

Integrity Wood-Ultrex Casement / Awning

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Wood-Ultrex Casement / Awning

Unit Features

Integrity Wood-Ultrex Casement: ICA

Integrity Wood-Ultrex Awning: IAWN

Integrity Wood-Ultrex Casement Picture: ICAP

Integrity Wood-Ultrex Casement Transom: ICATR

Frame and Sash:

- The frame and sash exteriors are made of Ultrex® meets all the requirements of AAMA 624-10.
- Exterior colors: Stone White, Pebble Gray, an advanced fiber reinforced material that is resistant to thermal conductance. Ultrex patented coating system, Bronze, Evergreen, Cashmere, or Ebony.
- The interior is non finger-jointed pine, kiln dried to a moisture content of 6-12% at time of fabrication. Water-repellent, preservative treated in accordance with WDMA I.S.4.
- Interior wood is available as Pine bare wood or factory applied white, clear, or designer black interior finishes.

Frame:

- Composite frame thickness is 1 5/16" (33). Frame width is 4 9/16" (116). 4/4 non finger-jointed pine interior stop is applied to all units. Ultrex frame is .080" (2) thick.

Sash:

- Composite sash thickness is 1 9/16" (40) with standard glass. Tripane sash are 1 31/32" (50) thick. Sash is .070" (2) thick.

Jamb Extension:

- 6 9/16" (167) and 6 13/16" (173) jamb extension available factory applied or in lineal lengths for field application.

Casement Hardware:

- Dual arm roto hardware factory installed on casement units
 - Roto gear hardware is an E-coated, high strength, low alloy steel
 - Call number 17 and 21 widths up to RO 25" (635) require dyad operators.
- The hinge track is stainless steel
 - hinge arm is E-coated high strength, low alloy steel
 - hinge shoe is injection molded with a stainless steel insert.
- Egress hinge is required on units with an R.O. from 27.125" to 29.984" including CN 29 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 or White color finish.
 - Optional Brass, Satin Nickel, Oil Rubbed Bronze, and Matte Black 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 31 1/8" (791) - max size: 36" (914) x 71 1/8" (1807))
 - Available in almond frost, white, and matte black finishes.

Awning Hardware:

- Scissors arm roto hardware factory installed on all awning units.
 - Roto hardware is an E-coated high strength, low alloy steel.
- The hinge track is stainless steel
 - hinge arm is E-coated high strength, low alloy steel
 - hinge shoe is injection molded with a stainless steel insert.
- Folding handle with removable snap fit covers are available in Almond Frost, White, or Matte Black color finish.
 - Optional Brass, Satin Nickel, and Oil Rubbed Bronze hardware available.
- A single point lock on each jamb/stile, with a removable escutcheon and handle
 - Optional coastal hardware is available
- Optional factory installed or field applied stainless steel sash limiter is available

Installation:

- Factory applied folding nailing fin and drip cap system
 - Optional installation brackets for masonry available
 - Optional through jamb installation method on non-impact units only
- Factory mullions available up to 4W or 113" (2870) not to exceed 71 5/8" (1819) height or 2W2H with 94 3/4" (2407) height not to exceed 73" (1854) in width
- Factory supplied field mulling kits are available for standard assemblies, or 30°, 45° Bay, and Bow assemblies
- Picture units may require both nailing fin and installation brackets
- Impact glazed units require installation clip with nailing fin on all sizes for installation.

Wood-Ultrex Casement / Awning

Unit Features Continued

Glazing:

- Dual-pane units are manufactured with an 11/16" (17) IG with Low E1, E2, E3, or E3/ERS or no coating including argon gas or air fill.
- Tripane units are manufactured with a 1 1/8" (29) IG with a combination coating consisting of Low E2 on surface 2 and Low E1 on surface 5 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.
- All glass is of a select quality complying with ASTM C 1036.
- Insulating glass is manufactured and tested to pass level ASTM E 2190 and is IGCC certified.
- 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 thickness glass.
 - Optional 3.1/4.7 STC/OITC Upgrade glass is available. STC and OITC ratings are tested in accordance with ASTM E 90-09. See the Product Performance chapter for values.
- 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, tripane, or STC/OITC Upgrade options.

CE Glazing:

- Dual-pane units are manufactured with an 11/16" (17) IG with Low E2, E3, or E1 coatings including argon gas fill.
- Tripane units are manufactured with a 1 1/8" (29) IG with a combination coating consisting of Low E2 on surface 2 and Low E1 on surface 5 including argon gas fill.
- Tempered glass is available as an option.
- CE marked IG units comply with EN 1279 and EN 12150 (fully tempered).
 - The glazing seal is a silicone bedding on both interior and exterior surfaces utilized in a sandwich style sash.
- CE glazing is available on operator and stationary casement units up to CN3771.
 - Awning units, operable and stationary are available up to CN4947.
 - Casement pictures and transoms are not available with CE mark. Bows and Bays are not available with CE mark.

Impact Glazing:

- Optional Impact Zone 3 available on selected sizes.
 - Zone 3 for winds up to 140 miles per hour.
- Glass is laminated insulated Low E2 or E3 Argon, consisting of annealed or tempered glass exterior and laminated glass interior.
- The laminated glass is comprised of two pieces of glass with either a SGP or PVB laminate layer between.
 - Interior and exterior glazing compound is silicone, in a sandwich style glazing system.
 - Not available with CE product.

Weather Strip:

- All units are dual weather stripped.
- Frame and sash are weather stripped on all four sides with an extruded PVC bulb.
- Foam filled bulb is only on the frame, the sash has a hollow bulb.

