

Essential Sliding Patio Door

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Unit Features

Essential Sliding Patio Door: ESSPD

Frame and Sash:

- The frame and sash exteriors are made of Ultrex®, an advanced fiberglass reinforced pultrusion material that is resistant to thermal conductance.
- Exterior colors: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony.
- Interior colors: Stone White, Bronze, Gunmetal, or Ebony.
- Split finishes are not available for Dark Interior options. Only Bronze interior/Bronze exterior, Gunmetal interior/Gunmetal exterior, and Ebony interior/Ebony exterior combinations are available for Dark interior options.

Frame:

- Composite frame thickness is 1 3/8", (35). Frame width is 3 3/32", (79). Ultrex is .065" - .070", (2) thick.
- Standard jamb depth is 3 3/8" (86), frame depth 4 15/32" (114). The sill is composed of Ultrex.

Panel:

- The panel is 1 1/4" (29) thick with an Ultrex interior and exterior. Both the stile and rail share a common one-piece Ultrex profile that gives structure to the panel, which utilizes injection molded corner keys. Overall stiles and rails are 2 1/8" (54) wide.
- Composite sash thickness is 15/16" (24). Ultrex is .100" (3) thick. Sash can be replaced but cannot be re-glazed.

Jamb Extension:

- Standard jamb depth is 2" (51). 4 9/16" (116) and 6 9/16" (167) maintenance free jamb extension is available.
- Color options: Stone White, Bronze, Gunmetal, Ebony
 - Default color will match unit interior selection. Stone White Jamb Extension is available for all unit interior selections.

Hardware:

- Handle Sets
 - Single point non-keyed zinc substrate handle lock.
 - Handle Set: Interior and exterior selected separately.
 - Provides an interior thumb lever to engage the locking and unlocking of the operating panel.
 - Keyed and keyed alike options are available.
 - Standard Handle Set
 - Handle is 7 5/8" (194) tall, 2 21/32" (67) wide by 1 13/16" (30) deep.
 - Available in Almond Frost, White, Brass PVD, Satin Nickel PVD, Matte Black or Oil Rubbed Bronze PVD.
 - Optional Slim Handle Set
 - Handle is 7 5/8" (194) tall, 29/32" (23) wide by 1 11/32" (34) deep.
 - Available in White, Almond Frost, Bronze, and Matte Black

Installation:

- Factory applied folding nailing fin.
- Installation brackets for masonry application are available in lieu of folding nailing fin, if specified on the order.

Weather Strip:

- Color: Black
- Jambs and head jambs utilize a rigid leaf-type weather strip.
- Bottom rail utilizes a rigid pile assembly against the sill.
- Rigid interlocks use full length individual pile weather strip.

Glazing:

- Dual-pane units are manufactured with a 3/4" (19) Tempered IG with Low E1, E2, E3, or E3/ERS coating including argon gas or air fill. Clear (uncoated) glass is available with air fill only.
- Obscure glass is available as an option.
- The glazing seal is a silicone bedding on the exterior and vinyl glazing seal on the interior in a one-piece sash.
- Perimeter spacer color default is mill finish (stainless). An optional black perimeter spacer is available for all unit interior color selections.
- STC/OITC values are available for 3.1 mm glass thickness.
 - Optional 3.1/4.7 STC/OITC Upgrade glass is available. See the Product Performance chapter for STC and OITC ratings.
- Decorative glass options include glue chip, frost and tinted (bronze, gray or green).
 - Decorative glass is not available with Low E1, Low E3/ERS or STC/OITC Upgrade options.

Unit Features Continued

Screen

- Top hung extruded aluminum screens to match exterior Ultrex color.
- Single operating panel only
- Includes all mounting and latching hardware

Grilles-Between-The-Glass (GBG)

- 23/32" (18) contoured aluminum bar placed between two panes of glass.
- Pattern: Standard rectangular pattern, 6 or 9 lite Prairie cut, or Cottage style cut.
- Exterior color options: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony.
- Interior color options: Stone White, Bronze, Gunmetal, Ebony (Matches unit interior color).
- Not available with tinted glass.

Accessories

- Field applied j-channel, a 1" (25) or 3" (76) frame expander.
- Factory-applied sheet rock return for 1/2" (13) or 5/8" (16) drywall, or a 3/4" (19) receiver.
 - Sheet Rock Return and 3/4" Receiver color options: Stone White, Bronze, Gunmetal, Ebony. Default color will match unit interior selection. Stone White Sheet Rock Return and 3/4" Receiver are available for all unit interior selections.
- General: mull kits are available for field assembly. Kits include instructions, mull covers, mull plugs and brackets.

Exterior Casing

- Non-integral to the unit.
- Fastened to the exterior wall with barb and 2" (51) brick mould available as a header and jamb surround.
- 3 1/2" (89) flat casing available as a header and jamb surround.
- Also available with 1" (25) ranch style header overhang.

Mulling

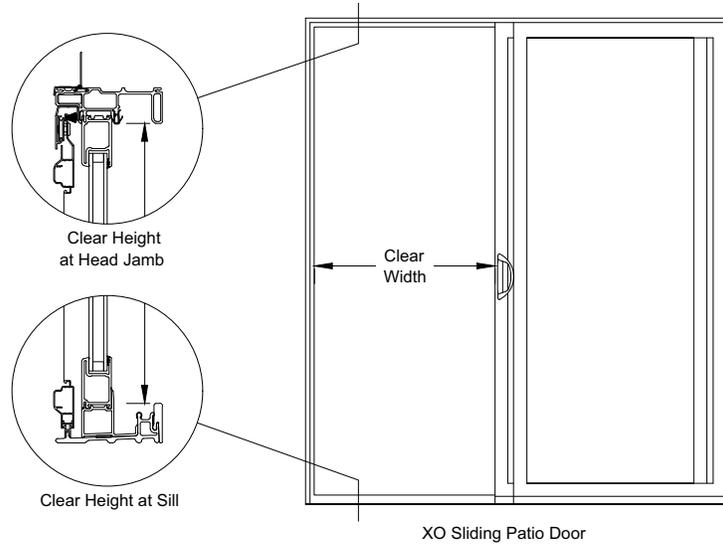
- For mull performance, refer to the Essential Mulling Chapter of the ADM.
- Mull kits are available for field assembly. Kits include instructions, mull covers, mull plugs and brackets
- General Mull kits are available for field assembly.

