Modern Sliding Door

Unit Features

Modern Abbreviations

Modern Sliding Door: MSD

*All Door units are shipped knocked-down (KD).

NOTE: Includes pre-drilled holes in frame for Through-Jamb Installation.

Frame:

- Frame is constructed of High Density Fiberglass with interior aluminum covers.
- Frame consists of jamb(s), head jamb.
- 2" Vinyl Nailing Fin.
- Frame thickness: 1 1/16" (27)
- Frame width: 6 9/16" (142)
- Interior finishes: Stone White, Ebony, Bronze, Gunmetal, Clear Anodized.
- Exterior finishes: Stone White, Ebony, Bronze, Gunmetal, Silver.

Sill:

- Sill material is Ultrex and is available in Bronze or Ebony.
- Sills include an exterior weep for water. Weeps must remain clear and free of obstruction.
- Aluminum sill liner is color matched to sill.

Panel:

- Stiles and rails are High Density Fiberglass with interior aluminum covers.
- 2 1/4" (56) thick-nominal with corner key fastened corners.
- Stiles and Top rail are 3 9/32" (83). Bottom rail is 3 25/32" (96). Meeting stiles are 2 7/8" (73).
- Aluminum glazing cap and cover is applied to interior with a weather strip that seats against the glass.
- Interior glazing profile: square sticking
- Interior finishes: Stone White, Ebony, Bronze, Gunmetal, Clear Anodized.
- Exterior finishes: Stone White, Ebony, Bronze, Gunmetal, Silver.

Hardware:

- Stainless Steel Multi-point lock with two engagement points is standard (non-keyed)
- Inactive panel - manual head bolt is standard
- Operating hardware options:
  - Keyed (keyed alike available)
- Pull and Latch Trim Set
  - Hardware color (painted): Matte Black, Matte Bronze, Stone White
  - Hardware color (anodized): Satin Nickel, Silver
  - Interior Active pull and latch: flush-mounted handle with thumb latch that engages the locking points of the panel.
  - Interior Inactive Pull: flush-mounted handle with recessed finger pull on inactive panel.
  - Exterior pull: flush-mounted handle with a recess to push/pull the primary active and inactive panels open or closed.
  - Keyed, non-keyed, or keyed alike..
- Rollers: two adjustable steel roller assemblies per operating panel with two ball bearing wheels per assembly
  - Maximum vertical adjustment of approximately 0.200" (5).

Weather Strip:

- All weather strip will be black.
  - All units are constructed with vinyl weather strip within the frame, panel and astragal. Weather Strip exposed to the exterior is UV resistant material.

Unit Features

Screens:

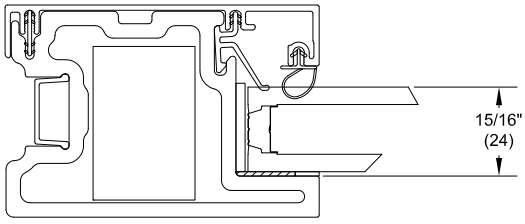
- Modern Sliding Screen: extruded aluminum top hung has a roller bar and integral handle
  - Screen surround will match exterior frame clad color
- Screen mesh: Marvin BrightView™
- Screens adjustable to 1/4" (6)

Lock Status Sensor (Optional):

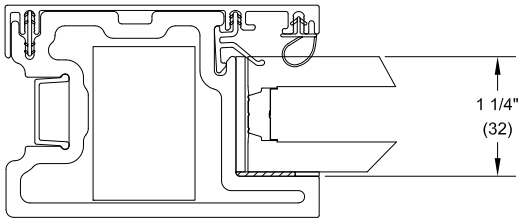
- Refer to **Lock Status Sensor Installation Instructions** for requirements.
- To achieve a closed and locked status, the Lock Status Sensor requires that the door must be closed to depress the anti-slam mechanism so that the door can be manually locked. It allows easy integration with home automation systems using a wireless connection.
- Lock Status Sensor are available wireless only.
  - Requires purchase of secondary transmitter for operation. Marvin will prep for this option. Wired connection not available.
- Wireless Lock Status Sensor is located within the operating panel.
- Sensor Location will always be integrated into the locking hardware system.