Screen:

- Roll formed aluminum frame with corner key construction
- Available in an Almond Frost or White.
 - Optional wood veneer screen available.
- Charcoal color fiberglass (non-corrosive) screen cloth.
- Spring loaded pins for installation.

Removable Interior Grilles:

- Bar: Pine wood, 3/4" (19)
- Pattern: Standard rectangular pattern
- Available in Pine bare wood or factory applied white, clear, or designer black interior finishes.

Interior / Exterior Simulated Divided Lites (SDL):

- Interior bar: 7/8" (22) wide bars
 - Pine bare wood or factory applied white finish, to match interior
- Exterior bar: 7/8" (22) wide bars Ultrex, 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 is unavailable with rain, reed and narrow reed decorative glass options. Glue Chip requires tempered glass. Tinted glass not available with spacer bar.

Wood-Ultrex Casement / Awning

Unit Features Continued

Grilles-Between-The-Glass (GBG):

- 11/16" (17) contoured aluminum bar placed between two panes of glass
- Pattern: Standard rectangular pattern, 6 or 9 lite Prairie cut, or Cottage style cut
 - Exterior colors: Stone White, Pebble Gray, Bronze, Evergreen, Cashmere, or Ebony
- Interior Colors: White, Bronze, or Black.
- GBGs are not available on Impact or tinted units.

Exterior Casing:

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

Wood-Ultrex Casement / Awning

Egress and Vent Openings: Casement

| CN | Opening Width | | Opening Height | | Egress Opening | | Floor to Clear Opening | | Opening Vent Width | | Opening Vent Height | | Vent Opening | |
|------|---------------|-------|----------------|--------|-----------------|----------------|------------------------|--------|--------------------|-------|---------------------|--------|-----------------|----------------|
| | ft - in | mm | ft - in | mm | ft ² | m ² | ft-in | mm | ft - in | mm | ft - in | mm | ft ² | m ² |
| 1731 | 0-7 1/4 | (184) | 2-2 23/32 | (678) | 1.34 | (0.12) | 4-5 7/32 | (1352) | 0-11 7/8 | (302) | 2-2 3/4 | (678) | 2.20 | (0.20) |
| 1735 | 0-7 1/4 | (184) | 2-6 23/32 | (780) | 1.54 | (0.14) | 4-1 7/32 | (1250) | 0-11 7/8 | (302) | 2-6 3/4 | (780) | 2.53 | (0.24) |
| 1739 | 0-7 1/4 | (184) | 2-10 23/32 | (882) | 1.75 | (0.16) | 3-9 7/32 | (1149) | 0-11 7/8 | (302) | 2-10 3/4 | (882) | 2.86 | (0.27) |
| 1743 | 0-7 1/4 | (184) | 3-2 27/32 | (986) | 1.95 | (0.18) | 3-5 3/32 | (1044) | 0-11 7/8 | (302) | 3-2 3/4 | (983) | 3.19 | (0.30) |
| 1747 | 0-7 1/4 | (184) | 3-6 23/32 | (1085) | 2.15 | (0.20) | 3-1 7/32 | (946) | 0-11 7/8 | (302) | 3-6 3/4 | (1085) | 3.52 | (0.33) |
| 1755 | 0-7 1/4 | (184) | 4-2 23/32 | (1288) | 2.55 | (0.24) | 2-5 7/32 | (742) | 0-11 7/8 | (302) | 4-2 3/4 | (1288) | 4.18 | (0.39) |
| 1759 | 0-7 1/4 | (184) | 4-6 23/32 | (1390) | 2.75 | (0.26) | 2-1 7/32 | (641) | 0-11 7/8 | (302) | 4-6 3/4 | (1390) | 4.51 | (0.42) |
| 1763 | 0-7 1/4 | (184) | 4-10 23/32 | (1491) | 2.95 | (0.27) | 1-9 7/32 | (539) | 0-11 7/8 | (302) | 4-10 3/4 | (1491) | 4.84 | (0.45) |
| 1771 | T 0-7 1/4 | (184) | 5-6 23/32 | (1694) | 3.35 | (0.31) | 1-1 7/32 | (336) | 0-11 7/8 | (302) | 5-6 3/4 | (1694) | 5.50 | (0.51) |
| 2131 | 0-11 1/4 | (286) | 2-2 23/32 | (678) | 2.08 | (0.19) | 4-5 7/32 | (1352) | 1-3 7/8 | (403) | 2-2 3/4 | (678) | 2.94 | (0.27) |
| 2135 | 0-11 1/4 | (286) | 2-6 23/32 | (780) | 2.4 | (0.22) | 4-1 7/32 | (1250) | 1-3 7/8 | (403) | 2-6 3/4 | (780) | 3.38 | (0.31) |
| 2139 | 0-11 1/4 | (286) | 2-10 23/32 | (882) | 2.71 | (0.25) | 3-9 7/32 | (1149) | 1-3 7/8 | (403) | 2-10 3/4 | (882) | 3.83 | (0.36) |
| 2143 | 0-11 1/4 | (286) | 3-2 27/32 | (986) | 3.03 | (0.28) | 3-5 7/32 | (1047) | 1-3 7/8 | (403) | 3-2 3/4 | (983) | 4.27 | (0.40) |
| 2147 | 0-11 1/4 | (286) | 3-6 23/32 | (1085) | 3.33 | (0.31) | 3-1 7/32 | (946) | 1-3 7/8 | (403) | 3-6 3/4 | (1085) | 4.71 | (0.44) |
| 2155 | 0-11 1/4 | (286) | 4-2 23/32 | (1288) | 3.96 | (0.37) | 2-5 7/32 | (742) | 1-3 7/8 | (403) | 4-2 3/4 | (1288) | 5.59 | (0.52) |
| 2159 | 0-11 1/4 | (286) | 4-6 23/32 | (1390) | 4.27 | (0.40) | 2-1 7/32 | (641) | 1-3 7/8 | (403) | 4-6 3/4 | (1390) | 6.03 | (0.56) |
| 2163 | 0-11 1/4 | (286) | 4-10 23/32 | (1491) | 4.58 | (0.43) | 1-9 7/32 | (539) | 1-3 7/8 | (403) | 4-10 3/4 | (1491) | 6.47 | (0.60) |
| 2171 | T 0-11 1/4 | (286) | 5-6 23/32 | (1694) | 5.21 | (0.48) | 1-1 7/32 | (336) | 1-3 7/8 | (403) | 5-6 3/4 | (1694) | 7.35 | (0.68) |
| 2531 | 1-3 1/4 | (387) | 2-2 23/32 | (678) | 2.83 | (0.26) | 4-5 7/32 | (1352) | 1-7 7/8 | (505) | 2-2 3/4 | (678) | 3.69 | (0.34) |
| 2535 | 1-3 1/4 | (387) | 2-6 23/32 | (780) | 3.25 | (0.30) | 4-1 7/32 | (1250) | 1-7 7/8 | (505) | 2-6 3/4 | (780) | 4.24 | (0.39) |
| 2539 | 1-3 1/4 | (387) | 2-10 23/32 | (882) | 3.67 | (0.34) | 3-9 7/32 | (1149) | 1-7 7/8 | (505) | 2-10 3/4 | (882) | 4.79 | (0.44) |
| 2543 | 1-3 1/4 | (387) | 3-2 27/32 | (986) | 4.11 | (0.38) | 3-5 7/32 | (1047) | 1-7 7/8 | (505) | 3-2 3/4 | (983) | 5.34 | (0.50) |
| 2547 | 1-3 1/4 | (387) | 3-6 23/32 | (1085) | 4.52 | (0.42) | 3-1 7/32 | (946) | 1-7 7/8 | (505) | 3-6 3/4 | (1085) | 5.89 | (0.55) |
| 2555 | 1-3 1/4 | (387) | 4-2 23/32 | (1288) | 5.37 | (0.50) | 2-5 7/32 | (742) | 1-7 7/8 | (505) | 4-2 3/4 | (1288) | 7.00 | (0.65) |
| 2559 | 1-3 1/4 | (387) | 4-6 23/32 | (1390) | 5.79 | (0.54) | 2-1 7/32 | (641) | 1-7 7/8 | (505) | 4-6 3/4 | (1390) | 7.55 | (0.70) |
| 2563 | 1-3 1/4 | (387) | 4-10 23/32 | (1491) | 6.21 | (0.58) | 1-9 7/32 | (539) | 1-7 7/8 | (505) | 4-10 3/4 | (1491) | 8.10 | (0.75) |
| 2571 | T 1-3 1/4 | (387) | 5-6 23/32 | (1694) | 7.06 | (0.66) | 1-1 7/32 | (336) | 1-7 7/8 | (505) | 5-6 3/4 | (1694) | 9.21 | (0.86) |
| 2931 | 1-9 7/8 | (556) | 2-2 23/32 | (678) | 4.06 | (0.38) | 4-5 7/32 | (1352) | 1-11 7/8 | (606) | 2-2 3/4 | (678) | 4.43 | (0.41) |
| 2935 | 1-9 7/8 | (556) | 2-6 23/32 | (780) | 4.66 | (0.43) | 4-1 7/32 | (1250) | 1-11 7/8 | (606) | 2-6 3/4 | (780) | 5.09 | (0.47) |
| 2939 | 1-9 7/8 | (556) | 2-10 23/32 | (882) | 5.27 | (0.49) | 3-9 7/32 | (1149) | 1-11 7/8 | (606) | 2-10 3/4 | (882) | 5.75 | (0.53) |
| 2943 | E 1-9 7/8 | (556) | 3-2 27/32 | (986) | 5.9 | (0.55) | 3-5 7/32 | (1047) | 1-11 7/8 | (606) | 3-2 3/4 | (983) | 6.42 | (0.60) |
| 2947 | E 1-9 7/8 | (556) | 3-6 23/32 | (1085) | 6.48 | (0.60) | 3-1 7/32 | (946) | 1-11 7/8 | (606) | 3-6 3/4 | (1085) | 7.08 | (0.66) |
| 2955 | E 1-9 7/8 | (556) | 4-2 23/32 | (1288) | 7.7 | (0.72) | 2-5 7/32 | (742) | 1-11 7/8 | (606) | 4-2 3/4 | (1288) | 8.41 | (0.78) |
| 2959 | E 1-9 7/8 | (556) | 4-6 23/32 | (1390) | 8.31 | (0.77) | 2-1 7/32 | (641) | 1-11 7/8 | (606) | 4-6 3/4 | (1390) | 9.07 | (0.84) |
| 2963 | E 1-9 7/8 | (556) | 4-10 23/32 | (1491) | 8.91 | (0.83) | 1-9 7/32 | (539) | 1-11 7/8 | (606) | 4-10 3/4 | (1491) | 9.73 | (0.90) |
| 2971 | E T 1-9 7/8 | (556) | 5-6 23/32 | (1694) | 10.13 | (0.94) | 1-1 7/32 | (336) | 1-11 7/8 | (606) | 5-6 3/4 | (1694) | 11.06 | (1.03) |

