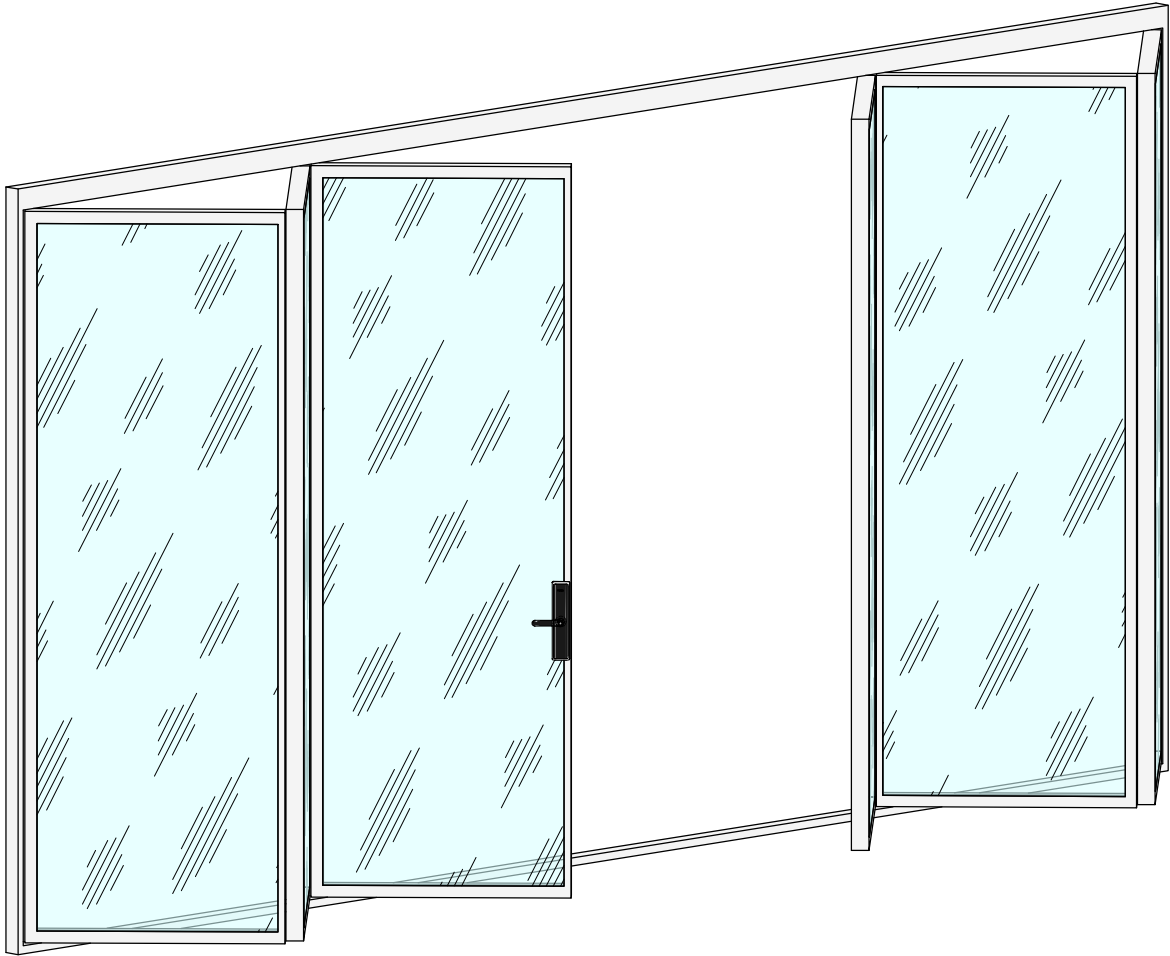


SHEET INDEX	
101	COVER PAGE
102	TYPICAL ELEVATIONS
103	TYPICAL ELEVATIONS
104	GLAZING OPTIONS
105	SECTIONAL DETAILS
106	SECTIONAL DETAILS
107	SECTIONAL DETAILS
108	SECTIONAL DETAILS
109	ANCHORAGE LAYOUT
110	ANCHORAGE LAYOUT

NOTE:

- THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED OPTIMUM STEEL WINDOW AND DOOR 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.



OUTSWING BI-FOLD DOOR SYSTEM

DESIGN PRESSURE RATING		
FRAME SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
41-3/16" X 131-7/8"	+/- 65 PSF	LARGE & SMALL MISSILE IMPACT

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 SUBSTITUTED 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# 47960

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

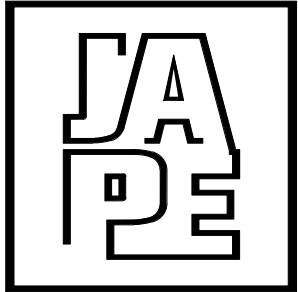
THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT (LEVEL D & E)

FL# 47960



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SERIES :	RTS-430i
MODEL :	THERMALLY BROKEN OUTSWING BI-FOLD DOOR SYSTEM