Glass and Glazing:

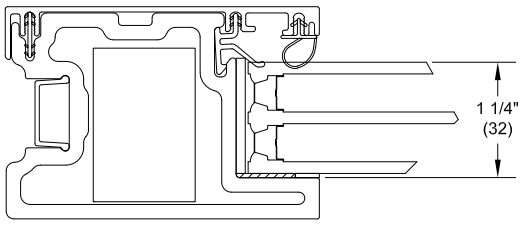
- All glass is of select quality complying with commercial industry standards. Glass is IGCC certified.
- Preserve film applied on interior and exterior panes.
- Glazing seal: Black silicone beading, exterior
- Dual-pane insulating glass thickness: 15/16" (23) or 1 1/4" (32).
- Triple-pane insulating glass thickness: 1 1/4" (32).
- Insulating Glass Coatings: Low E1, Low E2, Low E3, Low ERS, Low ELR
- Gas Fill: Air, Argon
- Other Glass Types: Gray or Bronze Tint, Obscure, Frost
- Glass panes are based on overall unit size and may be 3.1, 3.9, 4.7, 5.7 and 8.0 mm thicknesses
- Low ELR units to 5.7mm sizes and below
- Tint limited to 5.7mm pane thickness and 15/16" glass make-up.
- Frost is limited to 5.7mm and 3.9mm pane thicknesses
- Obscure (Pattern 62) glass is limited to 4.7mm pane thickness and below
- Black Stainless Steel Spacer Bar



15/16" (24) Insulating Glazing

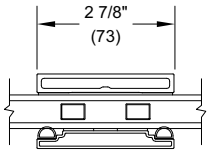


1 1/4" (32) Insulating Glazing

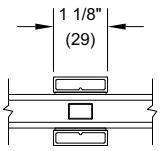


1 1/4" (32) Tripane Insulating Glazing

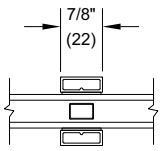
Standard Divided Lite Options



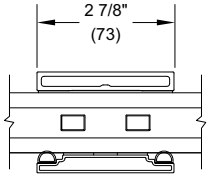
2 7/8" SDL
15/16" Dual Pane



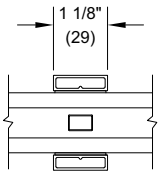
1 1/8" SDL
15/16" Dual Pane



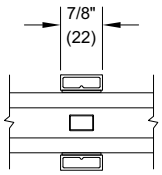
7/8" SDL
15/16" Dual Pane



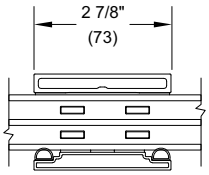
2 7/8" SDL
1 1/4" Dual Pane



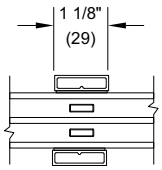
1 1/8" SDL
1 1/4" Dual Pane



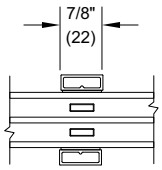
7/8" SDL
1 1/4" Dual Pane



2 7/8" SDL
1 1/4" Tripane



1 1/8" SDL
1 1/4" Tripane

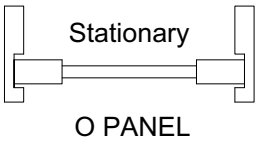


7/8" SDL
1 1/4" Tripane

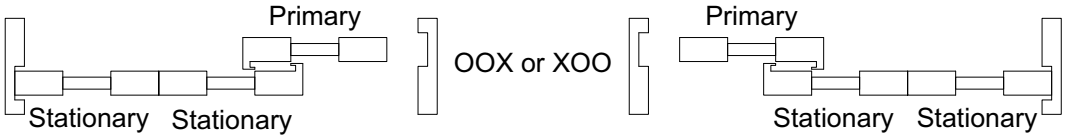
NOTE: Due to the inherent qualities of tempered glass, daylight gaps may be seen when using simulated divided lite bars. Daylight gaps could be visible between the internal spacer bar and surface applied bars when viewing from an acute angle to the glass on the following applications:

- Tempered glass over 91" high while using 7/8" SDL bars.

