

Elevate Outswing French Door G3

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Unit Features

Elevate Outswing French Door G3: ELOFD G3

For applicable certification and code information, refer to the Introduction and Product Performance chapter.

Frame and Panel:

- 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. Frame and sash color may be selected independently.
- The interior is non finger-jointed pine, kiln-dried to a moisture content 6-12% at time of fabrication. Water repellent, preservative treated. Interior wood is available as Pine wood or factory-applied white, clear, or designer black interior finishes. Frame and sash color may be selected independently.

Frame:

- Frame thickness is 1 5/16" (33). Frame width of 4 9/16" (116). The sill is Ultrex, beige or bronze, with a cellular PVC sill liner. 4/4 non finger-jointed pine interior stop is applied to all units. Ultrex is .080" (2) thick.

Panel:

- Composite sash thickness is 1 3/4" (44), stiles and top rails 3 5/8" (92), bottom rail width 6" (152) Ultrex is .110" (3) thick.

Jamb Extension:

- Extension Thickness: 9/16" (14)
- Multiple depths available from 1/8" (3), 1/4"(6), and depths varying between 1/2"(13) and 4"(102) at 1/16" (2) increments
- Maximum jamb depth is 8 9/16". (217)
- 6 9/16" (166) or 6 13/16" (173) jamb extension - factory-applied
- All other jamb depth options are available shipped loose.
- Material: Bare Pine
- Option: factory applied white, designer black and clear lacquer interior finish

Hardware:

- Multi-point lock, latch, and deadbolt assembly included with each operating door.
- Handle has a standard deadbolt and top and bottom shoot bolts operated by handle set.
- Handle Sets
 - Handle Set: Interior and exterior selected separately.
 - Standard finish is Almond Frost. Optional finishes: White, Bright Brass PVD, Oil Rubbed Bronze PVD, Satin Nickel PVD, and Matte Black.
- Standard locking system strike plate will be stainless steel, with an optional brass strike on "X" doors.
- Hinges contain both a horizontal, vertical adjustment feature, and non-removable pin.
 - Three hinges are used on all units.
 - Hinges will be White, Dark Brown, Pebble Gray, Ebony, Almond Frost, Gray, Gold, or Cashmere to match the exterior of the frame.
 - Coastal brass, Oil Rubbed Bronze, or coastal satin nickel hinges with brass substrates.
- Keyed alike option is available.

Installation:

- Factory applied folding nailing fin and drip cap system.
- Optional installation brackets for masonry available.
- Factory-supplied field mulling kits are available for standard assemblies.

Unit Features Continued**Glazing:**

- Dual-pane units are manufactured with 3/4" (19) Tempered IG with Low E1, E2, E3, or E3/ERS coatings including argon gas or air fill. Clear (uncoated) glass available with air fill only. Obscure glass is available as an option.
- The glazing seal is a silicone bedding on both interior and exterior surfaces utilized in a sandwich style sash.
- STC/OITC values are available for 3.1 mm glass thickness.
 - Optional 3.1/4/7 upgrade glass is available. See the Product Performance chapter for STC and OITC ratings.

Weather Strip:

- All units are constructed with two weather strips at all jamb/panel perimeter joints.
 - The primary weather strip is attached to the head/jamb interior wood stops, sill and interior astragals.
 - The secondary weather strip is attached to the panels.
- All weather strips utilize a hollow bulb weather strip.
- Weather strip exposed to the exterior is of UV (ultraviolet) resistant material.

Interior/Exterior Simulated Divided Lites (SDL):

- Interior bar: 7/8" (22) wide bars. Pine bare wood with optional white, clear, and designer black interior finishes.
- Exterior bar: Ultrex, 7/8" (22) wide bars, finish to match exterior.
 - Pattern: Standard rectangular pattern, 6 or 9 lite Prairie cut, 6-lite Prairie cut on rectangle or Cottage style cut.
- Simulated check rail option: 2 11/32" (60).
 - Patterns available: simulated rail in standard center or customer specified location with 7/8" pattern above, below, or both in pattern of rectangular equal lite or Prairie lite cuts.

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, or 6-lite Prairie cut on rectangle.
- Exterior color options: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony.
- Interior color options: White, Bronze, or Black.

Exterior Casing:

- Non-integral to the unit.
- Fastened to the exterior wall with barb and kerf 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.

Minimum/Maximum Guidelines and Certified Sizes

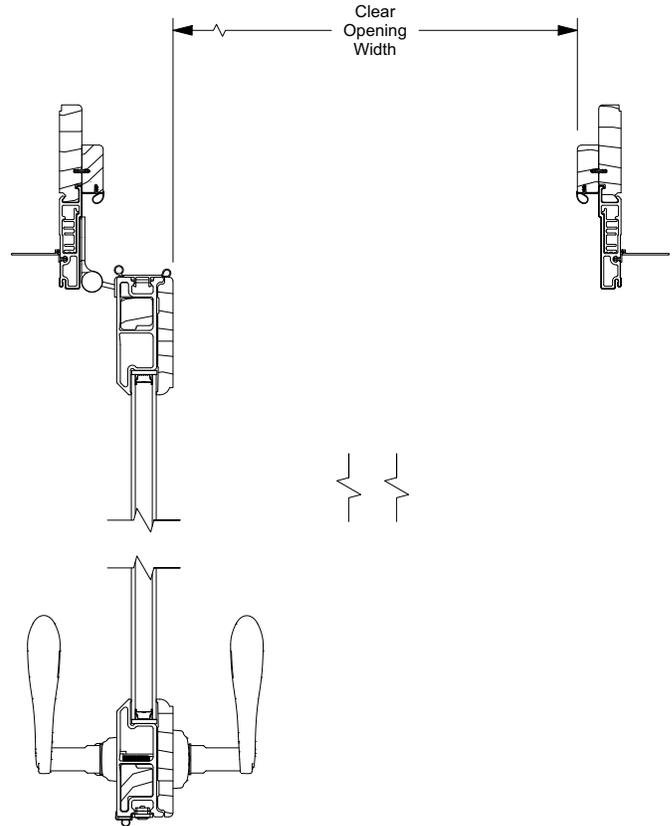
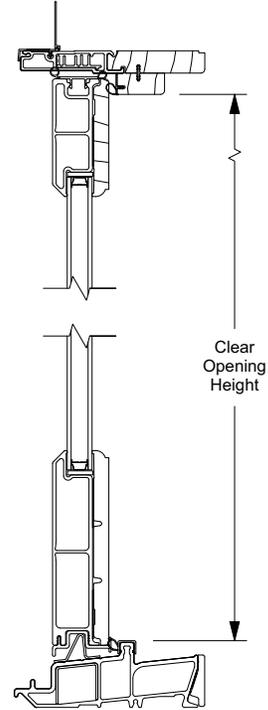
Operator/Stationary Units								
Unit Type	Frame Size							
	Min Width		Min Height		Max Width		Max Height	
	in	mm	in	mm	in	mm	in	mm
1 - Panel O	30 5/16	(770)	79 1/2	(2019)	36 5/16	(922)	95 1/2	(2426)
1 - Panel X	30 5/16	(770)	79 1/2	(2019)	36 47/64	(933)	95 1/2	(2426)
2 - Panel OO, XX, XO/OX	59 1/4	(1505)	79 1/2	(2019)	71 1/4	(1810)	95 1/2	(2426)
3 - Panel OXO	88	(2235)	79 1/2	(2019)	106	(2692)	95 1/2	(2426)

Product	Air Tested to psf	Water Tested to psf	Design Pressure (DP)	Certification Rating	Max Overall Width		Max Overall Height	
					in	mm	in	mm
Elevate Outswing French Door (O)	1.57	6.00	40	LC-PG40-FD	36.319	(923)	95.5	(2426)
Elevate Outswing French Door (X)	1.57	6.00	40	LC-PG40-SHD	36.738	(933)	95.5	(2426)
Elevate Outswing French Door (XX)	1.57	6.00	40	LC-PG40-SHD	71.25	(1810)	95.5	(2426)
Elevate Outswing French Door (OX/XO)	1.57	6.00	40	LC-PG40-SHD	71.25	(1810)	95.5	(2426)
Elevate Outswing French Door (OO)	1.57	4.60	30	LC-PG30-FD	71.25	(1810)	95.5	(2426)
Elevate Outswing French Door (OXO)	1.57	6.00	40	LC-PG40-SHD	106	(2692)	82	(2083)
Elevate Outswing French Door (OXO)	1.57	4.60	30	LC-PG30-SHD	106	(2692)	95.5	(2426)

NOTE: Special sizes are available in 1/64" increments, not to exceed the minimum or maximum listed above.