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Doral, FL 33126
Ph: (305) 424-8001
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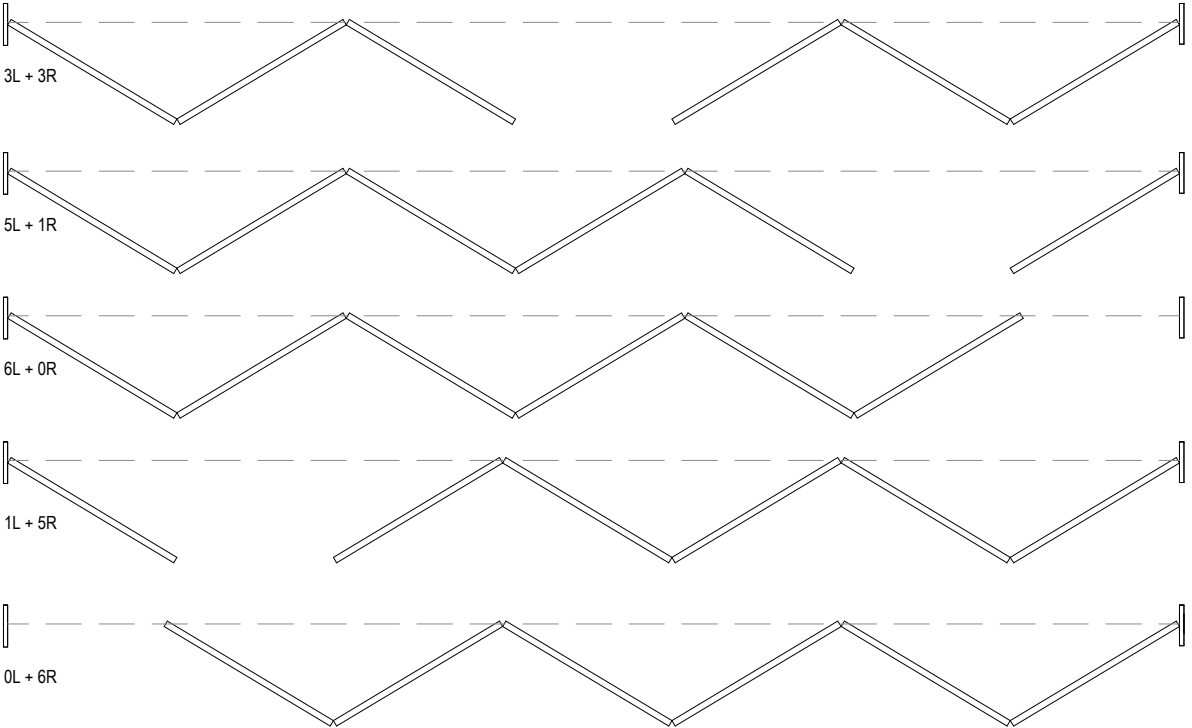
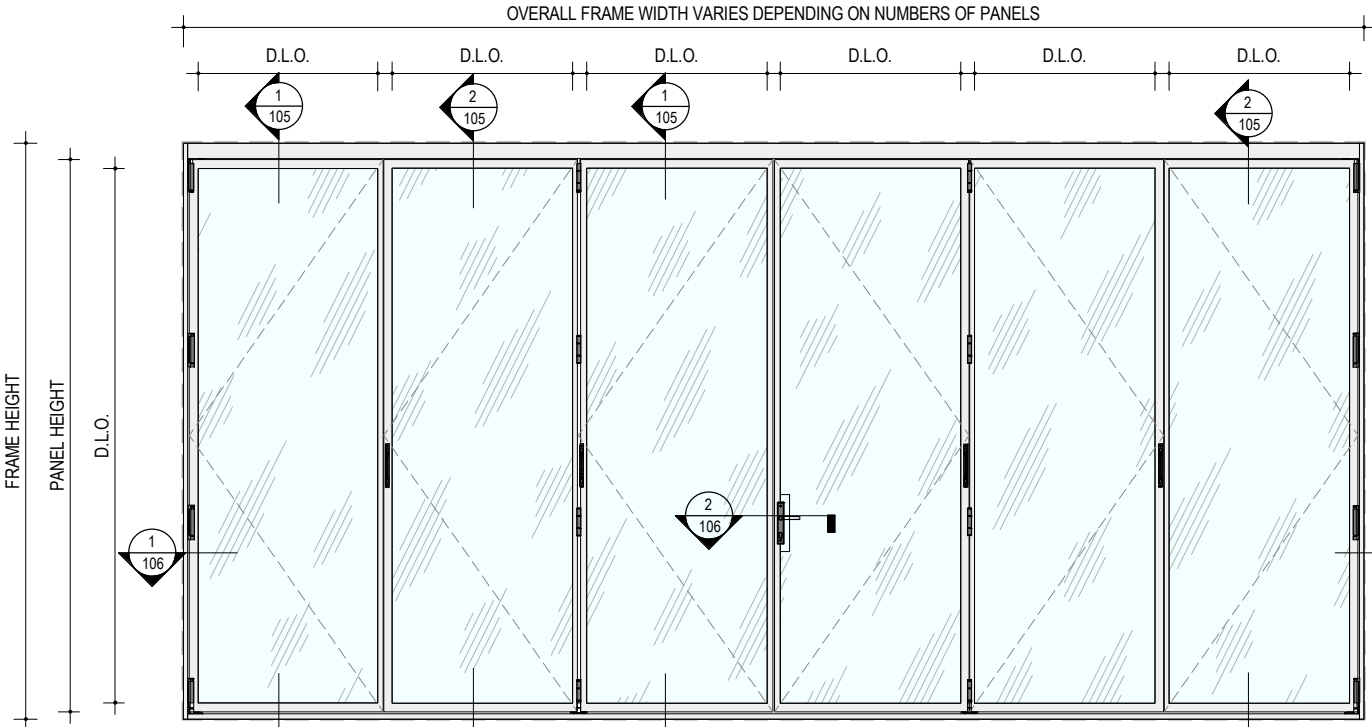


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DATE		12-18-25	
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PROJECT: RTS-430i OUTSWING BI-FOLD DOOR			
PROJECT NUMBER JA-1523-25			
PAGE NUMBER: 101 OF 110			

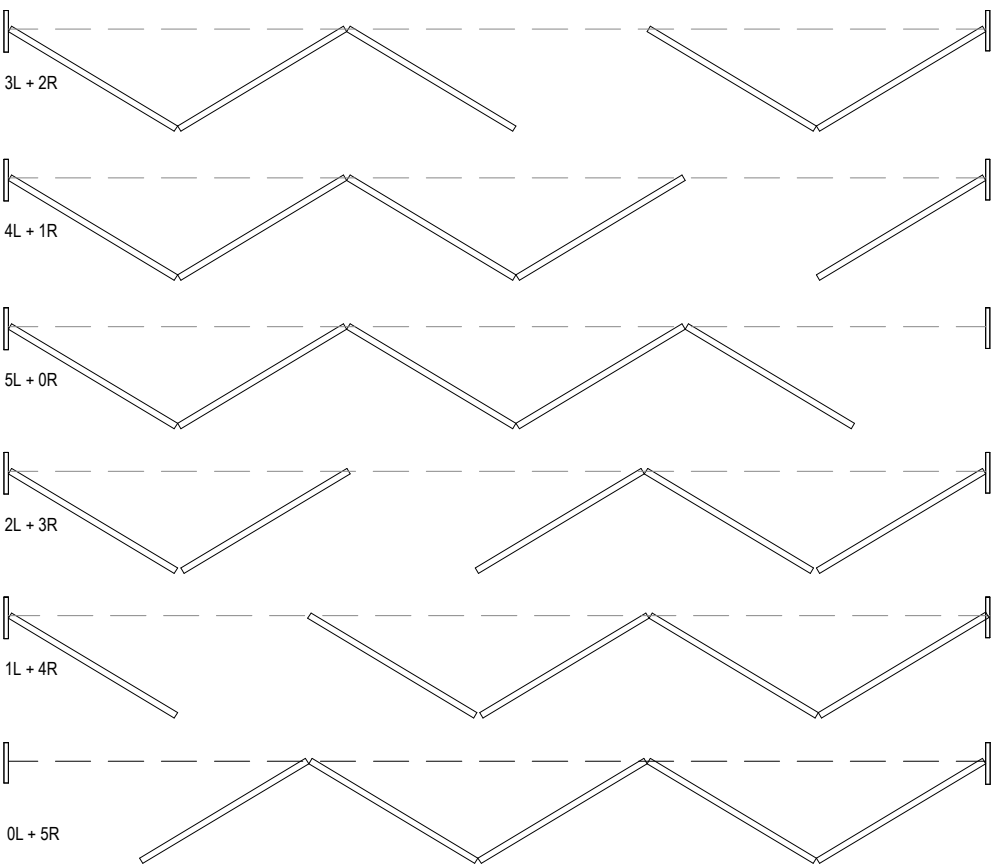
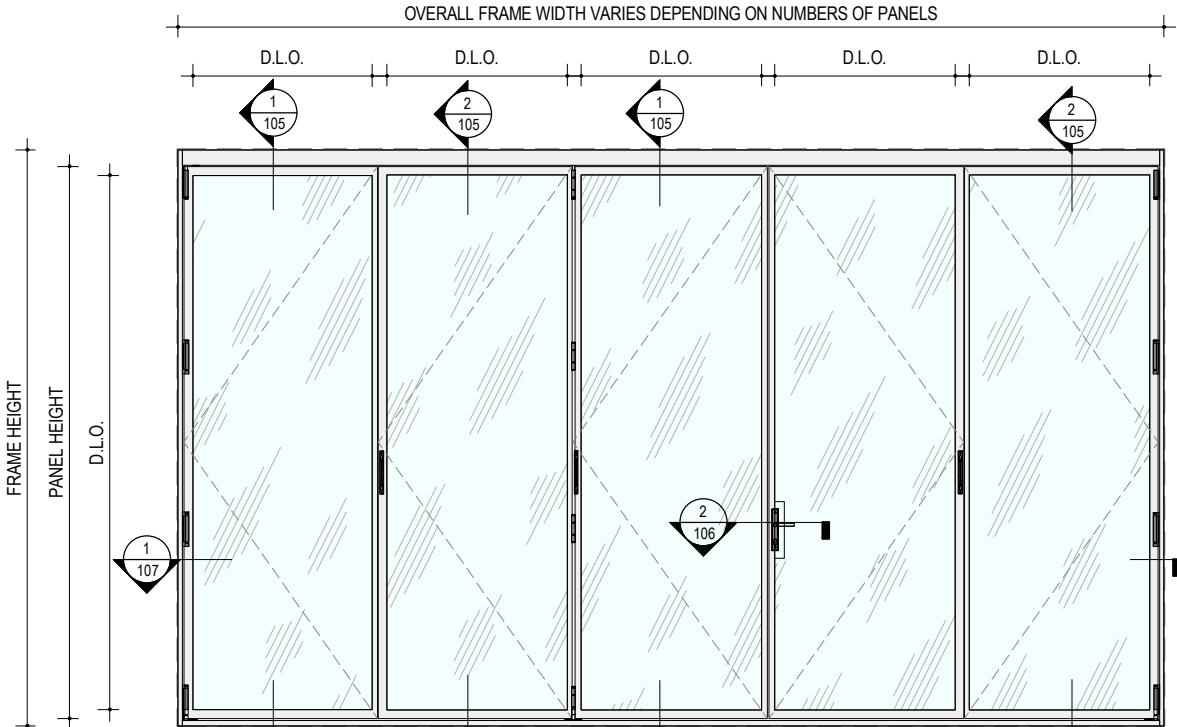
TYPICAL ELEVATIONS

