Series 6500 - Glass Sliding Door Installation Manual

GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS

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GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS

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.

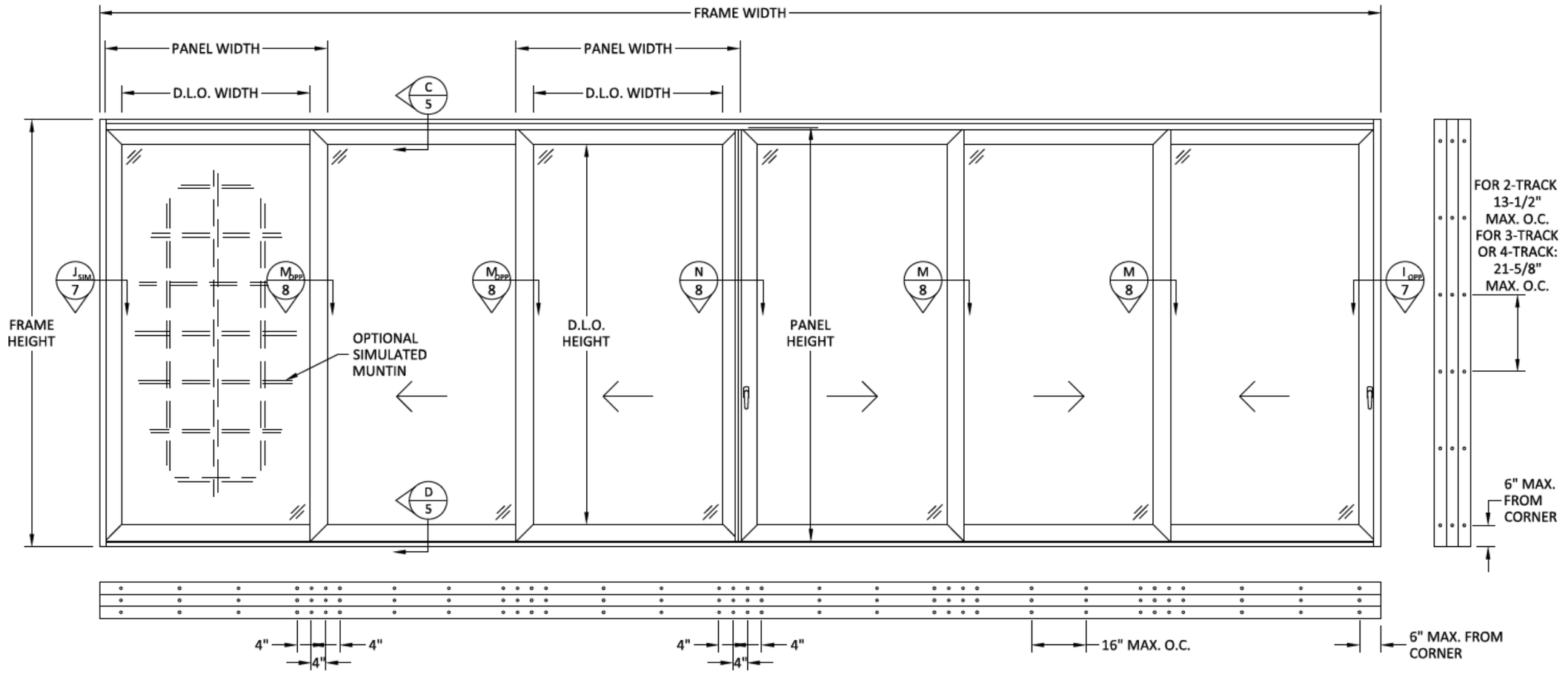
7. PROFILE MATERIAL: ALUMINUM 6063-T5/6063-T6.

8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.

TABLE OF CONTENTS

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

GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



TYPICAL ELEVATION & ANCHOR LAYOUT

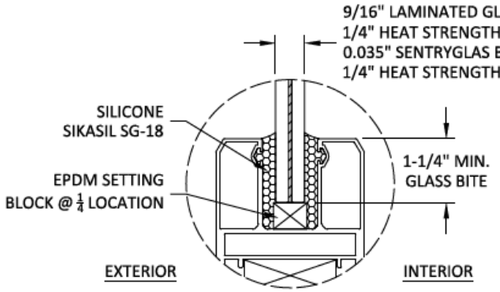
6-PANEL, 3-TRACK SHOWN

NOTES:
1. ALTERNATE SIZES AND PRESSURES SEE SHEET 3.
2. ALTERNATE QUALIFIED CONFIGURATIONS SEE SHEET 4.
3. MAXIMUM FRAME AREA SHALL NOT EXCEED 400 SQ. FT^2.

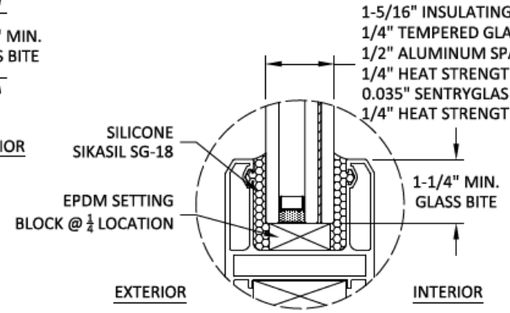
PANEL HEIGHT = FRAME HEIGHT - 3.66"
D.L.O. HEIGHT = PANEL HEIGHT - 9.491"
D.L.O. WIDTH = PANEL WIDTH - 9.58"

Series 6500 - Glass Sliding Door Installation Manual

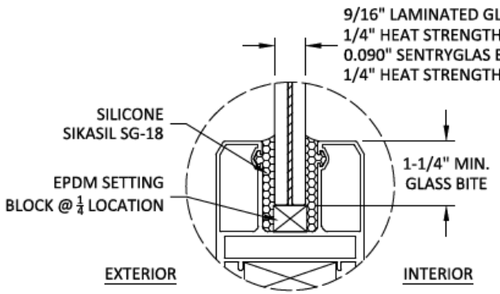
GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