Egress Measurements

Net Clear Opening Elevate Outswing French Door			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
1 Panel Operator (X)	2-6	2-1 37/64	(650)
	2-8	2-3 37/64	(701)
	3-0	2-7 37/64	(802)
	32NCO	2-8	(813)
2 Panel Operator (XOR/OXL)	5-0	2-1 25/64	(645)
	5-4	2-3 25/64	(696)
	6-0	2-7 25/64	(797)
2 Panel Operator (XOL/OXR)	5-0	2-1 51/64	(655)
	5-4	2-3 51/64	(706)
	6-0	2-7 51/64	(807)
2 Panel Operator (XX)	5-0	4-2 49/64	(1289)
	5-4	4-6 49/64	(1391)
	6-0	5-2 49/64	(1594)
3 Panel Operator (OXO)	7-6	2-1 15/32	(647)
	8-0	2-3 15/32	(698)
	9-0	2-7 15/32	(799)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
1 Panel 2 Panel 3 Panel Configurations	6-5	6-4 3/32	(1933)
	6-8	6-6 19/32	(1996)
	7-0	6-10 19/32	(2098)
	8-0	7-8 3/32	(2339)



Egress Conversions

Egress Conversion		
Elevate Outswing French Door		
Minimum Value for Net Clear Opening	Desired Dimension	Formula
32"	Egress opening width, in	1 Panel Door (X)
		= ELOFD Frame Width - 4.738
		2 Panel Door (XOR, OXL)
		= (ELOFD Frame Width / 2) - 4.232
		2 Panel Door (XOL, OXR)
		= (ELOFD Frame Width / 2) - 3.834
		2 Panel Door (XX)
		= ELOFD Frame Width - 8.492
78" (IRC 2012) 80" (IBC 2012)	Egress opening height, in	3 Panel Door (OXO)
		= (ELOFD Frame Width / 3) - 3.861
		X, XX, OX, OXO Height
		= ELOFD Frame Height - 3.399

Conversions

Unit Measurements		Width 1 - Panel		Width 2 - Panel		Width 3 - Panel		Height			
From	To										
Frame		in	mm			in	mm			in	mm
Masonry Opening	Rough Opening	+ 1/2	(13)			+ 1/2	(13)			+ 1/4	(6)
OM of Frame	Rough Opening	+ 1	(25)			+ 1	(25)			+ 1/2	(13)
Daylight Opening	Rough Opening	+ 9 31/32	(253)	×	2	+ 9 31/32	(253)	×	3	+ 12 29/32	(328)
Panel		in	mm			in	mm			in	mm
OM of Frame	OM of Panel	-1 23/32	(44)	÷	2	-1 23/32	(44)	÷	3	-2 25/32	(71)
Daylight Opening	OM of Panel	+ 7 1/4	(184)			+ 7 1/4	(184)			+ 9 5/8	(244)
Glass		in	mm			in	mm			in	mm
OM of Frame	Glass	-7 23/32	-(196)	÷	2	-7 23/32	-(196)	÷	3	-11 5/32	(30)
Daylight Opening	Glass	+ 1 1/4	(32)			+ 1 1/4	(32)			+ 1 1/4	(32)

Standard Mulling Guidelines

Multiple assemblies can be factory mullled

- Assemblies up to 3 units wide by 1 unit high
 - **MAXIMUM ROUGH OPENING** not to exceed 109 15/16" (2792) x 96" (2438)
- Assemblies up to 2 units wide by 2 units high
 - **MAXIMUM ROUGH OPENING** not to exceed 73 5/8" (1870) x 100 1/2" (2552)

NOTE: FIELD MULLING BEYOND 110" X 112" IS NOT RECOMMENDED



ROUGH OPENING TABLE FOR ASSEMBLIES

WIDTH: Single unit Rough Opening width MINUS 1" = Frame width.

ADD **all** frame widths PLUS 1" = Total Rough Opening width.

HEIGHT: Single unit Rough Opening height MINUS 1/2" = Frame height.

ADD **all** frame heights PLUS 1/2" = Total Rough Opening Height.

Certified Standard Mulling Guidelines

Certified Mull Limits: WDMA Hallmark certified to AAMA 450

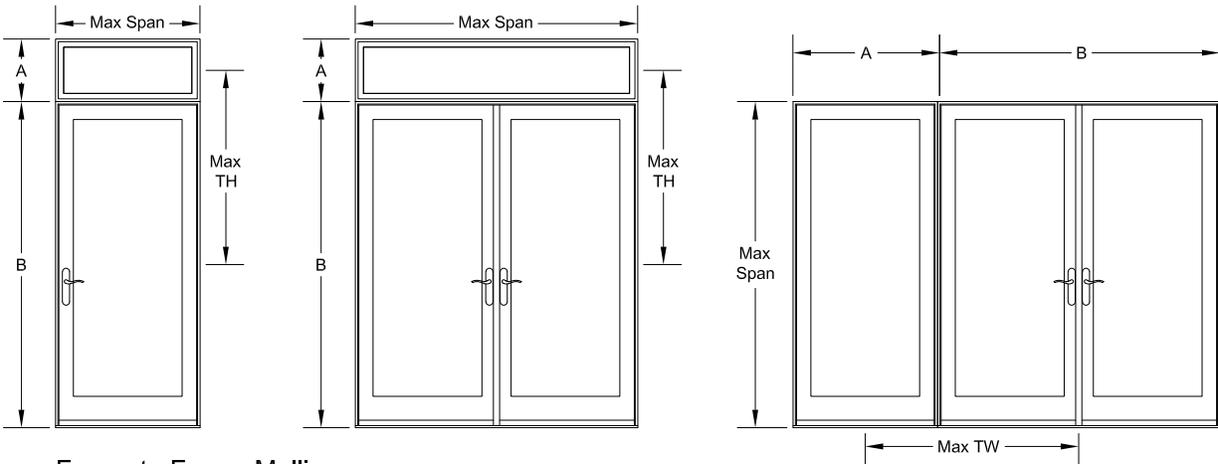
The Elevate Outswing French Door may be mulled to Direct Glaze Polygon.

- If assemblies have individual units that have a lower design pressure than the mull, the entire assembly is rated at the lower design pressure.
- Mull certification includes 4" mull clip (nail fin installation) or mull brackets (structural bracket installation) at all mull joints.
- Items not included in certified mulls: Stepped mulls, Palladians, Polygon Shapes, Through Jamb and Insert Products

Certified Standard mull limits (all factory mulls)

- Maximum Mullered Assembly RO Size
 - 1 unit wide x 2 units high: Max Assembly RO 72" (1829) x 100 1/2" (2553)
 - DP50
 - Max Span: 71" (1803)
 - Max Tributary Height: 50" (1270)
 - 2-3 units wide x 1 unit high: Max Assembly RO 109 15/16" (2729) x 96" (2438)
 - DP50
 - Max Span: 95 1/2" (2426)
 - Max Tributary Width: 54 15/32" (1384)

- Tributary Width = (A+B)/2
- Tributary Height = (A+B)/2



Frame to Frame Mulling

Certified 1/2" MRF Mulling Guidelines

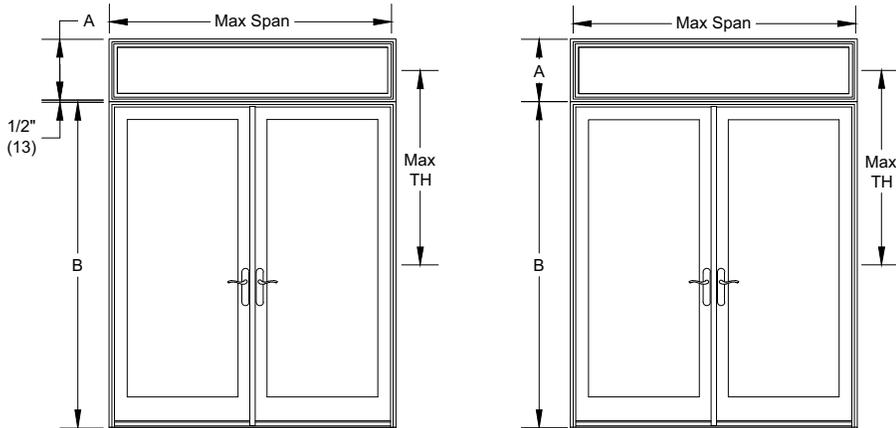
Certified Mull Limits: WDMA Hallmark certified to AAMA 450

The Elevate Outswing French Door may be mulled to Direct Glaze Polyglon.