FL# 47960



1
102

TYPICAL ELEVATION (6 PANEL)
NOT TO SCALE



2
102

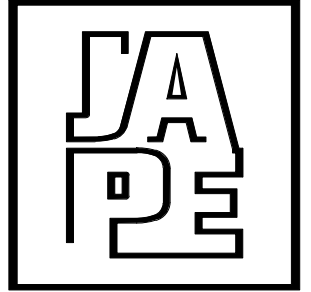
TYPICAL ELEVATION (5 PANEL)
NOT TO SCALE

SYSTEM	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	MAX. FRAME WIDTH	MAX. FRAME HEIGHT
BI-FOLD DOOR (6 PANEL)	41-3/16"	122"	269-3/8"	131-7/8"
BI-FOLD DOOR (5 PANEL)	41-3/16"	122"	225"	131-7/8"



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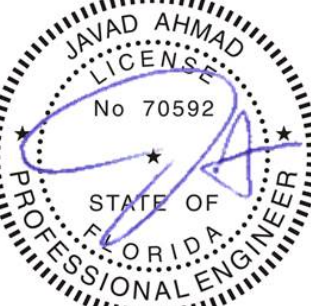
SERIES : RTS- 430i
MODEL : THERMALLY BROKEN OUTSWING
BI-FOLD DOOR SYSTEM



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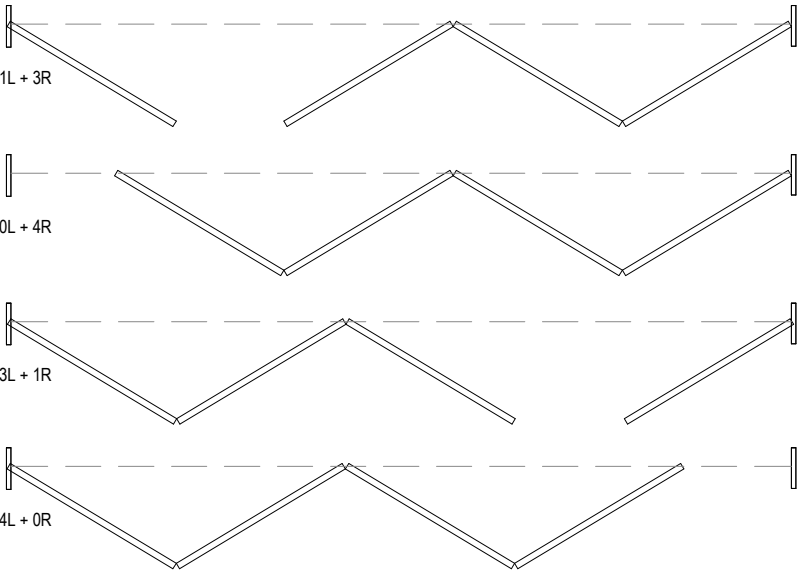
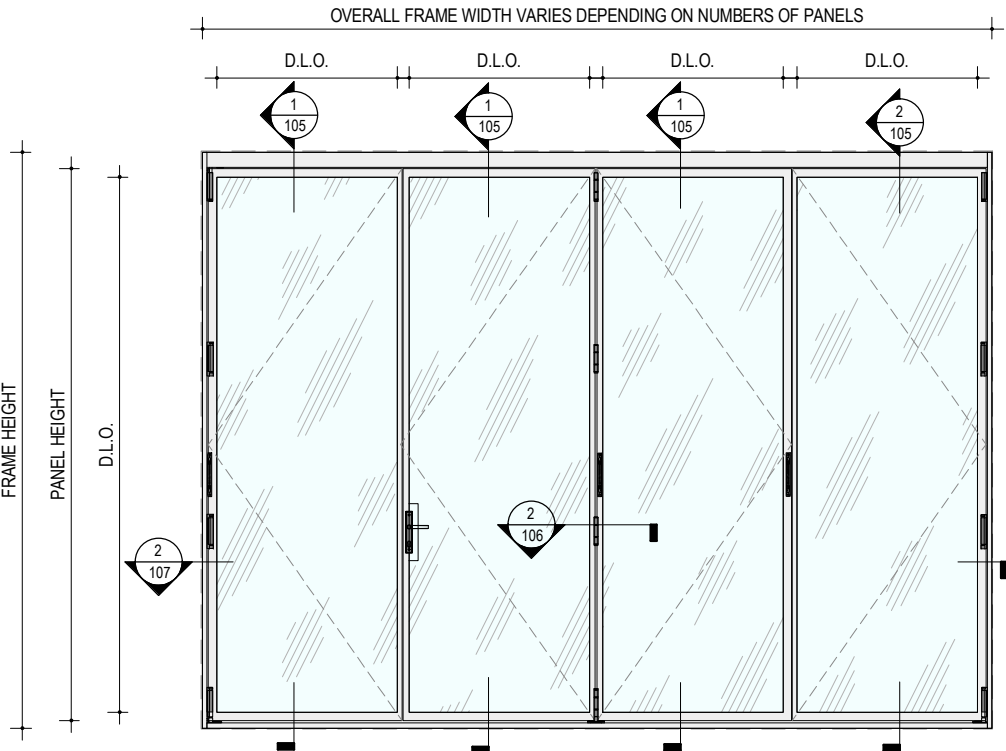
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CUSTOMER:
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DOORS

