

Series 6000 - Glass Sliding Door (SS) Installation Manual



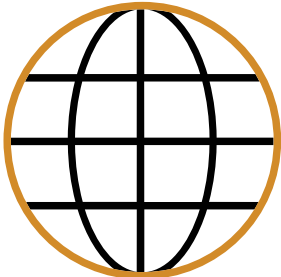
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GENERAL NOTES:

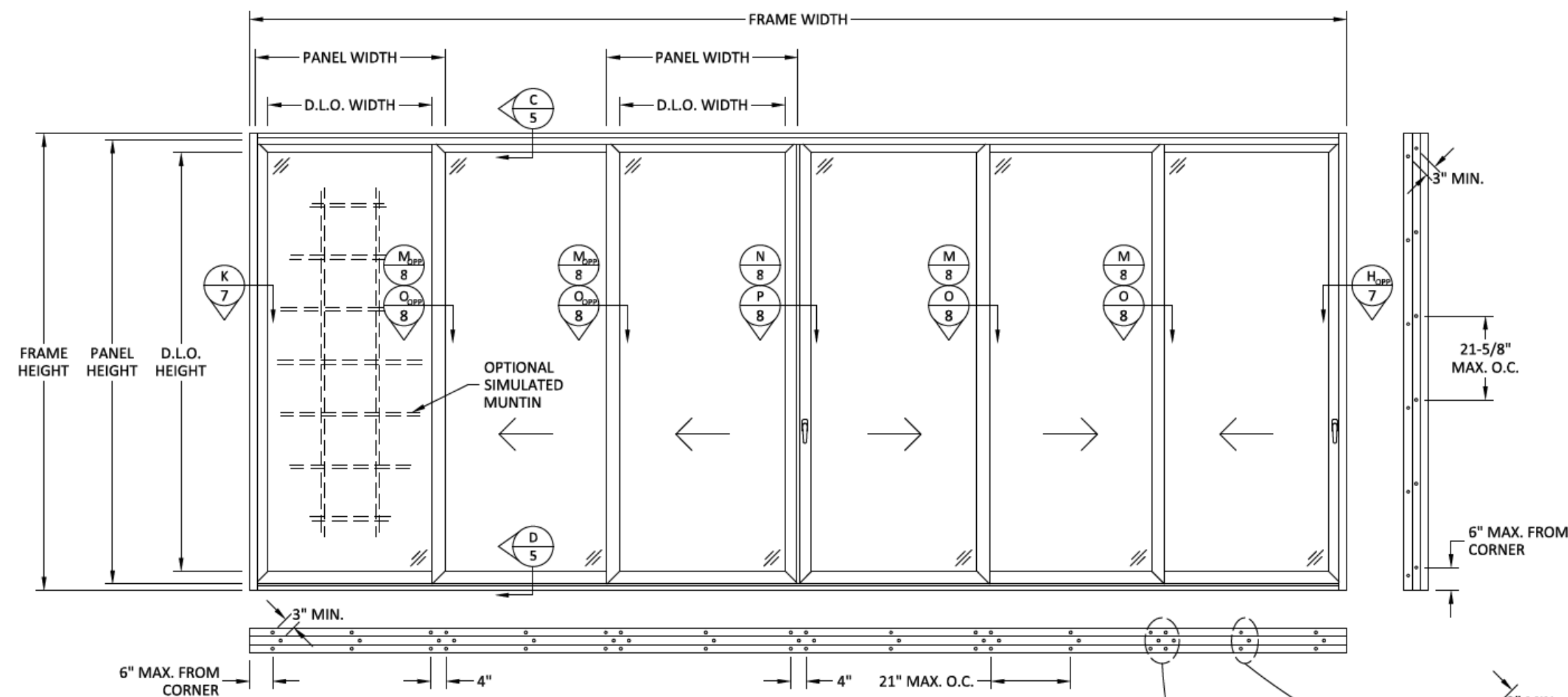
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **INCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. PROFILE MATERIAL: ALUMINUM 6063-T5/6063-T6.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES
2	TYPICAL ELEVATION AND ANCHOR LAYOUTS
3	GLAZING DETAILS AND DESIGN PRESSURE TABLE
4	QUALIFIED CONFIGURATIONS
5	VERTICAL SECTIONS
6	VERTICAL SECTIONS
7	HORIZONTAL SECTIONS
8	HORIZONTAL SECTIONS
9	INSTALLATION DETAILS
10	INSTALLATION NOTES AND ANCHOR SCHEDULE
11	BILL OF MATERIALS AND COMPONENTS
12	CORNER DETAILS

DESIGN PRESSURE RATING		
FRAME SIZE	DESIGN PRESSURE	MISSILE RATING
SEE SHEETS 2 & 3		LARGE & SMALL MISSILE IMPACT



Series 6000 - Glass Sliding Door (SS) Installation Manual

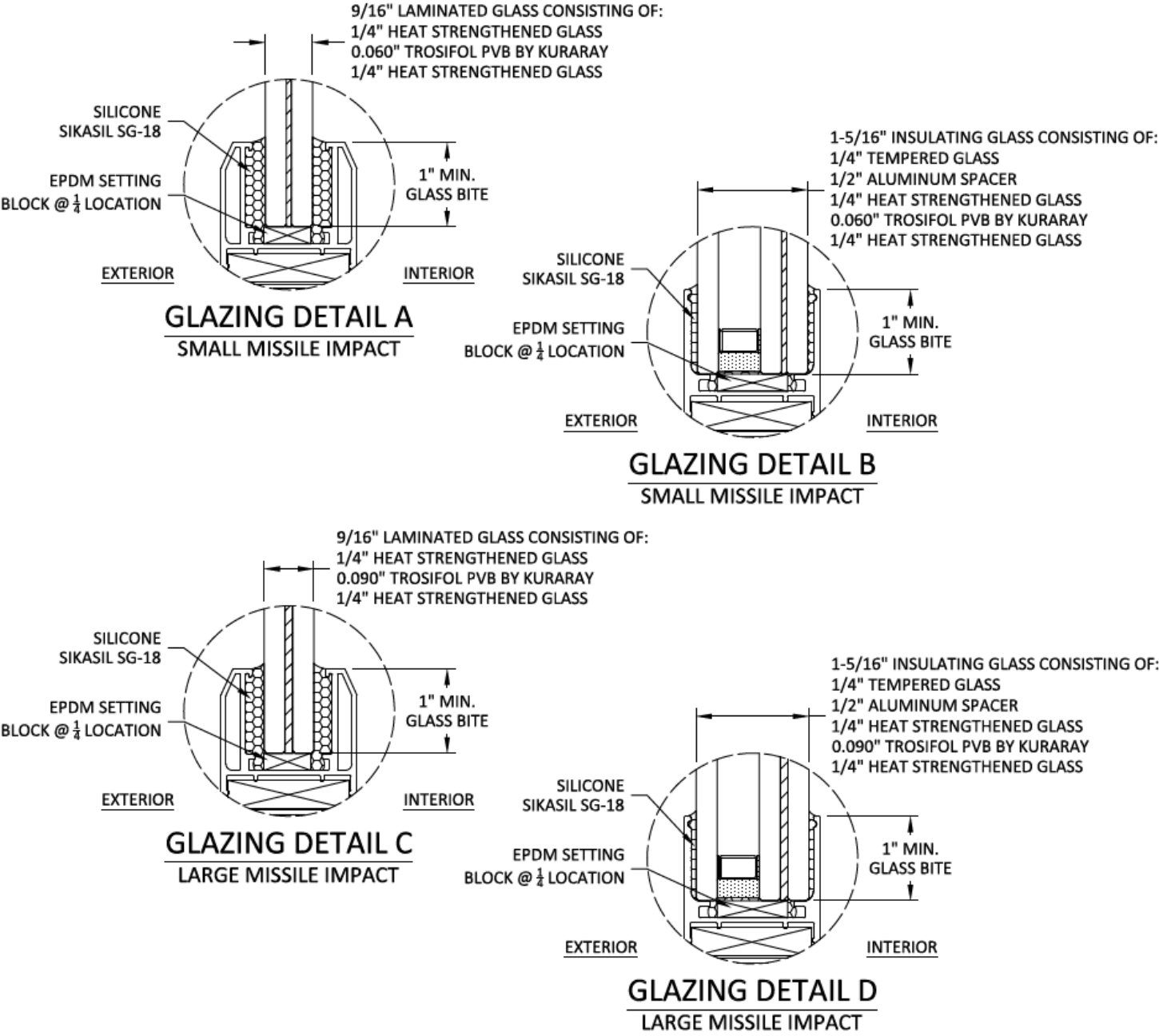


TYPICAL ELEVATION & ANCHOR LAYOUT
6-PANEL, 3-TRACK SHOWN

- NOTES:
1. SIZES AND PRESSURES SEE SHEET 3.
 2. ALTERNATE QUALIFIED CONFIGURATIONS SEE SHEET 4.
 3. FOR STANDARD INTERLOCK AND ASTRAGAL, THE MAXIMUM FRAME AREA SHALL NOT EXCEED 256 SQ. FT².
 4. FOR REINFORCED INTERLOCK AND HD ASTRAGAL, THE MAXIMUM FRAME AREA SHALL NOT EXCEED 320 SQ. FT².

