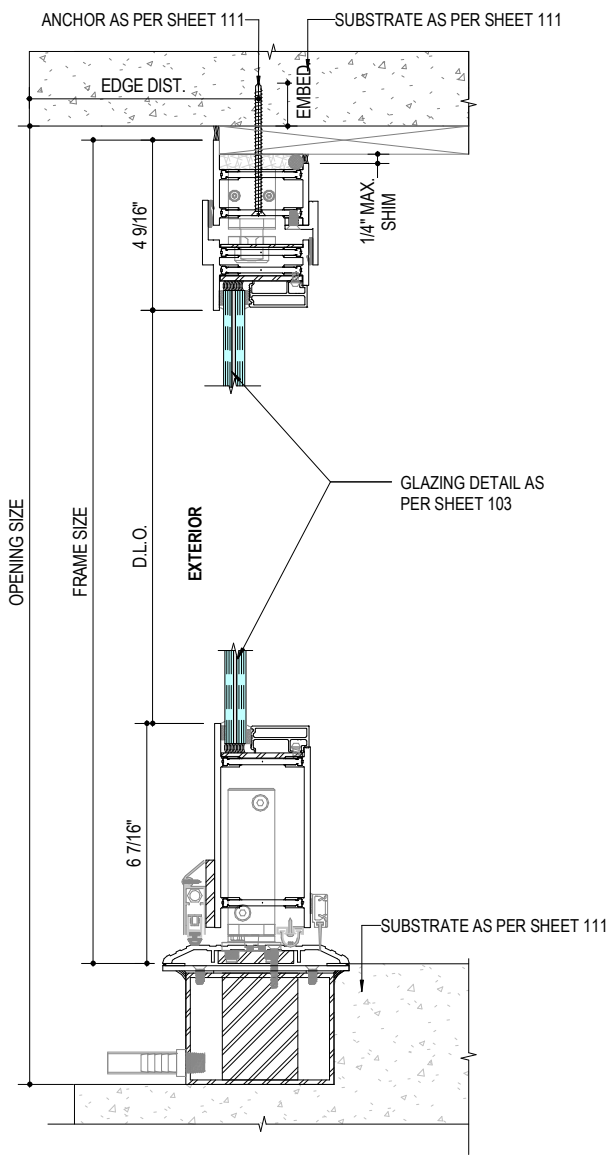
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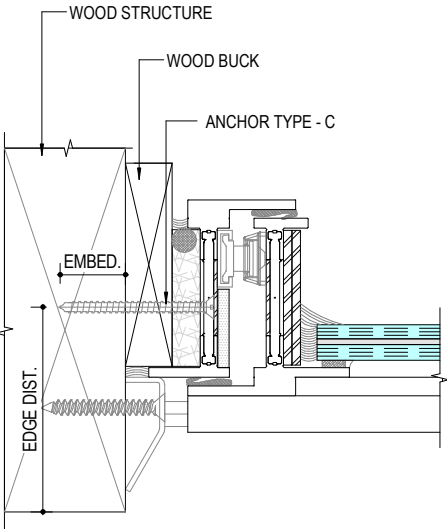