Minimum/Maximum Guidelines and Certified Sizes

Unit Type	Minimum Frame Size				Maximum Frame Size			
	Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm
2-Panel Operator	59 1/2	(1511)	79 1/2	(2019)	95 1/2	(2426)	95 1/2	(2426)
3-Panel Operator	107 1/2	(2731)	79 1/2	(2019)	107 1/2	(2731)	95 1/2	(2426)
2 - Panel Direct Glaze Transom	59 1/2	(1511)	11 1/2	(292)	95 1/2	(2426)	17 1/2	(445)
3 - Panel Direct Glaze Transom	107 1/2	(2731)	11 1/2	(292)	107 1/2	(2731)	17 1/2	(445)

Product	Air Tested to PSF	Water Tested to psf	Design Pressure (DP)	Certification Rating	Max Overall Width		Max Overall Height	
					in	mm	in	mm
Essential Sliding Patio Door (OX)	1.57	4.5	30	LC-PG30-SD	71	(1803)	81	(2057)
Essential Sliding Patio Door (OX)	1.57	4.5	30	LC-PG30-SD	71	(1803)	95	(2413)
Essential Sliding Patio Door (OX)	1.57	4.5	30	LC-PG30-SD	95	(2413)	81	(2057)
Essential Sliding Patio Door (OX)	1.57	4.5	25	LC-PG25-SD	95	(2413)	95	(2413)
Essential Sliding Patio Door (OOX)	1.57	4.5	30	LC-PG30-SD	107	(2718)	81	(2057)
Essential Sliding Patio Door (OXO)	1.57	4.5	30	LC-PG30-SD	107	(2718)	81	(2057)
Essential Sliding Patio Door (OOX)	1.57	4.5	30	LC-PG30-SD	107	(2718)	95	(2413)
Essential Sliding Patio Door (OXO)	1.57	4.5	30	LC-PG30-SD	107	(2718)	95	(2413)

Egress, Light and Vent Measurements



Two Panel Egress Calculations Minimum Value for Net Clear Opening		
20 inches	Egress Opening Width (inches)	=(Frame OM Width / 2) - 5.682
24 inches	Egress Opening Height (inches)	=Frame OM Height - 4.227
5.7 square feet	Egress Opening Area (sq. ft.)	=(Egress Width x Egress Height) / 144

Net Clear Opening Essential Sliding Patio Door			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
2 Panel Operator	50	2-0 1/16	(611)
	510	2-5 5/16	(745)
	60	2-6 1/16	(764)
	60	2-8 5/32	(817)
	80	3-6 1/16	(1069)
3 Panel Operator	90	2-6 1/16	(764)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
All Configurations	68	6-3 17/64	(1912)
	610	6-5 17/64	(1963)
	80	7-7 17/64	(2318)

Standard Sizes

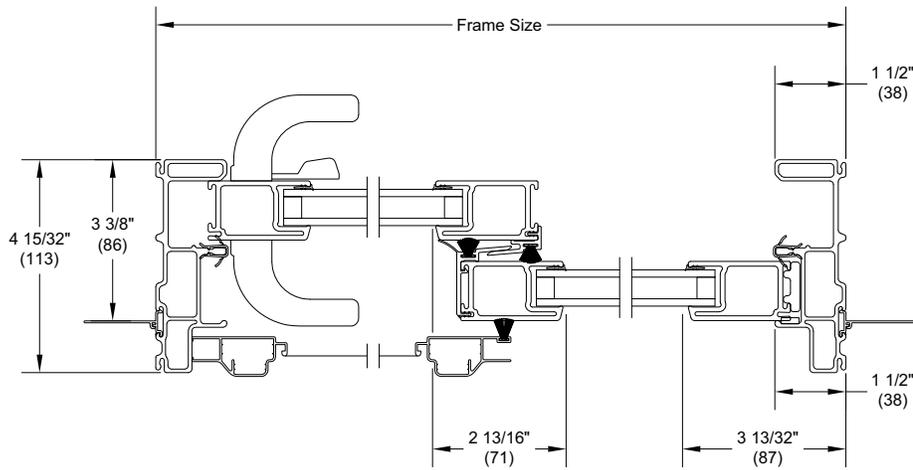
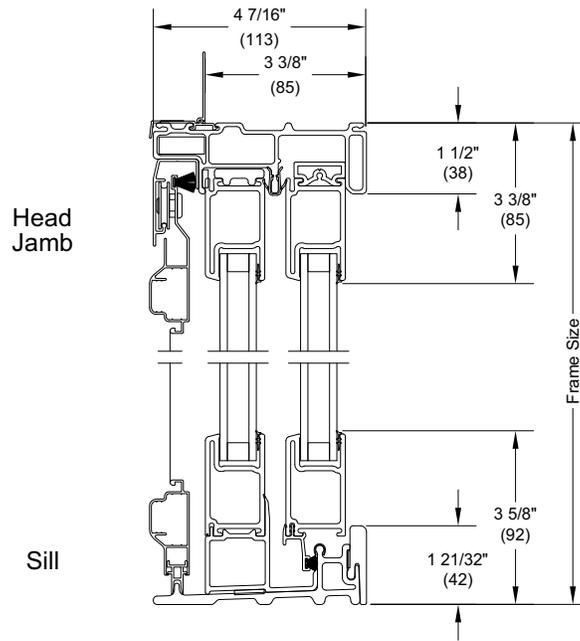
Essential Sliding Patio Door Unit Measurements													
Width													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Screen OM		Daylight Opening	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft-in	mm	in	mm
XO, OX	50	5-0	(1524)	5-0	(1524)	4-11 1/2	(1511)	2-5 13/32	(747)	6-5 9/32	(741)	2-0 63/64	(635)
	510	5-10 1/2	(1791)	5-10 1/2	(1791)	5-10	(1778)	2-10 21/32	(880)	2-10 7/16	(875)	2-6 15/64	(768)
	60	6-0	(1829)	6-0	(1829)	5-11 1/2	(1816)	2-11 13/32	(899)	2-11 3/16	(894)	2-6 63/64	(787)
	80	8-0	(2438)	8-0	(2438)	7-11 1/2	(2426)	3-11 13/32	(1204)	6-5 9/32	(1199)	3-6 63/64	(1092)
OOX, XOO OXO	90	9-0	(2743)	9-0	(2743)	8-11 1/2	(2731)	2-11 13/32	(899)	2-11 3/16	(894)	2-6 63/64	(787)
Height						Height							
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Screen OM		Daylight Opening	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft-in	mm	in	mm
All Configurations	68	6-7 3/4	(2026)	6-8	(2032)	6-7 1/2	(2019)	6-4 29/32	(1954)	6-5 9/32	(1963)	6-0 1/2	(1841)
	610	6-9 3/4	(2076)	6-10	(2083)	6-9 1/2	(2070)	6-6 29/32	(2004)	6-7 9/32	(2014)	6-2 1/2	(1892)
	80	7-11 3/4	(2432)	8-0	(2438)	7-11 1/2	(2426)	7-8 29/32	(2360)	7-9 9/32	(2369)	7-4 1/2	(2248)

