

# Elevate Casement Narrow Frame

- Unit Features ..... 1
- Minimum and Maximum Guidelines ..... 3
- Certified Sizes and Rating ..... 4
- Egress Measurement / Egress Formula ..... 5
- Conversions ..... 6
- Measurement Conversions - Field Measurement ..... 7
- Mulling Guidelines ..... 8
- Section Details: Interior Install: Casement ..... 9
- Section Details: Exterior Install: Casement ..... 10
- Section Details: Nailing Fin Install: Casement ..... 11
- Section Details: Interior Install: Awning ..... 12
- Section Details: Exterior Install: Awning ..... 13
- Section Details: Nailing Fin Install: Awning ..... 14
- Section Details: Interior Install: Picture/Transom ..... 15
- Section Details: Exterior Install: Picture/Transom ..... 16
- Section Details: Nailing Fin Install: Picture/Transom ..... 17
- Section Details: Mullion Detail ..... 18
- Section Details: Sill Frame Expander ..... 19
- Section Details: Divided Lite Options ..... 20
- Available Divided Lite Patterns ..... 21



**Unit Features****ELEVATE INSERT CASEMENT COLLECTION:**

Elevate Casement Narrow Frame: ELCANF  
Elevate Awning Narrow Frame: ELAWNNF  
Elevate Casement Insert Transom: ELCANF TR  
Elevate Casement Insert Picture: ELCANF P

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

**Frame and Sash:**

- The frame and sash exteriors are made of Ultrex<sup>®</sup>, an advanced fiber reinforced 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, kiln dried to a moisture content of 6-12% at time of fabrication. Water-repellant, preservative treated.
  - Interior wood is available as Pine bare wood or factory-applied White, Clear, and Designer Black interior finish. Frame and sash color may be selected independently.

**Frame:**

- Composite frame thickness is 1 13/16" (46). Frame Width of 3 1/4" (83). Ultrex is .080" (2) thick. Includes an exterior accessory kerf and snap-in wood sill liner.

**Sash:**

- Composite sash thickness is 1 17/32" (39). Ultrex is 0.070" (2) thick. Sash can be replaced but not reglazed.

**Casement Hardware:**

- Dual arm roto hardware factory installed on casement units. The roto gear hardware is an E-coated, high strength, low alloy steel. IO width less than or equal to 24 3/8" (619) require dyad operators.
- The hinge track is stainless steel, the hinge arm is E-coated high strength, low alloy steel and the hinge shoe is an injection molded with a stainless steel insert.
- Egress hinge is required on units with an I.O. from 26 1/2" (673) to 29 23/64" (746) to meet egress code. This hinge does not allow for cleaning of the exterior of sash from the inside.
- Folding handle with removable snap fit covers are available in Almond Frost, White, or Matte Black finishes.
- Optional Brass, Satin Nickel, and Oil Rubbed Bronze hardware available. Sequential locks are used on all heights, with removable escutcheon and handle.
- Optional coastal hardware is available.
- Optional factory applied Window Opening Control Device is available (min size: 17 27/32" (453) x 24" (610) - max size: 36" (914) x 71 1/8" (1807)). Available in almond frost, white, and Matte Black finishes.
- Optional field or factory applied Sash Limiter - 3" Travel is available (min size 23" (584) x 24" (610) - max size: 36" (914) x 71 1/8" (1807). Custodial and Non-Custodial options available. Units with sash limiters do not meet egress criteria.

**Awning Hardware:**

- Scissors arm roto hardware factory installed on all awning units. The Roto hardware is an E-coated high strength, low alloy steel.
- The hinge track and hinge arms are E-coated high strength, low alloy steel, and injected molded with a stainless steel insert.
- Folding handle with removable snap fit covers are available in Almond Frost, White, or Matte Black finishes.
- Optional Brass, Satin Nickel and Oil Rubbed Bronze hardware available.
- A single point lock on each jamb/stile, with a removable escutcheon handle.
- Optional coastal hardware is available.
- Optional field or factory applied Sash Limiter - 3" Travel is available (min size: 24" (610) x 23" (584) - max size: 48" (1219) x 47 1/8" (1197)). Custodial and Non-Custodial options are available.

**Unit Features Continued****Installation:**

- Through Jamb Install option:
  - Operator: Secure side jambs with minimum of two #8 x 3" pan head screws. Maximum distance between screws not to exceed 25.875". Secure head jamb with two #8 x 3" pan head screws. Maximum distance between screws not to exceed 30.875".
  - Picture: Secure side jambs with minimum of one #8 x 3" pan head screw. Maximum distance between screws not to exceed 20". Secure head jamb with a minimum of one #8 x 3" pan head screw. Maximum distance between screws not to exceed 17.250".
- Nailing Fin Install option: Factory-applied folding nailing fin and drip cap system.
- Factory mullions available up to 4 units wide by 1 unit high, or 1 unit wide by 2 units high. See Mullion Guidelines section for maximum heights and widths.
- Factory supplied field mulling kits are available for standard configurations.

**Glazing:**

- Dual-pane units are manufactured with an 11/16" (17) IG with Low E1, E2, E3, E3/ERS, or no coating including argon gas fill.
- Tempered glass and/or obscure glass, and California Fire glass (annealed exterior and tempered interior glazing configuration) are available as an option.
- The glazing seal is a silicone bedding on the exterior surface and vinyl glazing seal on the interior surface in a one-piece sash.
- 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, rain, reed, narrow reed, frost, and tinted (bronze, gray or green). Decorative glass is not available with Low E1, Low E3/ERS, or STC/OITC.