Wood-Ultrex Casement / Awning

Egress and Vent Openings: Casement

| CN | Opening Width | | Opening Height | | Egress Opening | | Floor to Clear Opening | | Opening Vent Width | | Opening Vent Height | | Vent Opening | | |
|------|---------------|----------|----------------|------------|-----------------|----------------|------------------------|----------|--------------------|---------|---------------------|----------|-----------------|----------------|--------|
| | ft - in | mm | ft - in | mm | ft ² | m ² | ft-in | mm | ft - in | mm | ft - in | mm | ft ² | m ² | |
| 3331 | 1-11 1/4 | (591) | 2-2 23/32 | (678) | 4.31 | (0.40) | 4-5 7/32 | (1352) | 2-3 7/8 | (708) | 2-2 3/4 | (678) | 5.17 | (0.48) | |
| 3335 | 1-11 1/4 | (591) | 2-6 23/32 | (780) | 4.96 | (0.46) | 4-1 7/32 | (1250) | 2-3 7/8 | (708) | 2-6 3/4 | (780) | 5.94 | (0.55) | |
| 3339 | 1-11 1/4 | (591) | 2-10 23/32 | (882) | 5.60 | (0.52) | 3-9 7/32 | (1149) | 2-3 7/8 | (708) | 2-10 3/4 | (882) | 6.72 | (0.62) | |
| 3343 | E | 1-11 1/4 | (591) | 3-2 27/32 | (986) | 6.27 | (0.58) | 3-5 7/32 | (1047) | 2-3 7/8 | (708) | 3-2 3/4 | (983) | 7.49 | (0.70) |
| 3347 | E | 1-11 1/4 | (591) | 3-6 23/32 | (1085) | 6.89 | (0.64) | 3-1 7/32 | (946) | 2-3 7/8 | (708) | 3-6 3/4 | (1085) | 8.27 | (0.77) |
| 3355 | E | 1-11 1/4 | (591) | 4-2 23/32 | (1288) | 8.18 | (0.76) | 2-5 7/32 | (742) | 2-3 7/8 | (708) | 4-2 3/4 | (1288) | 9.81 | (0.91) |
| 3359 | E | 1-11 1/4 | (591) | 4-6 23/32 | (1390) | 8.83 | (0.82) | 2-1 7/32 | (641) | 2-3 7/8 | (708) | 4-6 3/4 | (1390) | 10.59 | (0.98) |
| 3363 | E | 1-11 1/4 | (591) | 4-10 23/32 | (1491) | 9.48 | (0.88) | 1-9 7/32 | (539) | 2-3 7/8 | (708) | 4-10 3/4 | (1491) | 11.36 | (1.06) |
| 3371 | E T | 1-11 1/4 | (591) | 5-6 23/32 | (1694) | 10.77 | (1.00) | 1-1 7/32 | (336) | 2-3 7/8 | (708) | 5-6 3/4 | (1694) | 12.91 | (1.20) |
| 3731 | | 2-3 1/4 | (692) | 2-2 23/32 | (678) | 5.05 | (0.47) | 4-5 7/32 | (1352) | 2-7 7/8 | (810) | 2-2 3/4 | (678) | 5.91 | (0.55) |
| 3735 | E | 2-3 1/4 | (692) | 2-6 23/32 | (780) | 5.81 | (0.54) | 4-1 7/32 | (1250) | 2-7 7/8 | (810) | 2-6 3/4 | (780) | 6.80 | (0.63) |
| 3739 | E | 2-3 1/4 | (692) | 2-10 23/32 | (882) | 6.57 | (0.61) | 3-9 7/32 | (1149) | 2-7 7/8 | (810) | 2-10 3/4 | (882) | 7.68 | (0.71) |
| 3743 | E | 2-3 1/4 | (692) | 3-2 27/32 | (986) | 7.35 | (0.68) | 3-5 7/32 | (1047) | 2-7 7/8 | (810) | 3-2 3/4 | (983) | 8.57 | (0.80) |
| 3747 | E | 2-3 1/4 | (692) | 3-6 23/32 | (1085) | 8.08 | (0.75) | 3-1 7/32 | (946) | 2-7 7/8 | (810) | 3-6 3/4 | (1085) | 9.45 | (0.88) |
| 3755 | E | 2-3 1/4 | (692) | 4-2 23/32 | (1288) | 9.59 | (0.89) | 2-5 7/32 | (742) | 2-7 7/8 | (810) | 4-2 3/4 | (1288) | 11.22 | (1.04) |
| 3759 | E | 2-3 1/4 | (692) | 4-6 23/32 | (1390) | 10.35 | (0.96) | 2-1 7/32 | (641) | 2-7 7/8 | (810) | 4-6 3/4 | (1390) | 12.11 | (1.12) |
| 3763 | E | 2-3 1/4 | (692) | 4-10 23/32 | (1491) | 11.11 | (1.03) | 1-9 7/32 | (539) | 2-7 7/8 | (810) | 4-10 3/4 | (1491) | 12.99 | (1.21) |
| 3771 | E T | 2-3 1/4 | (692) | 5-6 23/32 | (1694) | 12.62 | (1.17) | 1-1 7/32 | (336) | 2-7 7/8 | (810) | 5-6 3/4 | (1694) | 14.76 | (1.37) |

NOTE: 3735 will meet national egress if the sill height is within 44" (1118) of the floor. Code restrictions may vary depending on local building codes.