NOTES:

- Special sizes are available in 1/64" (40) increments, not to exceed the maximum or minimum sizes listed on min/max page

Section Details: 2 Panel XO Operator 3 3/8" Jamb Detail

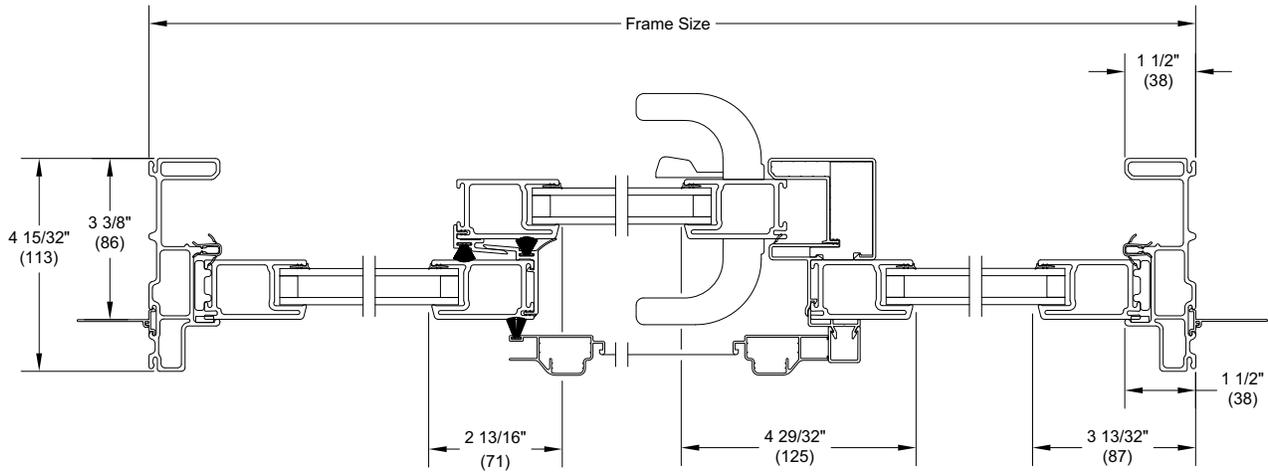
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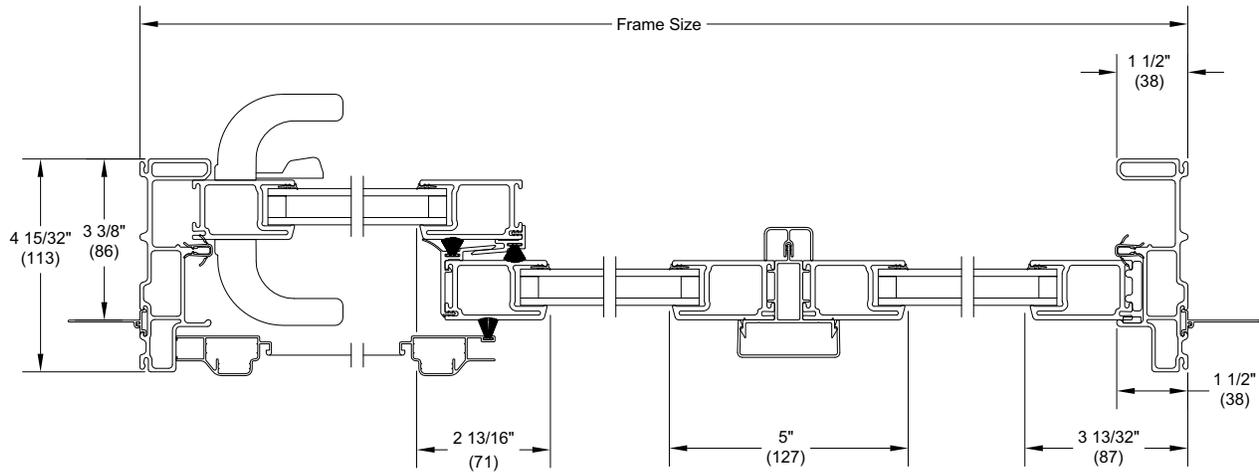
2-Panel XO - Jamb

Section Details: 3 Panel OXO/XOO Operator 3 3/8" Jamb Detail

Scale: 3" = 1' 0"