PANEL HEIGHT = FRAME HEIGHT - 3.345"
D.L.O. HEIGHT = PANEL HEIGHT - 6.693"
D.L.O. WIDTH = PANEL WIDTH - 6.693"

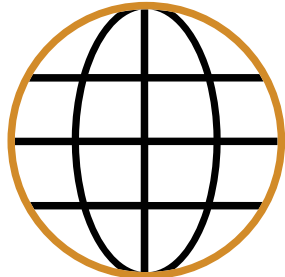
Series 6000 - Glass Sliding Door (SS) Installation Manual



- GLAZING NOTES:
1. GLASS TYPE & THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SHEETS 2 & 3.

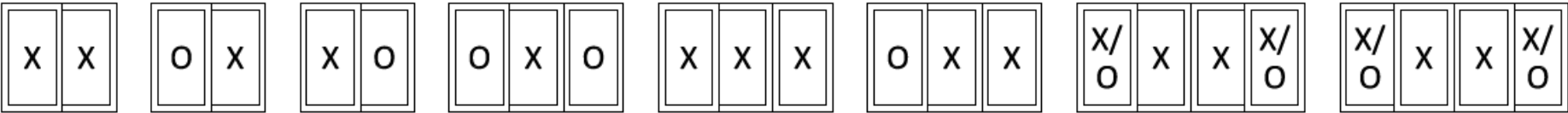
DESIGN PRESSURE TABLE (PSF)							
AVERAGE PANEL WIDTH (IN.)*	DOOR FRAME HEIGHT (IN.)	STD. ASTRAGAL STD. INTERLOCK		HD. ASTRAGAL REINF. INTERLOCK			
		GLASS TYPE 'A', 'B', 'C', & 'D'		GLASS TYPE 'A' & 'C'		GLASS TYPE 'B' & 'D'	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	82	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	70.0	80.0	80.0	80.0	80.0
54		71.1	62.2	71.1	71.1	71.1	71.1
56		68.6	60.0	68.6	68.6	68.6	68.6
60		-	-	64.0	64.0	-	-
66	84	-	-	58.2	58.2	-	-
70		-	-	54.9	54.9	-	-
30		80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	70.0	80.0	80.0	80.0	80.0
54		71.1	62.2	71.1	71.1	71.1	71.1
56	90	-	-	68.6	68.6	-	-
60		-	-	64.0	64.0	-	-
66		-	-	58.2	58.2	-	-
68		-	-	56.5	56.5	-	-
30		80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	78.3	80.0	80.0	80.0	80.0
48	96	80.0	70.0	80.0	80.0	80.0	80.0
51		75.3	65.9	75.3	75.3	75.3	75.3
54		-	-	71.1	71.1	-	-
60		-	-	64.0	64.0	-	-
64		-	-	60.0	60.0	-	-
30		80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0
42	102	80.0	76.8	80.0	80.0	80.0	80.0
48		80.0	70.0	80.0	80.0	80.0	80.0
51		-	-	75.3	75.3	-	-
54		-	-	71.1	71.1	-	-
60		-	-	64.0	64.0	-	-
30		-	-	80.0	80.0	80.0	80.0
36		-	-	80.0	80.0	80.0	80.0
42	108	-	-	80.0	80.0	80.0	80.0
45		-	-	80.0	80.0	80.0	80.0
48		-	-	80.0	80.0	-	-
54		-	-	71.1	71.1	-	-
56		-	-	68.6	68.6	-	-
30		-	-	80.0	80.0	80.0	80.0
36		-	-	80.0	80.0	80.0	80.0
42	114	-	-	80.0	80.0	80.0	80.0
45		-	-	80.0	80.0	-	-
48		-	-	80.0	80.0	-	-
50		-	-	76.8	76.8	-	-
30		-	-	80.0	80.0	80.0	80.0
36		-	-	80.0	80.0	80.0	80.0
42	120	-	-	80.0	80.0	-	-
45		-	-	80.0	80.0	-	-
48		-	-	80.0	80.0	-	-

* AVERAGE PANEL WIDTH = DOOR FRAME WIDTH / NUMBER OF PANELS

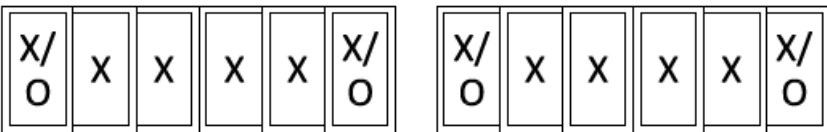
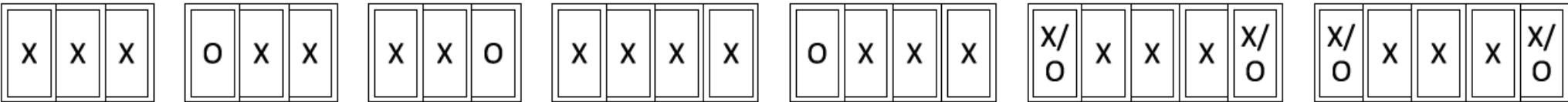