- If assemblies have individual units that have a lower design pressure than the mull, the entire assembly is rated at the lower design pressure.
- Mull certification includes 4" mull clip (nail fin installation) or mull brackets (structural bracket installation) at all mull joints.
- Items not included in certified mulls: Stepped mulls, Palladians, Polygon Shapes, Through Jamb and Insert Products

Certified 1/2" MRF mull limits (all factory mulls)

- Maximum Mullled Assembly RO Size
 - 1 unit wide x 2 units high: Max Assembly RO 72" (1829) x 100 1/2" (2553)
 - DP40
 - Max Span: Frame Size 71" (1803)
 - Max Tributary Height: Frame Size 50" (1270)
 - 2 units wide x 2 units high: Max Assembly RO 73 5/8" (1870) x 100 1/2" (2553)
 - DP40
 - Max Span: Frame Size 72 5/8" (1845)
 - Max Tributary Width: Frame Size 50" (1270)
- Tributary Width = $(A+B)/2 + 1/2$
- Tributary Height = $(A+B)/2 + 1/2$



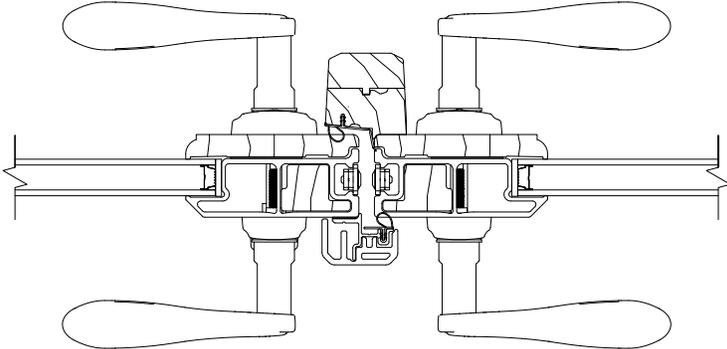
1/2" Mull Reinforcement (MRF) Mulling

Standard Sizes

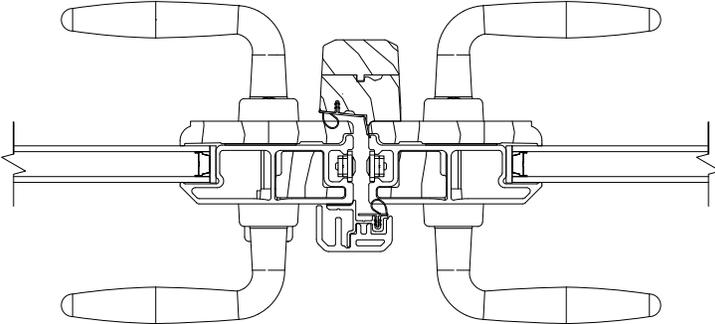
Elevate Outswing Unit Measurements													
Width													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
1 Panel	2-6	2-6 13/16	(783)	2-7 5/16	(796)	2-6 5/16	(770)	2-4 19/32	(726)	1-9 11/32	(542)	22 19/32	(574)
	2-8	2-8 13/16	(834)	2-9 5/16	(846)	2-8 5/16	(821)	2-6 19/32	(777)	1-11 11/32	(593)	24 19/32	(625)
	3-0	3-0 13/16	(935)	3-1 5/16	(948)	3-0 5/16	(923)	2-10 19/32	(879)	2-3 11/32	(695)	28 19/32	(726)
	32NCO	3-1 15/64	(946)	3-1 47/64	(959)	3-0 47/64	(933)	2-11 1/64	(889)	2-3 49/64	(705)	29 1/64	(737)
2 Panel	5-0	4-11 3/4	(1518)	5-0 1/4	(1530)	4-11 1/4	(1505)	2-4 19/32	(726)	1-9 11/32	(542)	22 19/32	(574)
	5-4	5-3 3/4	(1619)	5-4 1/4	(1632)	5-3 1/4	(1607)	2-6 19/32	(777)	1-11 11/32	(593)	24 19/32	(625)
	6-0	5-11 3/4	(1822)	6-0 1/4	(1835)	5-11 1/4	(1810)	2-10 19/32	(879)	2-3 11/32	(695)	28 19/32	(726)
3 Panel	7-6	7-4 1/2	(2248)	7-5	(2261)	7-4	(2235)	2-4 19/32	(726)	1-9 11/32	(542)	22 19/32	(574)
	8-0	7-10 1/2	(2400)	7-11	(2413)	7-10	(2388)	2-6 19/32	(777)	1-11 11/32	(593)	24 19/32	(625)
	9-0	8-10 1/2	(2705)	8-11	(2718)	8-10	(2692)	2-10 19/32	(879)	2-3 11/32	(695)	28 19/32	(726)
Height													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
All Configurations	65	6-7 3/4	(2026)	6-8	(2032)	6-7 1/2	(2019)	6-4 23/32	(1949)	5-7 3/32	(1704)	68 9/32	(1734)
	68	6-10 1/4	(2089)	6-10 1/2	(2096)	6-10	(2083)	6-7 7/32	(2012)	5-9 19/32	(1768)	70 25/32	(1798)
	70	7-2 1/4	(2191)	7-2 1/2	(2197)	7-2	(2184)	6-11 7/32	(2114)	6-1 19/32	(1869)	74 25/32	(1900)
	80	7-11 3/4	(2432)	8-0	(2438)	7-11 1/2	(2426)	7-8 23/32	(2355)	6-11 3/32	(2111)	84 9/32	(2141)

Section Details: Hardware Options

Scale: 3" = 1' 0"



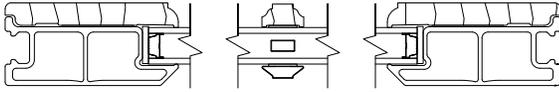
Cambridge Handles



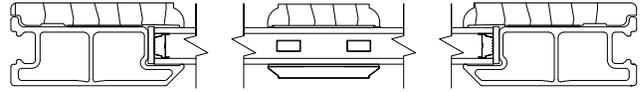
Northfield Handles

Section Details: Divided Lite Options

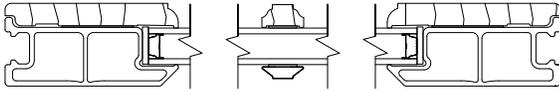
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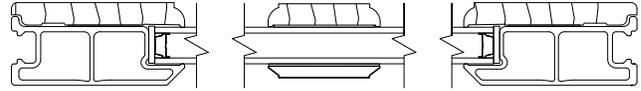
7/8 inch SDL with Spacer Bar