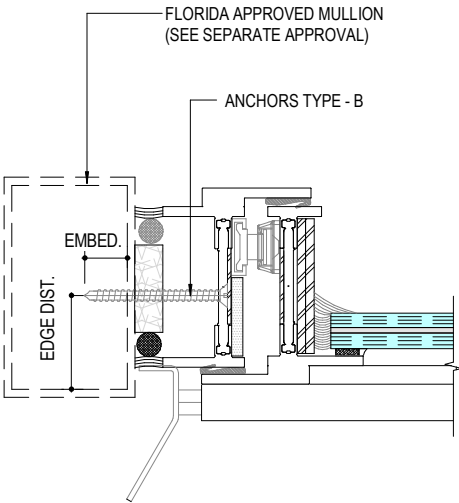
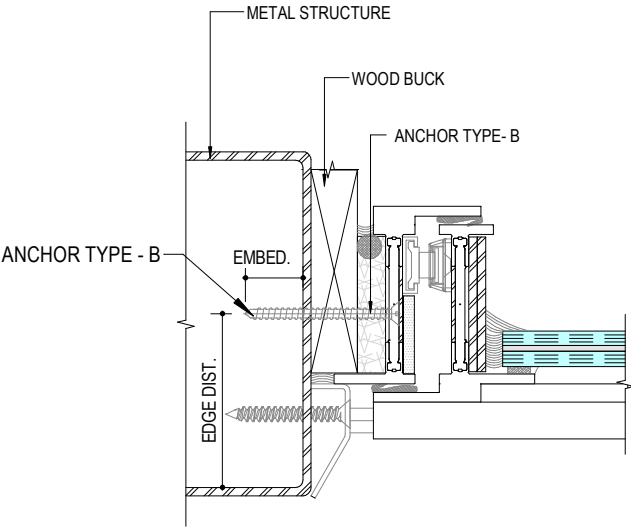
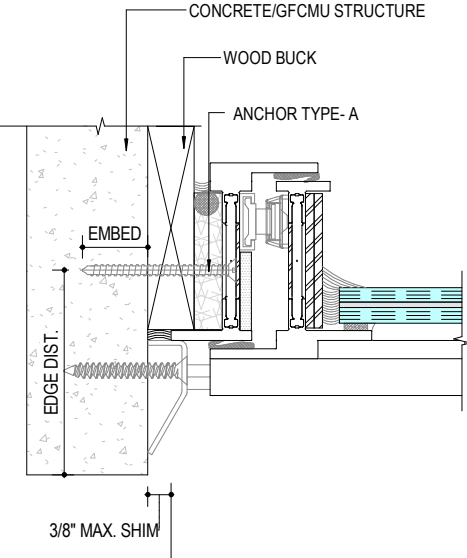
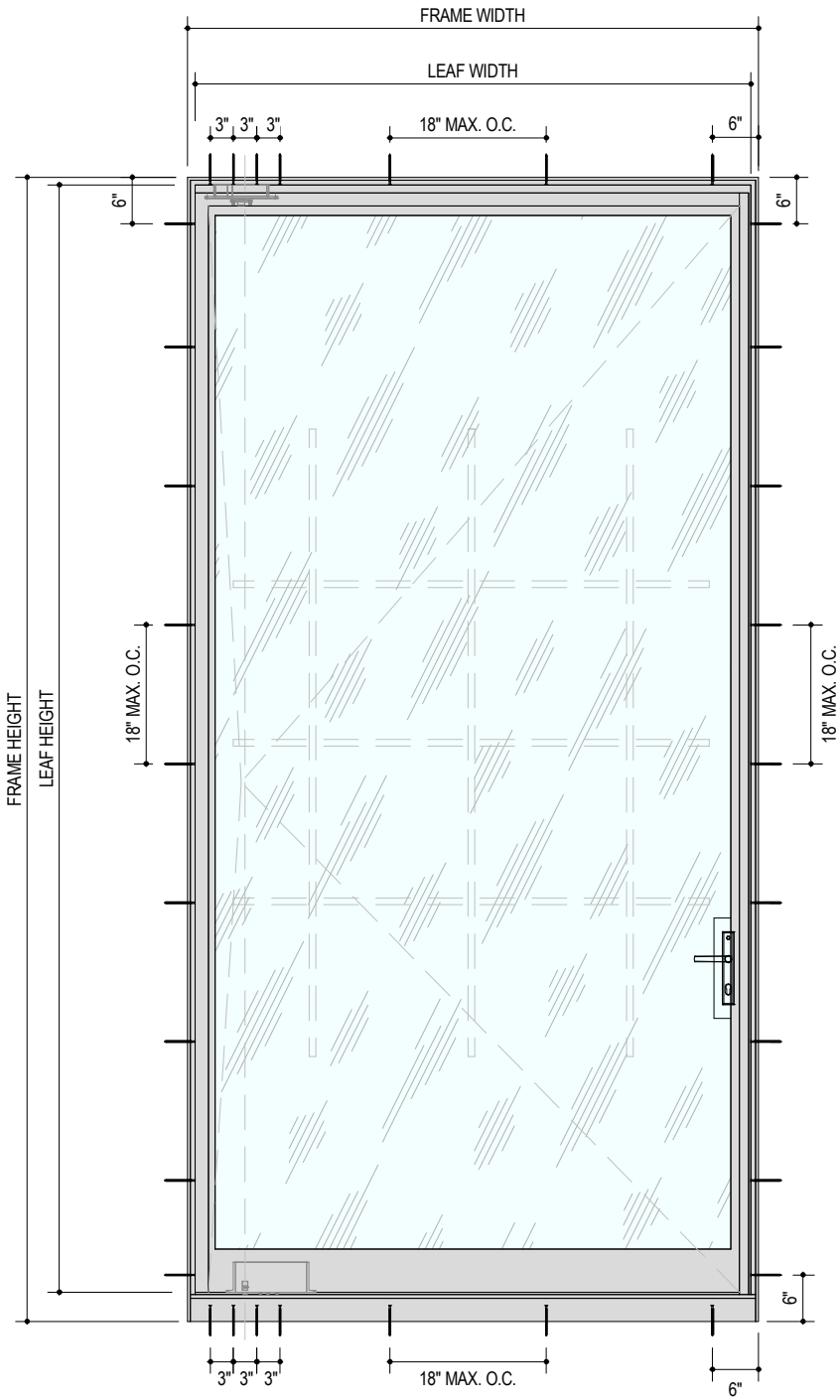