QUALIFIED CONFIGURATIONS

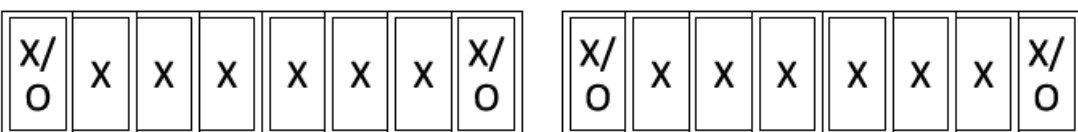
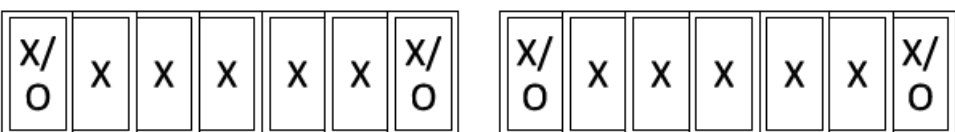
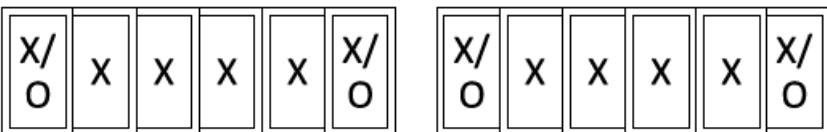
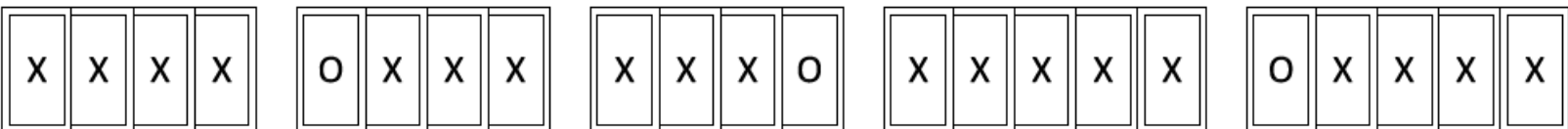
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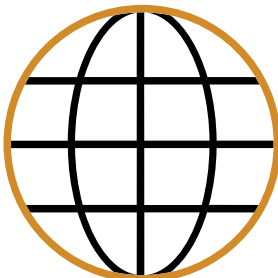
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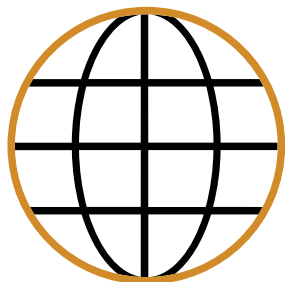
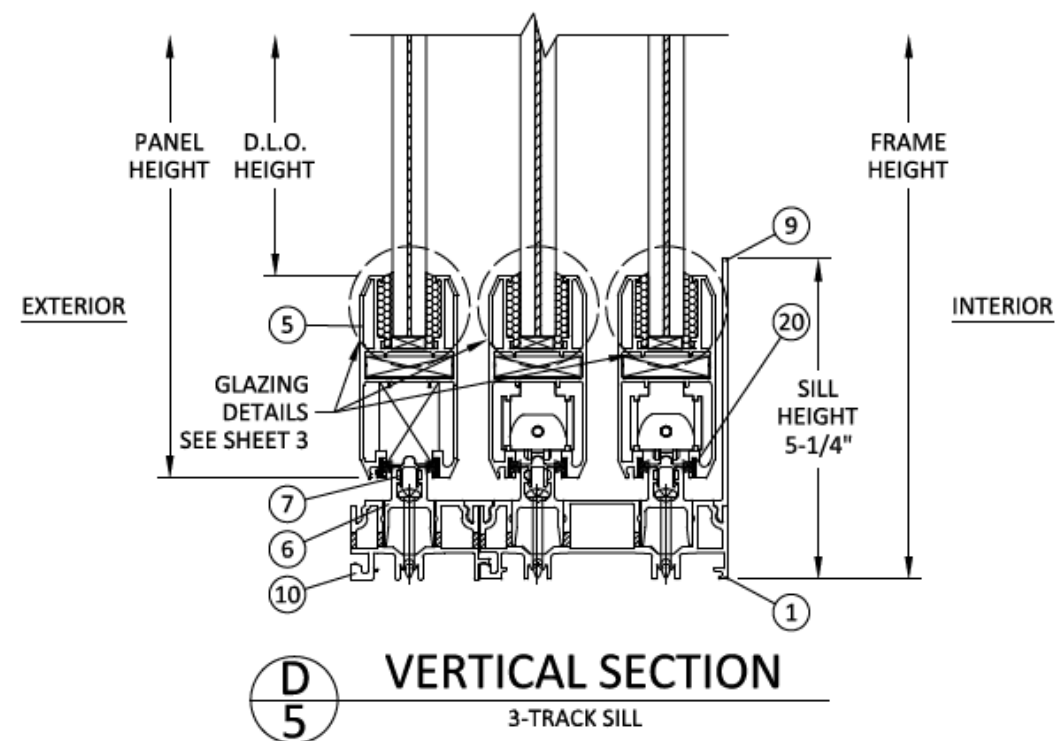
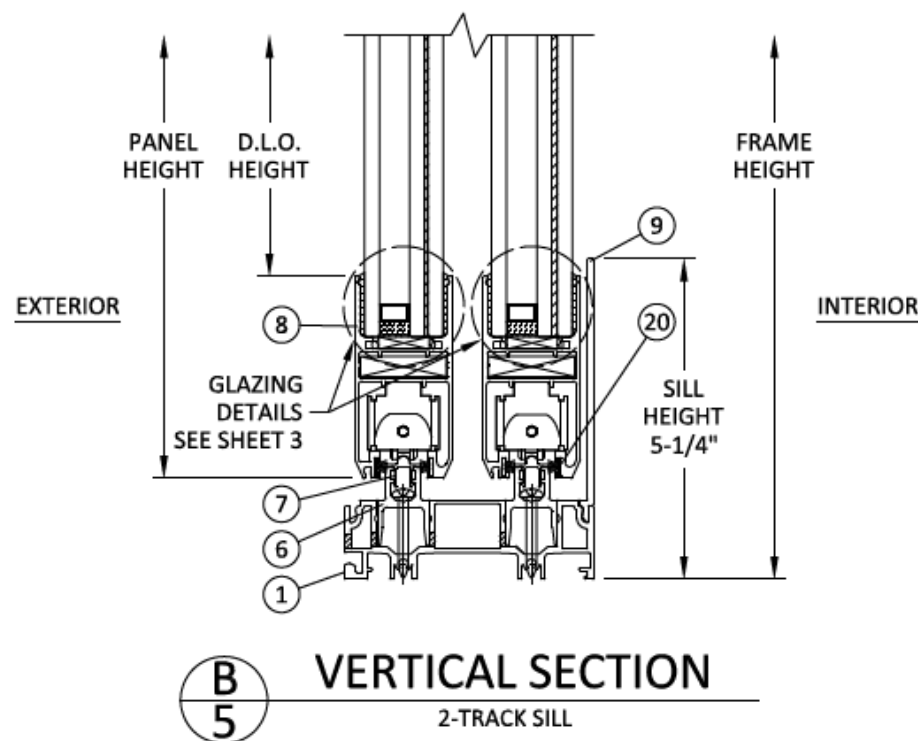
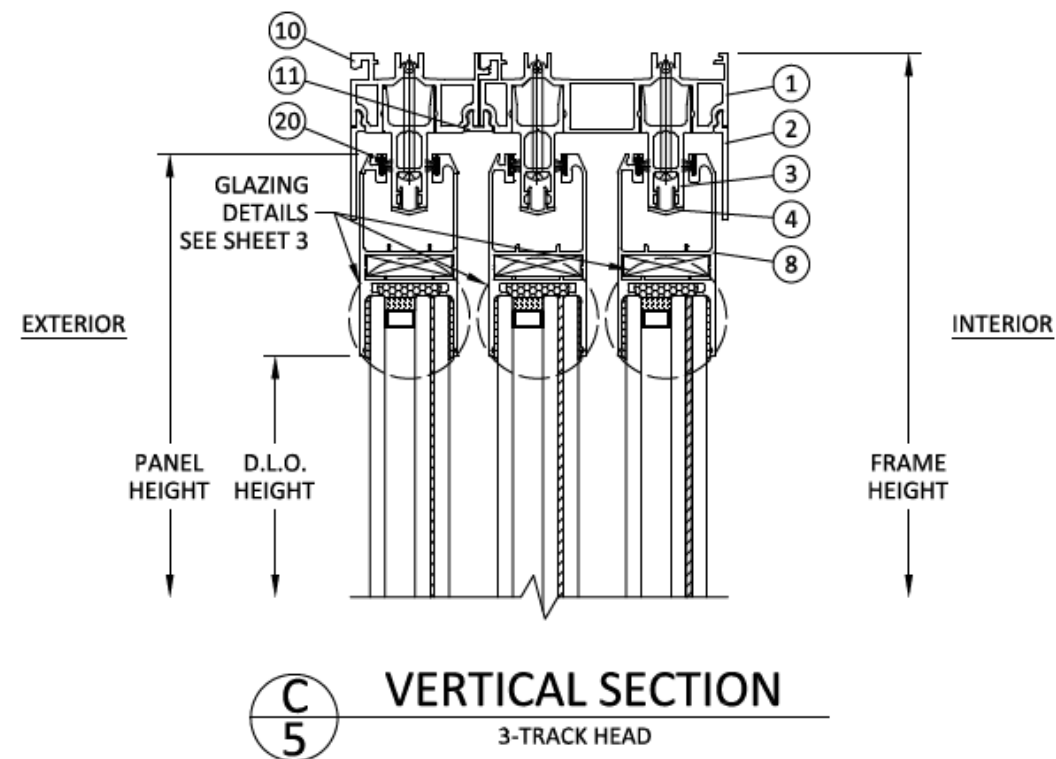
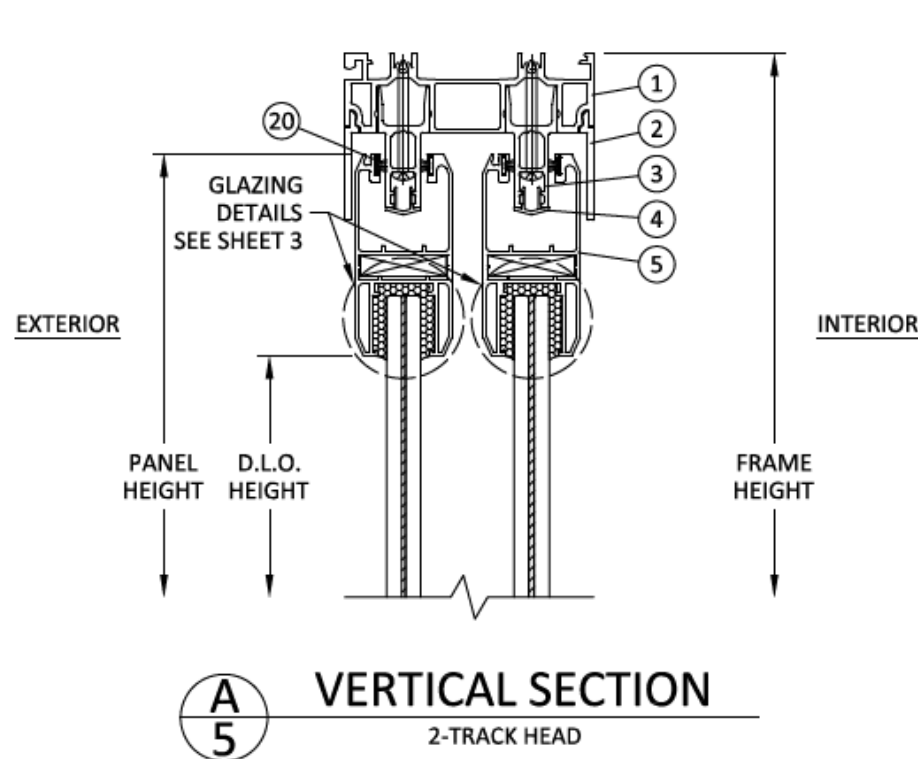
4-TRACK:



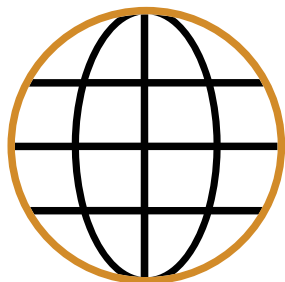
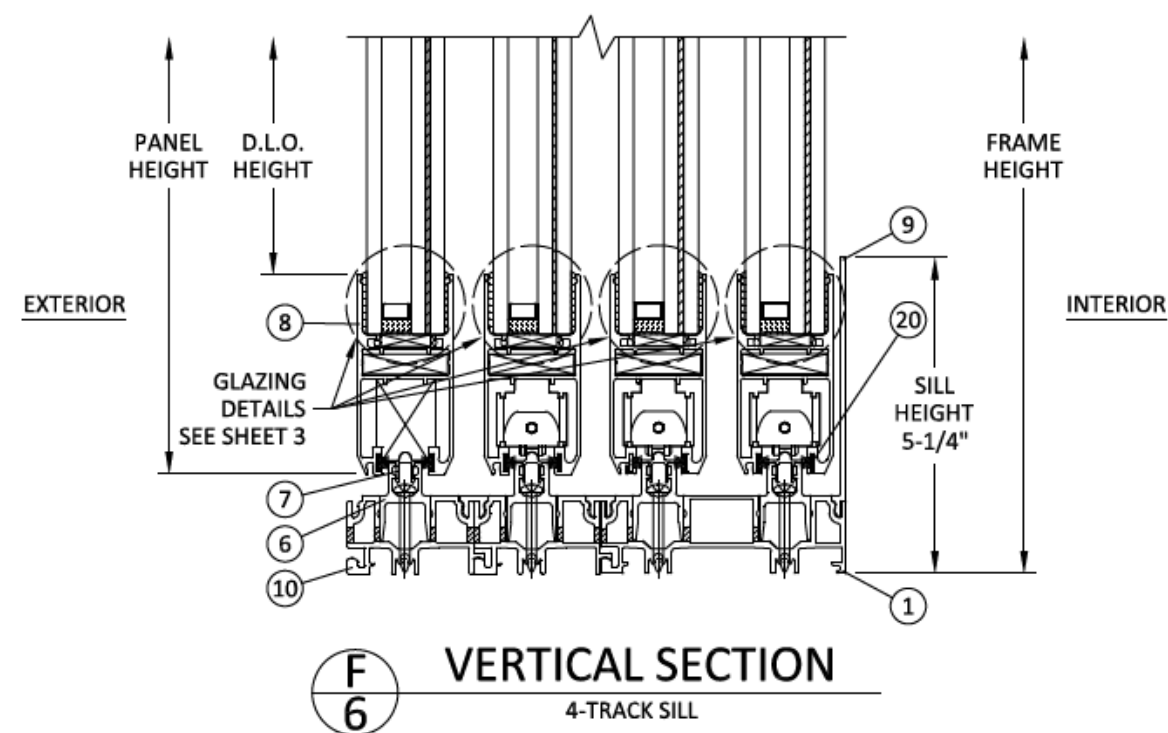
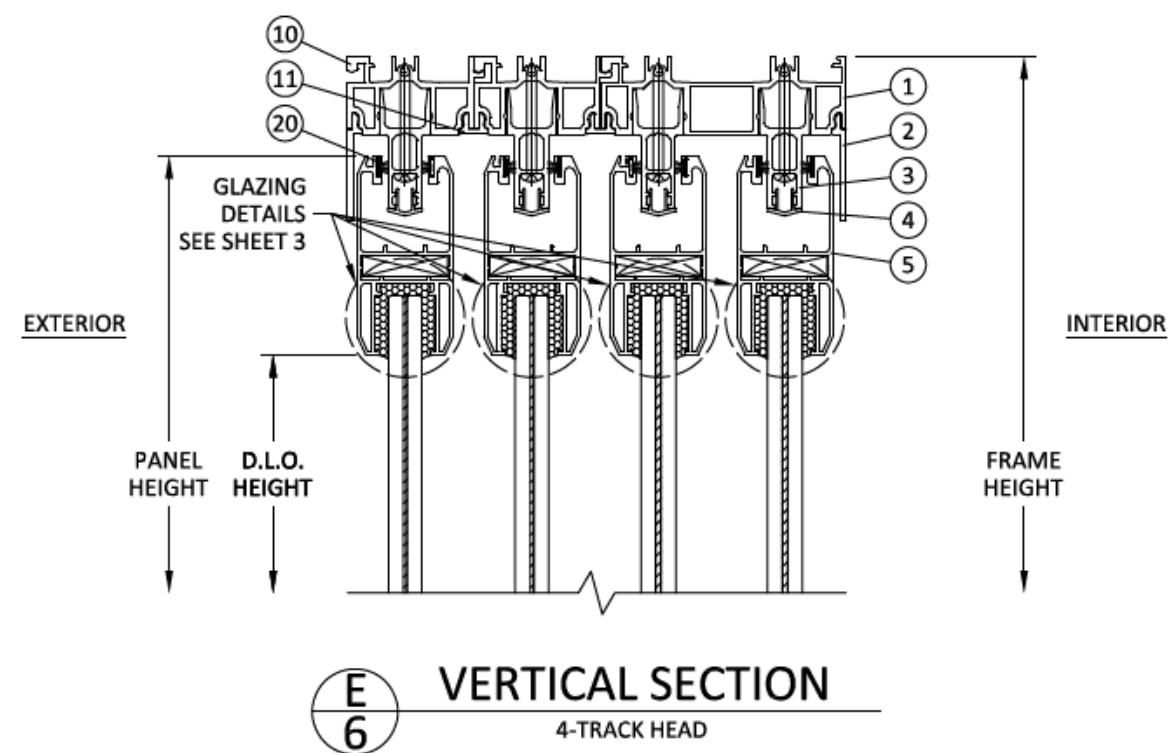
NOTE:
QUALIFIED CONFIGURATIONS MAY BE MIRRORED.