PROJECT:
RTS-430i OUTSWING BI-FOLD DOOR

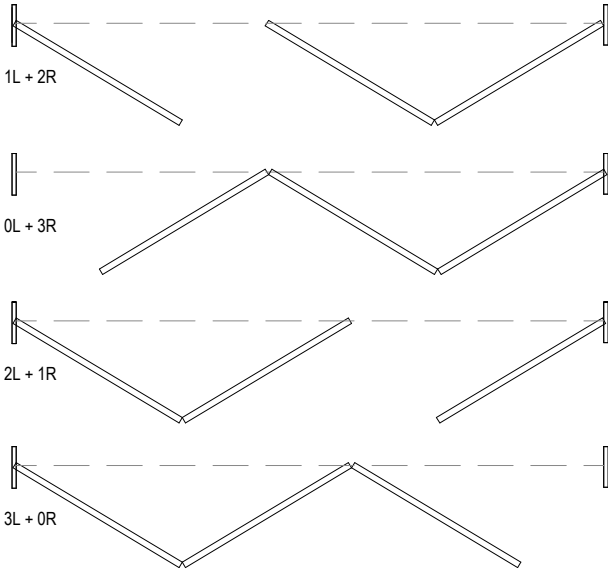
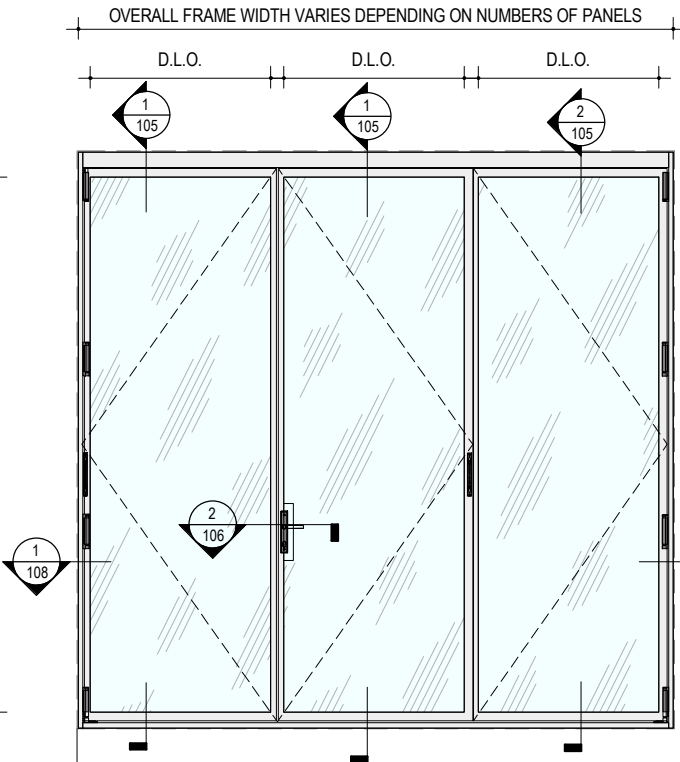
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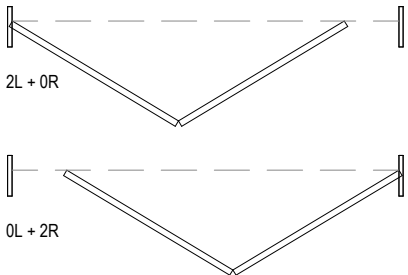
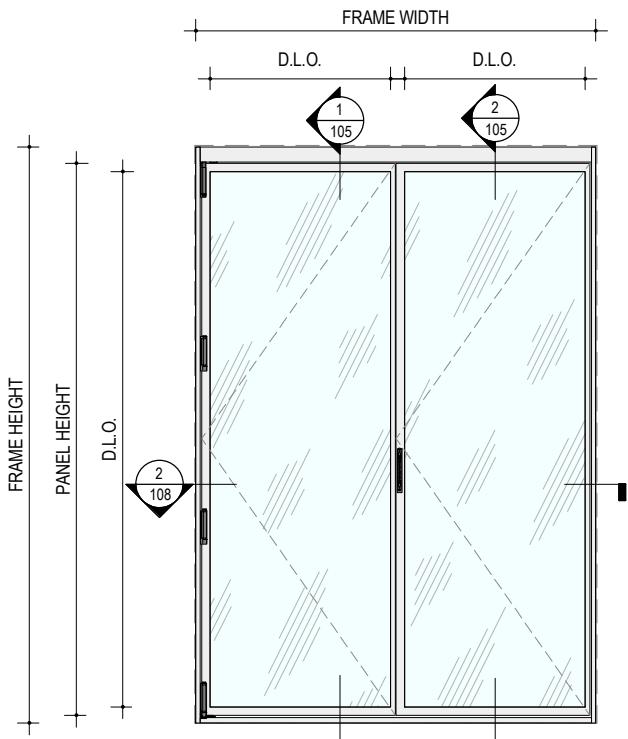
1
103

TYPICAL ELEVATION (4 PANEL)
NOT TO SCALE



2
103

TYPICAL ELEVATION (3 PANEL)
NOT TO SCALE



3
103

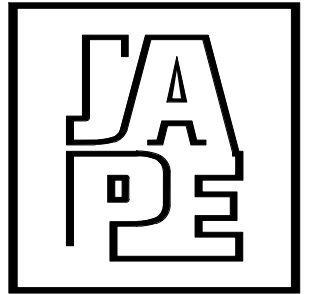
TYPICAL ELEVATION (2 PANEL)
NOT TO SCALE

SYSTEM	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	MAX. FRAME WIDTH	MAX. FRAME HEIGHT
BI-FOLD DOOR (4 PANEL)	41-3/16"	122"	180-5/8"	131-7/8"
BI-FOLD DOOR (3 PANEL)	41-3/16"	122"	136-1/4"	131-7/8"
BI-FOLD DOOR (2 PANEL)	41-3/16"	122"	92-1/16"	131-7/8"



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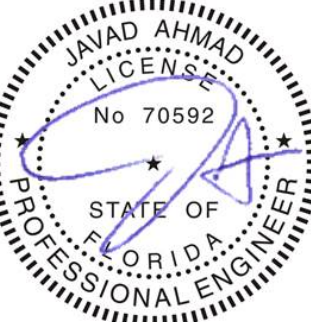
SERIES : RTS- 430i
MODEL : THERMALLY BROKEN OUTSWING
BI-FOLD DOOR SYSTEM



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DOORS

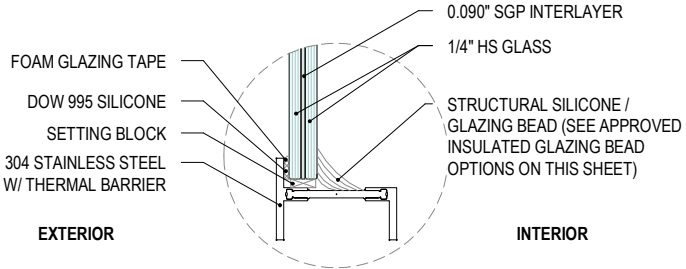
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RTS-430i OUTSWING BI-FOLD DOOR

PROJECT NUMBER
JA-1523-25

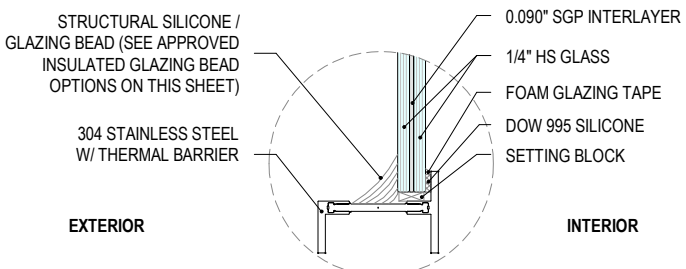
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GLAZING OPTIONS