**Weather Strip:**

- All units are dual weather stripped.
- The primary weather strip is a black extruded PVC foam filled bulb that attaches to all four sides of the frame by a kerf in the Ultrex. It provides a seal between the wood and the sash and the frame Ultrex.
- The secondary weather strip is a black extruded PVC hollow that is attached to the sash and provides a seal between the sash Ultrex and frame Ultrex.

**Insect Screen:**

- Screen Frame: Aluminum Screen Frame. Option: None
- Screen Mesh: Marvin BrightView™, Options: None.
- Optional interior wood veneer screen available in Almond Frost only.
- Spring loaded pins for installation.

**Interior / Exterior Simulated Divided Lites (SDL/SDLS):**

- Interior bar: 7/8", (22) wide bars. Pine bare wood, or white, clear, or designer black interior finishes.
- Exterior bar: Ultrex, 7/8", (22) wide bars, finish to match exterior.
- Patterns available: rectangle, 6 or 9 lite Prairie cut or Cottage style cut.
- Simulated check rail option: 2 11/32", (60).
- Pattern available: simulated rail in standard center or customer specified location with 7/8", (22) pattern above, below or both in pattern of rectangular equal lite or prairie lite cut.
- SDL not available on rain, reed or narrow reed decorative glass. Glue chip requires tempered glass for SDL application.
- Available on tinted glass without spacer bar.

**Grilles-Between-The-Glass (GBG):**

- 23/32" (18) contoured aluminum bar placed between two panes of glass
- Patterns: Rectangular, 6 or 9 lite Prairie cut, or Cottage style
- Exterior colors: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony
- Interior colors: Stone White, Bronze, or Ebony (matches unit interior color)
- GBG is not available with tinted glass.

**Minimum and Maximum Guidelines**

Unit Type	Min IO Width		Min IO Height		Max IO Width		Max IO Height		Glass Size	
	in	mm	in	mm	in	mm	in	mm	Sq. Feet	Sq. Meters
ELCANF	16 3/8	(416)	24 1/4	(616)	36 3/8	(924)	71 3/8	(1813)	14 25/32	1.374
ELAWNNF	24 3/8	(619)	19 3/8	(492)	48 3/8	(1229)	47 3/8	(1203)	13 1/16	1.214
ELCANF TR	16 3/8	(416)	16	(406)	72 3/8	(1838)	19 3/8	(492)	7 1/32	0.654
ELCANF P	16 3/8	(416)	16	(406)	72 3/8	(1838)	59 3/8	(1508)	25 7/8	2.238
ELCANF P	16 3/8	(416)	16	(406)	56 3/8	(1432)	71 3/8	(1813)	24 5/64	2.404

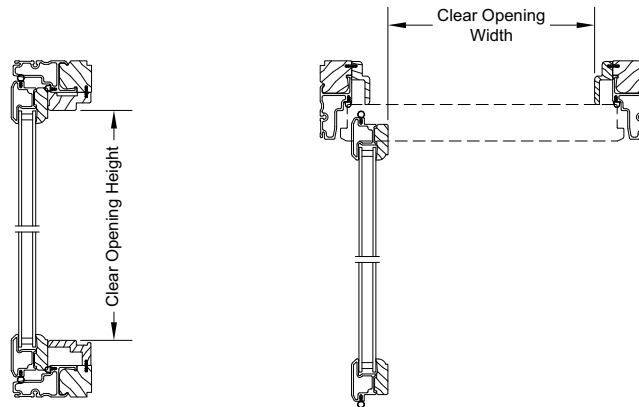
*NOTE: Special sizes are available in 1/64" (40) increments, not to exceed the frame size measurement maximum or minimum in the table above.*

**Certified Sizes and Rating**

Product	Air Tested to psf	Water Tested to psf	Certification Rating	Design Pressure (DP)	Max Overall Width		Max Overall Height	
					in	mm	in	mm
ELCANF	1.56	7.52	LC-PG50-C	50	36	(914)	71 1/8	(1807)
ELAWNNF	1.56	7.52	LC-PG50-AP	50	48	(1219)	47 1/8	(1197)
ELCANF P / ELCANF TR	1.56	7.52	LC-PG50-AP	50	72	(1829)	59 1/8	(1502)
ELCANF P / ELCANF TR	1.56	7.52	LC-PG50-AP	50	56	(1422)	71 1/8	(1807)

**Egress Measurement / Egress Formula**

Elevate Casement Narrow Frame Egress Unit Minimum Opening Conversion From Frame Size		
Minimum Value for Net Clear Opening	Desired Dimension	Formula
20 Inches	Egress Opening Width, Standard Hinge (Inches)	= Frame OM Width – 8.758
20 Inches	Egress Opening Width, Egress Hinge (Inches)	= Frame OM Width – 6.125
24 Inches	Egress Opening Height (Inches)	= Frame OM Height – 4.400
5.7 Square Feet	Egress Opening Area (SQFT)	= (Egress Width x Egress Height) / 144