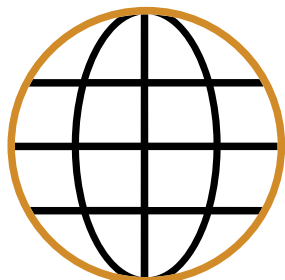
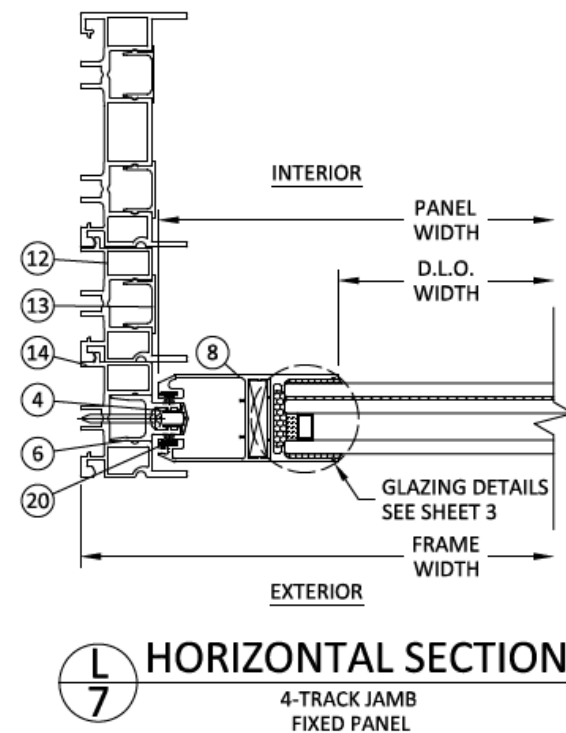
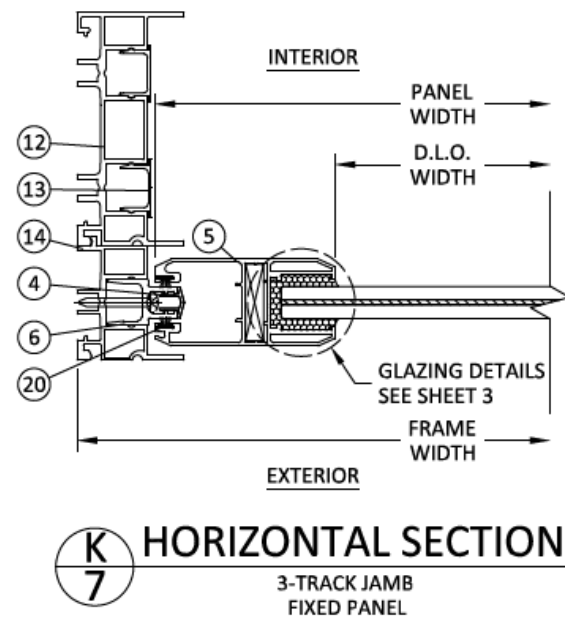
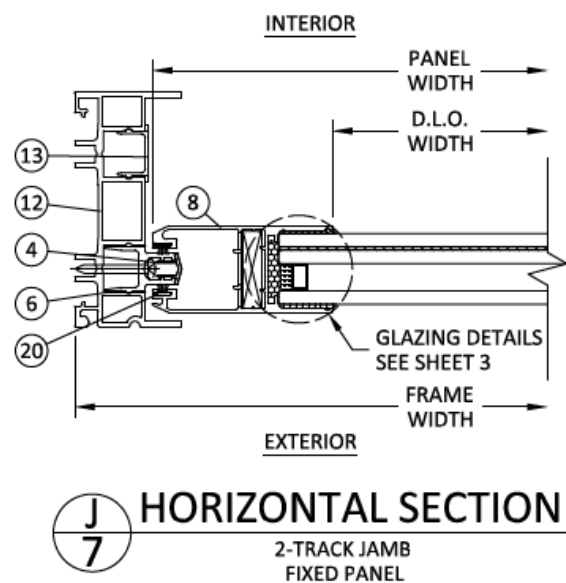
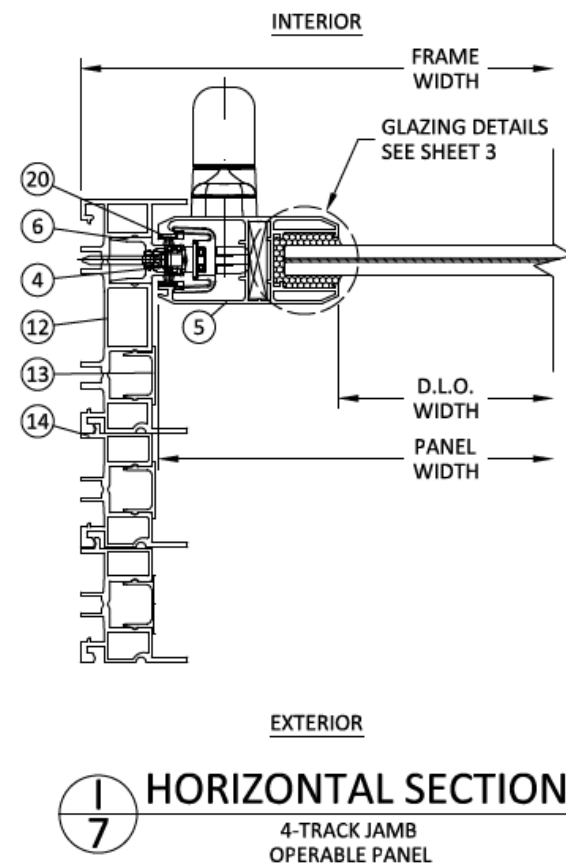
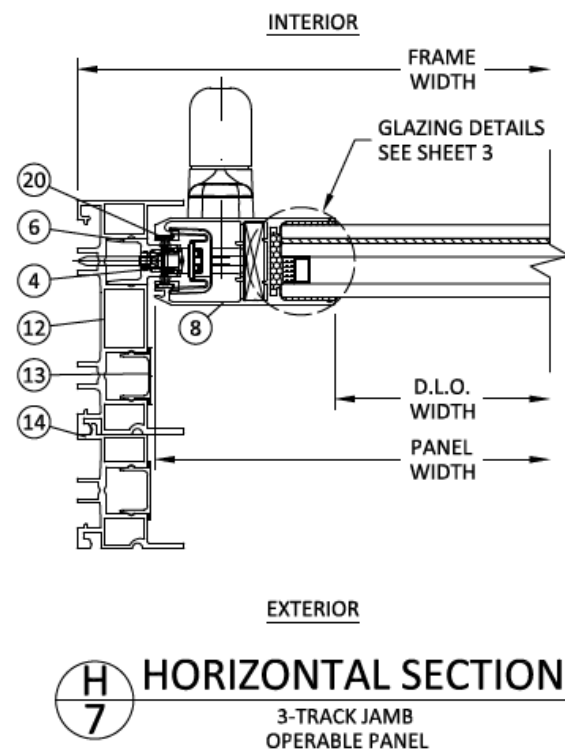
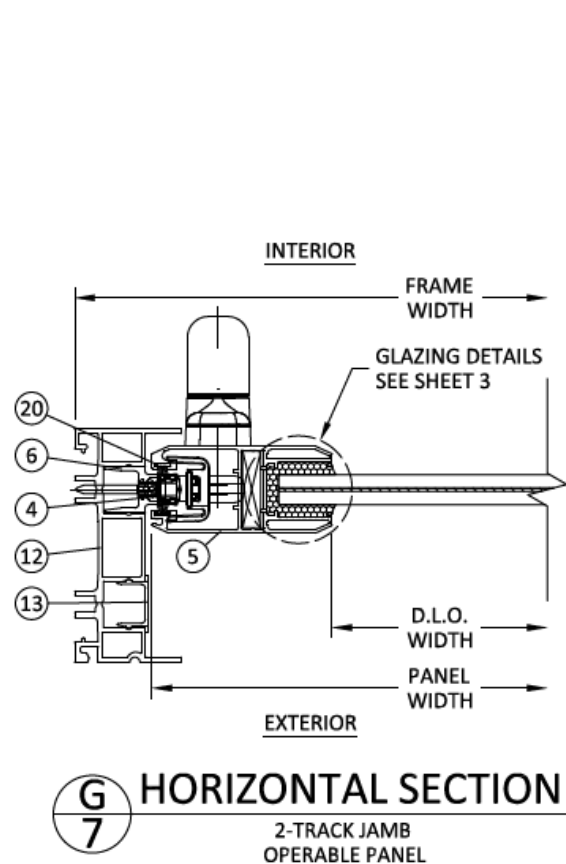
Series 6000 - Glass Sliding Door (SS) Installation Manual



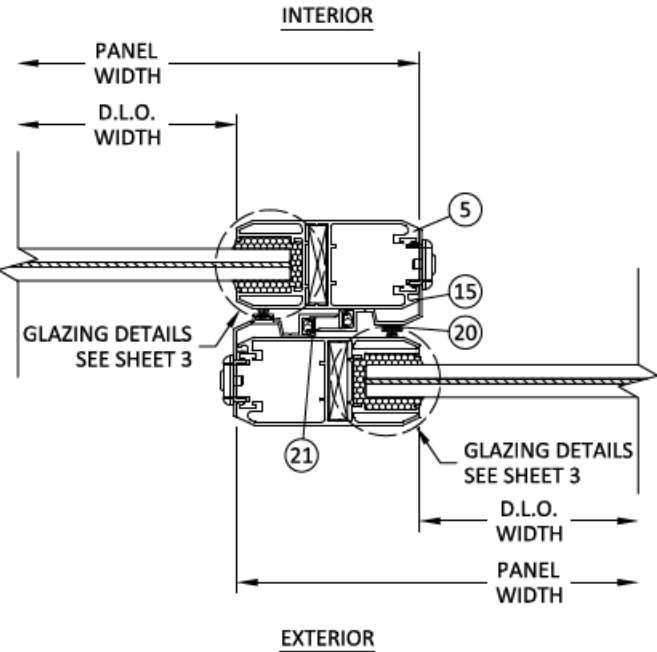
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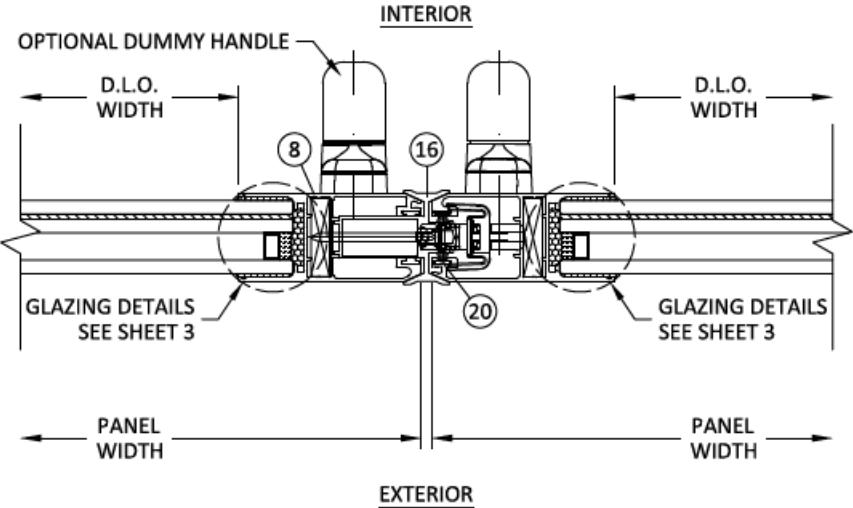
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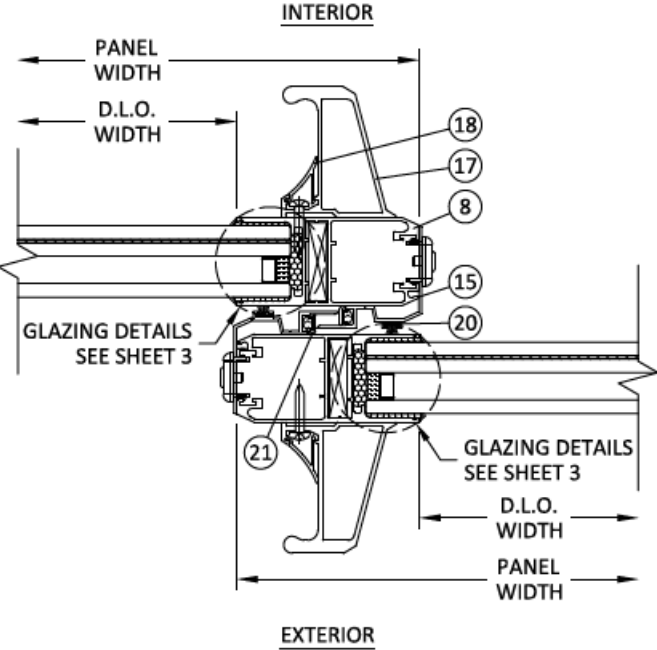
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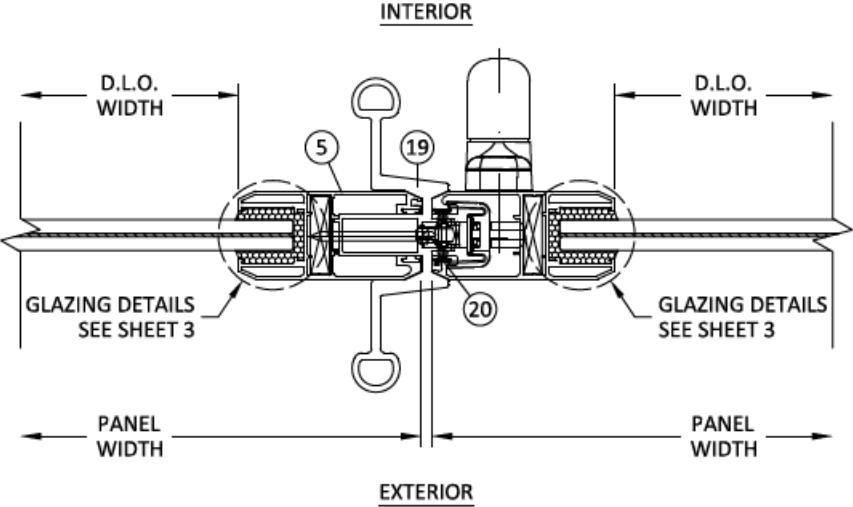
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8
HORIZONTAL SECTION
INTERLOCK