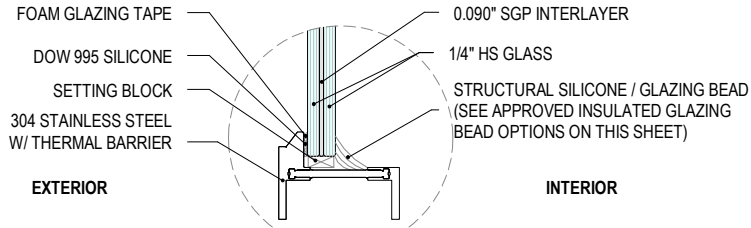
FL# 47960



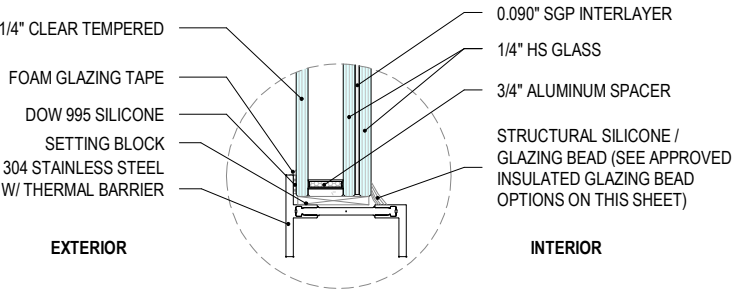
1
104
GL 1 (9/16" LAMINATED GLASS)
NOT TO SCALE



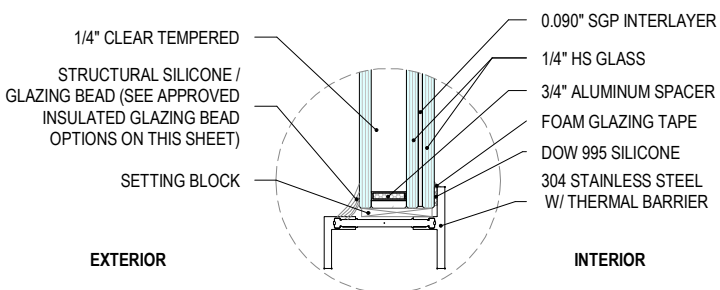
2
104
GL 2 (9/16" LAMINATED GLASS)
NOT TO SCALE



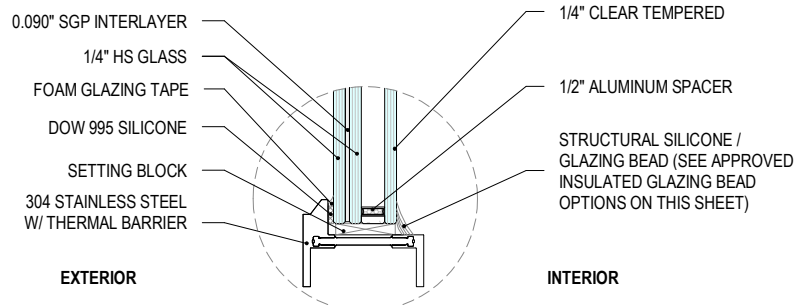
3
104
GL 3 (9/16" LAMINATED GLASS)
NOT TO SCALE



4
104
GL 4 (1-1/2" INSULATED GLASS)
NOT TO SCALE



5
104
GL 5 (1-1/2" INSULATED GLASS)
NOT TO SCALE



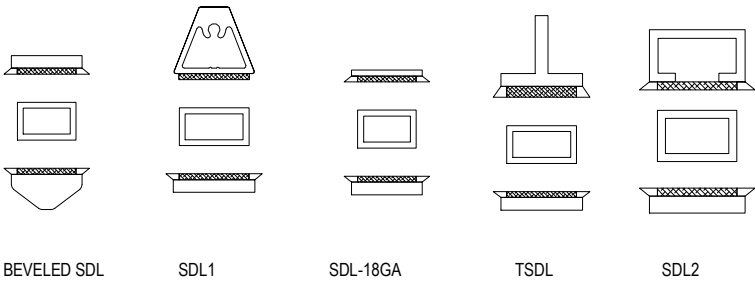
6
104
GL 6 (1-1/4" INSULATED GLASS)
NOT TO SCALE

GLAZING NOTES:

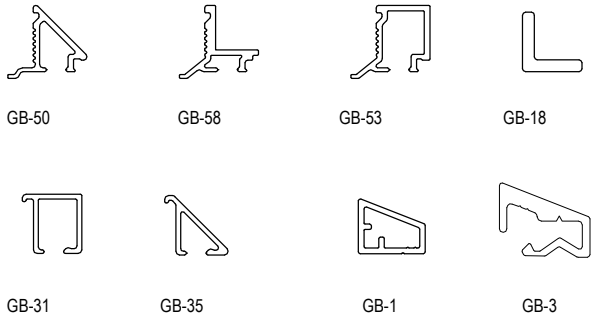
1. CONFIRM THE GLASS SIZE AND REBATE SIZE TO ENSURE THAT THE GLASS WILL FIT.
2. REMOVE GLAZING BEADS AND CAREFULLY LABEL SIDE AND OPENING ON EACH GLAZING BEAD REMOVED. *GLAZING BEADS ARE CUT TO SIZE AND ARE NOT INTERCHANGEABLE AMONGST UNITS.
3. CLEAN GLAZING/GRID REBATE WITH ISOPROPYL ALCOHOL.
4. CAREFULLY 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.)
5. 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.)
6. INSPECT AND CLEAN GLASS PRIOR TO PLACEMENT OF GLASS.
7. CAREFULLY APPLY GLAZING PRIMER TO GLASS AREAS THAT MEET BOTH THE GLAZING/GRID TAPE.
8. REMOVE GLAZING TAPE LINER.
9. CAREFULLY INSTALL GLASS INTO GLAZING POCKET.
10. 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.
11. 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.
12. NEOPRENE SETTING BLOCK. DUROMETER 70-90 SHORE A, TO BE USED FOR PROPER GLAZING SUPPORT AND LOAD DISTRIBUTION.
13. 7/16" LAMINATED GLASS AVAILABLE, CONSULT WITH GLAZING SUPPLIER FOR AVAILABILITY AND LIMITATIONS.

NOTE:- LAMINATED BOARD TO BE INTERCHANGEABLE WITH INTERIOR AND EXTERIOR BOARD

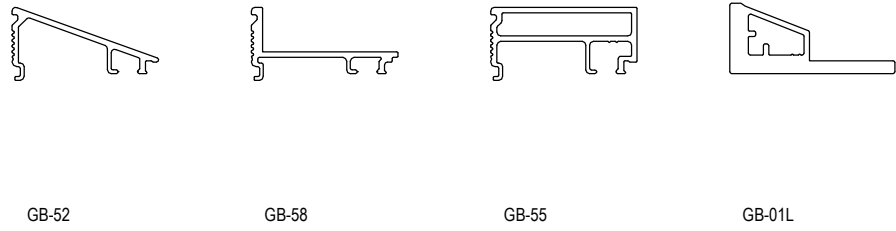
SIMULATED MUNTIN:



APPROVED INSULATED GLAZING BEAD OPTIONS

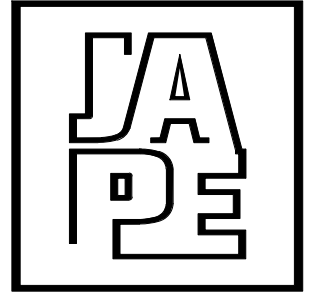


APPROVED MONOLITHIC LAMINATED GLAZING BEAD OPTIONS



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SERIES : RTS- 430i
MODEL : THERMALLY BROKEN OUTSWING BI-FOLD DOOR SYSTEM



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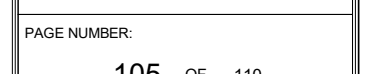
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OPTIMUM STEEL WINDOWS AND DOORS