**Conversions**

<b>Elevate Casement Narrow Frame, Awning Narrow Frame, Transom, and Picture</b>					
Unit Measurements		Width		Height	
From	To				
<b>Daylight Opening</b>		<b>in</b>	<b>mm</b>	<b>in</b>	<b>mm</b>
Daylight Opening	Sash OM	+ 3 17/32	(90)	+ 3 17/32	(90)
Daylight Opening	Glass OM	+ 1 1/32	(26)	+ 1 1/32	(26)
Daylight Opening	Aluminum Screen OM	+ 1 5/8	(41)	+ 1 15/64	(31)
Daylight Opening	Wood Veneer Screen OM	+ 1 37/64	(40)	+ 1 3/16	(30)
<b>Inside Opening</b>		<b>in</b>	<b>mm</b>	<b>in</b>	<b>mm</b>
Inside Opening	Sash OM	-2 1/16	(52)	-1 15/16	(49)
Inside Opening	Daylight Opening	-5 19/32	(142)	-5 15/32	(139)
Inside Opening	Glass OM	-4 9/16	(116)	-4 7/16	(113)
Inside Opening	Aluminum Screen OM	-3 31/32	(101)	-4 15/64	(108)
Inside Opening	Wood Veneer Screen OM	-4 1/64	(102)	-4 9/32	(109)
Inside Opening	Frame OM	-3/8	(10)	-1/4	(06)



**Measurement Conversions - Field Measurement**

Conversion from Field Measurement to Frame OM		
Width		
Condition	Formula	
If blind stop width is 1/2 inch or less	ELCANF frame OM width = inside opening width - 0.375 (10)	
Height		
Condition	Type of Sill	Formula
If old sill angle is less than 8°	0 degree bottom sill	ELCANF frame OM height = inside opening height - 0.250 (6)

**Mulling Guidelines**

Multiple assemblies can be factory mullered up to 4 units wide by 1 unit high

**MAXIMUM INSIDE OPENING** not to exceed 112" (2845) x 71 1/8" (1742)

Multiple assemblies can be factory mullered up to 1 unit wide by 2 units high

**MAXIMUM INSIDE OPENING** not to exceed 72" (1829) x 94 1/4" (2394):

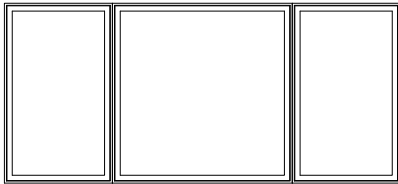
*NOTE: Field mulling beyond the above limitations is not recommended*

**CALCULATING TOTAL INSIDE OPENING FOR ASSEMBLIES**

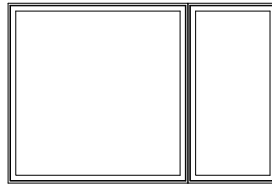
**WIDTH: ADD Frame Widths + 3/8" (10)**

**HEIGHT: ADD Frame Heights + 1/4" (6)**

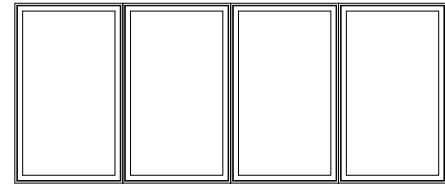
Tolerance = 3/16" (10) from Frame to Inside Opening at left and right jamb.



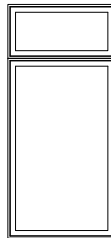
3 Units Wide 1 Unit High



2 Units Wide 1 Unit High



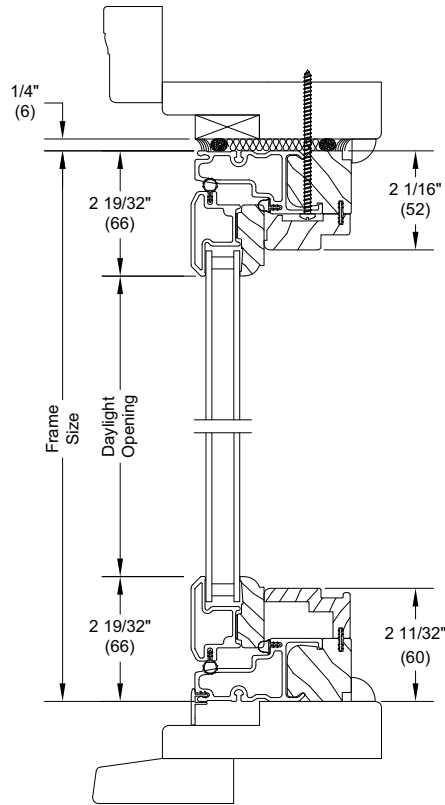
4 Units Wide 1 Unit High



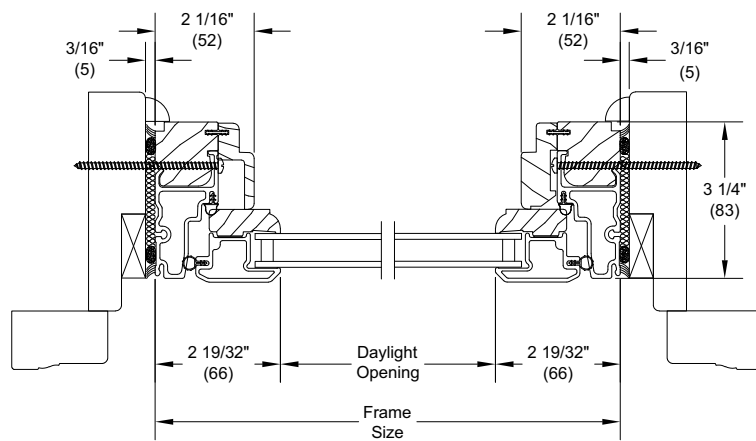
1 Unit Wide 2 Units High

**Section Details: Interior Install: Casement**

Scale: 3" = 1' 0"