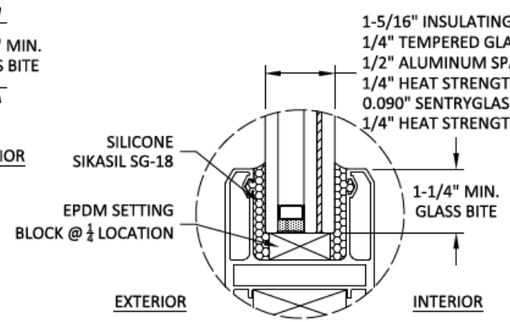
GLAZING DETAIL A
SMALL MISSILE IMPACT



GLAZING DETAIL B
SMALL MISSILE IMPACT



GLAZING DETAIL C
LARGE MISSILE IMPACT



GLAZING DETAIL D
LARGE MISSILE IMPACT

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.)	GLASS TYPE 'A', 'B', 'C', & 'D'	
		EXT. (+)	INT. (-)
30	82	140.0	140.0
36		140.0	140.0
42		140.0	140.0
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
66		127.3	111.8
72		116.7	102.5
78		107.7	94.6
84		102.4	90.0
30	84	140.0	140.0
36		140.0	140.0
42		140.0	140.0
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
66		127.3	111.8
72		116.7	102.5
78		107.7	94.6
84		100.0	87.9
30	90	140.0	140.0
36		140.0	140.0
42		140.0	140.0
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
66		127.3	111.8
72		116.7	102.5
78		107.7	94.6
80		105.0	92.3
30	96	140.0	140.0
36		140.0	140.0
42		140.0	140.0
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
66		127.3	111.8
72		116.7	102.5
75		112.0	98.4

DESIGN PRESSURE TABLE (PSF)

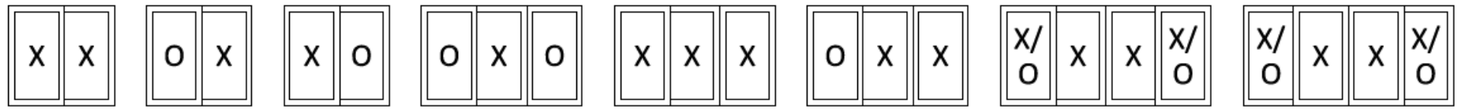
AVERAGE PANEL WIDTH (IN.)*	DOOR FRAME HEIGHT (IN.)	GLASS TYPE 'A', 'B', 'C', & 'D'	
		EXT. (+)	INT. (-)
30	102	140.0	140.0
36		140.0	140.0
42		140.0	140.0
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
66		127.3	111.8
70		120.0	105.4
30	108	140.0	140.0
36		140.0	140.0
42		140.0	139.6
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
66		127.3	111.8
30	114	140.0	140.0
36		140.0	140.0
42		140.0	137.9
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0
63		133.3	117.1
30	120	140.0	140.0
36		140.0	140.0
42		140.0	136.3
48		140.0	123.0
54		140.0	123.0
60		140.0	123.0

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

GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS

QUALIFIED CONFIGURATIONS

2-TRACK:



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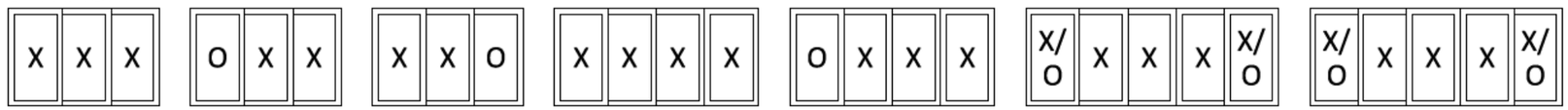

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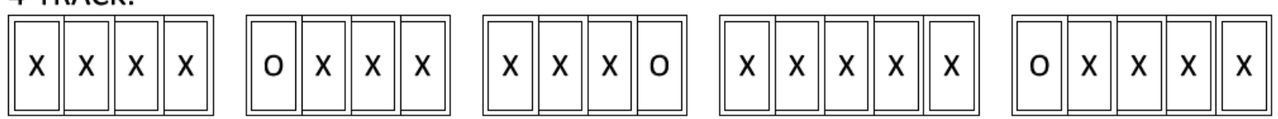
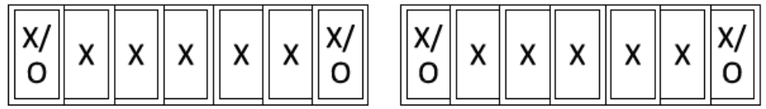
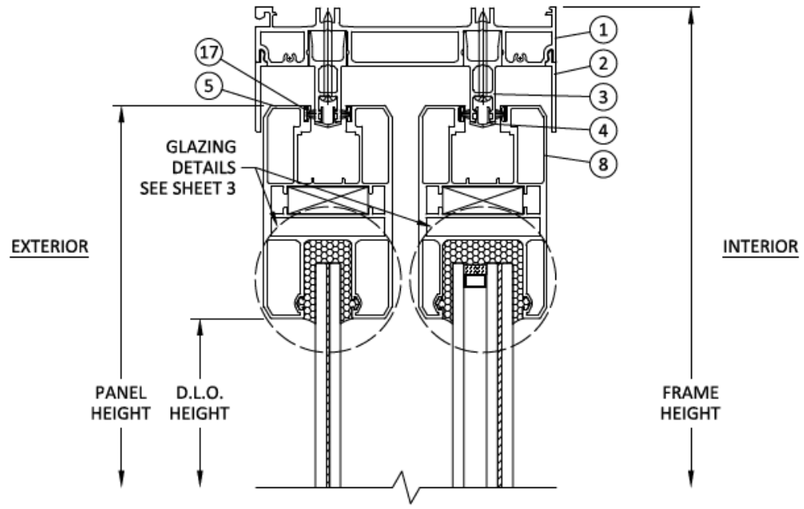