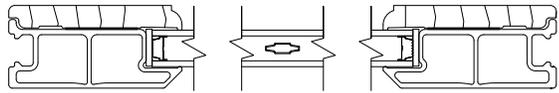
2 11/32 inch SDL with Spacer Bar



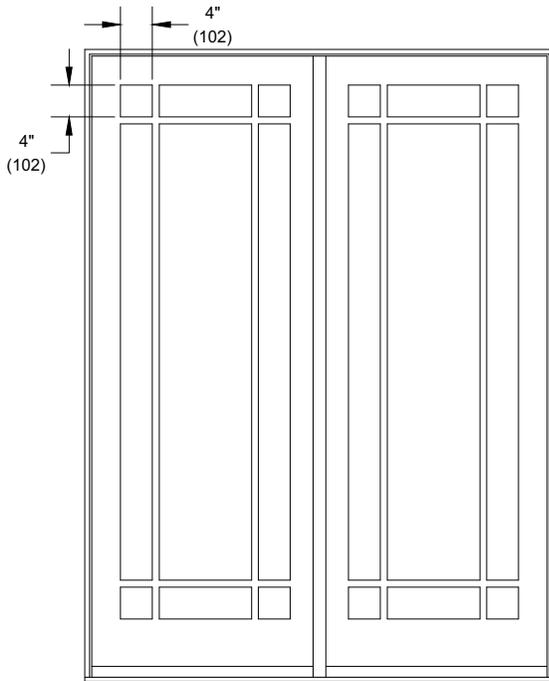
7/8 inch SDL no Spacer Bar



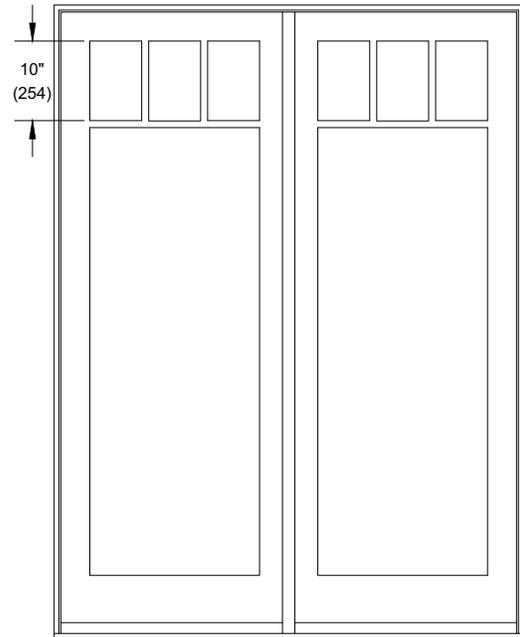
2 11/32 inch SDL no Spacer Bar



23/32 inch GBG



Prairie Lite Cut



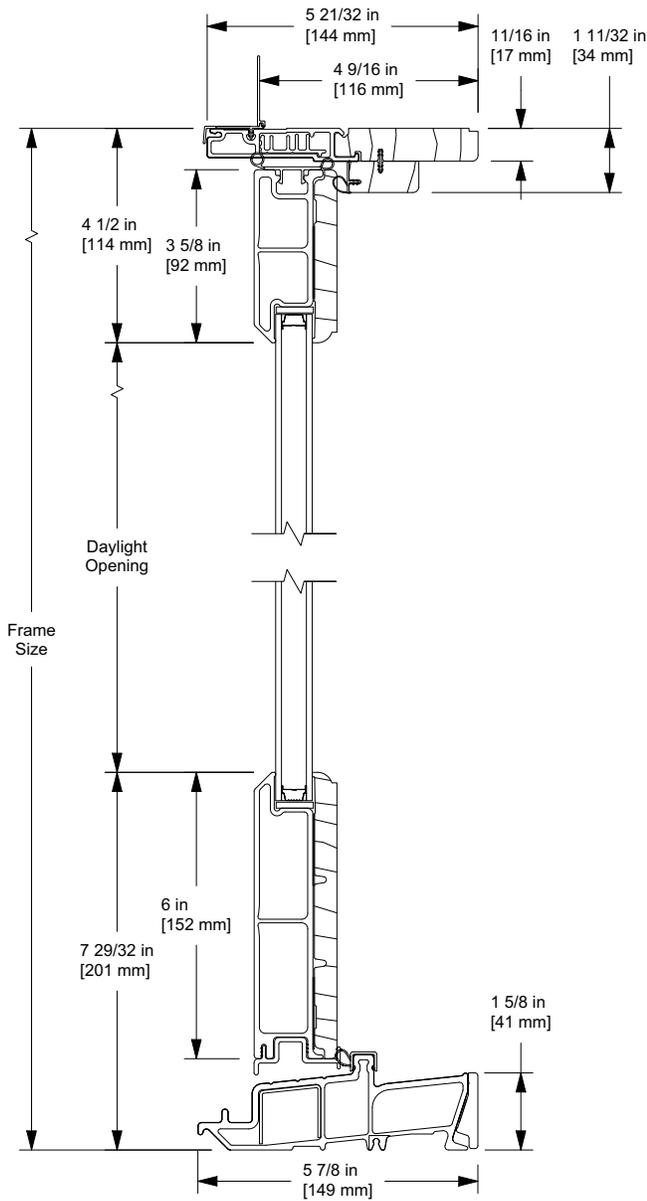
Cottage Lite Cut

Section Details: Divided Lite Patterns*NOTES:*

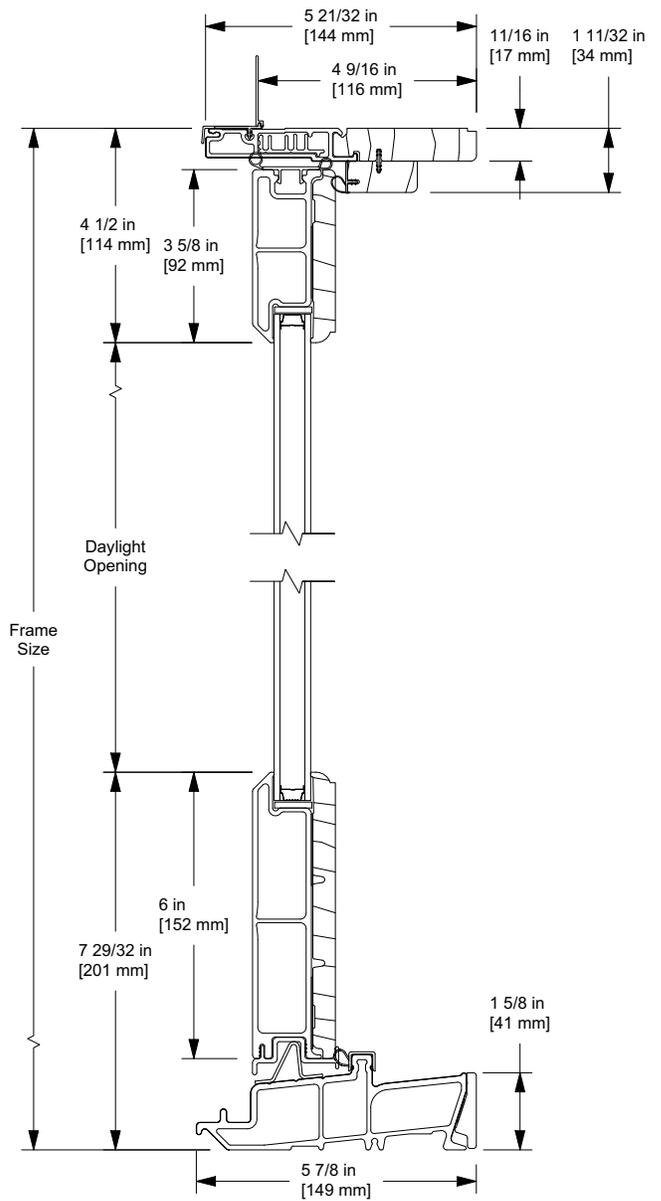
- Due to the inherent qualities of tempered glass, daylight gaps may be seen when using simulated divided lite bars. Daylight gaps could be visible between the internal spacer bar and surface applied bars when viewing from an acute angle to the glass on the following applications:
 - Tempered glass over 91" high while using 7/8" SDL bars.
- 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.
- Rectangular SDL 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 GBG and SDL available in 9 lite and 6 lite top, bottom, left, and right patterns.
- Cottage GBGs and SDL for special sizes units will default to the next smaller standard size lite pattern. Cottage GBGs and SDL are also available in customer selected lite patterns.
- Maximum number of lites wide and high for equal lite SDL option is 11 lites.
- Minimum DLO measurement for equal lite SDL option is 4" (102) and will be validated by OMS.
- Minimum DLO measurement for equal lite GBG option is 3" (76) and will be validated by OMS.
- Standard DLO measurement for Prairie GBG and SDL options is 4" (102). Special DLO corners are n/a.
- Standard DLO height measurement for Cottage SDL option is 10" (254). Minimum DLO height is 8" (203) for one high pattern. Minimum DLO height is 4" (102) for two high pattern.
- Standard DLO height measurement for Cottage GBG option is 10" (254). Minimum DLO height is 3" (76) for both one and two high patterns.
- Simulated Rail: Rectangular, Prairie 6- Lite and 9- Lite SDL patterns are available with Simulated Rail.
- Simulated Rail: Custom ratio and specified DLO are available with Simulated Rail and will be validated by OMS.
- GBGs are not available with an unsupported bar length > 72".

Section Details: Standard - 4 9/16" Jamb - Operator and Stationary

Scale: 3" = 1' 0"



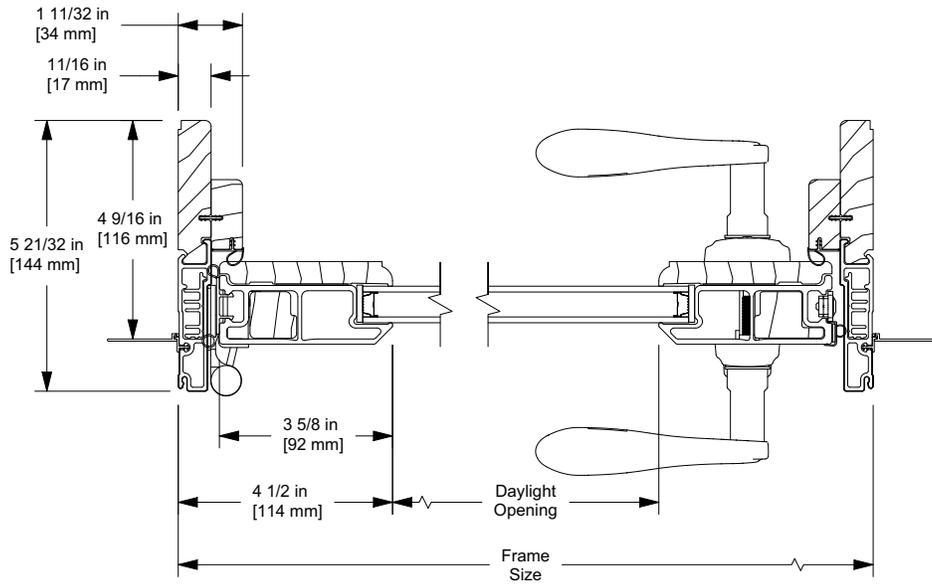
Operator Head and Sill 4 9/16 inch Jamb



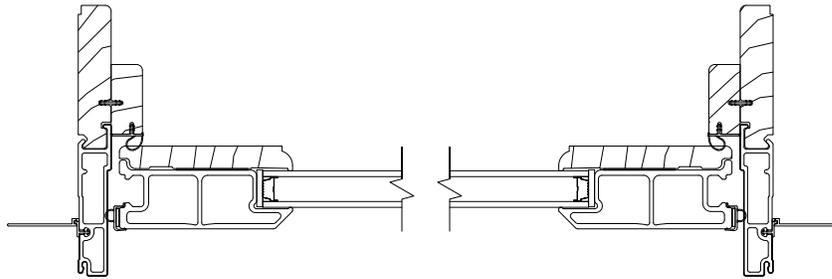
Stationary Head and Sill 4 9/16 inch Jamb

Section Details: Standard - 4 9/16" Jamb (1 Panel)

Scale: 3" = 1' 0"