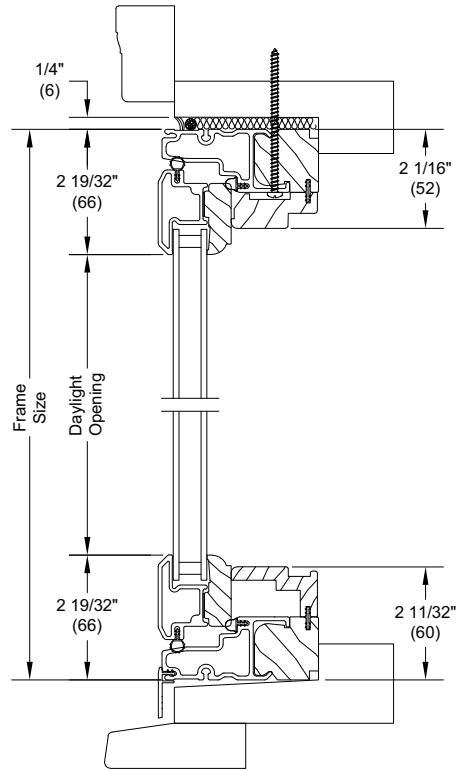
**Head Jamb and Sill  
Installed in Existing Frame  
Interior Install**



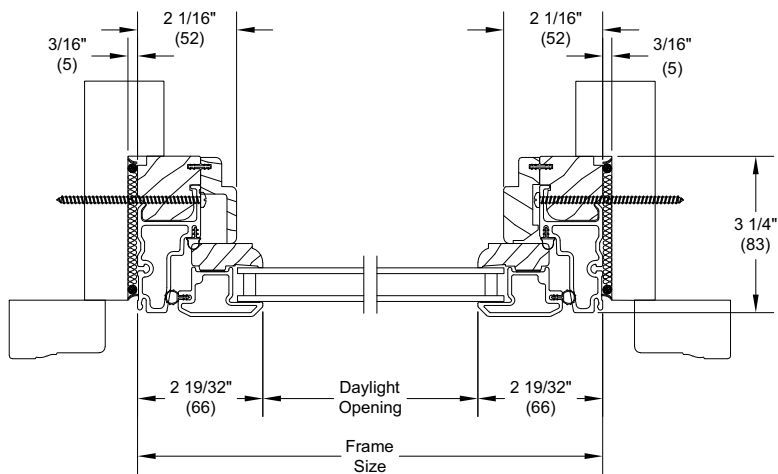
**Jamb  
Installed in Existing Frame  
Interior Install**

**Section Details: Exterior Install: Casement**

Scale: 3" = 1' 0"



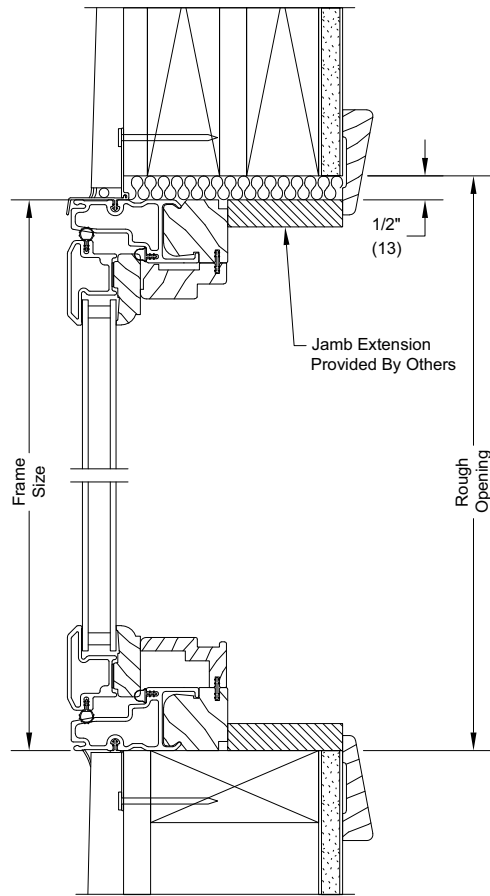
**Head Jamb and Sill  
Installed in Existing Frame  
Exterior Install**



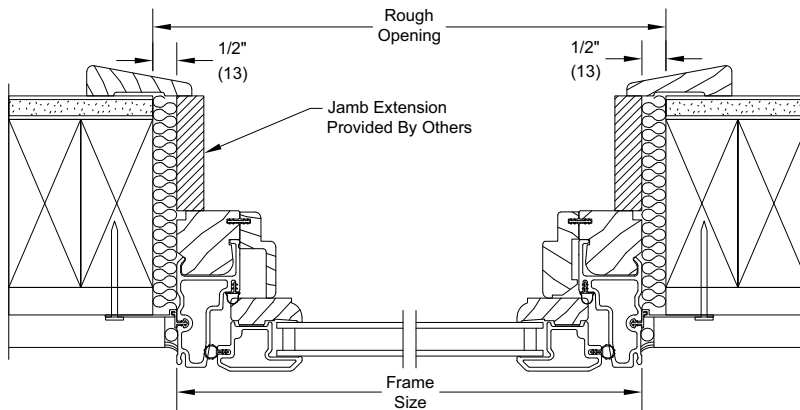
**Jamb  
Installed in Existing Frame  
Exterior Install**

**Section Details: Nailing Fin Install: Casement**

Scale: 3" = 1' 0"