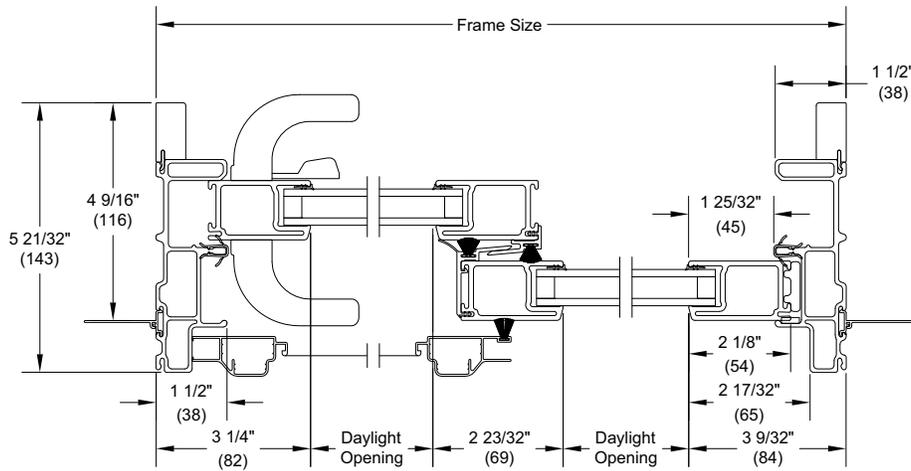
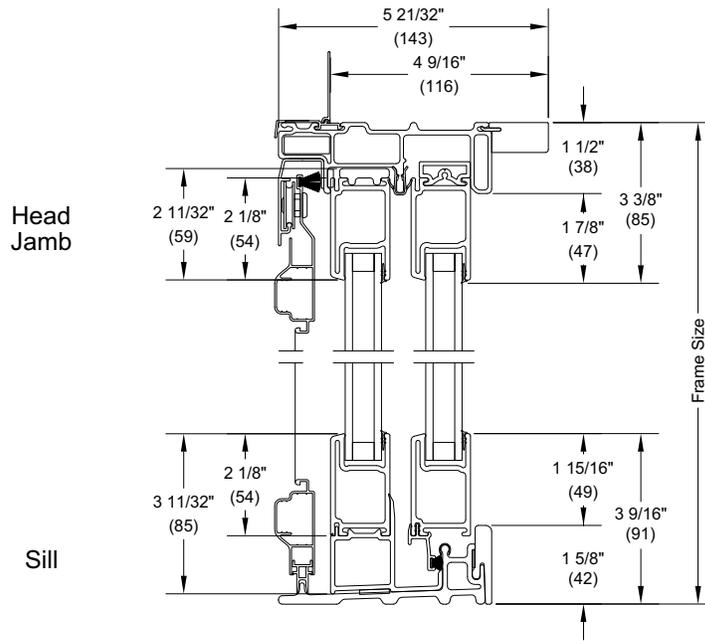
3-Panel OXO - Jamb



3-Panel XOO - Jamb

Section Details: 2 Panel XO Operator 4 9/16" Jamb Detail

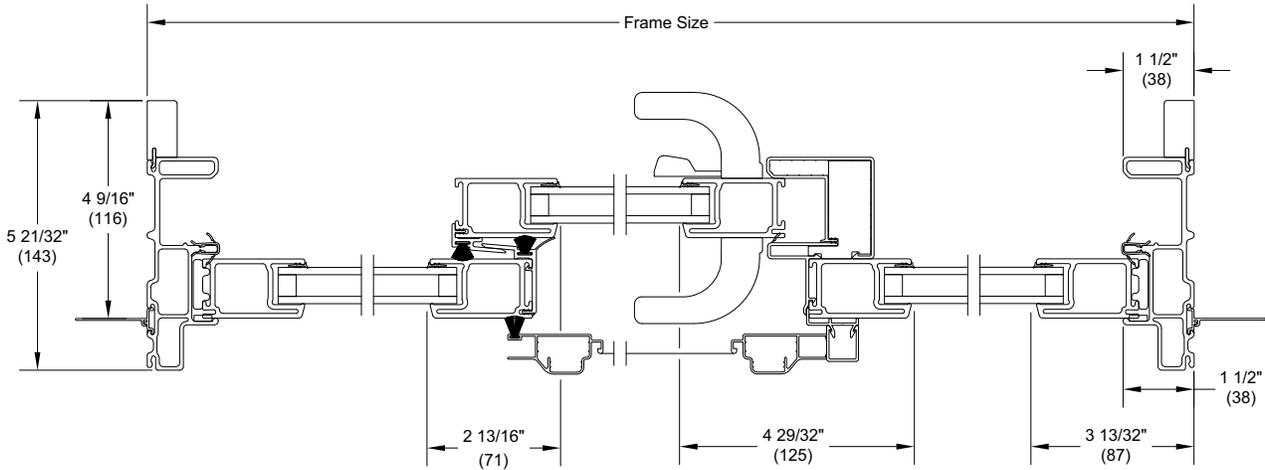
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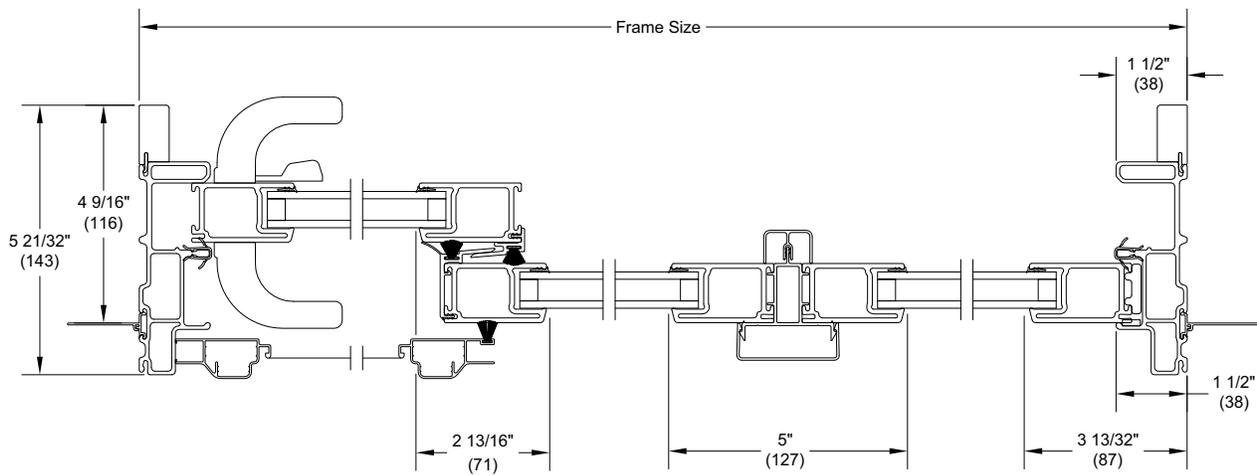
2-Panel XO - Jamb