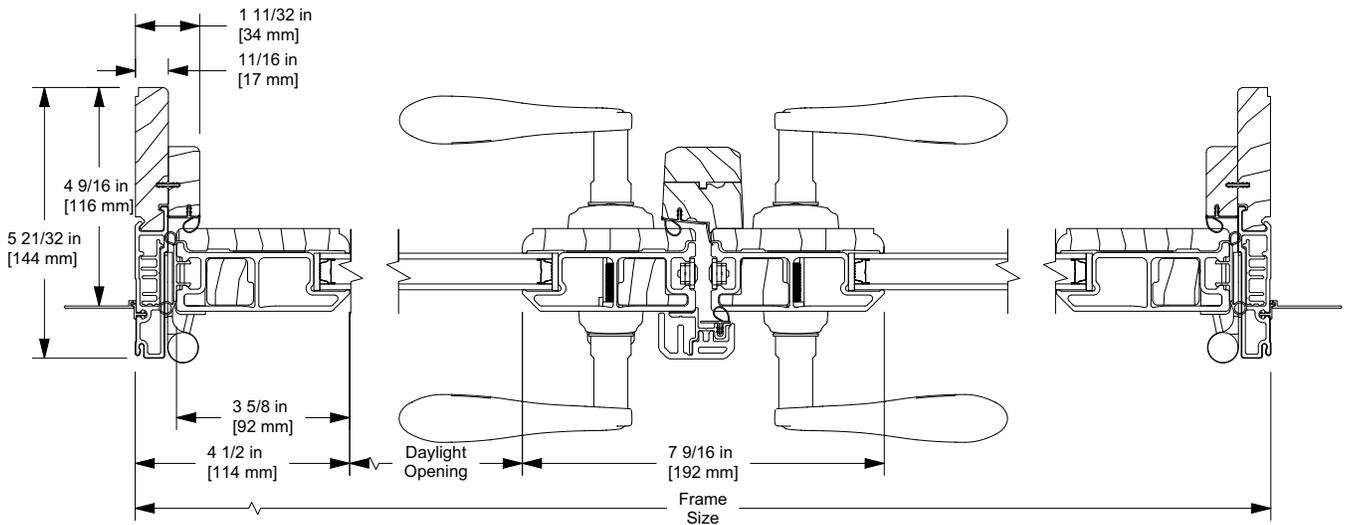
X RH 4 9/16 inch Jamb



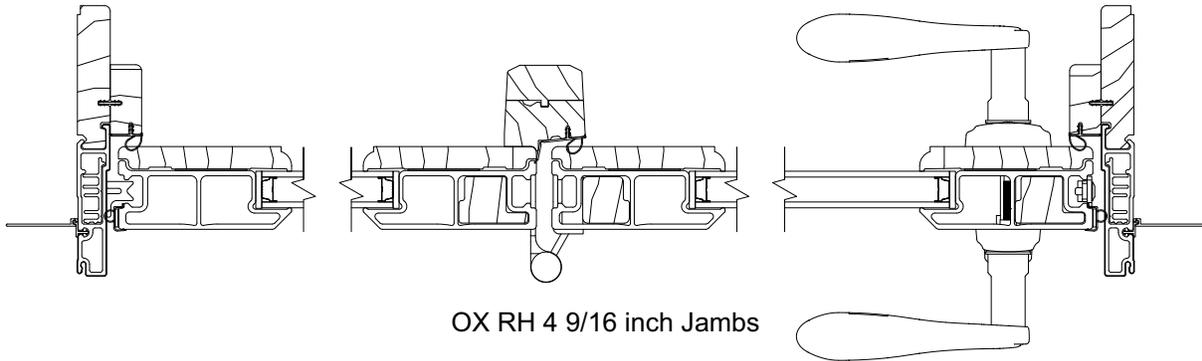
O 4 9/16 inch Jamb

Section Details: Standard - 4 9/16" Jamb (2 Panels)

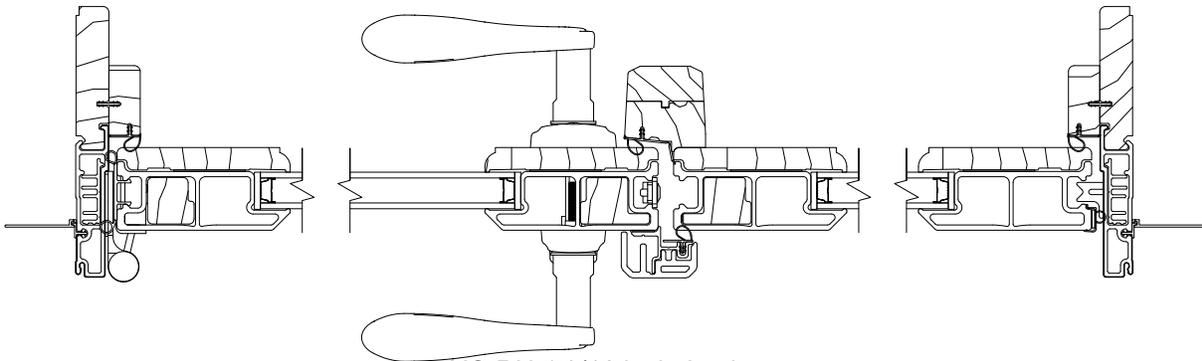
Scale: 3" = 1' 0"



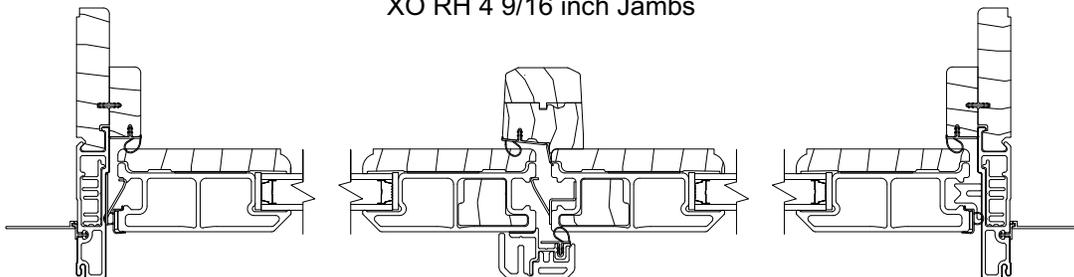
XX RH 4 9/16 inch Jamb



OX RH 4 9/16 inch Jamb



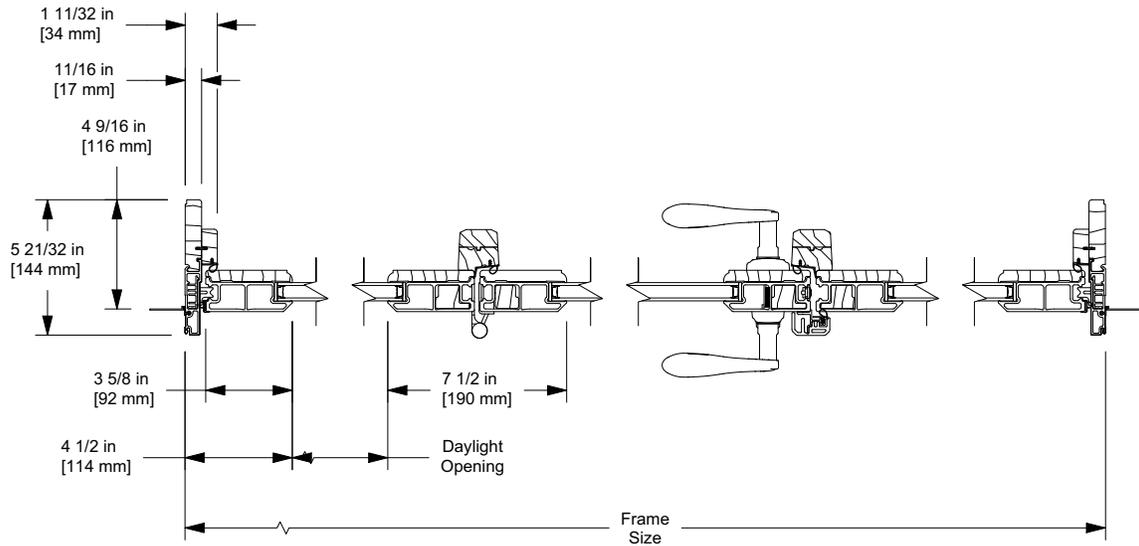
XO RH 4 9/16 inch Jamb



OO 4 9/16 inch Jamb

Section Details: Standard - 4 9/16" Jamb (3 Panels)