Panel Configurations



O PANEL



Certified Sizes and Ratings

Product	Air Tested to psf	Water Tested to psf	Design Pressure (DP)	Certification Rating	Overall Width		Overall Height	
					in	mm	in	mm
Sliding Door (O)	1.57	6	40	LC-PG40-SD	63	(1600)	122 29/32	(3122)
Sliding Door (XO/OX)	1.57	6	40	LC-PG40-SD	120 3/32	(3050)	122 29/32	(3122)
Sliding Door (XOO/OOX)	1.57	6	40	LC-PG40-SD	181 1/16	(4599)	122 29/32	(3122)
Sliding Door (O-XO/OX-O)	1.57	6	40	LC-PG40-SD	181 1/16	(4599)	122 29/32	(3122)
Sliding Door (OX-XO)	1.57	6	40	LC-PG40-SD	238 3/16	(6050)	122 29/32	(3122)

Minimum and Maximum Guidelines

Unit Type	Min Width		Min Height		Max Width		Max Height	
	in	mm	in	mm	in	mm	in	mm
1-Panel (O)	30 39/64	(777)	63 1/8	(1603)	63	(1600)	144	(3658)
2-Panel (OX, XO)	56 9/64	(1426)	63 1/8	(1603)	120 3/32	(3050)	144	(3658)
3-Panel (OOX, XOO)	85 3/32	(2161)	63 1/8	(1603)	181 1/16	(4599)	144	(3658)
3-Panel (OX-O, O-XO)	85 3/32	(2161)	77 11/16	(1973)	181 1/16	(4599)	144	(3658)
4-Panel (OX-XO)	110 15/64	(2800)	77 11/16	(1973)	238 3/16	(6050)	144	(3658)

Measurement Conversions

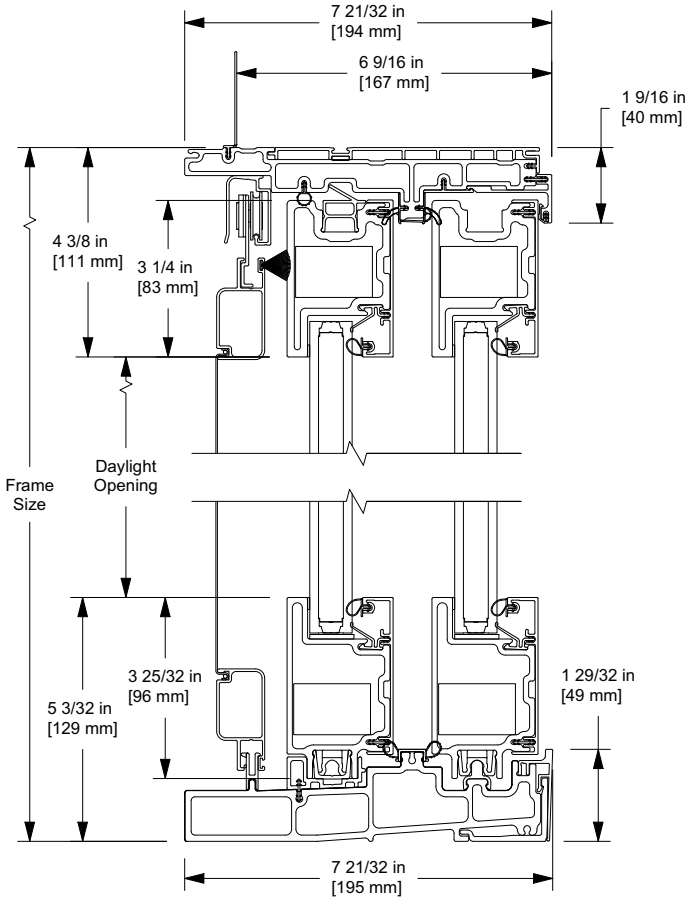
Unit Measurements		Width 1-Panel			Width 2-Panel			Width 3-Panel			Width 4-Panel			Height	
From	To														
Rough Opening		in	mm		in	mm		in	mm		in	mm		in	mm
Masonry Opening	Rough Opening	+ 1/2	(13)		+ 1/2	(13)		+ 1/2	(13)		+ 1/2	(13)		+ 1/4	(06)
OM of Frame	Rough Opening	+ 1 1/2	(38)		+ 1 1/2	(38)		+ 1 1/2	(38)		+ 1 1/2	(38)		+ 3/4	(19)
Daylight Opening	Rough Opening	+ 10 7/32	(260)	× 2	+ 13 5/64	(332)	x 3	+ 19 3/4	(502)	x 4	+ 22 39/64	(574)		+ 10 3/16	(259)
Frame		in	mm		in	mm		in	mm		in	mm		in	mm
Daylight Opening	OM of Frame	+ 8 23/32	(222)	× 2	+ 11 37/64	(294)	x 3	+ 18 1/4	(463)	x 4	+ 21 7/64	(536)		+ 9 7/16	(240)
Panel		in	mm		in	mm		in	mm		in	mm		in	mm
OM of Frame	OM of Panel	-2 13/64	-(56)		+ 21/32	(17)	÷ 2	+ 33/64	(03)	÷ 3	+ 3 13/32	(86)	÷ 4	-2 59/64	-(74)
Daylight Opening	OM of Panel	+ 6 33/64	(166)		+ 6 1/8	(156)		+ 6 1/8	(156)		+ 6 1/8	(156)		+ 6 33/64	(166)
Glass		in	mm		in	mm		in	mm		in	mm		in	mm
OM of Frame	Glass	-7 1/4	-(184)		-8 5/8	-(219)	÷ 2	-13 4/5	-(351)	÷ 3	-15 3/16	-(386)	÷ 4	-7 31/32	-(202)
Daylight Opening	Glass	+ 1 31/64	(38)		+ 1 31/64	(38)		+ 1 31/64	(38)		+ 1 31/64	(38)		+ 1 31/64	(38)