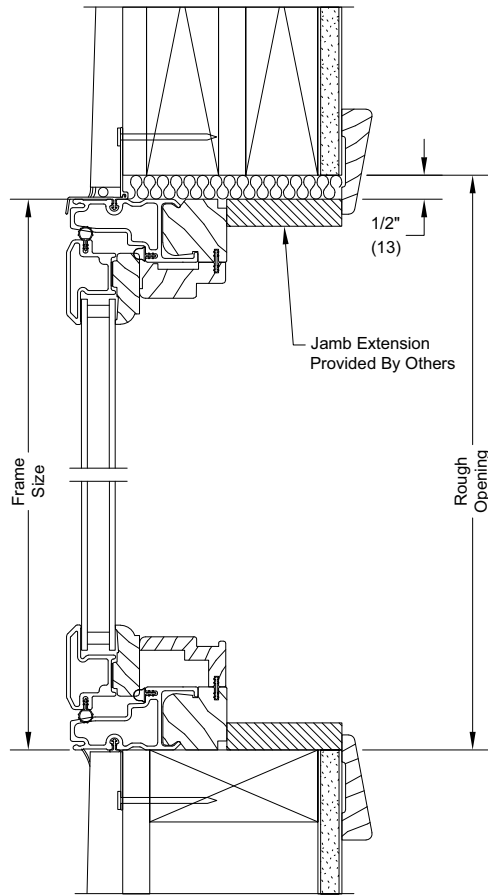
**Head Jamb and Sill  
Nailing Fin Install**



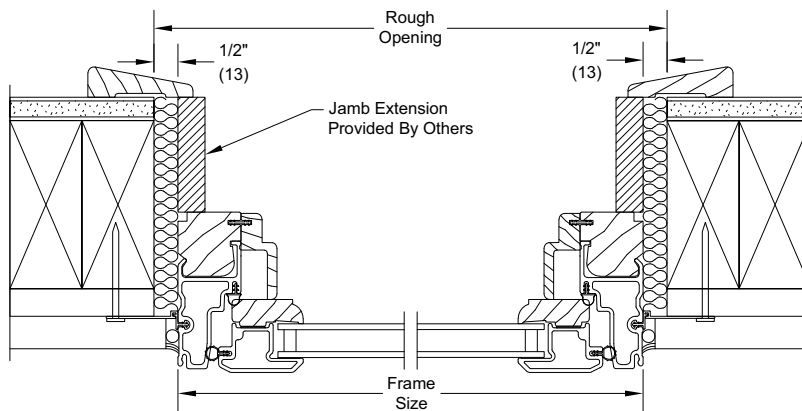
**Jamb  
Nailing Fin Install**

**Section Details: Interior Install: Awning**

Scale: 3" = 1' 0"



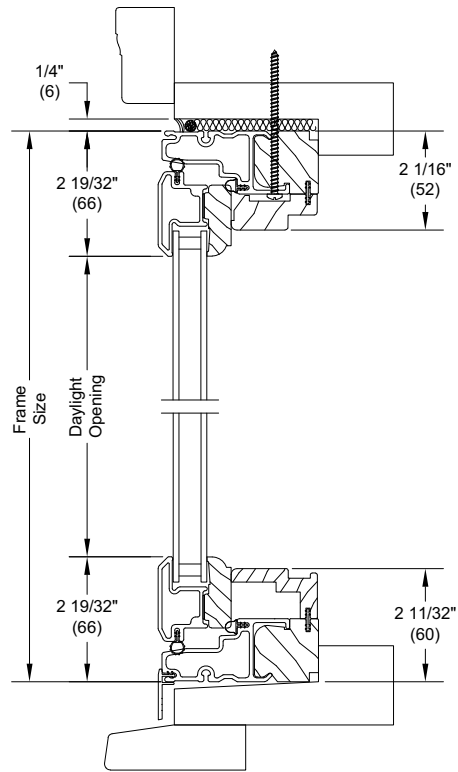
**Head Jamb and Sill  
Nailing Fin Install**



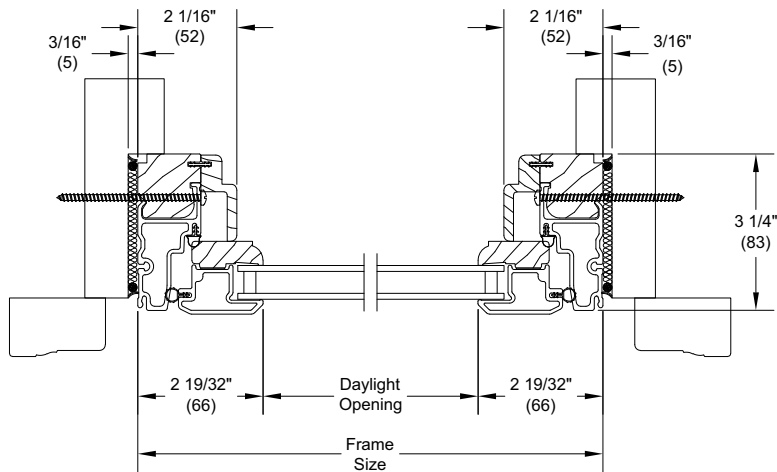
**Jamb  
Nailing Fin Install**

**Section Details: Exterior Install: Awning**

Scale: 3" = 1' 0"