Wood-Ultrex Casement / Awning

Daylight Measurements: Casement

| CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|--------|------------------------|-------|-------------------------|--------|------------------|-----------------|
| | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 1731 | 0-10 25/32 | (274) | 2-1 29/32 | (658) | 1.94 | (0.18) |
| 1735 | 0-10 25/32 | (274) | 2-5 29/32 | (760) | 2.24 | (0.21) |
| 1739 | 0-10 25/32 | (274) | 2-9 29/32 | (861) | 2.54 | (0.24) |
| 1743 | 0-10 25/32 | (274) | 3-2 1/32 | (966) | 2.85 | (0.26) |
| 1747 | 0-10 25/32 | (274) | 3-5 29/32 | (1065) | 3.14 | (0.29) |
| 1755 | 0-10 25/32 | (274) | 4-1 29/32 | (1268) | 3.74 | (0.35) |
| 1759 | 0-10 25/32 | (274) | 4-5 29/32 | (1369) | 4.04 | (0.38) |
| 1763 | 0-10 25/32 | (274) | 4-9 29/32 | (1471) | 4.34 | (0.40) |
| 1771 T | 0-10 25/32 | (274) | 5-5 29/32 | (1674) | 4.94 | (0.46) |
| 2131 | 1-2 25/32 | (376) | 2-1 29/32 | (658) | 2.66 | (0.25) |
| 2135 | 1-2 25/32 | (376) | 2-5 29/32 | (760) | 3.07 | (0.29) |
| 2139 | 1-2 25/32 | (376) | 2-9 29/32 | (861) | 3.48 | (0.32) |
| 2143 | 1-2 25/32 | (376) | 3-2 1/32 | (966) | 3.91 | (0.36) |
| 2147 | 1-2 25/32 | (376) | 3-5 29/32 | (1065) | 4.30 | (0.40) |
| 2155 | 1-2 25/32 | (376) | 4-1 29/32 | (1268) | 5.13 | (0.48) |
| 2159 | 1-2 25/32 | (376) | 4-5 29/32 | (1369) | 5.54 | (0.51) |
| 2163 | 1-2 25/32 | (376) | 4-9 29/32 | (1471) | 5.95 | (0.55) |
| 2171 T | 1-2 25/32 | (376) | 5-5 29/32 | (1674) | 6.77 | (0.63) |
| 2531 | 1-6 25/32 | (477) | 2-1 29/32 | (658) | 3.38 | (0.31) |
| 2535 | 1-6 25/32 | (477) | 2-5 29/32 | (760) | 3.90 | (0.36) |
| 2539 | 1-6 25/32 | (477) | 2-9 29/32 | (861) | 4.43 | (0.41) |
| 2543 | 1-6 25/32 | (477) | 3-2 1/32 | (966) | 4.96 | (0.46) |
| 2547 | 1-6 25/32 | (477) | 3-5 29/32 | (1065) | 5.47 | (0.51) |
| 2555 | 1-6 25/32 | (477) | 4-1 29/32 | (1268) | 6.51 | (0.61) |
| 2559 | 1-6 25/32 | (477) | 4-5 29/32 | (1369) | 7.03 | (0.65) |
| 2563 | 1-6 25/32 | (477) | 4-9 29/32 | (1471) | 7.56 | (0.70) |
| 2571 T | 1-6 25/32 | (477) | 5-5 29/32 | (1674) | 8.6 | (0.80) |
| 2931 | 1-10 25/32 | (579) | 2-1 29/32 | (658) | 4.10 | (0.38) |
| 2935 | 1-10 25/32 | (579) | 2-5 29/32 | (760) | 4.73 | (0.44) |
| 2939 | 1-10 25/32 | (579) | 2-9 29/32 | (861) | 5.37 | (0.50) |
| 2943 | 1-10 25/32 | (579) | 3-2 1/32 | (966) | 6.02 | (0.56) |
| 2947 | 1-10 25/32 | (579) | 3-5 29/32 | (1065) | 6.63 | (0.62) |
| 2955 | 1-10 25/32 | (579) | 4-1 29/32 | (1268) | 7.90 | (0.73) |
| 2959 | 1-10 25/32 | (579) | 4-5 29/32 | (1369) | 8.53 | (0.79) |
| 2963 | 1-10 25/32 | (579) | 4-9 29/32 | (1471) | 9.17 | (0.85) |
| 2971 T | 1-10 25/32 | (579) | 5-5 29/32 | (1674) | 10.43 | (0.97) |

| CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|--------|------------------------|-------|-------------------------|--------|------------------|-----------------|
| | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 3331 | 2-2 25/32 | (680) | 2-1 29/32 | (658) | 4.82 | (0.45) |
| 3335 | 2-2 25/32 | (680) | 2-5 29/32 | (760) | 5.57 | (0.52) |
| 3339 | 2-2 25/32 | (680) | 2-9 29/32 | (861) | 6.31 | (0.59) |
| 3343 | 2-2 25/32 | (680) | 3-2 1/32 | (966) | 7.08 | (0.66) |
| 3347 | 2-2 25/32 | (680) | 3-5 29/32 | (1065) | 7.80 | (0.72) |
| 3355 | 2-2 25/32 | (680) | 4-1 29/32 | (1268) | 9.29 | (0.86) |
| 3359 | 2-2 25/32 | (680) | 4-5 29/32 | (1369) | 10.03 | (0.93) |
| 3363 | 2-2 25/32 | (680) | 4-9 29/32 | (1471) | 10.77 | (1.00) |
| 3371 T | 2-2 25/32 | (680) | 5-5 29/32 | (1674) | 12.26 | (1.14) |
| 3731 | 2-6 25/32 | (782) | 2-1 29/32 | (658) | 5.54 | (0.51) |
| 3735 | 2-6 25/32 | (782) | 2-5 29/32 | (760) | 6.40 | (0.59) |
| 3739 | 2-6 25/32 | (782) | 2-9 29/32 | (861) | 7.25 | (0.67) |
| 3743 | 2-6 25/32 | (782) | 3-2 1/32 | (966) | 8.13 | (0.76) |
| 3747 | 2-6 25/32 | (782) | 3-5 29/32 | (1065) | 8.96 | (0.83) |
| 3755 | 2-6 25/32 | (782) | 4-1 29/32 | (1268) | 10.67 | (0.99) |
| 3759 | 2-6 25/32 | (782) | 4-5 29/32 | (1369) | 11.53 | (1.07) |
| 3763 | 2-6 25/32 | (782) | 4-9 29/32 | (1471) | 12.38 | (1.15) |
| 3771 T | 2-6 25/32 | (782) | 5-5 29/32 | (1674) | 14.09 | (1.31) |