PROJECT:
RTS-430i OUTSWING BI-FOLD DOOR

PROJECT NUMBER
JA-1523-25

FL# 47960



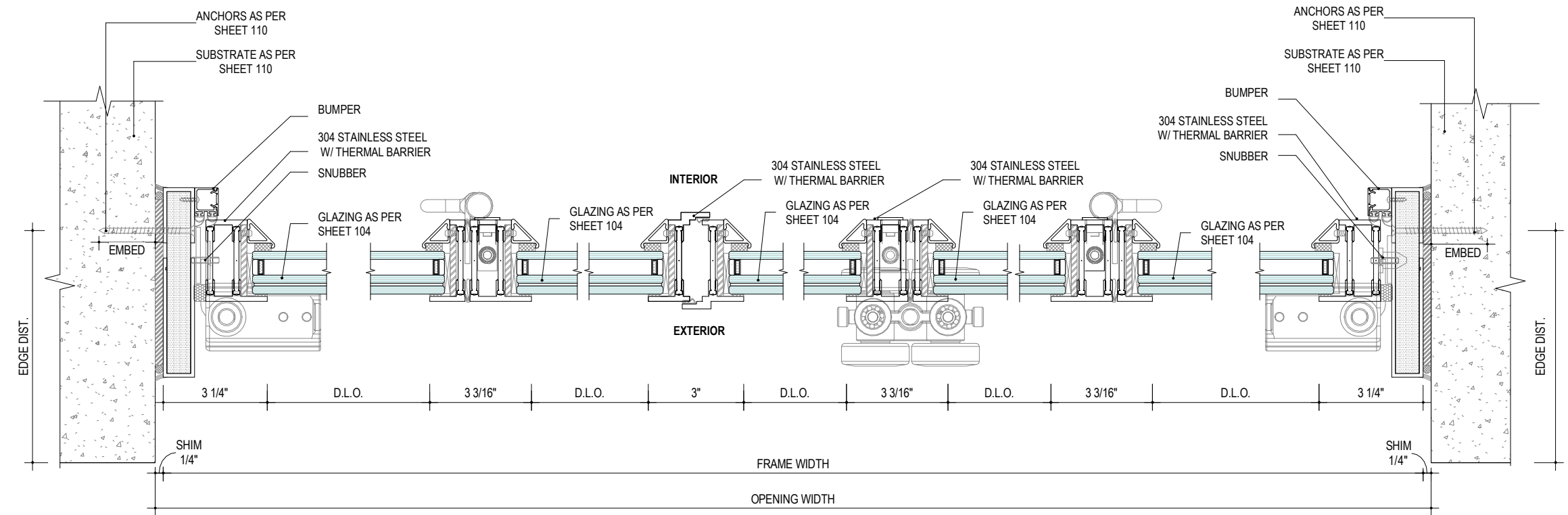
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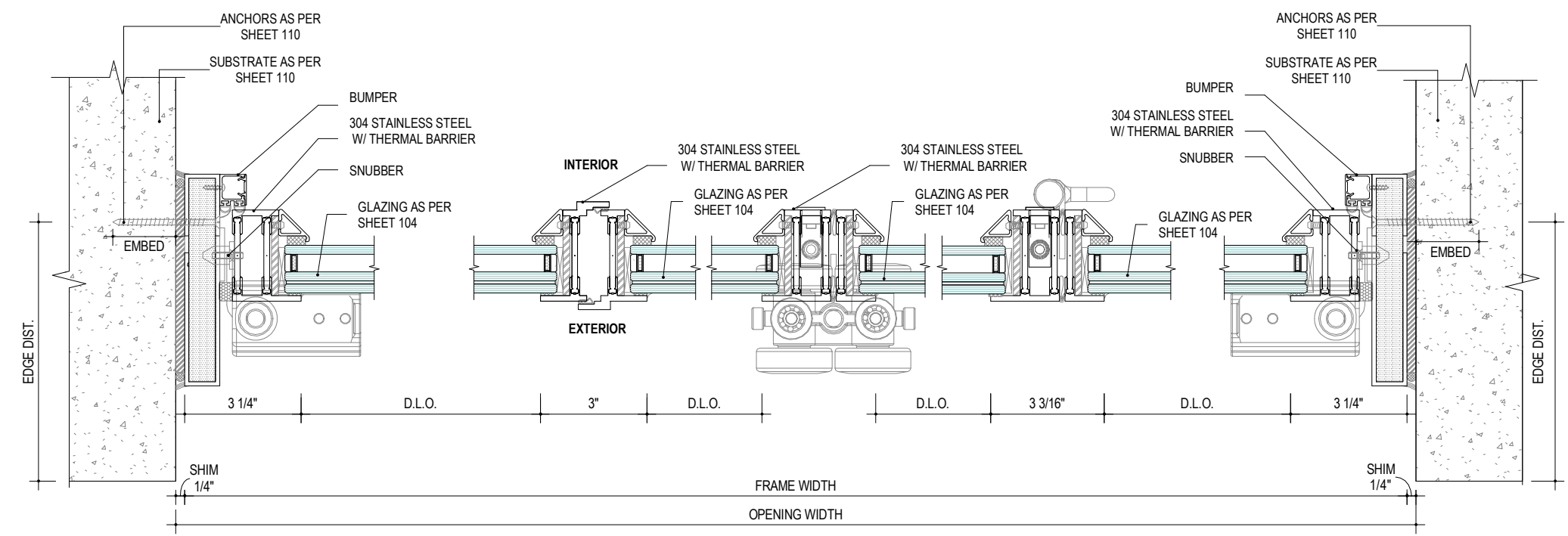
2
106