Egress Conversions

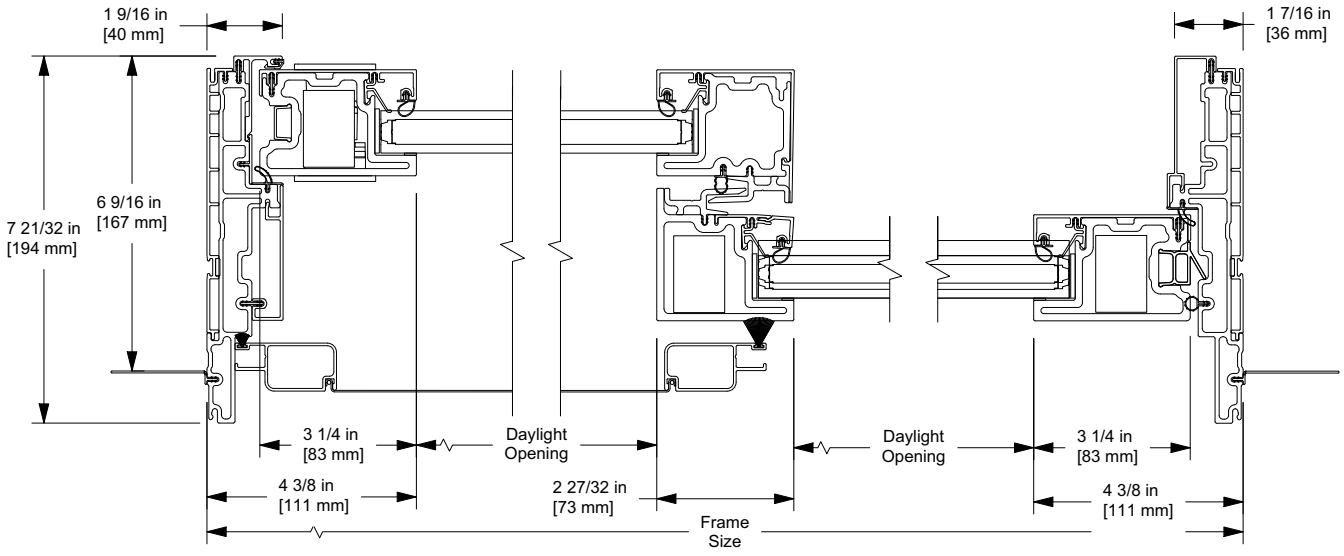
Minimum Value for Net Clear Opening	Desired Dimension	Interior Finish	Formula
32"	Egress opening width, in	2 Panel Door	
		All	= MSD frame OM width - C Panel Width - 3.285
		3 Panel Door - OOX, XOO	
		All	= MSD frame OM width - (C + H Panel Widths) - 3.416
		3 Panel Door - OXO	
		without screen	= MSD frame OM width - (C + Q Panel Widths) - 2.801
		with screen	= MSD frame OM width - (C + Q Panel Widths) - 3.497
		4 Panel Door	
		All	= MSD frame OM width - (C Panel Width x 2) - 3.398
78" (IRC 2012) 80" (IBC 2012)	Egress opening height, in	without screen	= MSD frame OM height - 3.505
		with screen	= MSD frame OM height - 3.949
NA	Egress opening area, ft^2	All	= ((Egress opening width, in) x (Egress opening height, in)) / 144