Section Details: 3 Panel OXO/XOO Operator 4 9/16" Jamb Detail

Scale: 3" = 1' 0"



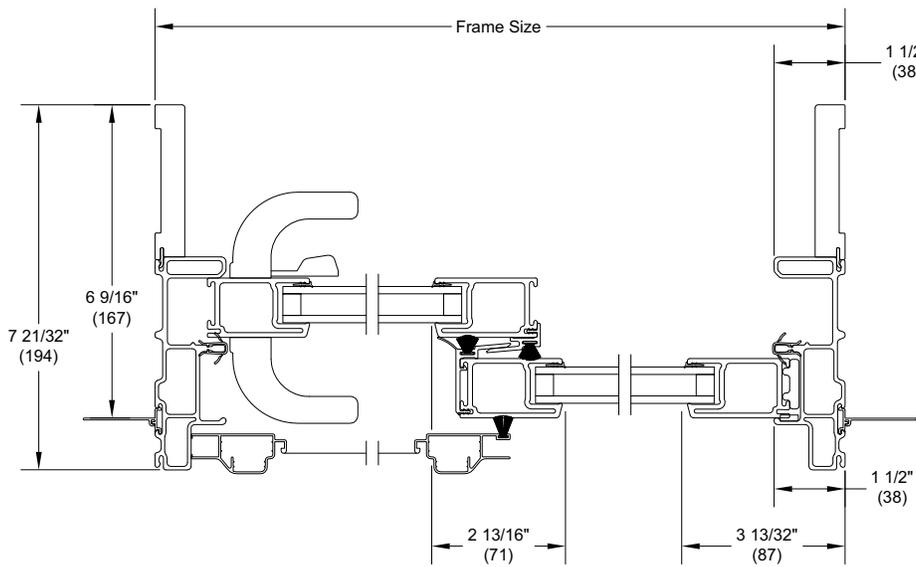
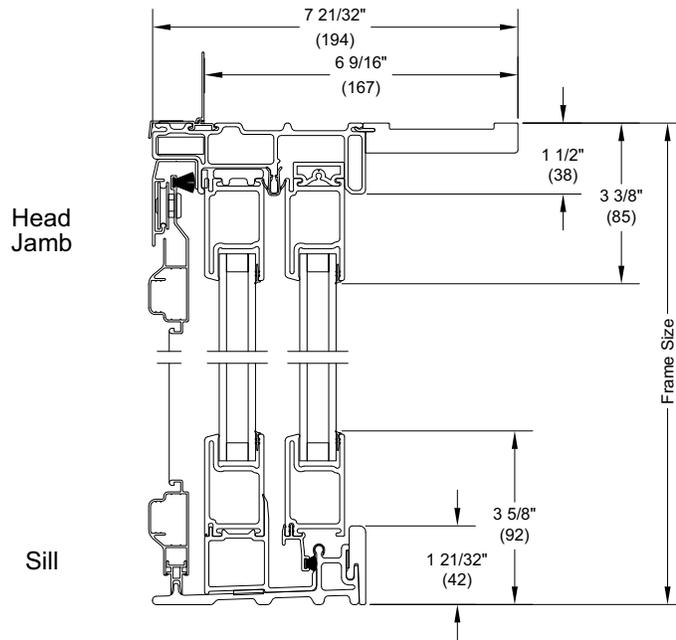
3-Panel OXO - Jamb