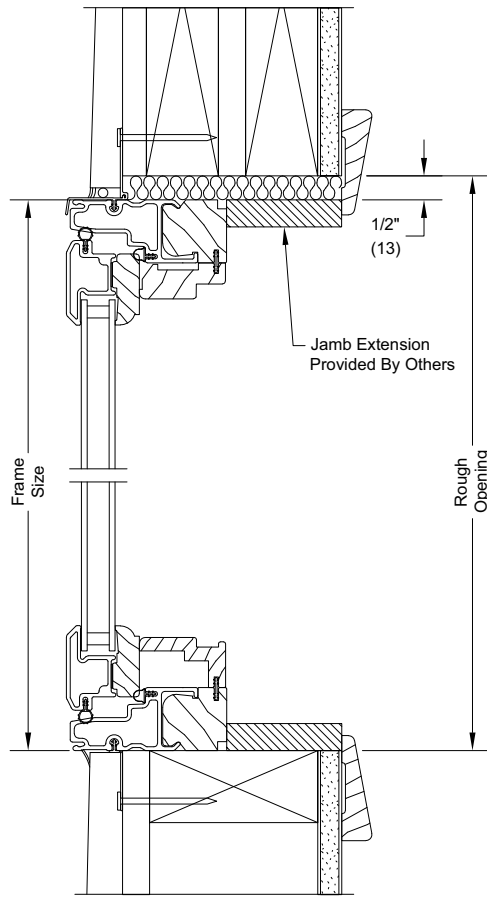
**Head Jamb and Sill  
Installed in Existing Frame  
Exterior Install**



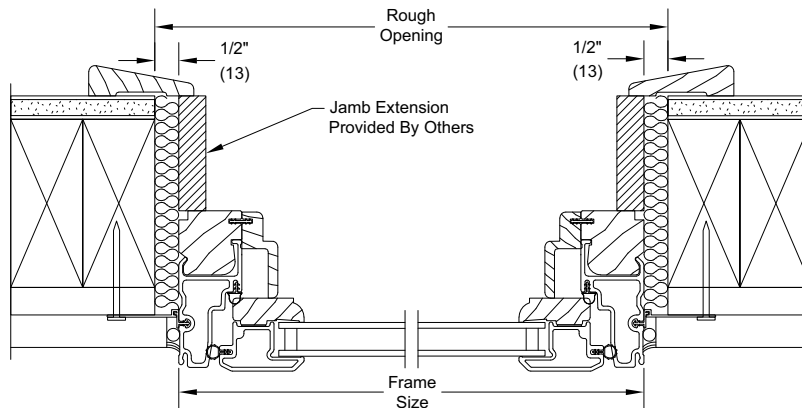
**Jamb  
Installed in Existing Frame  
Exterior Install**

**Section Details: Nailing Fin Install: Awning**

Scale: 3" = 1' 0"



**Head Jamb and Sill  
Nailing Fin Install**

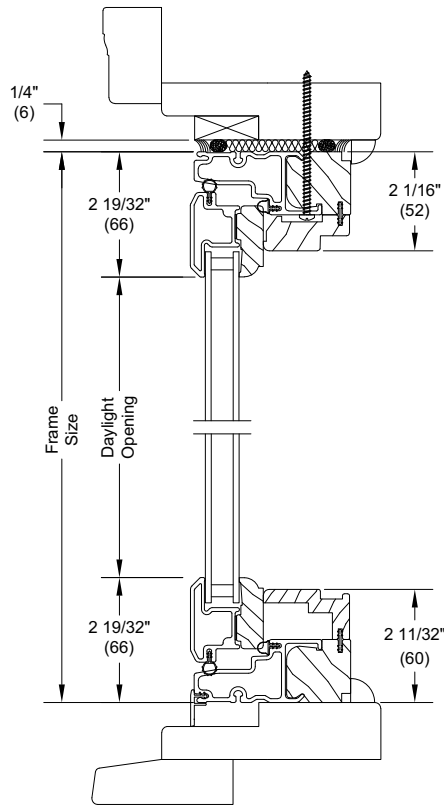


**Jamb  
Nailing Fin Install**

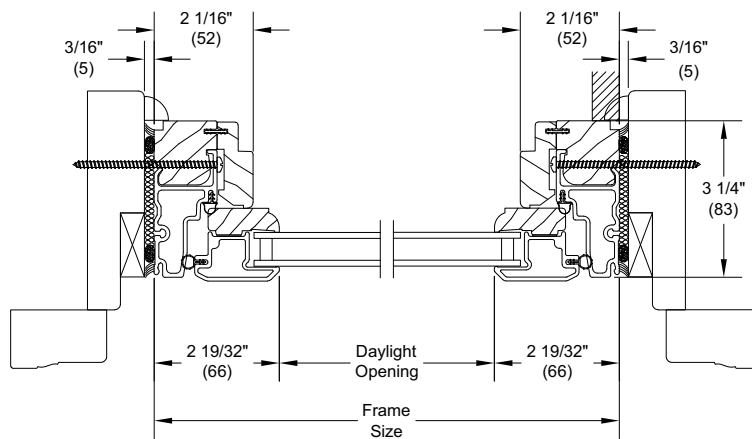


**Section Details: Interior Install: Picture/Transom**

Scale: 3" = 1' 0"



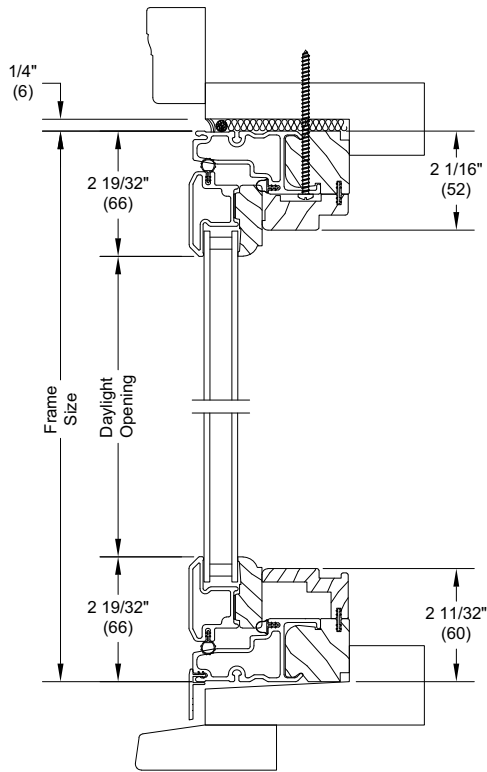
**Head Jamb and Sill  
Installed in Existing Frame  
Interior Install**