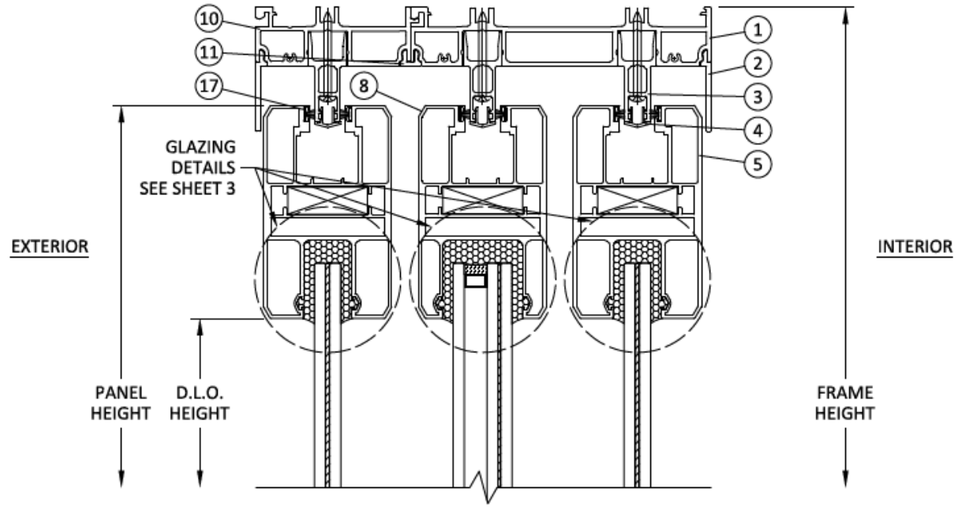


NOTE:
QUALIFIED CONFIGURATIONS MAY BE MIRRORED.

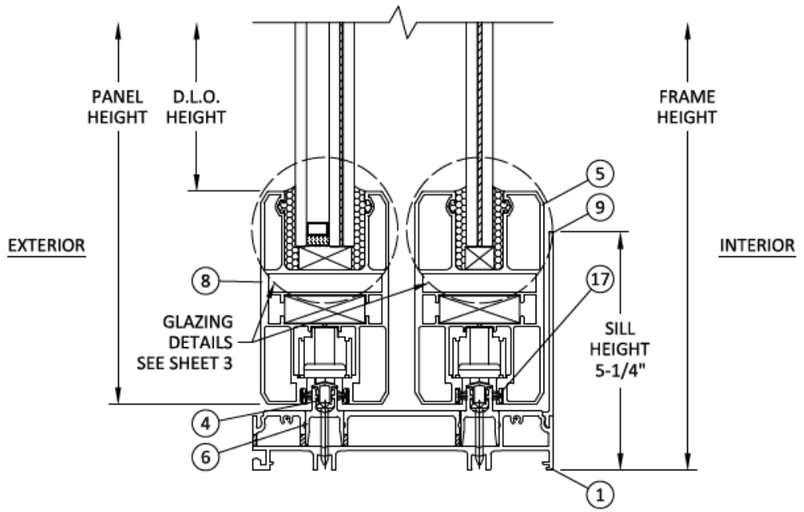
GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