11
110 VERTICAL SECTION - UNEQUAL LEG - 11
LOCK RAIL AND LOCK BOX

12
110 VERTICAL SECTION - UNEQUAL LEG 12
LOCK RAIL AND LOCK BOX

11A
110 VERTICAL SECTION - EQUAL LEG 11A
LOCK RAIL AND LOCK BOX

12A
110 VERTICAL SECTION - EQUAL LEG 12A
LOCK RAIL AND LOCK BOX



2 ANCHORAGE INTO CONCRETE
111 NOT TO SCALE

3 ANCHORAGE INTO METAL STRUCTURE
111 NOT TO SCALE

4 ANCHORAGE INTO ALUMINUM MULLION
111 NOT TO SCALE

5 ANCHORAGE INTO WOOD STRUCTURE
111 NOT TO SCALE

1 ANCHORAGE LAYOUT - PIVOT DOOR
111 NOT TO SCALE

TYPICAL ANCHOR TYPES:

TYPE A - 1/4" DIA. DEWALT ULTRA CON SS4 (Fu = 177,000 PSI, Fy = 155,000 PSI)

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

TYPE B - 1/4"-20 SS SCREWS 18-8

- 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.

TYPE C - #12 SS SCREWS CW1

- INTO 2BY WOOD WITH 1-1/2" PENETRATION, AND 1-3/4" MIN. EDGE DISTANCE AND 12" O.C. SPACING.

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #1 (SG=0.55 MIN.)
- CONCRETE AT HEAD /JAMBS/SILL f'c= 3000 PSI
- C-90 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

NOTE:

THE WOOD BUCKS, CONCRETE /GFCMU 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.



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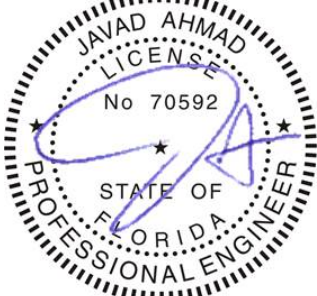
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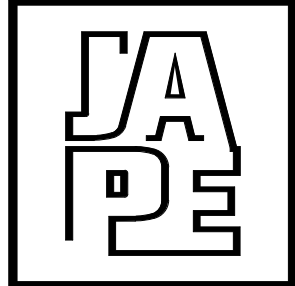
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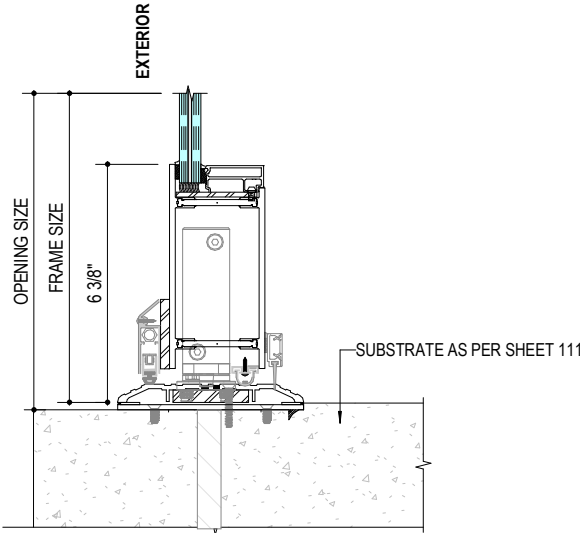
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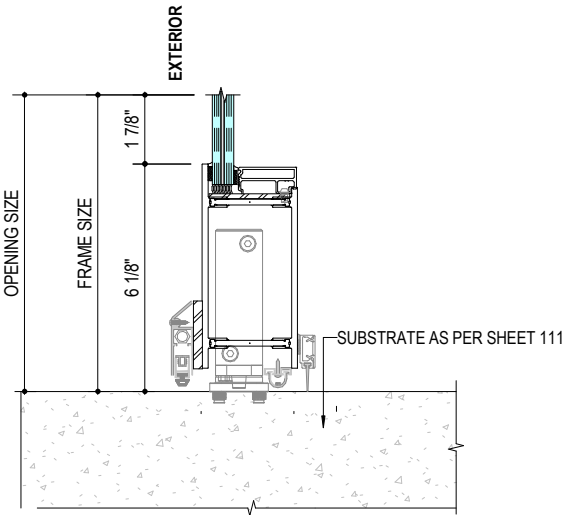
PROJECT NUMBER
JA-1937-24

PAGE NUMBER:
112 OF 112



1
112 **NON PERFORMANCE SILL-SECTIONAL DETAIL 1**
ADA THRESHOLD SILL

NO WATER PERFORMANCE



2
112 **NON PERFORMANCE SILL - SECTIONAL DETAIL 2**
NO THRESHOLD SILL

NO WATER PERFORMANCE

NOTE:
• THESE SILLS DETAILS ARE NOT APPROVED TO BE USED WHEN WATER INFILTRATION RESISTANCE IS REQUIRED.