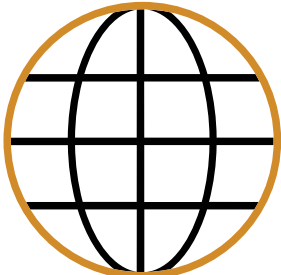
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8
HORIZONTAL SECTION
ASTRAGAL



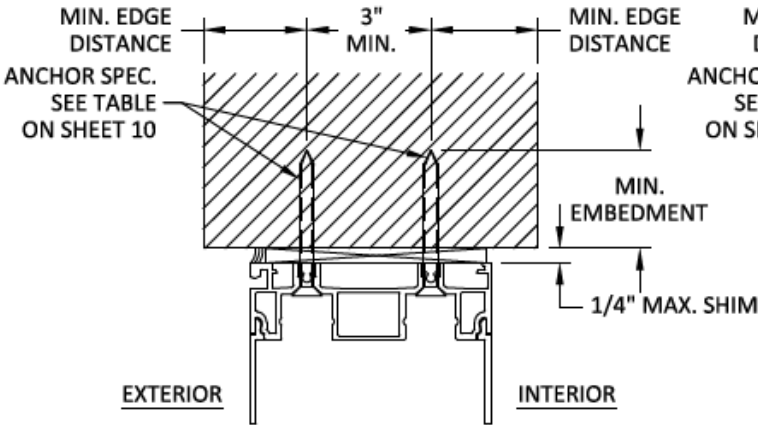
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8
HORIZONTAL SECTION
INTERLOCK
W/ REINFORCEMENT



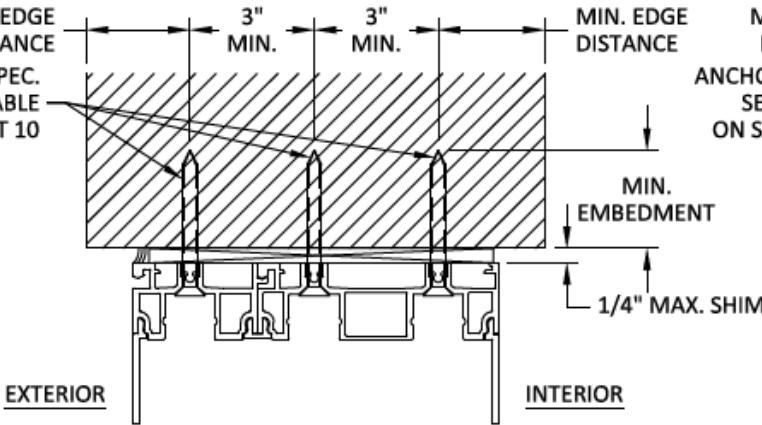
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8
HORIZONTAL SECTION
HD ASTRAGAL



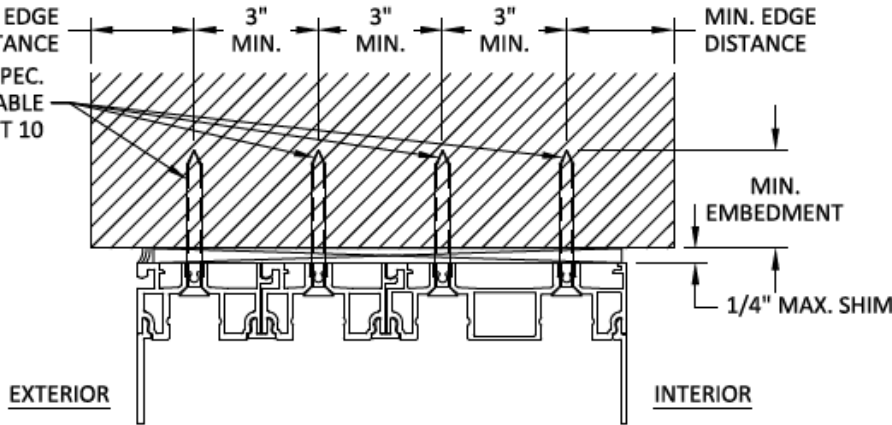
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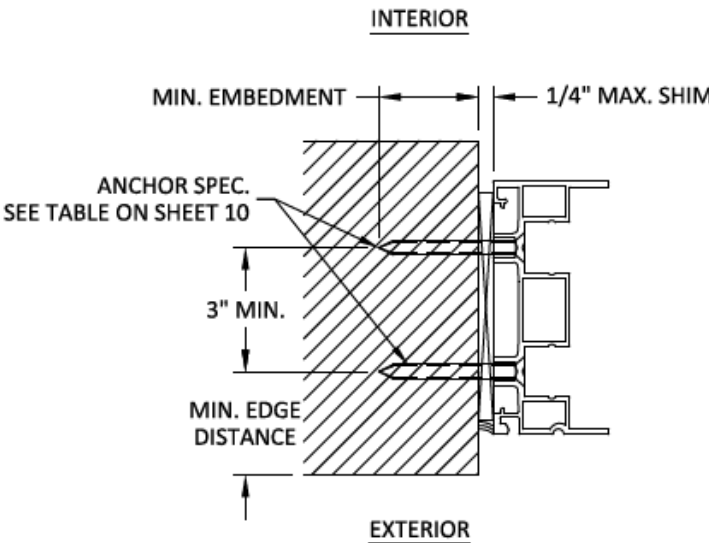
Q
9 **INSTALLATION DETAIL**
2-TRACK HEAD
HEAD SHOWN, SILL SIMILAR



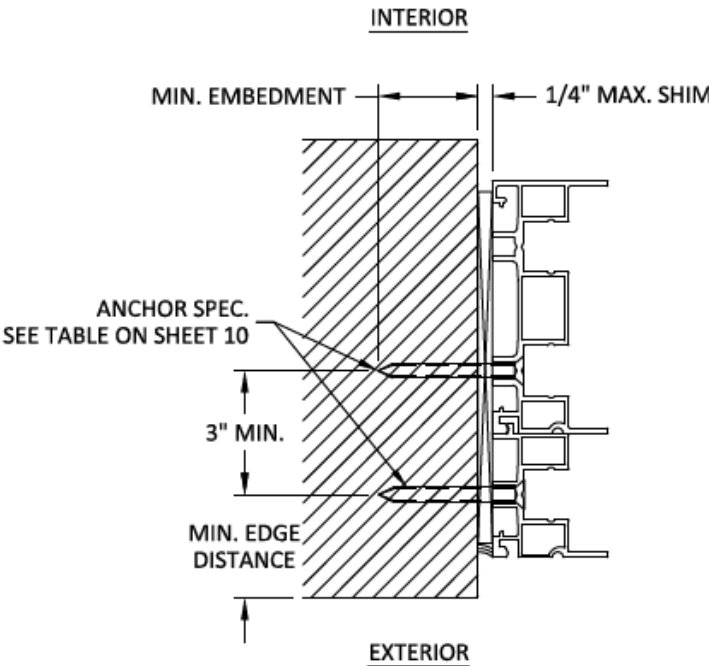
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9 **INSTALLATION DETAIL**
3-TRACK HEAD
HEAD SHOWN, SILL SIMILAR