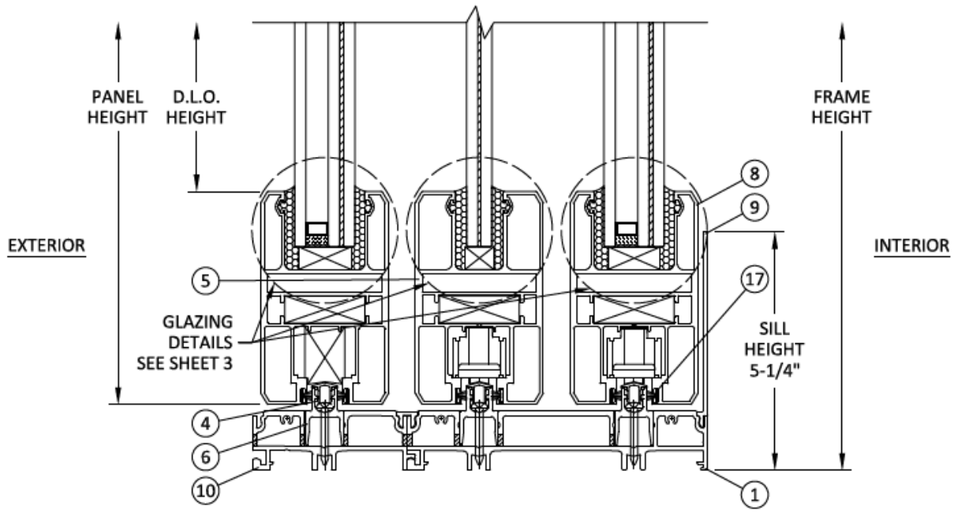
A/5 VERTICAL SECTION
2-TRACK HEAD



C/5 VERTICAL SECTION
3-TRACK HEAD

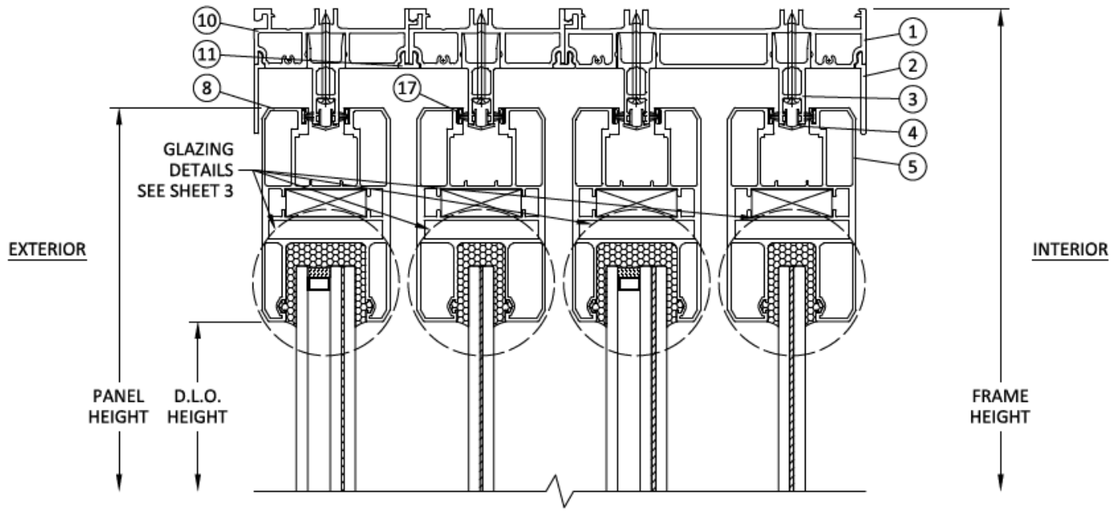


B/5 VERTICAL SECTION
2-TRACK SILL

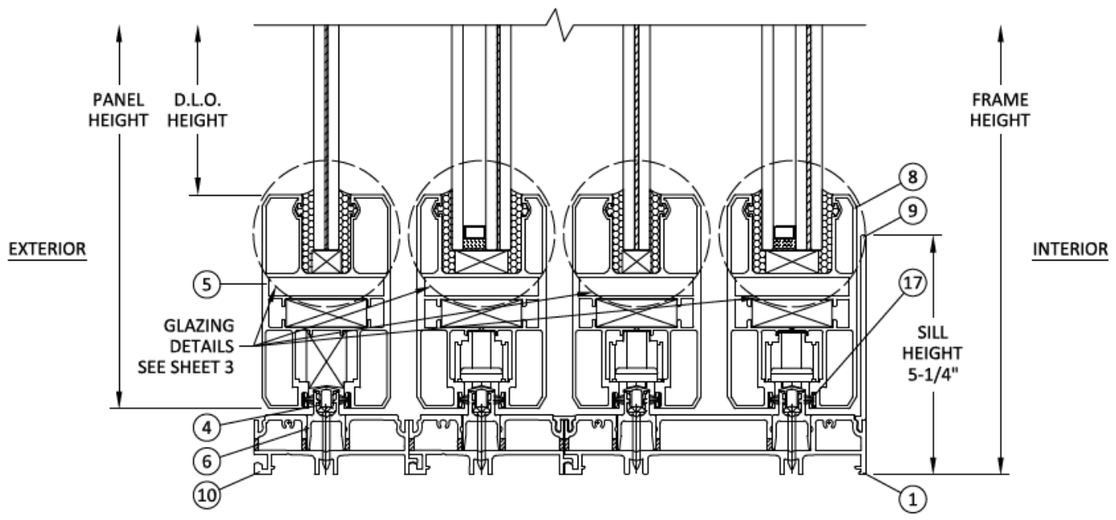


D/5 VERTICAL SECTION
3-TRACK SILL

GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS

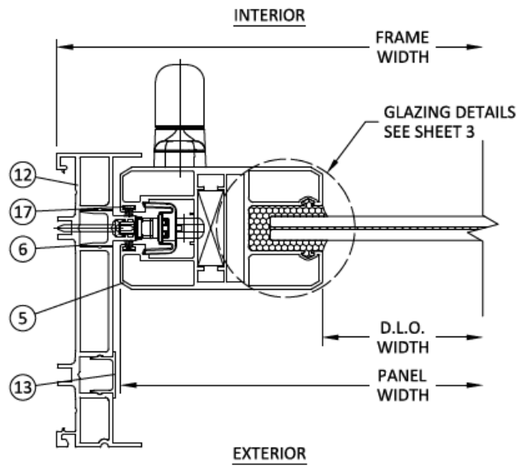


E/6 VERTICAL SECTION
4-TRACK HEAD

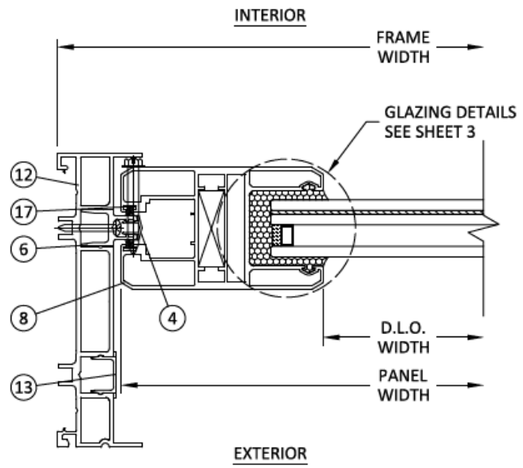


F/6 VERTICAL SECTION
4-TRACK SILL

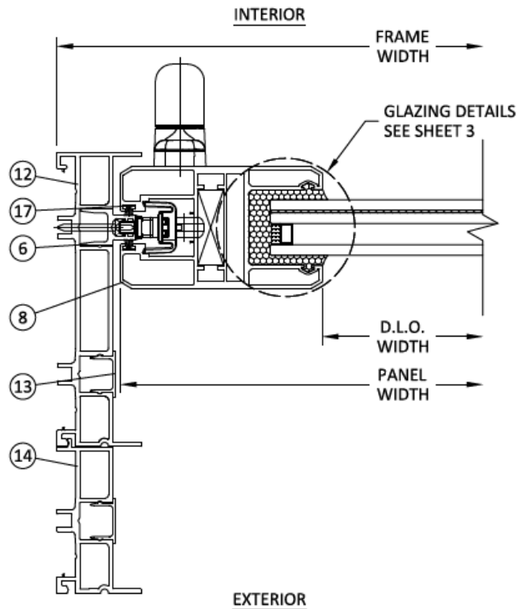
GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