Wood-Ultrex Casement / Awning

Vent and Daylight Measurements: Awning

| CN | Opening Vent Width | | Opening Vent Height | | Vent Opening | | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|------|--------------------|--------|---------------------|--------|-----------------|-----------------|------------------------|--------|-------------------------|--------|------------------|-----------------|
| | ft - in | mm | ft - in | mm | ft ² | mm ² | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 2519 | 1-7 7/8 | (505) | 1-2 7/8 | (377) | 2.05 | (0.19) | 1-6 25/32 | (477) | 1-1 29/32 | (353) | 1.82 | (0.17) |
| 2523 | 1-7 7/8 | (505) | 1-6 7/8 | (478) | 2.60 | (0.24) | 1-6 25/32 | (477) | 1-5 29/32 | (455) | 2.34 | (0.22) |
| 2527 | 1-7 7/8 | (505) | 1-10 7/8 | (580) | 3.15 | (0.29) | 1-6 25/32 | (477) | 1-9 29/32 | (557) | 2.86 | (0.27) |
| 2535 | 1-7 7/8 | (505) | 2-6 7/8 | (783) | 4.25 | (0.40) | 1-6 25/32 | (477) | 2-5 29/32 | (760) | 3.90 | (0.36) |
| 2539 | 1-7 7/8 | (505) | 2-10 7/8 | (885) | 4.81 | (0.45) | 1-6 25/32 | (477) | 2-9 29/32 | (861) | 4.43 | (0.41) |
| 2547 | 1-7 7/8 | (505) | 3-6 7/8 | (1088) | 5.91 | (0.55) | 1-6 25/32 | (477) | 3-5 29/32 | (1065) | 5.47 | (0.51) |
| 2919 | 1-11 7/8 | (606) | 1-2 7/8 | (377) | 2.46 | (0.23) | 1-10 25/32 | (579) | 1-1 29/32 | (353) | 2.20 | (0.20) |
| 2923 | 1-11 7/8 | (606) | 1-6 7/8 | (478) | 3.12 | (0.29) | 1-10 25/32 | (579) | 1-5 29/32 | (455) | 2.84 | (0.26) |
| 2927 | 1-11 7/8 | (606) | 1-10 7/8 | (580) | 3.79 | (0.35) | 1-10 25/32 | (579) | 1-9 29/32 | (557) | 3.47 | (0.32) |
| 2935 | 1-11 7/8 | (606) | 2-6 7/8 | (783) | 5.11 | (0.47) | 1-10 25/32 | (579) | 2-5 29/32 | (760) | 4.73 | (0.44) |
| 2939 | 1-11 7/8 | (606) | 2-10 7/8 | (885) | 5.77 | (0.54) | 1-10 25/32 | (579) | 2-9 29/32 | (861) | 5.37 | (0.50) |
| 2947 | 1-11 7/8 | (606) | 3-6 7/8 | (1088) | 7.10 | (0.66) | 1-10 25/32 | (579) | 3-5 29/32 | (1065) | 6.63 | (0.62) |
| 3319 | 2-3 7/8 | (708) | 1-2 7/8 | (377) | 2.87 | (0.27) | 2-2 25/32 | (680) | 1-1 29/32 | (353) | 2.59 | (0.24) |
| 3323 | 2-3 7/8 | (708) | 1-6 7/8 | (478) | 3.64 | (0.34) | 2-2 25/32 | (680) | 1-5 29/32 | (455) | 3.33 | (0.31) |
| 3327 | 2-3 7/8 | (708) | 1-10 7/8 | (580) | 4.42 | (0.41) | 2-2 25/32 | (680) | 1-9 29/32 | (557) | 4.08 | (0.38) |
| 3335 | 2-3 7/8 | (708) | 2-6 7/8 | (783) | 5.97 | (0.55) | 2-2 25/32 | (680) | 2-5 29/32 | (760) | 5.57 | (0.52) |
| 3339 | 2-3 7/8 | (708) | 2-10 7/8 | (885) | 6.74 | (0.63) | 2-2 25/32 | (680) | 2-9 29/32 | (861) | 6.31 | (0.59) |
| 3347 | 2-3 7/8 | (708) | 3-6 7/8 | (1088) | 8.29 | (0.77) | 2-2 25/32 | (680) | 3-5 29/32 | (1065) | 7.80 | (0.72) |
| 3719 | 2-7 7/8 | (810) | 1-2 7/8 | (377) | 3.28 | (0.30) | 2-6 25/32 | (782) | 1-1 29/32 | (353) | 2.97 | (0.28) |
| 3723 | 2-7 7/8 | (810) | 1-6 7/8 | (478) | 4.17 | (0.39) | 2-6 25/32 | (782) | 1-5 29/32 | (455) | 3.83 | (0.36) |
| 3727 | 2-7 7/8 | (810) | 1-10 7/8 | (580) | 5.05 | (0.47) | 2-6 25/32 | (782) | 1-9 29/32 | (557) | 4.69 | (0.44) |
| 3735 | 2-7 7/8 | (810) | 2-6 7/8 | (783) | 6.82 | (0.63) | 2-6 25/32 | (782) | 2-5 29/32 | (760) | 6.40 | (0.59) |
| 3739 | 2-7 7/8 | (810) | 2-10 7/8 | (885) | 7.71 | (0.72) | 2-6 25/32 | (782) | 2-9 29/32 | (861) | 7.25 | (0.67) |
| 3747 | 2-7 7/8 | (810) | 3-6 7/8 | (1088) | 9.48 | (0.88) | 2-6 25/32 | (782) | 3-5 29/32 | (1065) | 8.96 | (0.83) |
| 4119 | 2-11 7/8 | (911) | 1-2 7/8 | (377) | 3.69 | (0.34) | 2-10 25/32 | (884) | 1-1 29/32 | (353) | 3.36 | (0.31) |
| 4123 | 2-11 7/8 | (911) | 1-6 7/8 | (478) | 4.69 | (0.44) | 2-10 25/32 | (884) | 1-5 29/32 | (455) | 4.33 | (0.40) |
| 4127 | 2-11 7/8 | (911) | 1-10 7/8 | (580) | 5.69 | (0.53) | 2-10 25/32 | (884) | 1-9 29/32 | (557) | 5.29 | (0.49) |
| 4135 | 2-11 7/8 | (911) | 2-6 7/8 | (783) | 7.68 | (0.71) | 2-10 25/32 | (884) | 2-5 29/32 | (760) | 7.23 | (0.67) |
| 4139 | 2-11 7/8 | (911) | 2-10 7/8 | (885) | 8.68 | (0.81) | 2-10 25/32 | (884) | 2-9 29/32 | (861) | 8.19 | (0.76) |
| 4147 | 2-11 7/8 | (911) | 3-6 7/8 | (1088) | 10.67 | (0.99) | 2-10 25/32 | (884) | 3-5 29/32 | (1065) | 10.13 | (0.94) |
| 4919 | 3-7 7/8 | (1114) | 1-2 7/8 | (377) | 4.52 | (0.42) | 3-6 25/32 | (1087) | 1-1 29/32 | (353) | 4.13 | (0.38) |
| 4923 | 3-7 7/8 | (1114) | 1-6 7/8 | (478) | 5.74 | (0.53) | 3-6 25/32 | (1087) | 1-5 29/32 | (455) | 5.32 | (0.49) |
| 4927 | 3-7 7/8 | (1114) | 1-10 7/8 | (580) | 6.96 | (0.65) | 3-6 25/32 | (1087) | 1-9 29/32 | (557) | 6.51 | (0.60) |
| 4935 | 3-7 7/8 | (1114) | 2-6 7/8 | (783) | 9.39 | (0.87) | 3-6 25/32 | (1087) | 2-5 29/32 | (760) | 8.89 | (0.83) |
| 4939 | 3-7 7/8 | (1114) | 2-10 7/8 | (885) | 10.61 | (0.99) | 3-6 25/32 | (1087) | 2-9 29/32 | (861) | 10.08 | (0.94) |
| 4947 | 3-7 7/8 | (1114) | 3-6 7/8 | (1088) | 13.05 | (1.21) | 3-6 25/32 | (1087) | 3-5 29/32 | (1065) | 12.45 | (1.16) |