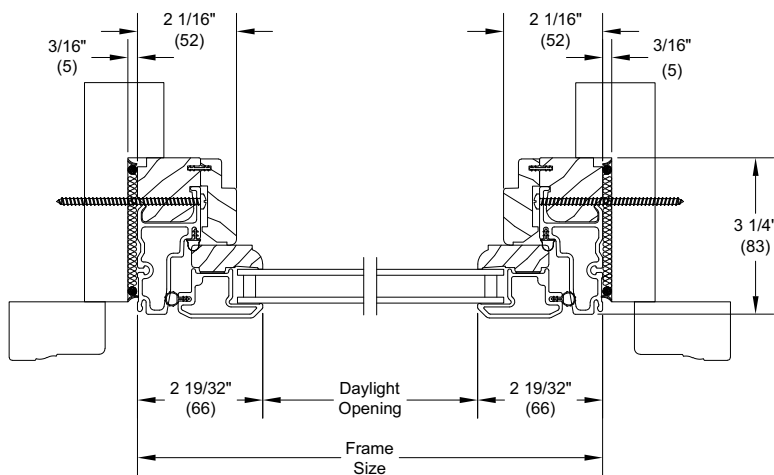
**Jamb  
Installed in Existing Frame  
Interior Install**

**Section Details: Exterior Install: Picture/Transom**

Scale: 3" = 1' 0"



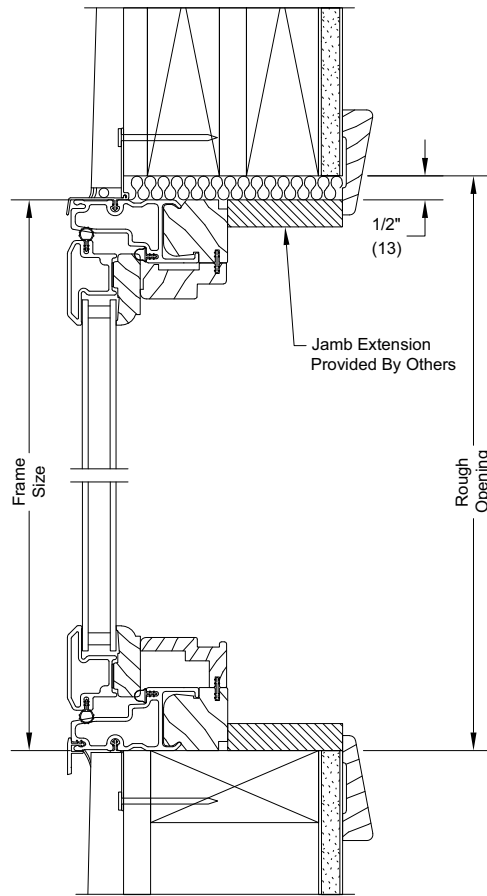
**Head Jamb and Sill  
Installed in Existing Frame  
Exterior Install**



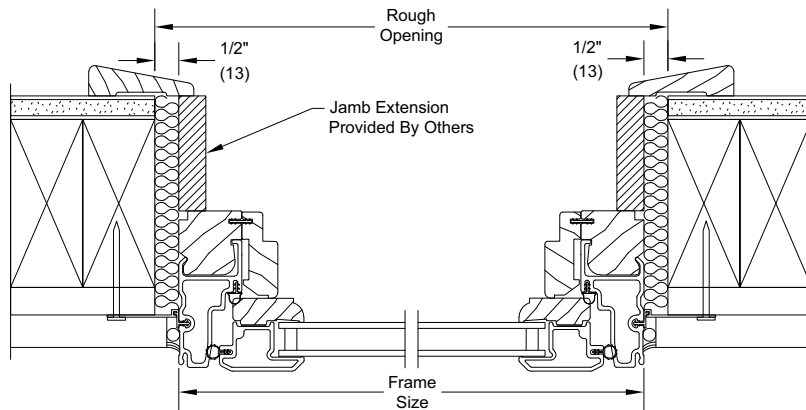
**Jamb  
Installed in Existing Frame  
Exterior Install**

**Section Details: Nailing Fin Install: Picture/Transom**

Scale: 3" = 1' 0"



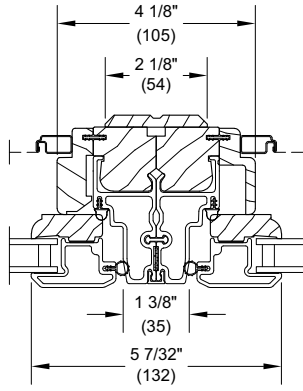
**Head Jamb and Sill  
Nailing Fin Install**



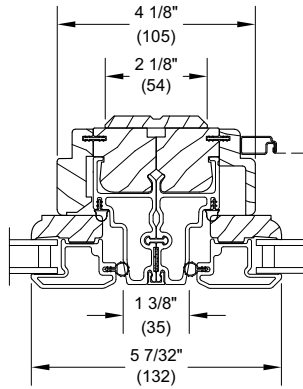
**Jamb  
Nailing Fin Install**

**Section Details: Mullion Detail**

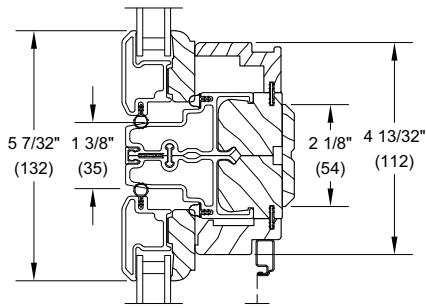
Scale: 3" = 1' 0"