3-Panel XOO - Jamb

Section Details: 2 Panel XO Operator 6 9/16" Jamb Detail

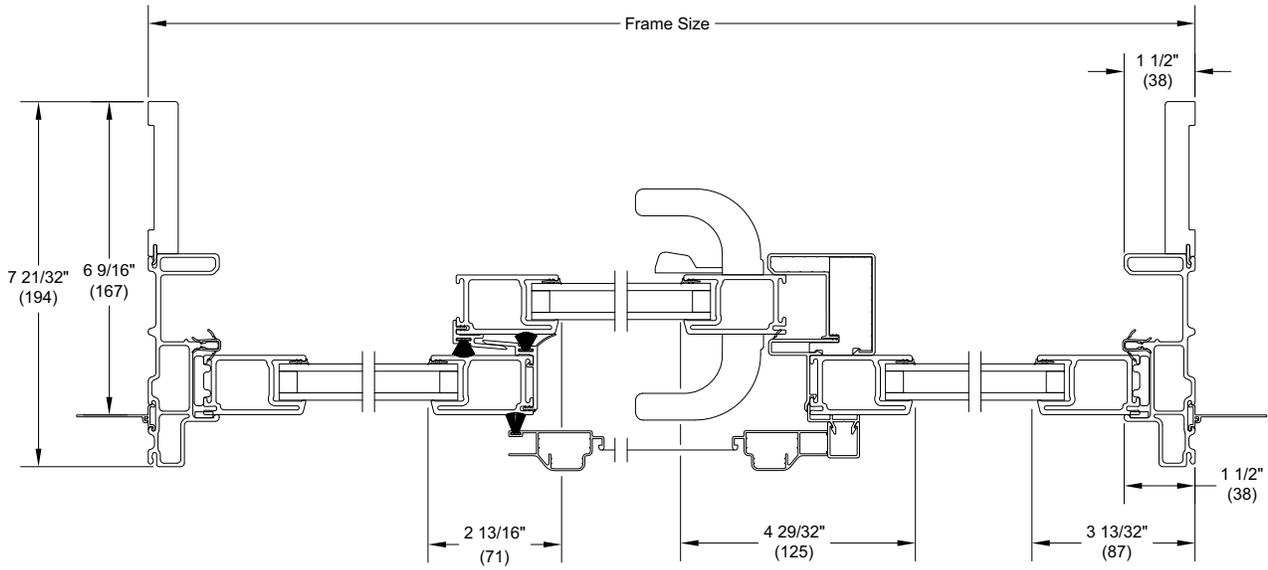
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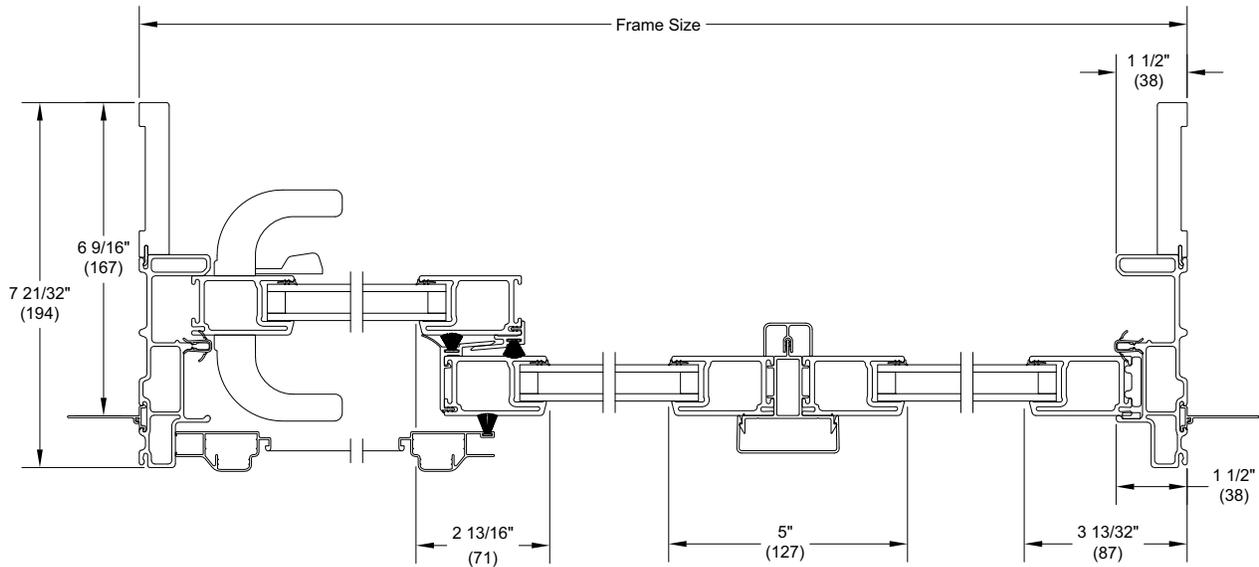
2-Panel XO - Jamb

Section Details: 3 Panel OXO/XOO Operator 6 9/16" Jamb Detail

Scale: 3" = 1' 0"



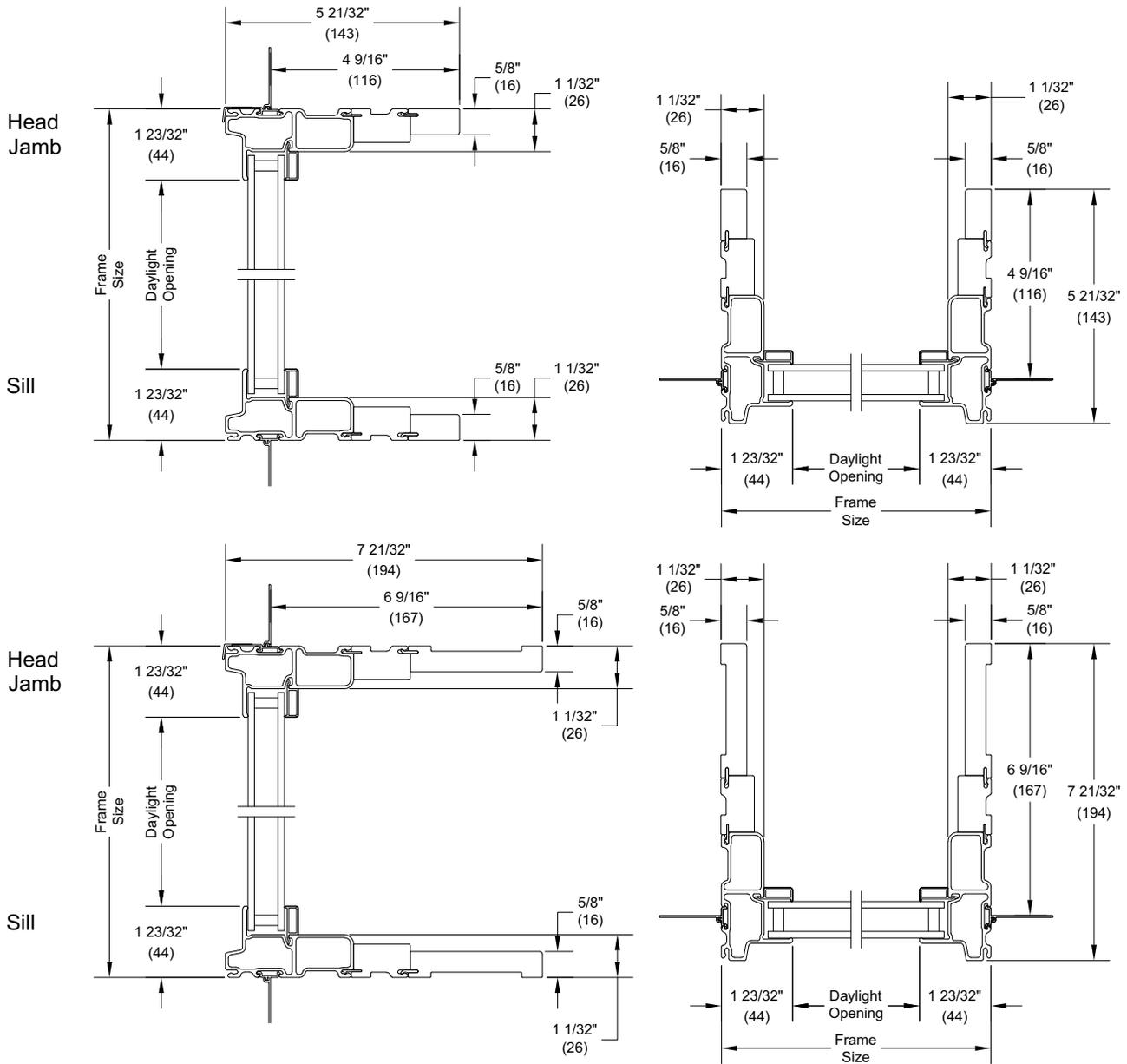
3-Panel OXO - Jamb



3-Panel XOO - Jamb

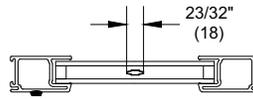
Section Details: Direct Glaze Transom

Scale: 3" = 1' 0"