Wood-Ultrex Casement / Awning

Daylight Measurement: Transom

| CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|--------|------------------------|--------|-------------------------|-------|------------------|-----------------|
| | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 1716 | 0-10 25/32 | (274) | 0-10 17/32 | (268) | .79 | (0.07) |
| 1719 | 0-10 25/32 | (274) | 1-1 29/32 | (353) | 1.04 | (0.10) |
| 2116 | 1-2 25/32 | (376) | 0-10 17/32 | (268) | 1.08 | (0.10) |
| 2119 | 1-2 25/32 | (376) | 1-1 29/32 | (353) | 1.43 | (0.13) |
| 2516 | 1-6 25/32 | (477) | 0-10 17/32 | (268) | 1.38 | (0.13) |
| 2519 | 1-6 25/32 | (477) | 1-1 29/32 | (353) | 1.82 | (0.17) |
| 2916 T | 1-10 25/32 | (579) | 0-10 17/32 | (268) | 1.67 | (0.15) |
| 2919 T | 1-10 25/32 | (579) | 1-1 29/32 | (353) | 2.2 | (0.20) |
| 3316 T | 2-2 25/32 | (680) | 0-10 17/32 | (268) | 1.96 | (0.18) |
| 3319 T | 2-2 25/32 | (680) | 1-1 29/32 | (353) | 2.59 | (0.24) |
| 3716 T | 2-6 25/32 | (782) | 0-10 17/32 | (268) | 2.25 | (0.21) |
| 3719 T | 2-6 25/32 | (782) | 1-1 29/32 | (353) | 2.97 | (0.28) |
| 4116 T | 2-10 25/32 | (884) | 0-10 17/32 | (268) | 2.55 | (0.24) |
| 4119 T | 2-10 25/32 | (884) | 1-1 29/32 | (353) | 3.36 | (0.31) |
| 4916 T | 3-6 25/32 | (1087) | 0-10 17/32 | (268) | 3.13 | (0.29) |
| 4919 T | 3-6 25/32 | (1087) | 1-1 29/32 | (353) | 4.13 | (0.38) |
| 5716 T | 4-2 25/32 | (1290) | 0-10 17/32 | (268) | 3.72 | (0.35) |
| 5719 T | 4-2 25/32 | (1290) | 1-1 29/32 | (353) | 4.91 | (0.46) |
| 7316 T | 5-6 25/32 | (1696) | 0-10 17/32 | (268) | 4.89 | (0.45) |
| 7319 T | 5-6 25/32 | (1696) | 1-1 29/32 | (353) | 6.45 | (0.60) |