Section Details: Operating 15/16" IG (with Screen)

Scale: 3" = 1' 0"



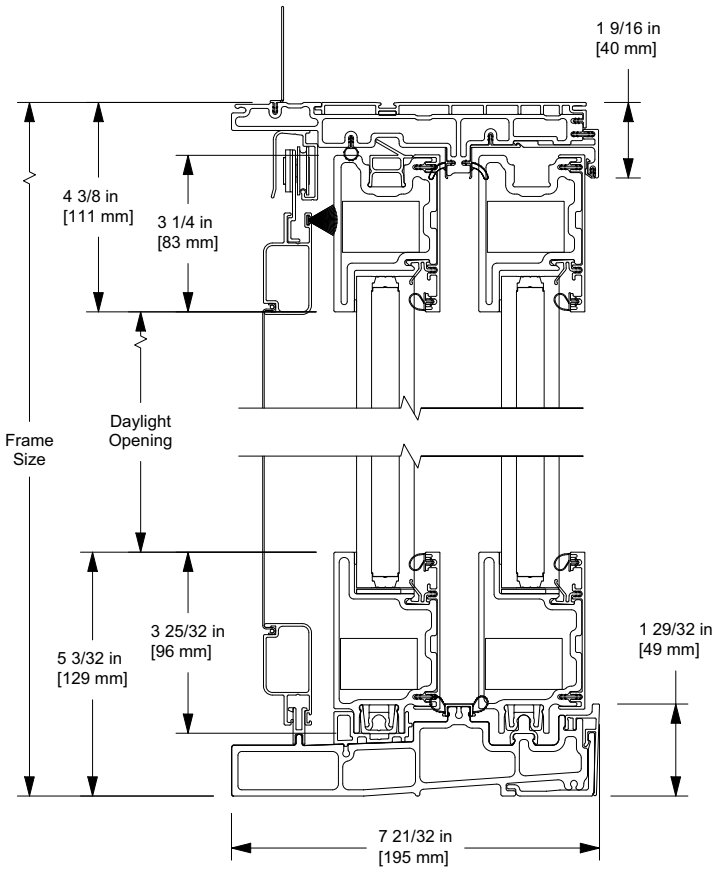
Head Jamb and Sill
15/16" I.G.



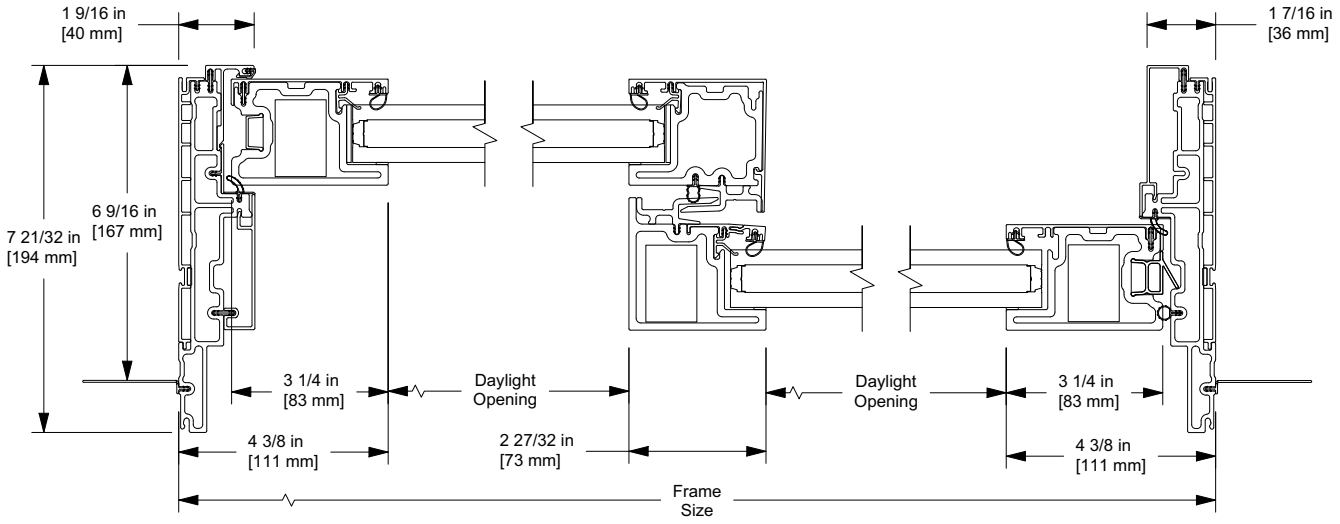
XO - Jamb
15/16" I.G.