Section Details: Divided Lite Options

Divided Lite Options



ALUMINUM GRILLE
BETWEEN GLASS

Standard CN Height	Standard CN Width				
	50	510	60	80	90
10	6W1H	6W1H	6W1H	8W1H	9W1H
16	6W1H	6W1H	6W1H	8W1H	9W1H
68	3W5H	3W5H	3W5H	4W5H	3W5H
610	3W5H	3W5H	3W5H	4W5H	3W5H
80	3W6H	3W6H	3W6H	4W6H	3W6H

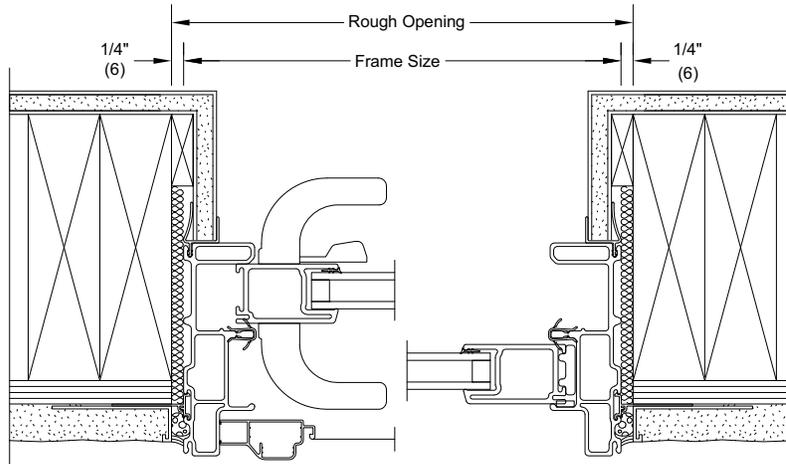
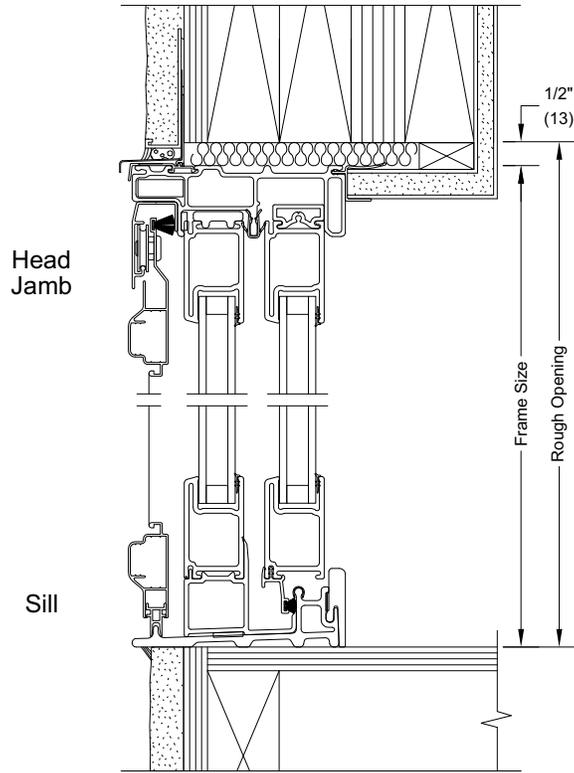
Optional Standard Cottage Pattern per panel - GBG

Standard CN Height	Standard CN Width				
	50	510	60	80	90
Door Heights	4-Lite	4-Lite	4-Lite	5-Lite	4-Lite

NOTES:

- Rectangle GBGs for special size units will default to the next smaller standard size lite pattern. Also available will be Prairie patterns, Cottage patterns, and customer specified equal rectangular lite patterns.
- Prairie available in 9 lite and 6 lite top, bottom, left, and right patterns.
- Cottage GBGs for special sizes units will default to the next smaller standard size lite pattern. Cottage GBGs are also available in customer selected lite patterns.
- Minimum DLO measurement for equal lite GBG option is 3" (76) and will be validated by OMS.
- Standard DLO measurement for Prairie GBG options is 4" (102). Special DLO corners are n/a.
- Standard DLO height measurement for Cottage GBG option is 10" (254). Minimum DLO height is 3" (76) for both one and two high patterns.
- GBGs are not available with an unsupported bar length > 72"