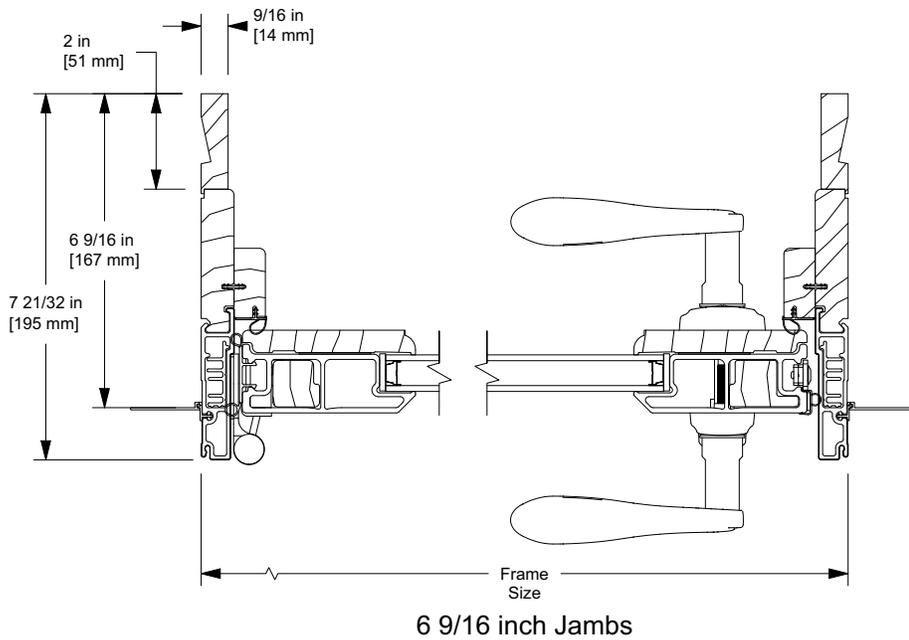
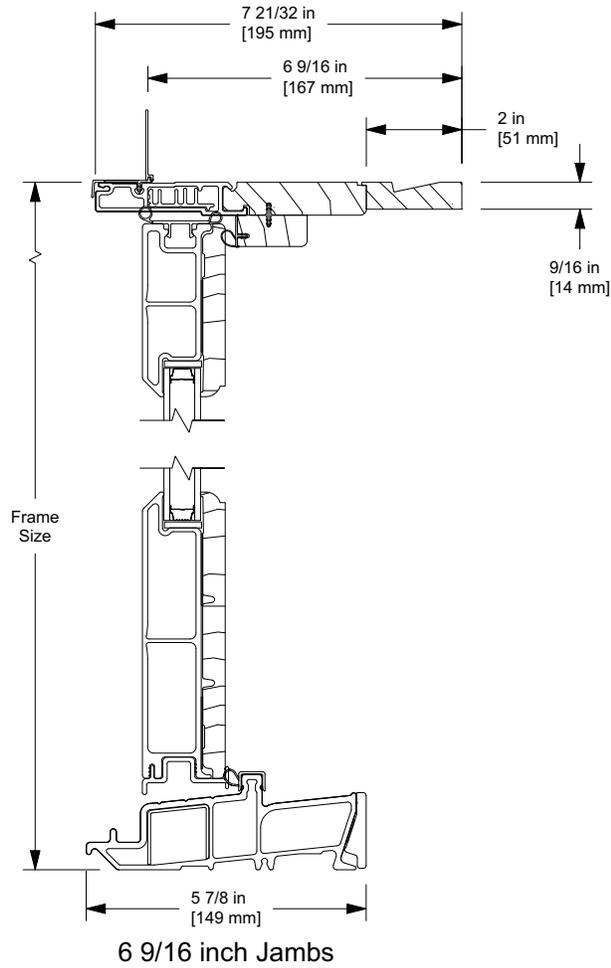
Scale: 3" = 1' 0"



OXO RH 4 9/16 inch Jamb

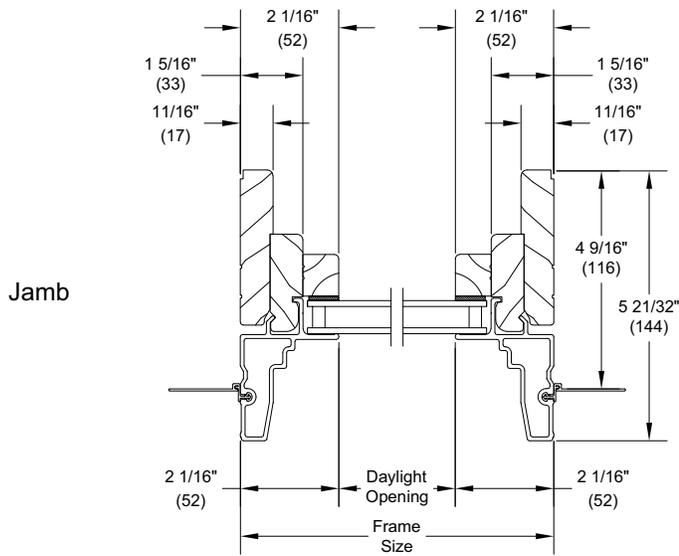
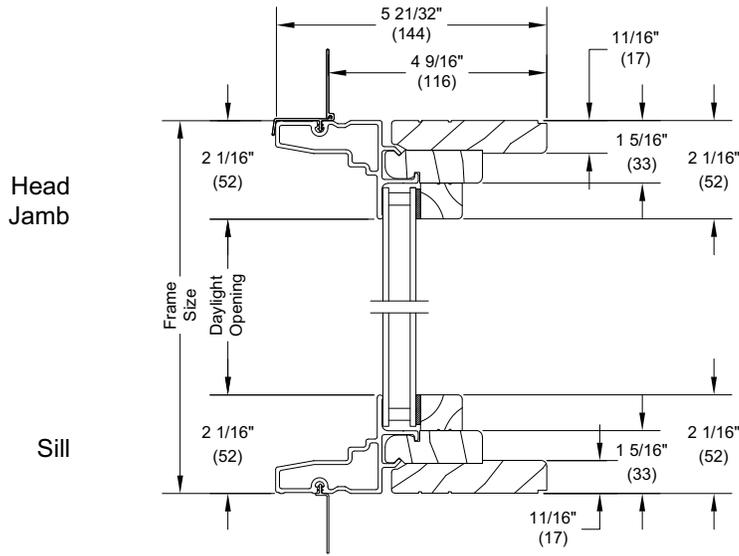
Section Details: Jamb Extension (6 9/16")

Scale: 3" = 1' 0"



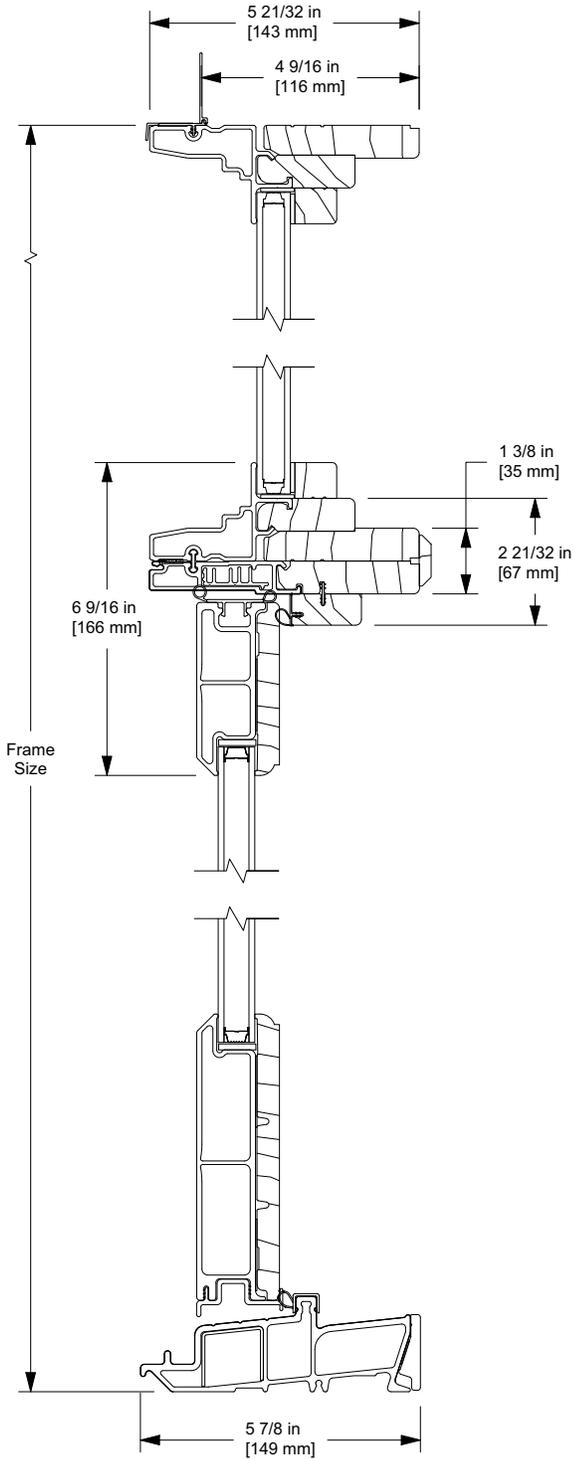
Section Details: Direct Glaze Rectangle - 4 9/16" (Standard)

Scale: 3" = 1' 0"