Section Details: Operating 1 1/4" IG (with Screens)

Scale: 3" = 1' 0"



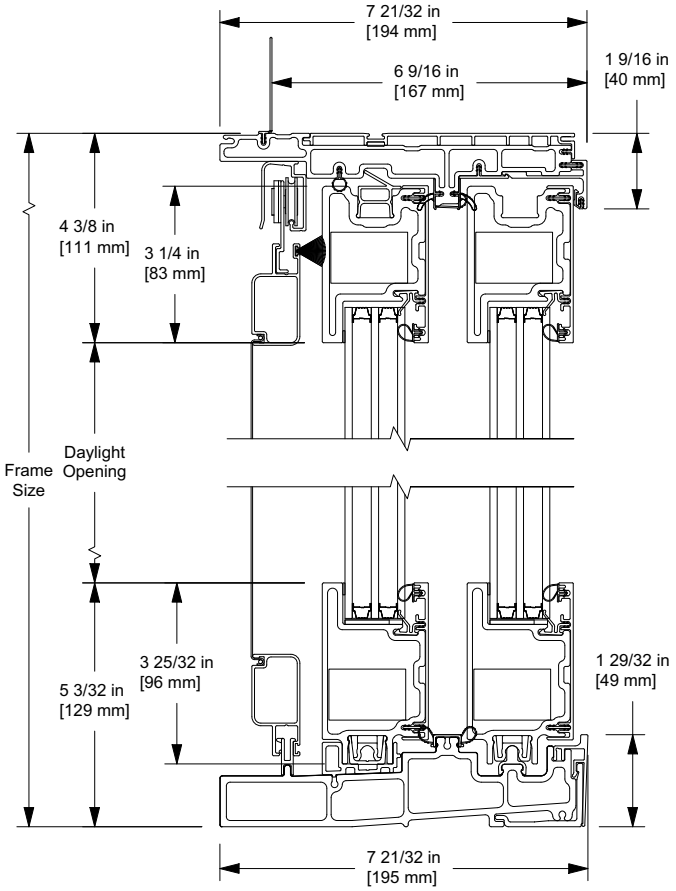
Head Jamb and Sill
1 1/4" I.G.



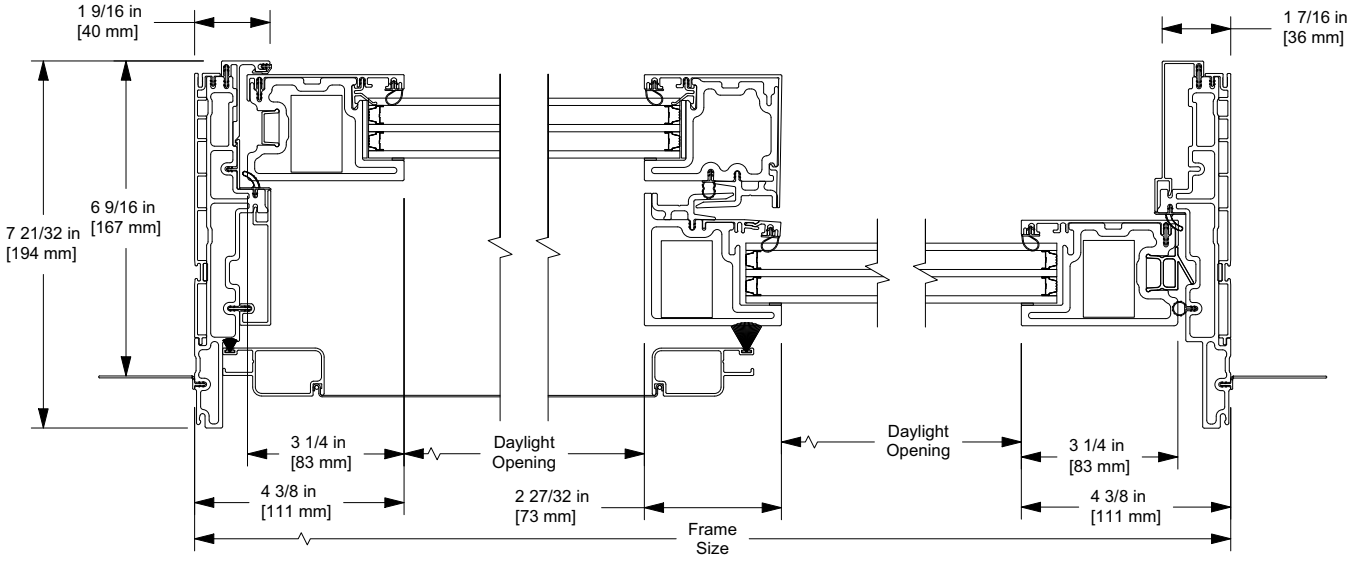
XO - Jamb
1 1/4" I.G.