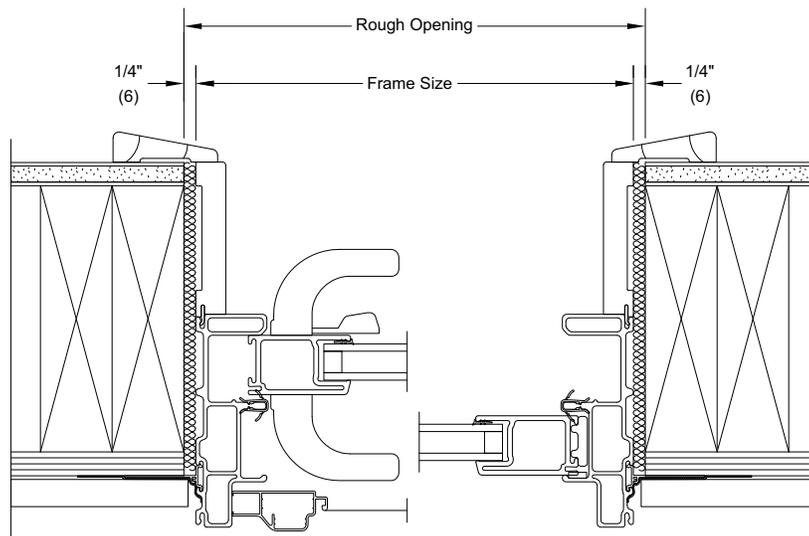
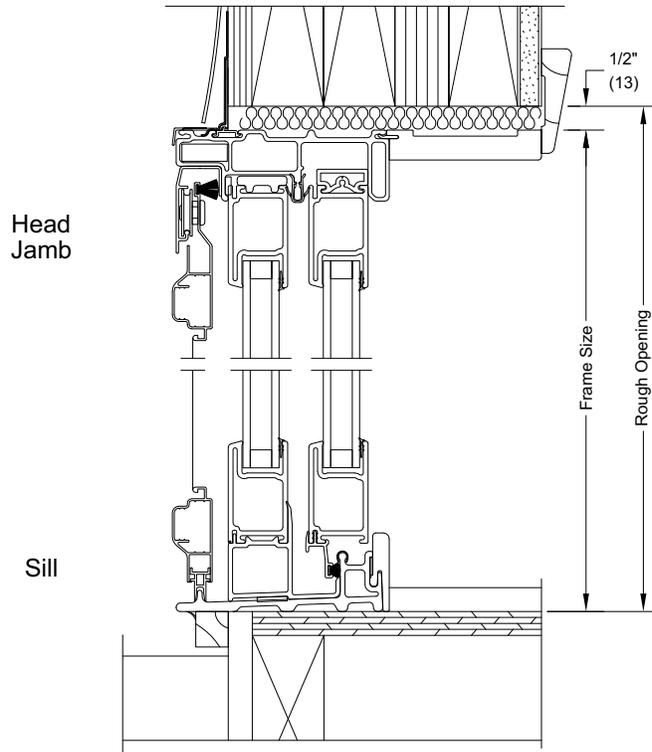
Installation Suggestions: Stucco with 2x4 Frame Construction



2-Panel XO - Jamb

NOTE: The above wall sections represent typical wall conditions, these detail are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.

Installation Suggestions: Vinyl Siding with 2x6 Frame Construction

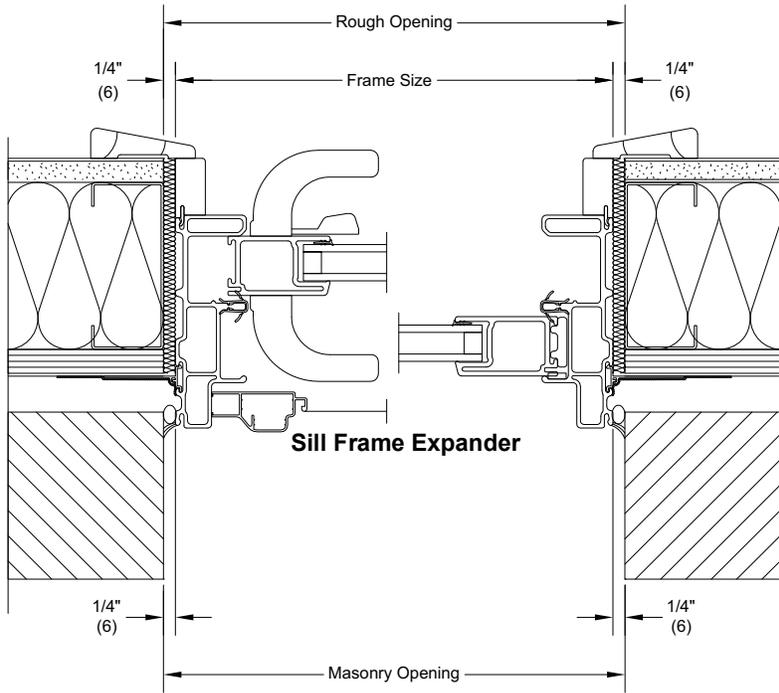
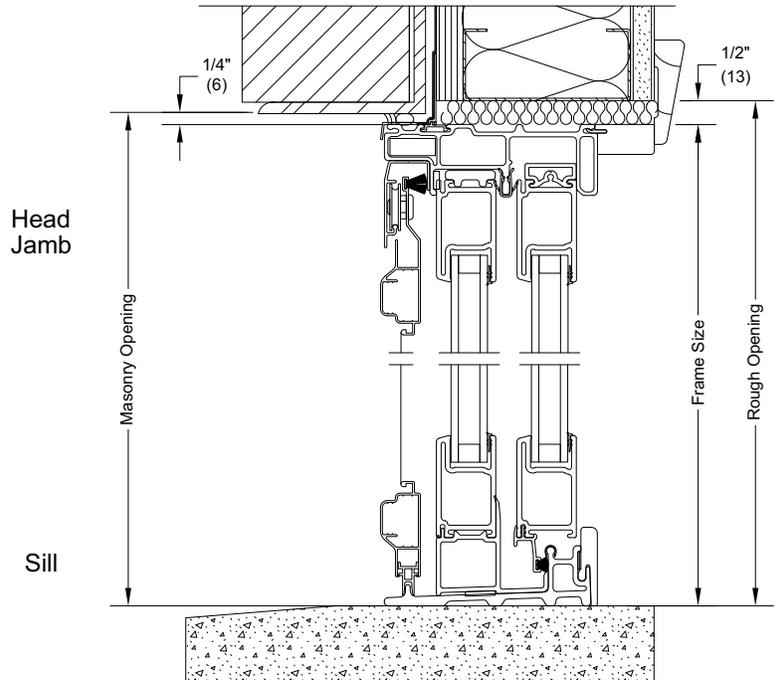


2-Panel XO - Jamb

The above wall sections represent typical wall conditions, these detail are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.

Installation Suggestions: Brick Veneer with Steel Frame Construction

Scale: 3" = 1' 0"



2-Panel XO - Jamb

NOTE: The above wall sections represent typical wall conditions, these detail are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.