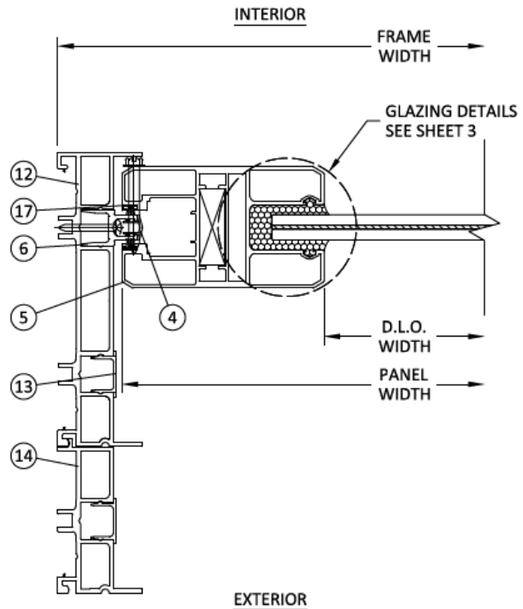
G/7 HORIZONTAL SECTION
2-TRACK JAMB
OPERABLE PANEL



H/7 HORIZONTAL SECTION
2-TRACK JAMB
FIXED PANEL



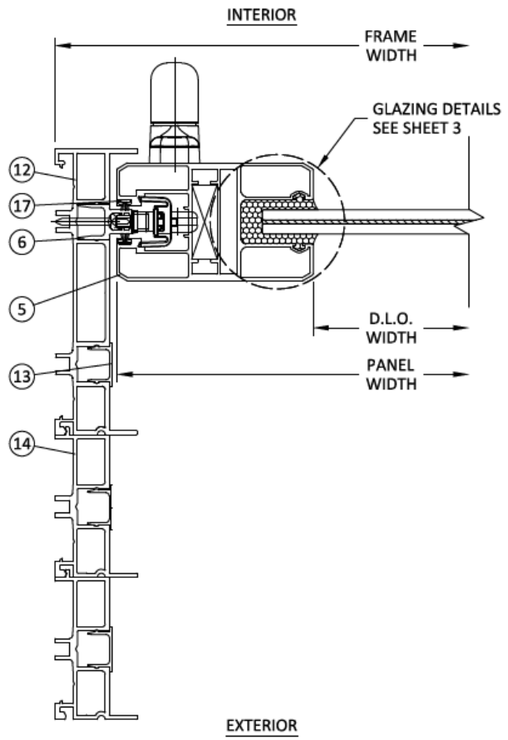
I/7 HORIZONTAL SECTION
3-TRACK JAMB
OPERABLE PANEL



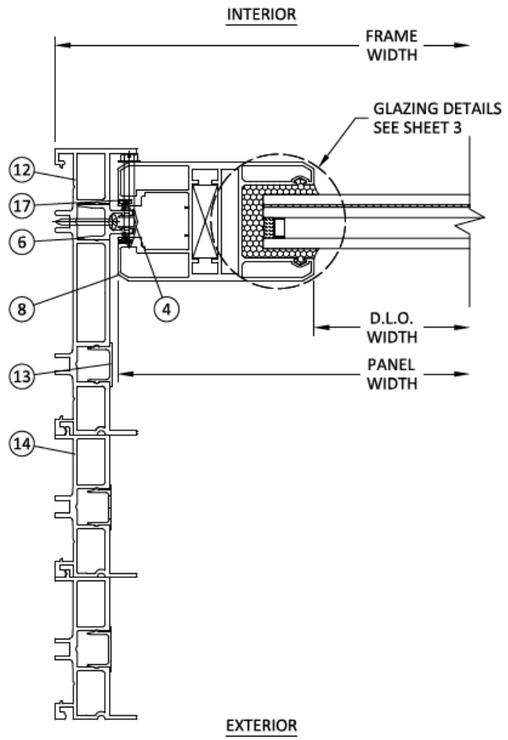
J/7 HORIZONTAL SECTION
3-TRACK JAMB
FIXED PANEL

Series 6500 - Glass Sliding Door Installation Manual

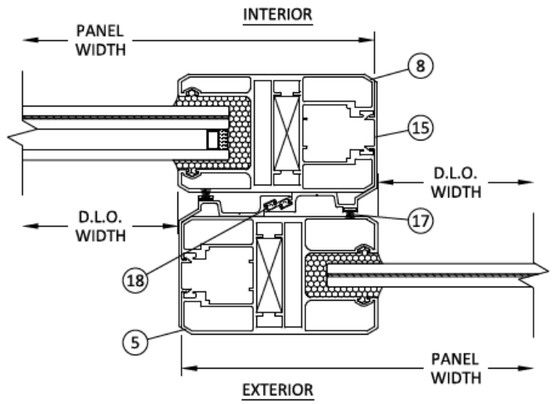
GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



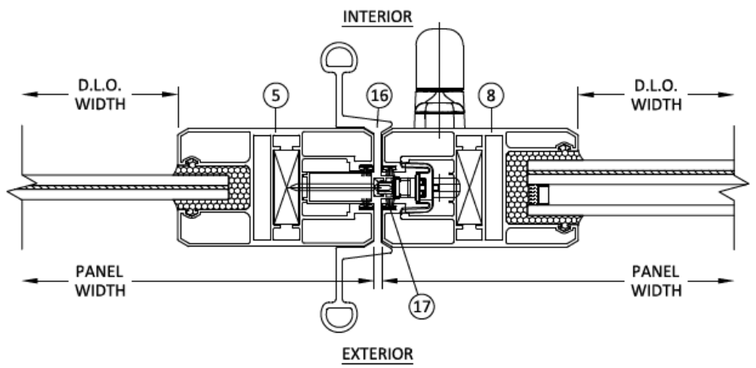
K/8 HORIZONTAL SECTION
4-TRACK JAMB
OPERABLE PANEL