Section Details: Operating 1 1/4" Tripane (with Screen)

Scale: 3" = 1' 0"

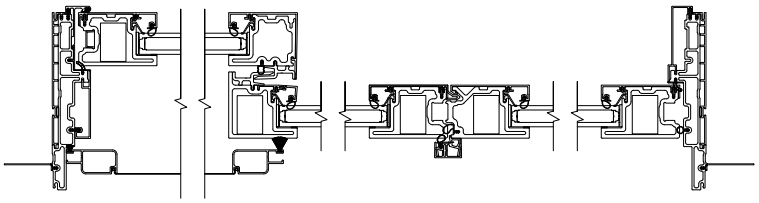


Head Jamb and Sill
1 1/4" TRIPANE GLASS

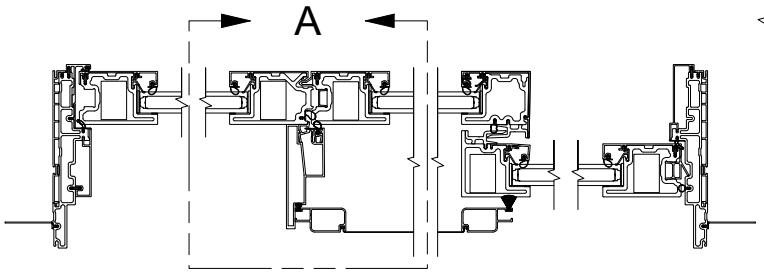


XO - Jamb
1 1/4" TRIPANE GLASS

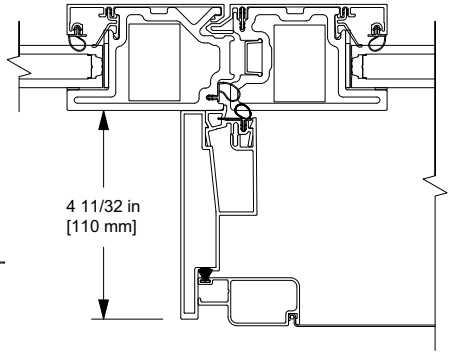
Section Details: Horizontal (with Screen)