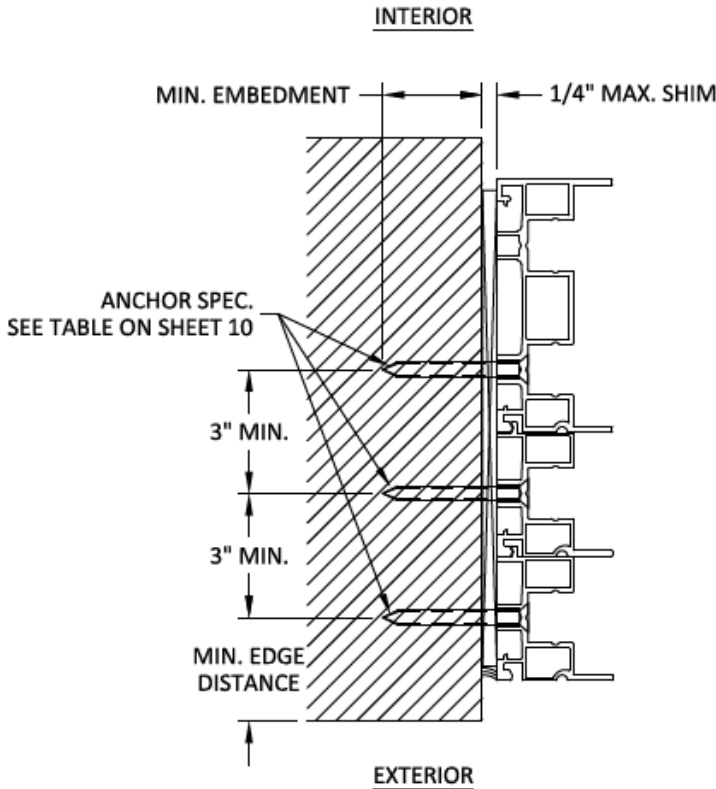
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9 **INSTALLATION DETAIL**
4-TRACK HEAD
HEAD SHOWN, SILL SIMILAR



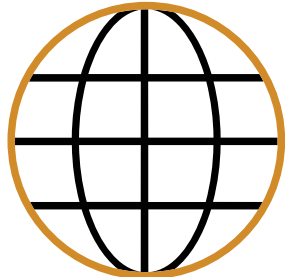
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9 **INSTALLATION DETAIL**
2-TRACK JAMB



U
9 **INSTALLATION DETAIL**
3-TRACK JAMB



V
9 **INSTALLATION DETAIL**
4-TRACK JAMB



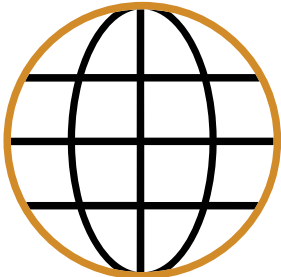
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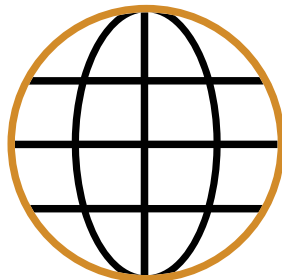
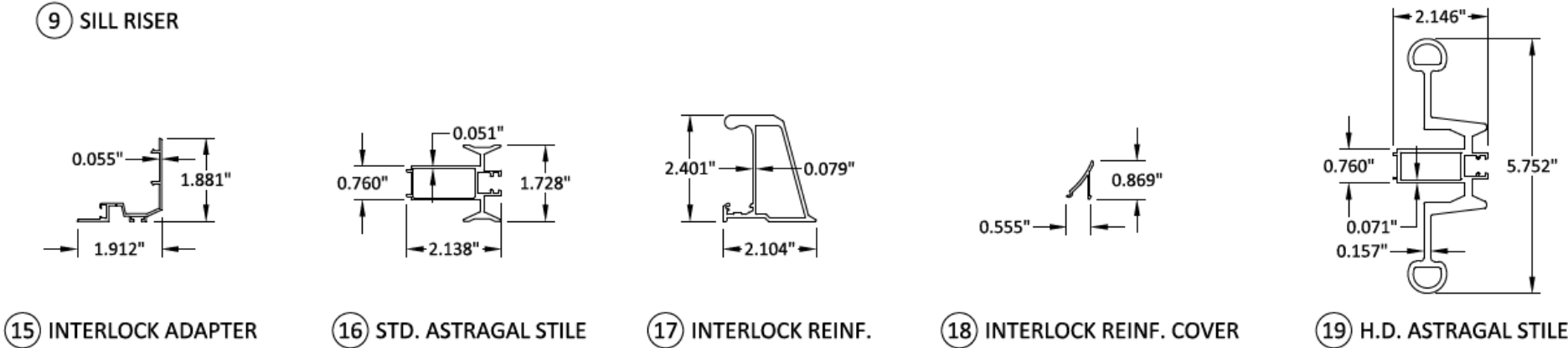
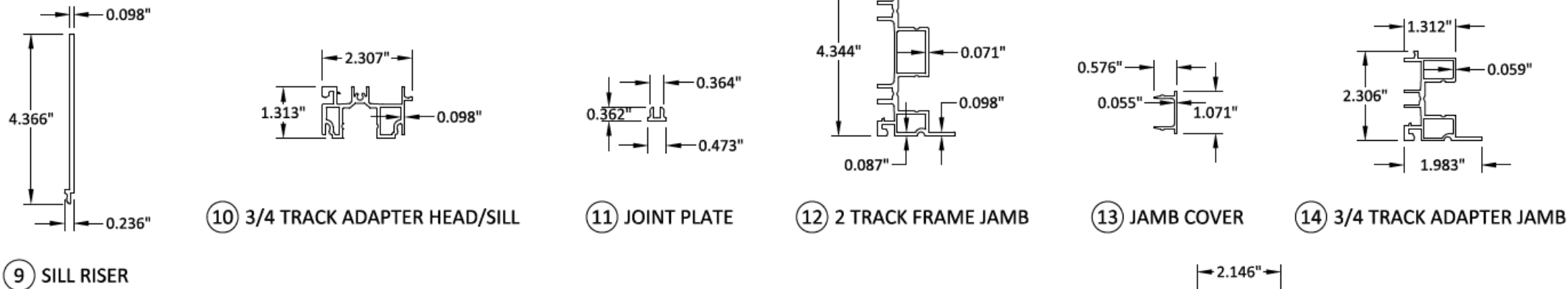
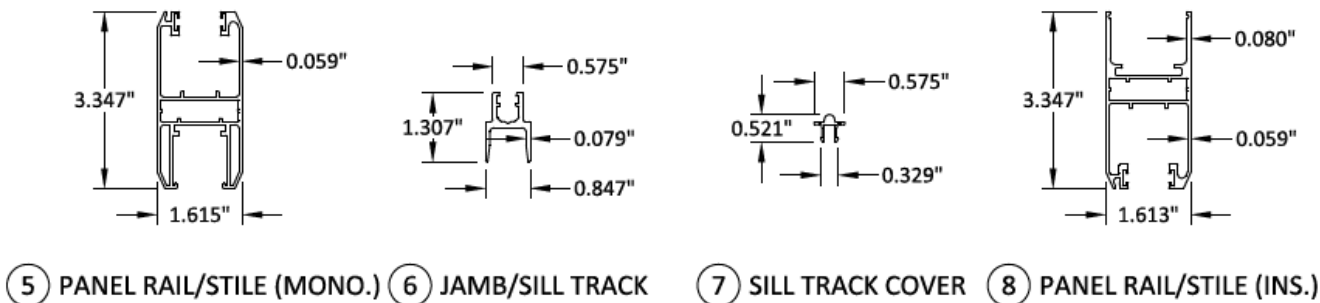
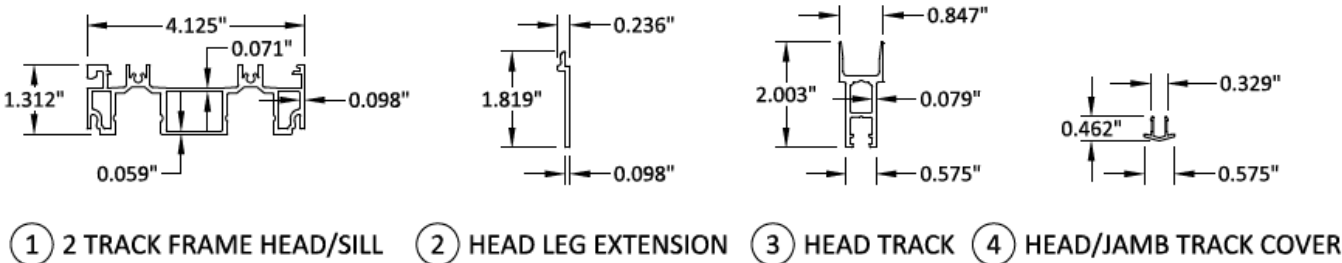
- 1. SEE DETAILS ON SHEETS 2 & 9 FOR THE QUANTITY OF INSTALLATION ANCHOR THAT IS REQUIRED AT EACH ANCHOR LOCATION.
- 2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- 3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- 5. FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- 6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- 7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 8. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. S.G. = 0.55	#14 WOOD SCREW	1-1/2"	1"
	STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	1/4" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
	ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
	CONCRETE: MIN. f'c = 3000 psi	1/4" DEWALT ULTRACON+	1-3/4"	1-1/2"
	MASONRY: HOLLOW/GROUT-FILLED BLOCK per ASTM C90 MIN. 2000 PSI		1-1/4"	2"