L/8 HORIZONTAL SECTION
4-TRACK JAMB
FIXED PANEL



M/8 HORIZONTAL SECTION
INTERLOCK



N/8 HORIZONTAL SECTION
ASTRAGAL

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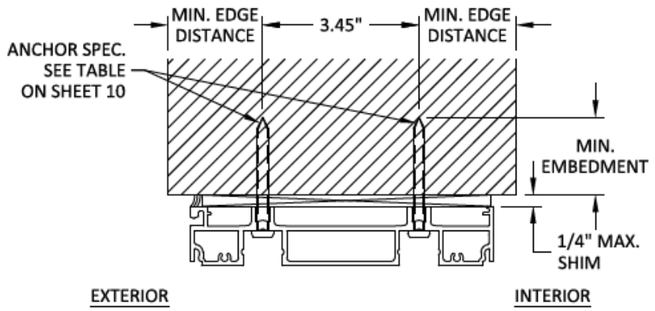
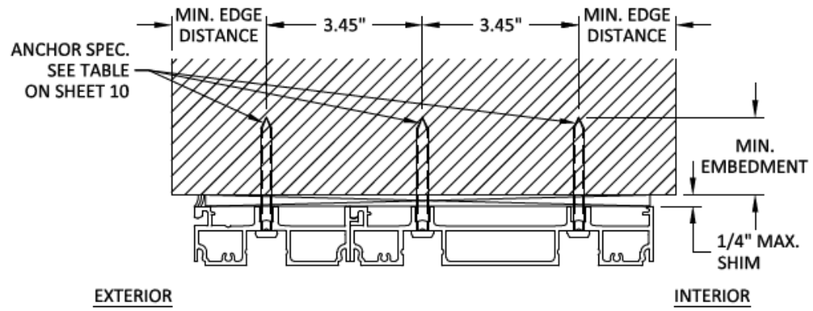
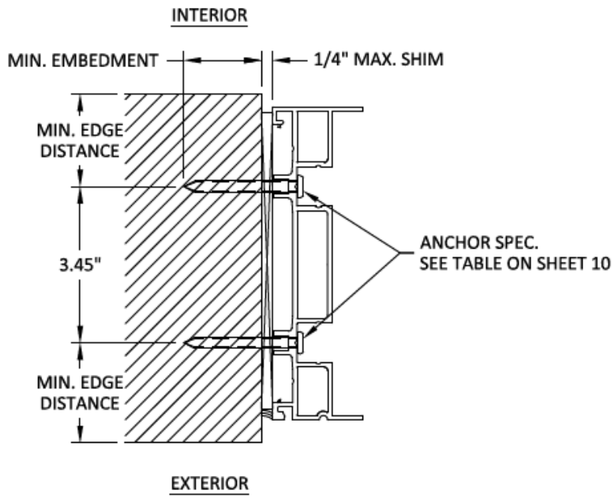
MANUFACTURER WINDOWS & DOORS