HORIZONTAL SECTION - INTERMEDIATE DETAIL

NOT TO SCALE



1
107
HORIZONTAL SECTION 5 PANEL
NOT TO SCALE

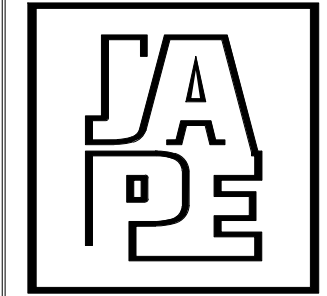


2
107
HORIZONTAL SECTION 4 PANEL
NOT TO SCALE



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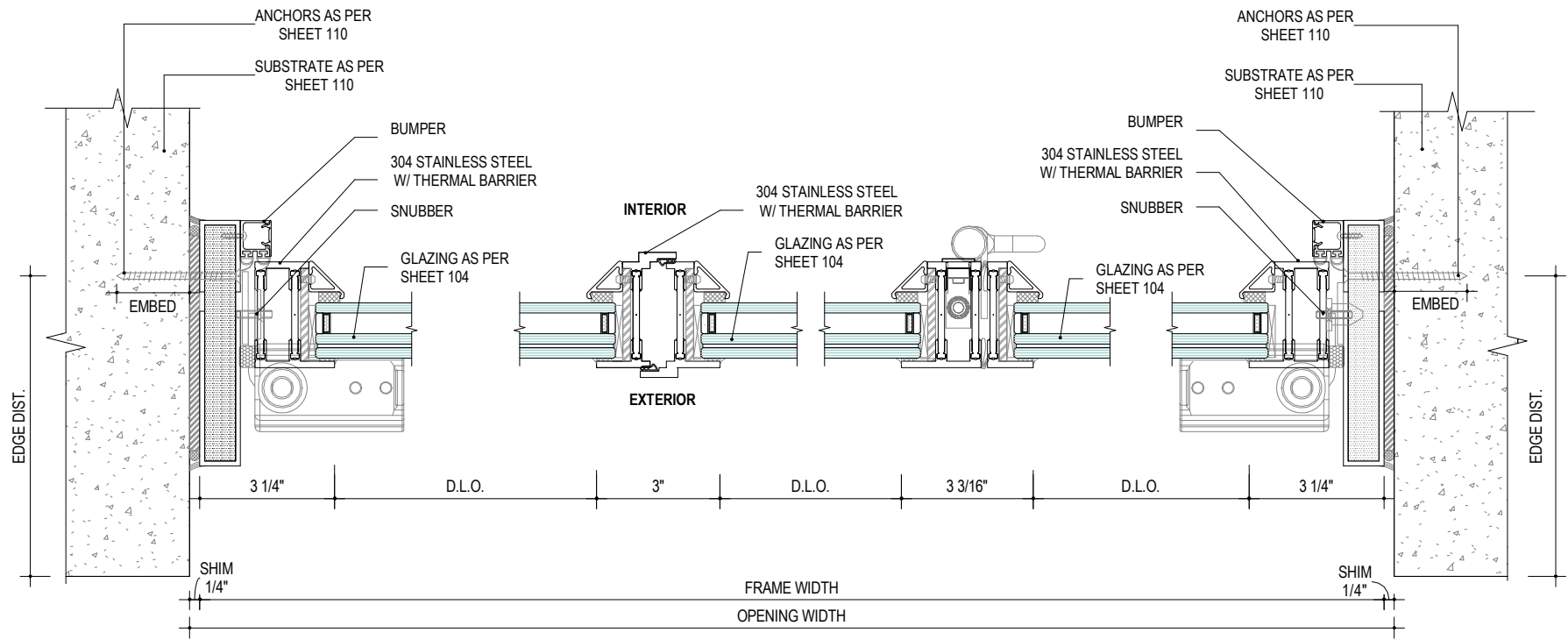
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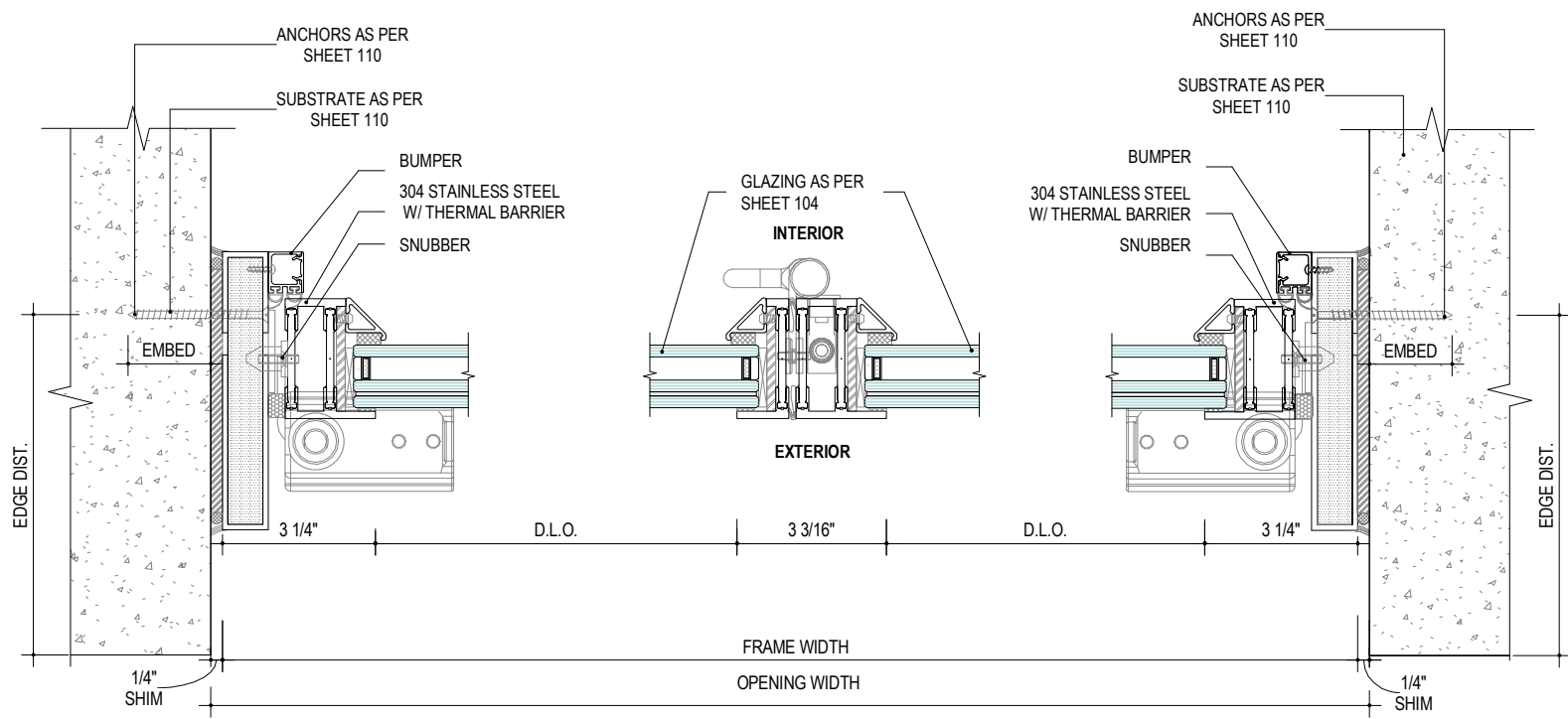
PROJECT:
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1
108
HORIZONTAL SECTION 3 PANEL
NOT TO SCALE

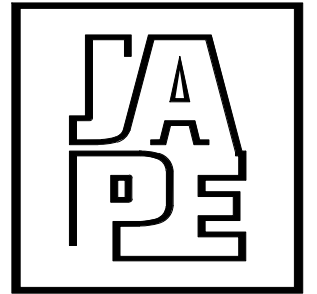


2
108
HORIZONTAL SECTION 2 PANEL
NOT TO SCALE



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SERIES : RTS- 430i
MODEL : THERMALLY BROKEN OUTSWING BI-FOLD DOOR SYSTEM



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CUSTOMER:
OPTIMUM STEEL WINDOWS AND DOORS