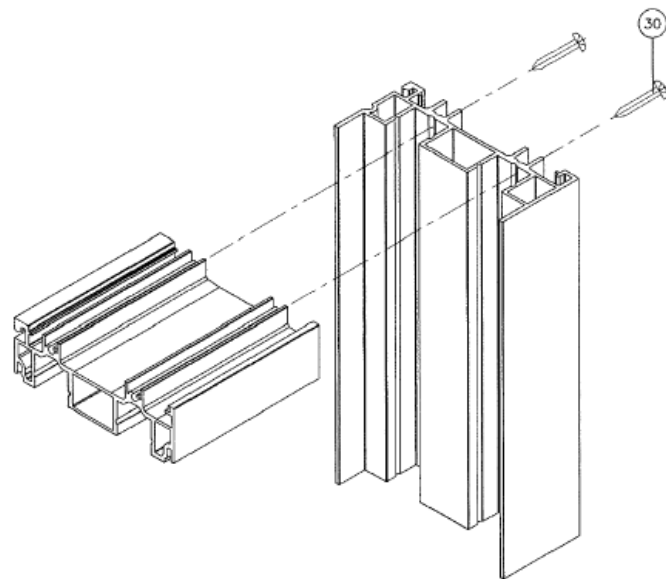


Series 6000 - Glass Sliding Door (SS) Installation Manual

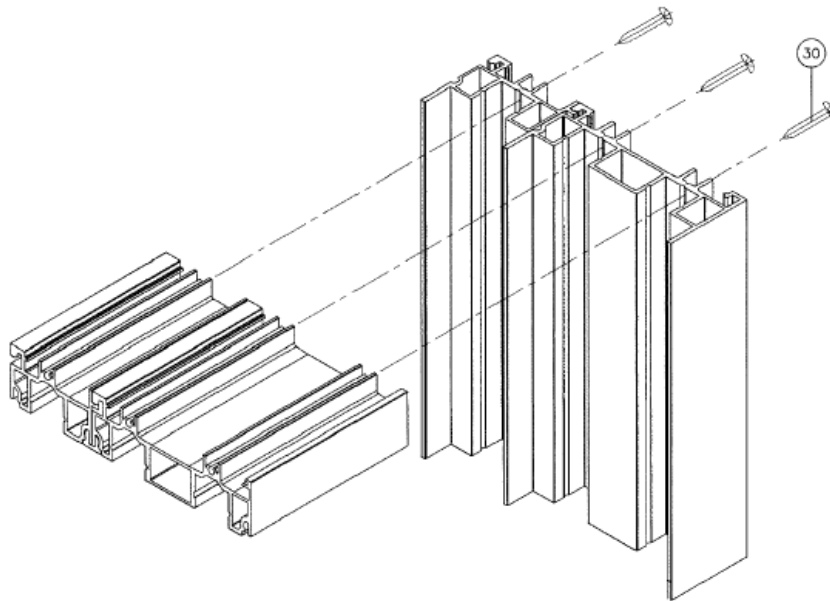
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	2 TRACK FRAME HEAD/SILL	ALUMINUM 6063-T6
2	HEAD LEG EXTENSION	ALUMINUM 6063-T5
3	HEAD TRACK	ALUMINUM 6063-T5
4	HEAD/JAMB TRACK COVER	ALUMINUM 6063-T5
5	PANEL RAIL/STILE (MONOLITHIC GLASS)	ALUMINUM 6063-T5
6	JAMB/SILL TRACK	ALUMINUM 6063-T5
7	SILL TRACK COVER	ALUMINUM 6063-T5
8	PANEL RAIL/STILE (INSULATING GLASS)	ALUMINUM 6063-T5
9	SILL RISER	ALUMINUM 6063-T5
10	3/4 TRACK ADAPTER HEAD/SILL	ALUMINUM 6063-T6
11	JOINT PLATE	ALUMINUM 6063-T6
12	2 TRACK FRAME JAMB	ALUMINUM 6063-T6
13	JAMB COVER	ALUMINUM 6063-T5
14	3/4 TRACK ADAPTER JAMB	ALUMINUM 6063-T6
15	INTERLOCK ADAPTER	ALUMINUM 6063-T5
16	STANDARD ASTRAGAL STILE	ALUMINUM 6063-T5
17	INTERLOCK REINFORCEMENT	ALUMINUM 6063-T5
18	INTERLOCK REINFORCEMENT COVER	ALUMINUM 6063-T5
19	H.D. ASTRAGAL STILE	ALUMINUM 6063-T5
20	FIN SEAL WEATHERSTRIPPING	WOOL
21	LEAF WEATHERSTRIPPING	VINYL
22	CORNER KEY	-
30	#10 X 1" FRAME ASSEMBLY SCREW	STAINLESS STEEL



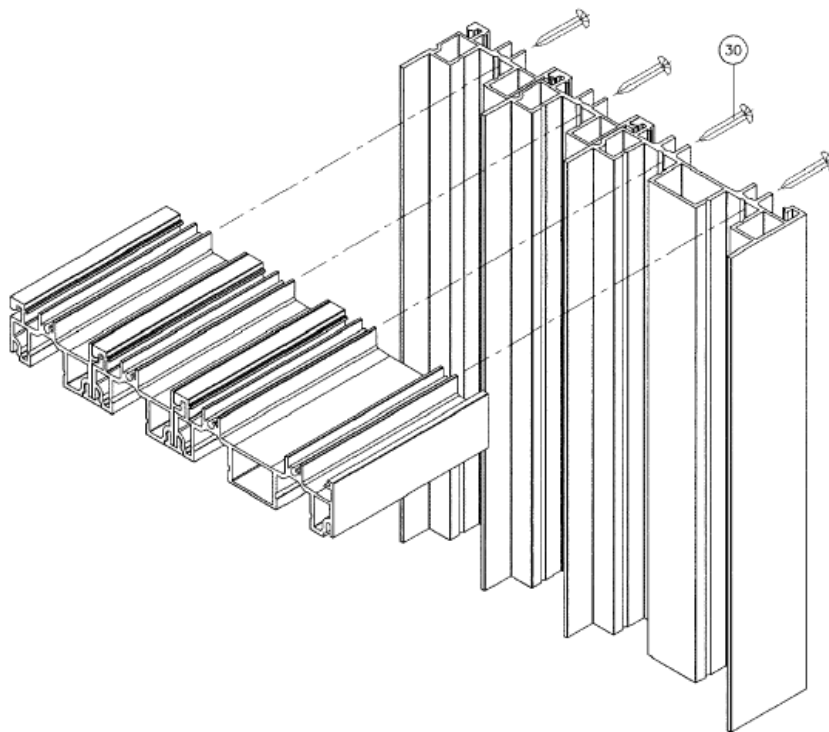
Series 6000 - Glass Sliding Door (SS) Installation Manual



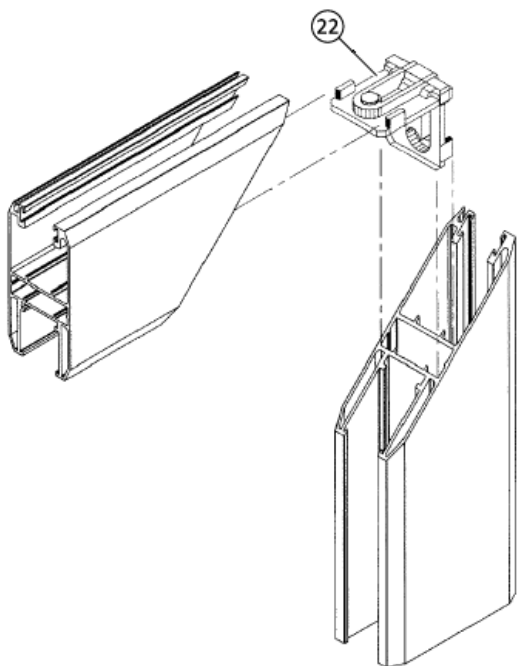
FRAME CORNER DETAIL
2 TRACK FRAME



FRAME CORNER DETAIL
3 TRACK FRAME



FRAME CORNER DETAIL
4 TRACK FRAME



PANEL CORNER DETAIL