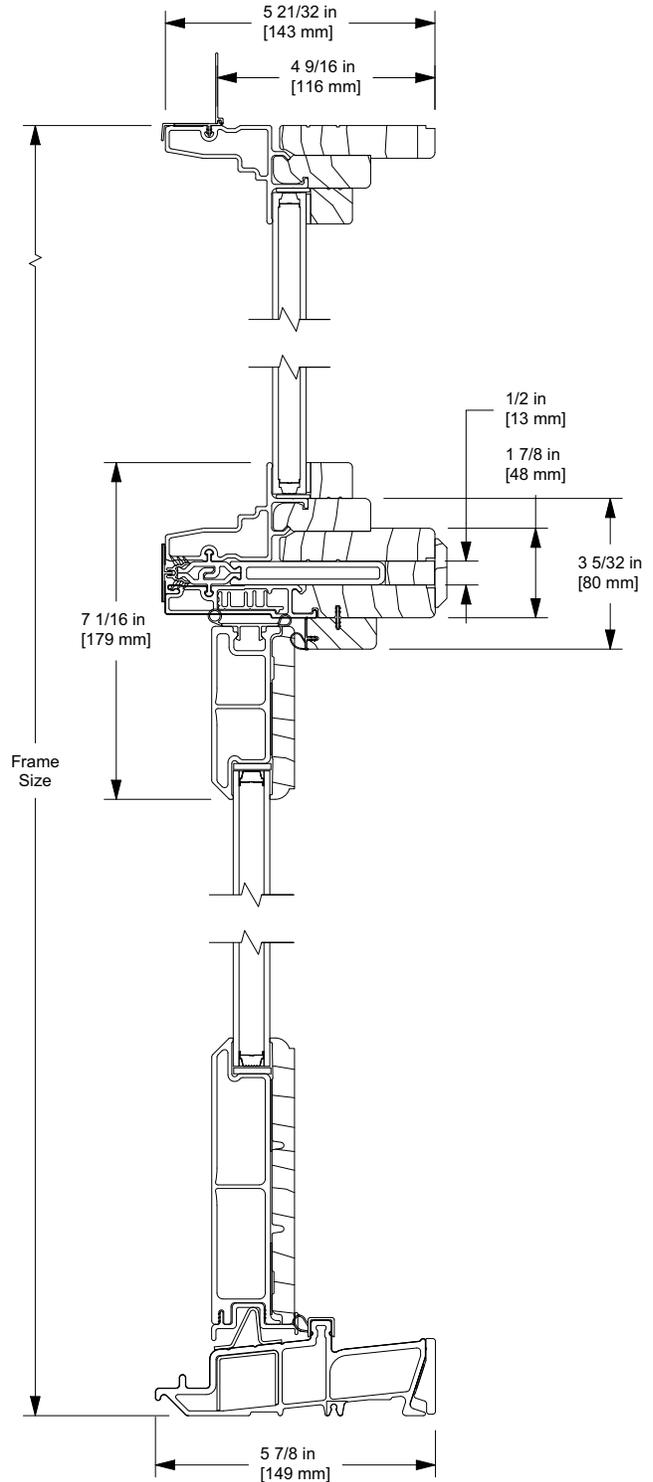


Section Details: Mullions (Horizontal Mull)

Scale: 3" = 1' 0"



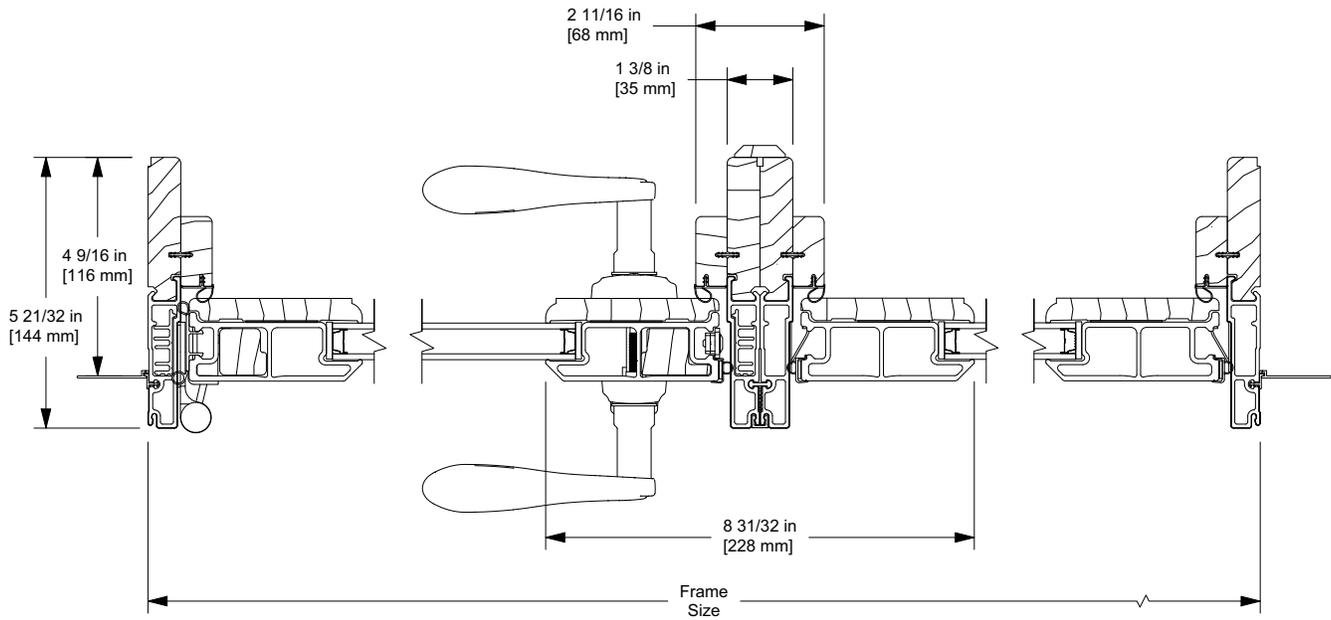
Horizontal Direct Mull



Horizontal 1/2 inch Mull Reinforcement

Section Details: Mullion (Vertical Mull)

Scale: 3" = 1' 0"



Vertical Direct Mull

Section Details: Divided Lite Patterns

Default Rectangular Lite Pattern per Panel - GBG, SDL, SDLS

Standard CN Height	Standard CN Width								
	26	28	30	50	54	60	76	80	90
65	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H
68	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H
70	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H	3W5H
80	3W6H	3W6H	3W6H	3W6H	3W6H	3W6H	3W6H	3W6H	3W6H

Optional Rectangular Lite Pattern per Panel - GBG, SDL, SDLS

Standard CN Height	Standard CN Width								
	26	28	30	50	54	60	76	80	90
65	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H
68	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H
70	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H	2W5H
80	2W6H	2W6H	2W6H	2W6H	2W6H	2W6H	2W6H	2W6H	2W6H

Optional Prairie Lite Pattern per Panel - GBG, SDL, SDLS

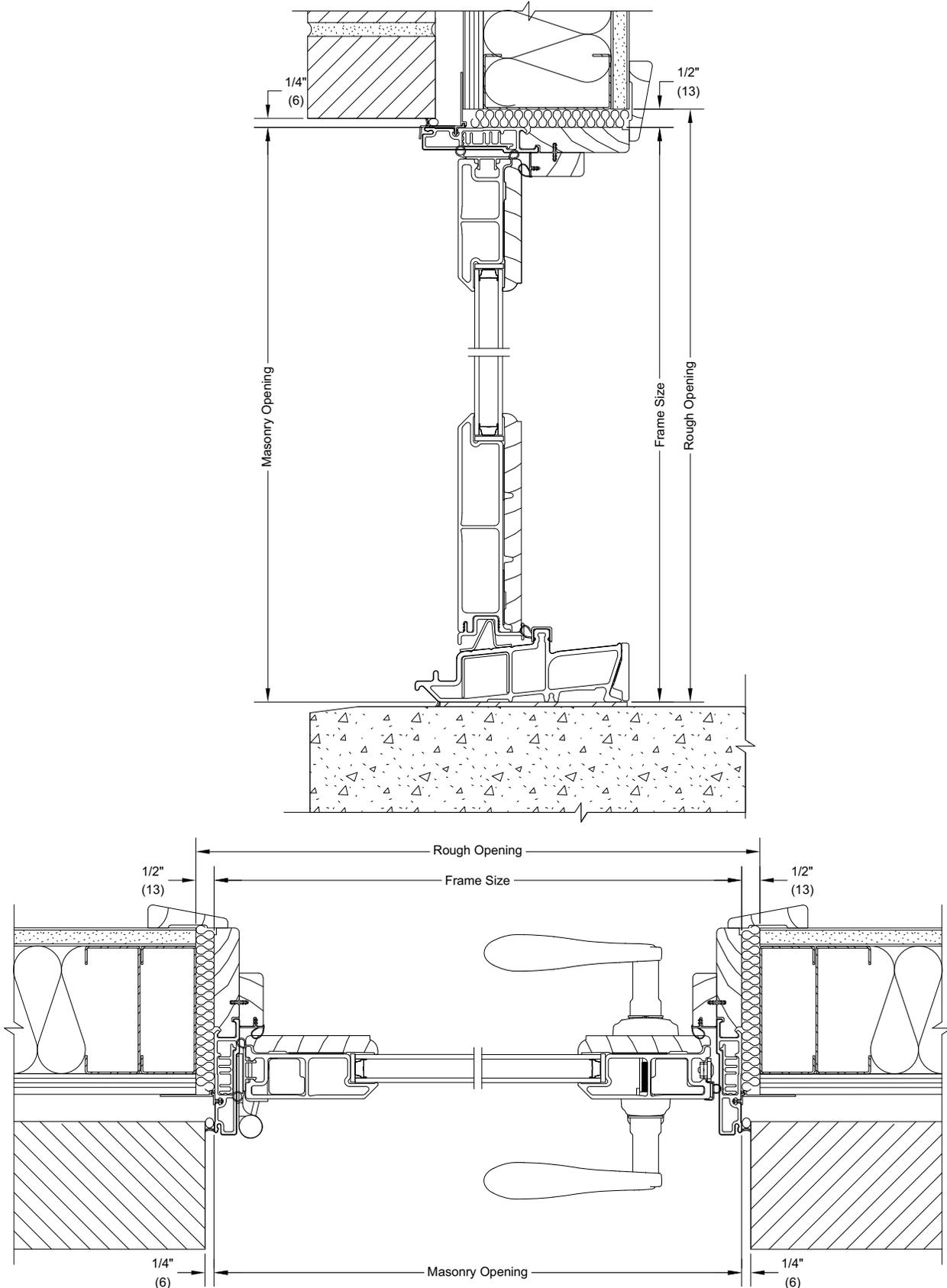
Standard CN Height	Standard CN Width								
	26	28	30	50	54	60	76	80	90
65	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite
68	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite
70	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite
80	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite	9-Lite