Operator/Operator



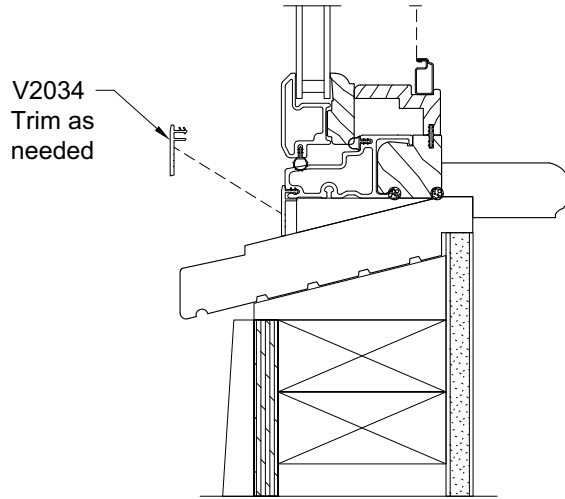
Picture/Operator



Transom/Operator

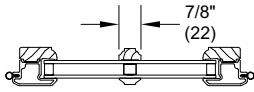
**Section Details: Sill Frame Expander**

Scale: 3" = 1' 0"

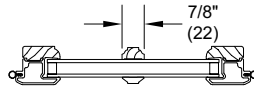


Sill Frame Expander

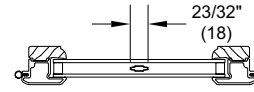
**Section Details: Divided Lite Options**



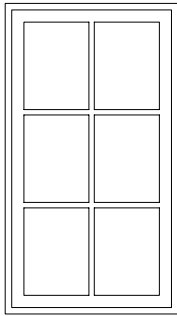
Wood SDL With Spacer Bar



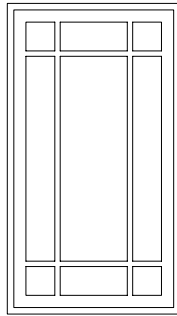
Wood SDL Without Spacer Bar



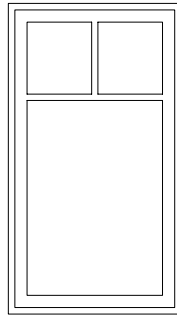
Aluminum Grille Between Glass  
GBG



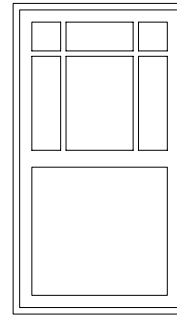
**Rectangle GBG  
or SDL**



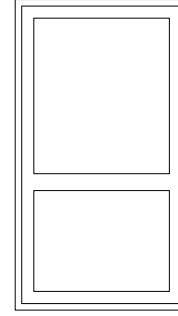
**Prairie  
GBG or SDL**



**Cottage  
GBG or SDL**



**Prairie SDL  
w/ Simulated  
Check Rail**



**Custom  
Simulated  
Check Rail**

**Conversions Formula:**

$$\frac{\text{Total DLO} - \text{Total Bar Width}}{\text{Number of lites}} = \text{Individual DLO}$$

**NOTES:**

- Rectangle GBGs for special size units will default to the next smaller standard size lite pattern. Also available will be Prairie pattern 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 GBGs and SDL are not available in lite patterns other than the Prairie patterns listed in the following pages
- Cottage SDL for special sizes will default to the next smaller standard size lite pattern. Cottage SDL is not available in lite patterns other than the Cottage patterns listed in the following pages.
- Maximum number of lites wide and high for equal lite SDL is 11 lites.
- Minimum DLO measurement for equal lite GBG and SDL option is 3" (76) and will be validated by OMS.
- Standard DLO measurement for Prairie GBG and SDL option is 4" (102) Special DLO corners are n/a.
- Standard DLO height measurement for Cottage SDL option is 10" (254). Special DLO heights are n/a.
- 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.

Available Divided Lite Patterns

Casement Narrow Frame SDL, GBG, Equal Lite Cut						
Product	Width			Height		
	Frame Width		Lite Cut Pattern	Frame Height		Lite Cut Pattern
	in	mm		in	mm	
ELCANF	16	(406)	2W	24	(610)	2H
	28	(711)	3W	39 1/8	(994)	3H
	36	(914)	3W	55 1/8	(1400)	4H
	NA	NA	NA	63 1/8	(1603)	5H
	NA	NA	NA	71 1/8	(1807)	5H
ELAWNNF	24	(610)	2W	19 1/8	(486)	2H
	28	(711)	3W	39 1/8	(994)	3H
	48	(1219)	4W	47 1/8	(1197)	3H
ELCANF P / ELCANF TR	16	(406)	2W / 1W	15 3/4	(400)	1H
	20	(508)	2W	19 1/8	(486)	2H
	28	(711)	3W	39 1/8	(994)	3H
	40	(1016)	4W	55 1/8	(1400)	4H
	56	(1422)	5W	63 1/8	(1603)	5H
	72	(1829)	7W	71 1/8	(1807)	5H

NOTE: When frame width or height are between two sizes, refer to the smaller size shown for the default lite cut pattern.