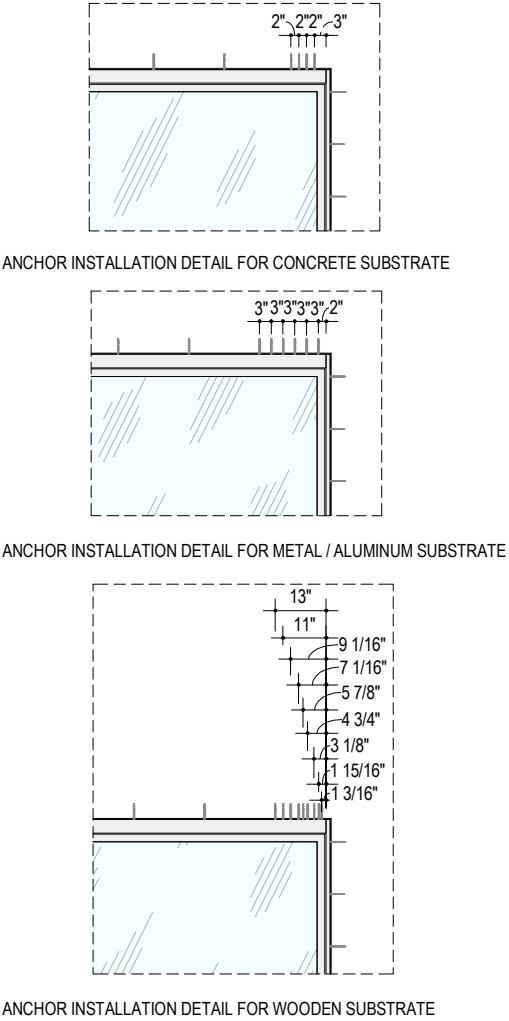
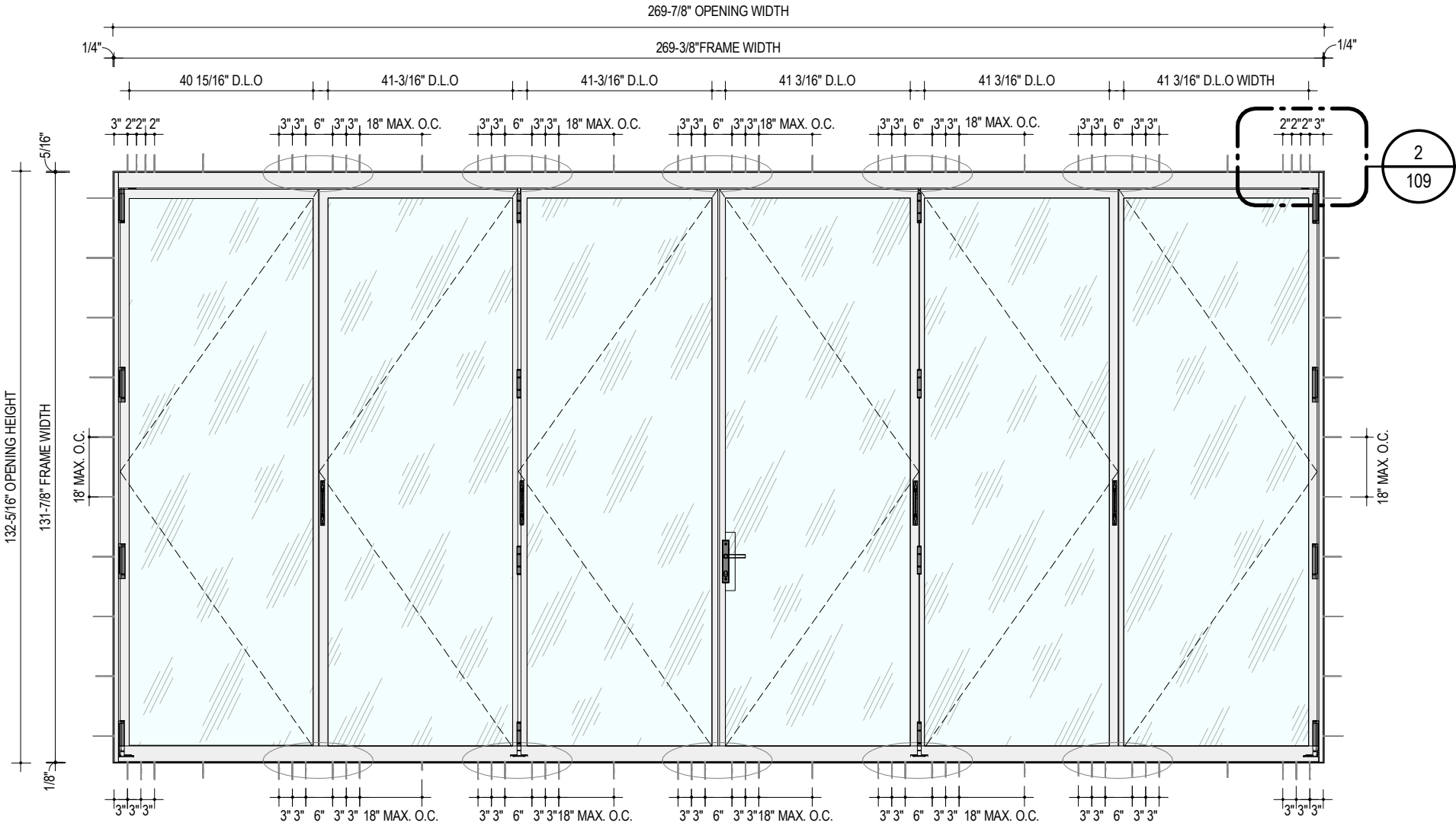
PROJECT:
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PROJECT NUMBER
JA-1523-25

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108 OF 110

ANCHORAGE LAYOUT

FL# 47960



1
109
ANCHORAGE DETAIL-SPECIMEN A
NOT TO SCALE

2
109
STACKING – CLUSTER DETAILS FOR VARIOUS SUBSTRATES
NOT TO SCALE

3
109
ANCHORAGE INTO CONCRETE STRUCTURE
NOT TO SCALE

4
109
ANCHORAGE INTO METAL STRUCTURE
NOT TO SCALE

5
109
ANCHORAGE INTO ALUMINUM STRUCTURE
NOT TO SCALE

6
109
ANCHORAGE INTO WOOD STRUCTURE
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.
• INTO CONCRETE WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 18" O.C. SPACING.
• INTO GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 18" O.C. SPACING.
• DIRECTLY INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE, AND 18" O.C. SPACING.

TYPE B - 1/4-20 SS SCREWS (FY= 30000 PSI)
• 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.

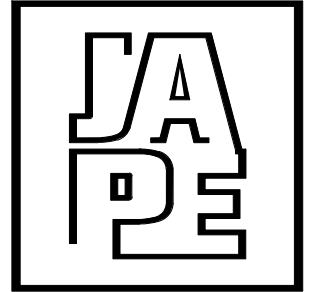
ANCHOR / SUBSTRATE NOTES:
• WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
• CONCRETE AT HEAD OR JAMBS f'c= 3000 PSI
• C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
• STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
• ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
• STEEL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

NOTE:
THE 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.



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SERIES : RTS- 430i
MODEL : THERMALLY BROKEN OUTSWING BI-FOLD DOOR SYSTEM



JAVAD AHMAD PE, inc
7875 NW 12 Street, Suite 102
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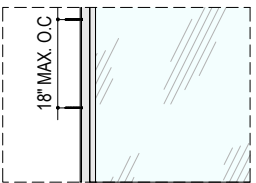
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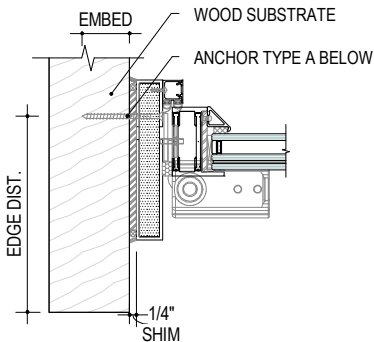
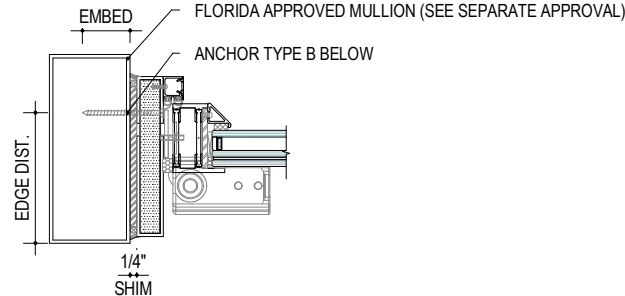
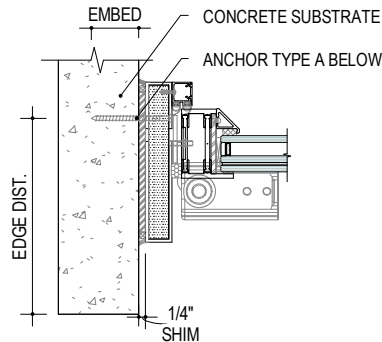
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CUSTOMER:		OPTIMUM STEEL WINDOWS AND DOORS
PROJECT:		RTS-430i OUTSWING BI-FOLD DOOR
PROJECT NUMBER		JA-1523-25
PAGE NUMBER:		109 OF 110

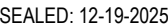
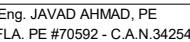
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5
ANCHORAGE INTO WOOD STRUCTURE
110
NOT TO SCALE



THE 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.

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