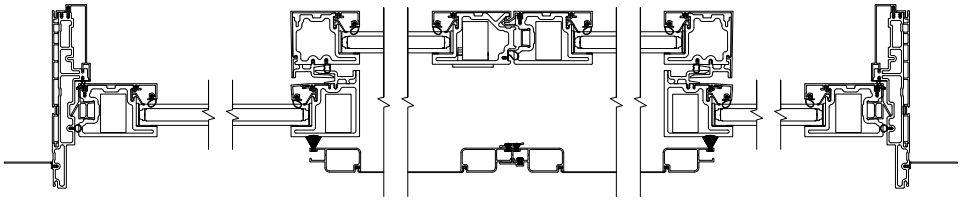
XOO Right Hand Jambs



OXO Right Hand Jambs



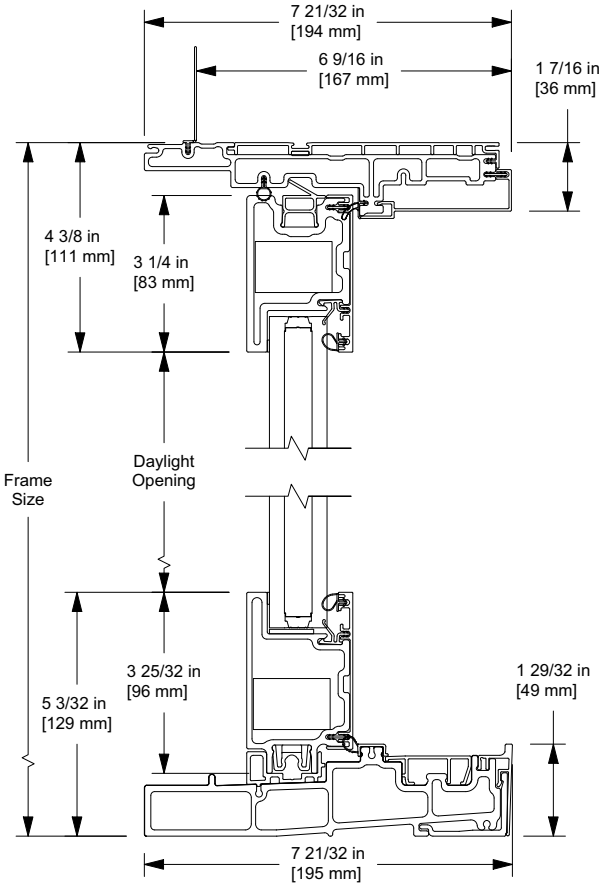
DETAIL A
SCALE 1 / 4



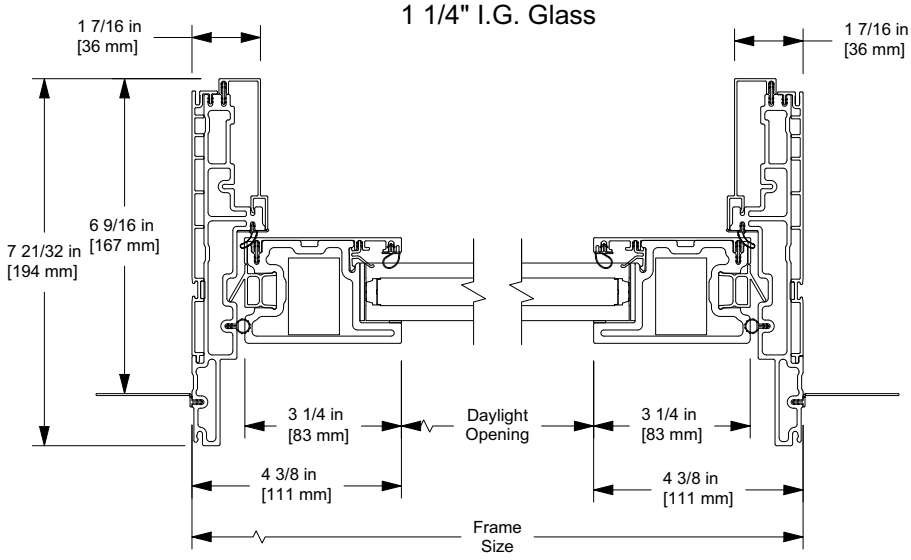
OXXO Jambs

Section Details: Stationary

Scale: 3" = 1' 0"



Head Jamb and Sill
1 1/4" I.G. Glass

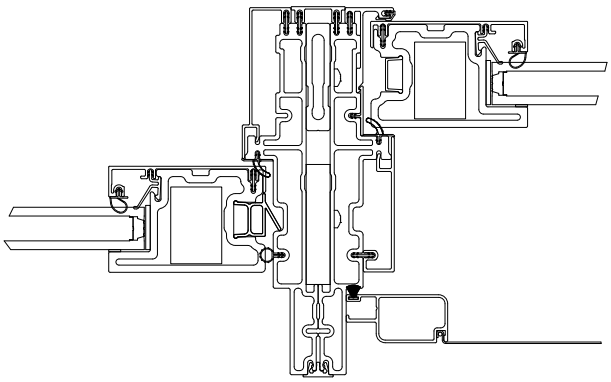


O - Jamb
1 1/4" I.G. Glass

NOTE: Shown with 1 1/4" IG glass. Also available with 15/16" IG Glass and 1 1/4" Triple Pane glass.

Section Details: Mull

Scale: 3" = 1' 0"



Mull Detail
MSPD/MSPD O-Panel

NOTE: Shown with 15/16" IG glass. Also available with 1 1/4" IG Glass and 1 1/4" Triple Pane glass.