NOTE: Prairie Pattern GBG and SDLS are not available for CN80 height.

Optional Cottage Lite Pattern per Panel - SDL, SDLS

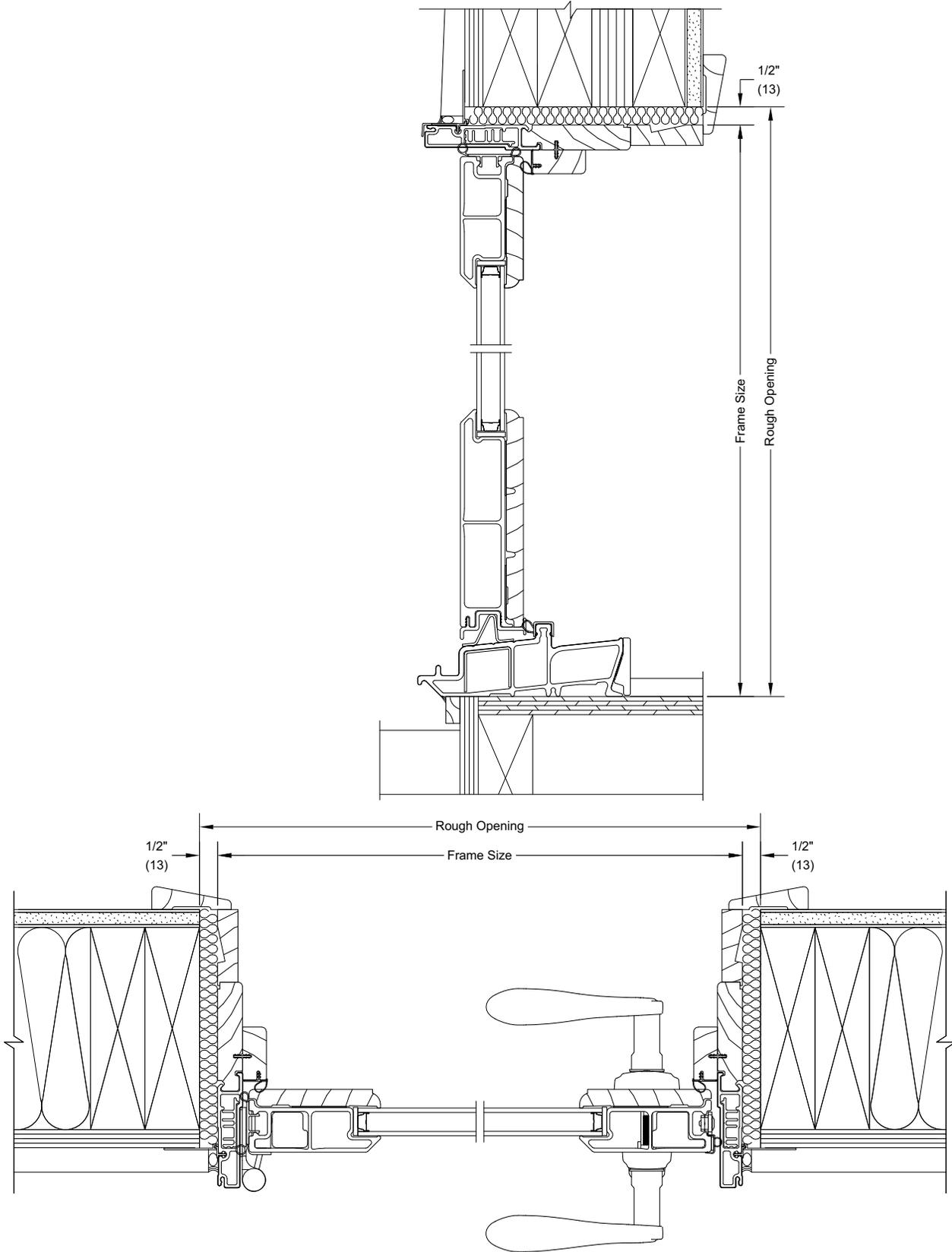
Standard CN Height	Standard CN Width								
	26	28	30	50	54	60	76	80	90
65	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite
68	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite
70	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite
80	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite	4-Lite

Installation Suggestions: Brick Veneer with Steel Frame Construction



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.

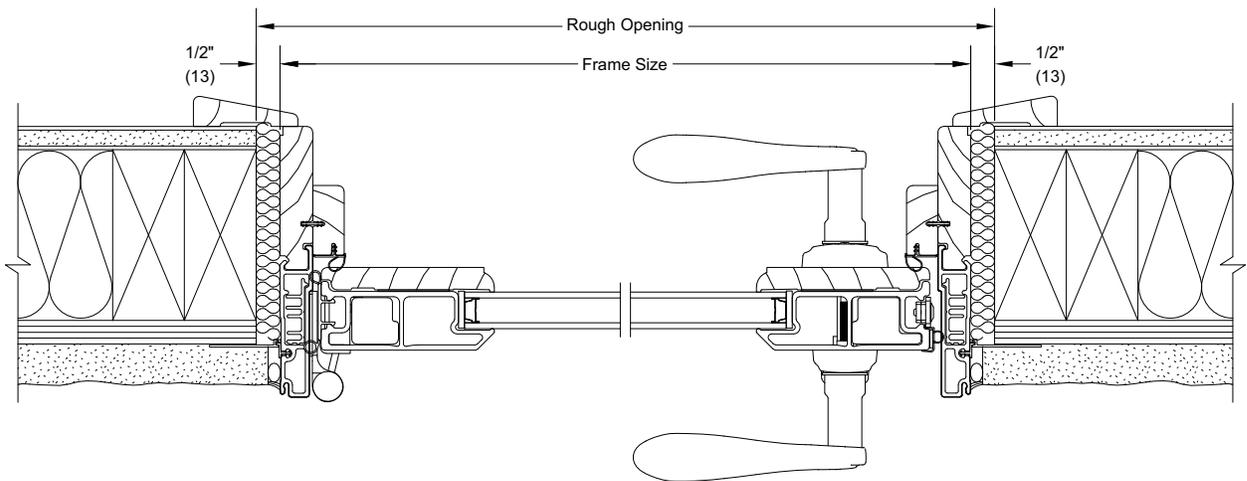
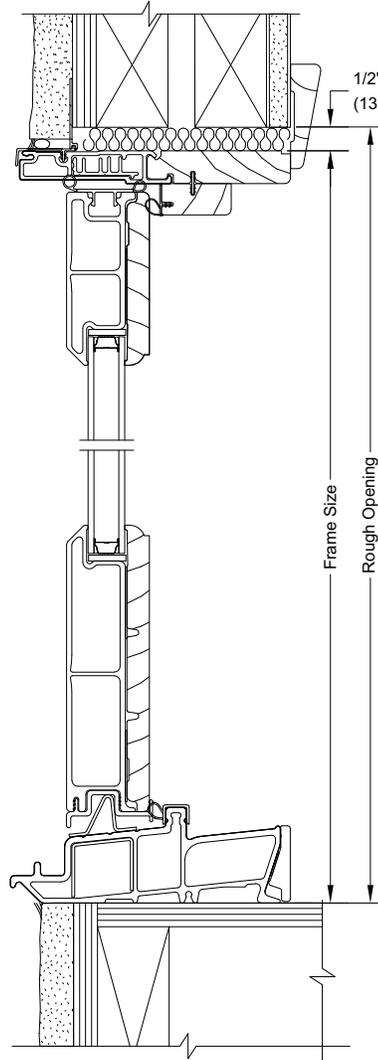
Installation Suggestions: Wood Siding with 2x6 Frame Construction



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: Stucco with 2x4 Frame Construction

Scale: 3" = 1' 0"



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.