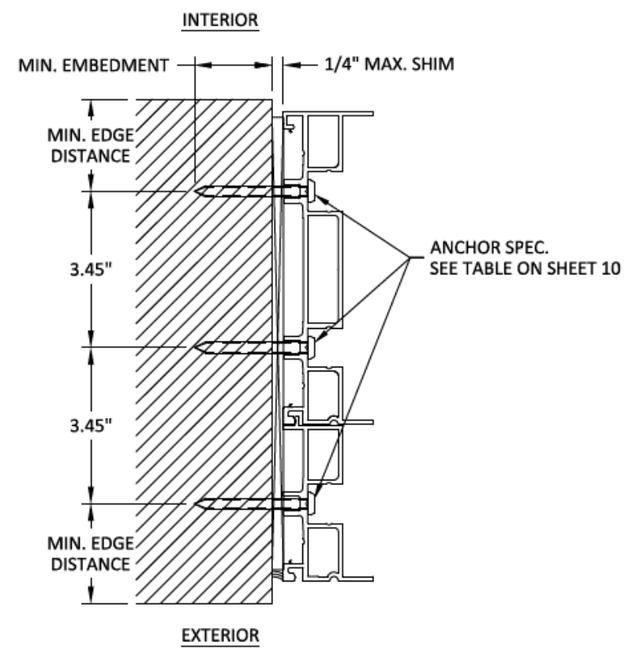
O/9 INSTALLATION DETAIL
2-TRACK HEAD
HEAD SHOWN, SILL SIMILAR



P/9 INSTALLATION DETAIL
3-TRACK HEAD
HEAD SHOWN, SILL SIMILAR



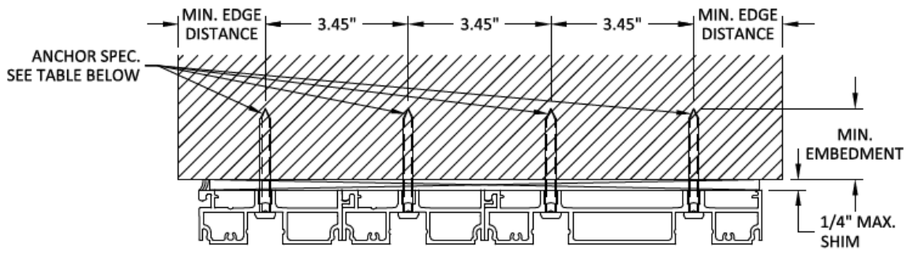
Q/9 INSTALLATION DETAIL
2-TRACK JAMB



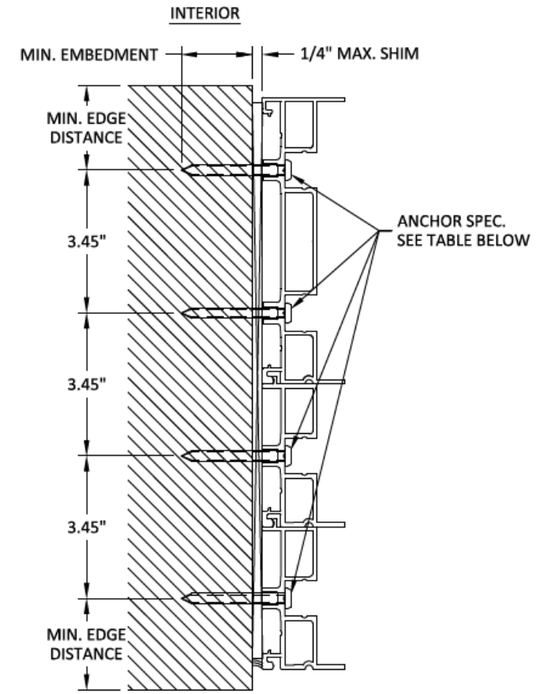
R/9 INSTALLATION DETAIL
3-TRACK JAMB

Series 6500 - Glass Sliding Door Installation Manual

GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



S/10 INSTALLATION DETAIL
4-TRACK HEAD
HEAD SHOWN, SILL SIMILAR



T/10 INSTALLATION DETAIL
4-TRACK JAMB

INSTALLATION NOTES:

1. SEE DETAILS ON SHEETS 2, 9 & 10 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.

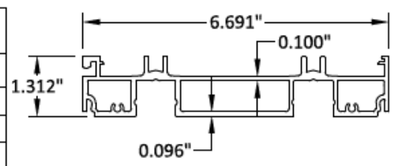
ANCHOR SCHEDULE

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"	1-3/4"
	MASONRY: HOLLOW/GROUT-FILLED BLOCK per ASTM C90 MIN. 2000 PSI		1-1/4"	2"

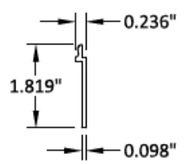
Series 6500 - Glass Sliding Door Installation Manual

GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS

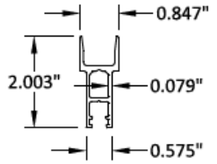
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	2 TRACK FRAME HEAD/SILL	ALUMINUM 6063-T6
2	HEAD LEG EXTENSION	ALUMINUM 6063-T5
3	HEAD TRACK	ALUMINUM 6063-T5
4	HEAD/JAMB TRACK COVER	ALUMINUM 6063-T5
5	PANEL RAIL/STILE (MONOLITHIC GLASS)	ALUMINUM 6063-T5
6	JAMB/SILL TRACK	ALUMINUM 6063-T5
7	-	-
8	PANEL 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	ASTRAGAL STILE	ALUMINUM 6063-T5
17	FIN SEAL WEATHERSTRIPPING	WOOL
18	LEAF WEATHERSTRIPPING	VINYL
19	CORNER KEY	-
30	#10 X 1" FRAME ASSEMBLY SCREW	STAINLESS STEEL



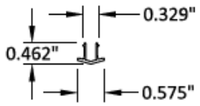
(1) 2 TRACK FRAME HEAD/SILL



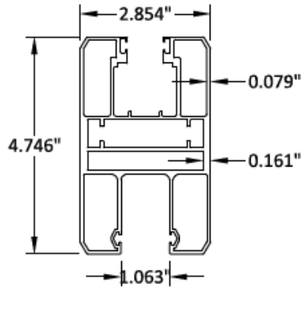
(2) HEAD LEG EXTENSION



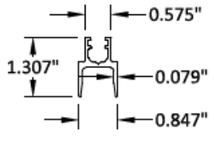
(3) HEAD TRACK



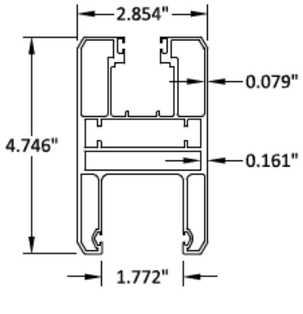
(4) H/J/S TRACK COVER



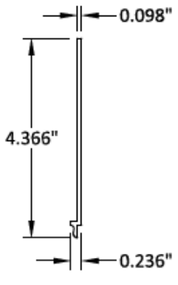
(5) PANEL RAIL/STILE (MONO.)



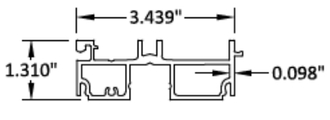
(6) JAMB/SILL TRACK



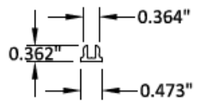
(8) PANEL RAIL/STILE (INS.)



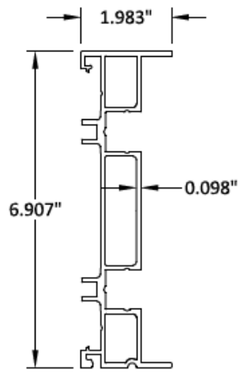
(9) SILL RISER



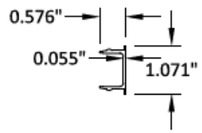
(10) 3/4 TRACK ADAPTER HEAD/SILL



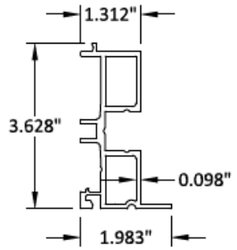
(11) JOINT PLATE



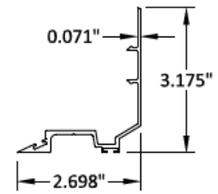
(12) 2 TRACK FRAME JAMB



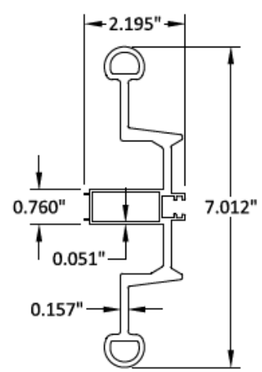
(13) JAMB COVER



(14) 3/4 TRACK ADAPTER JAMB

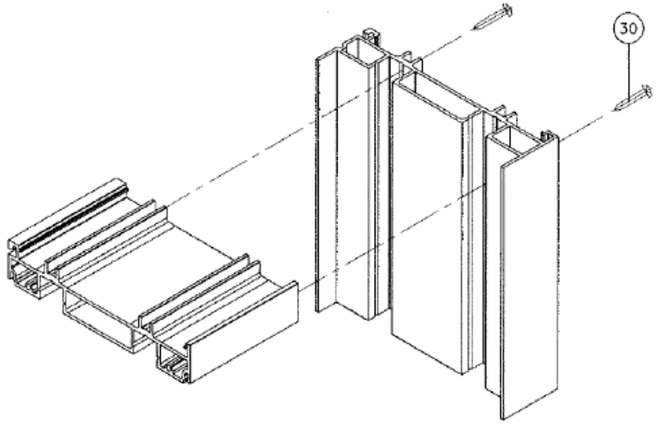


(15) INTERLOCK ADAPTER

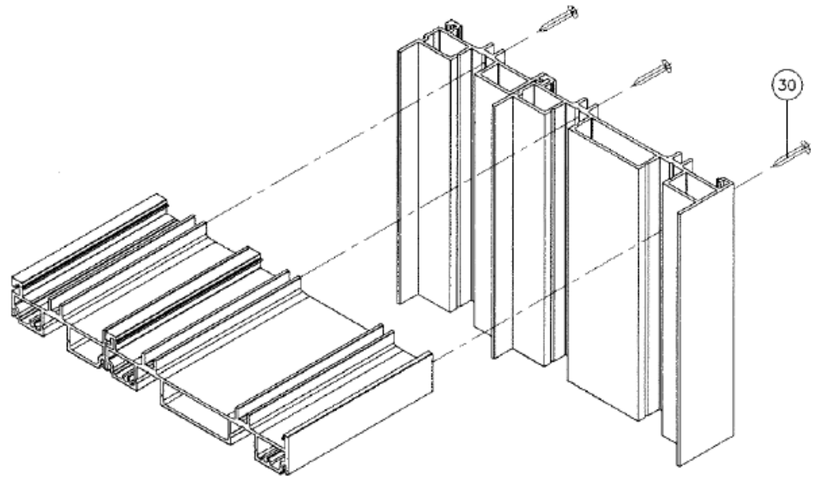


(16) ASTRAGAL STILE

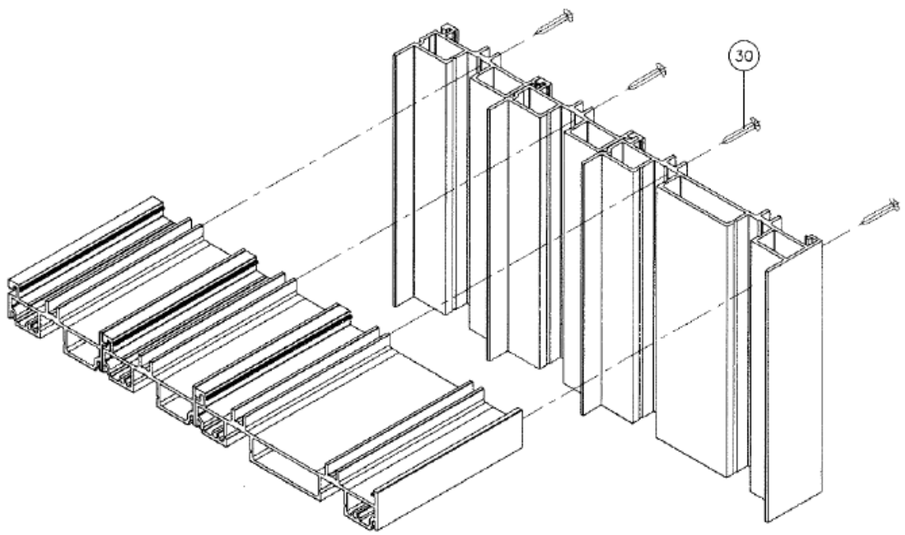
GLOBAL IMPACT PRODUCTS
MANUFACTURER WINDOWS & DOORS



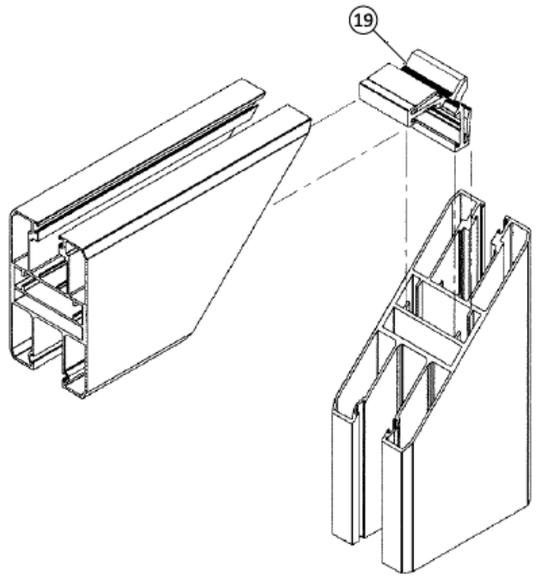
FRAME CORNER DETAIL
2 TRACK FRAME



FRAME CORNER DETAIL
3 TRACK FRAME



FRAME CORNER DETAIL
4 TRACK FRAME



PANEL CORNER DETAIL