Wood-Ultrex Casement / Awning

Daylight Measurement: Picture

| CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | | CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|--------|------------------------|-------|-------------------------|--------|------------------|-----------------|--------|------------------------|-------|-------------------------|--------|------------------|-----------------|
| | ft-in | mm | ft-in | mm | ft ² | mm ² | | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 1719 | 0-10 25/32 | (274) | 1-1 29/32 | (353) | 1.04 | (0.10) | 2919 | 1-10 25/32 | (579) | 1-1 29/32 | (353) | 2.20 | (0.20) |
| 1723 | 0-10 25/32 | (274) | 1-5 29/32 | (455) | 1.34 | (0.12) | 2923 | 1-10 25/32 | (579) | 1-5 29/32 | (455) | 2.84 | (0.26) |
| 1727 | 0-10 25/32 | (274) | 1-9 29/32 | (557) | 1.64 | (0.15) | 2927 | 1-10 25/32 | (579) | 1-9 29/32 | (557) | 3.47 | (0.32) |
| 1731 | 0-10 25/32 | (274) | 2-1 29/32 | (658) | 1.94 | (0.18) | 2931 | 1-10 25/32 | (579) | 2-1 29/32 | (658) | 4.10 | (0.38) |
| 1735 | 0-10 25/32 | (274) | 2-5 29/32 | (760) | 2.24 | (0.21) | 2935 | 1-10 25/32 | (579) | 2-5 29/32 | (760) | 4.73 | (0.44) |
| 1739 | 0-10 25/32 | (274) | 2-9 29/32 | (861) | 2.54 | (0.24) | 2939 | 1-10 25/32 | (579) | 2-9 29/32 | (861) | 5.37 | (0.50) |
| 1743 | 0-10 25/32 | (274) | 3-2 1/32 | (966) | 2.85 | (0.26) | 2943 | 1-10 25/32 | (579) | 3-2 1/32 | (966) | 6.02 | (0.56) |
| 1747 | 0-10 25/32 | (274) | 3-5 29/32 | (1065) | 3.14 | (0.29) | 2947 | 1-10 25/32 | (579) | 3-5 29/32 | (1065) | 6.63 | (0.62) |
| 1755 | 0-10 25/32 | (274) | 4-1 29/32 | (1268) | 3.74 | (0.35) | 2955 | 1-10 25/32 | (579) | 4-1 29/32 | (1268) | 7.90 | (0.73) |
| 1759 | 0-10 25/32 | (274) | 4-5 29/32 | (1369) | 4.04 | (0.38) | 2959 | 1-10 25/32 | (579) | 4-5 29/32 | (1369) | 8.53 | (0.79) |
| 1763 | 0-10 25/32 | (274) | 4-9 29/32 | (1471) | 4.34 | (0.40) | 2963 | 1-10 25/32 | (579) | 4-9 29/32 | (1471) | 9.17 | (0.85) |
| 1771 T | 0-10 25/32 | (274) | 5-5 29/32 | (1674) | 4.94 | (0.46) | 2971 T | 1-10 25/32 | (579) | 5-5 29/32 | (1674) | 10.43 | (0.97) |
| 2119 | 1-2 25/32 | (376) | 1-1 29/32 | (353) | 1.43 | (0.13) | 3319 | 2-2 25/32 | (680) | 1-1 29/32 | (353) | 2.59 | (0.24) |
| 2123 | 1-2 25/32 | (376) | 1-5 29/32 | (455) | 1.84 | (0.17) | 3323 | 2-2 25/32 | (680) | 1-5 29/32 | (455) | 3.33 | (0.31) |
| 2127 | 1-2 25/32 | (376) | 1-9 29/32 | (557) | 2.25 | (0.21) | 3327 | 2-2 25/32 | (680) | 1-9 29/32 | (557) | 4.08 | (0.38) |
| 2131 | 1-2 25/32 | (376) | 2-1 29/32 | (658) | 2.66 | (0.25) | 3331 | 2-2 25/32 | (680) | 2-1 29/32 | (658) | 4.82 | (0.45) |
| 2135 | 1-2 25/32 | (376) | 2-5 29/32 | (760) | 3.07 | (0.29) | 3335 | 2-2 25/32 | (680) | 2-5 29/32 | (760) | 5.57 | (0.52) |
| 2139 | 1-2 25/32 | (376) | 2-9 29/32 | (861) | 3.48 | (0.32) | 3339 | 2-2 25/32 | (680) | 2-9 29/32 | (861) | 6.31 | (0.59) |
| 2143 | 1-2 25/32 | (376) | 3-2 1/32 | (966) | 3.91 | (0.36) | 3343 | 2-2 25/32 | (680) | 3-2 1/32 | (966) | 7.08 | (0.66) |
| 2147 | 1-2 25/32 | (376) | 3-5 29/32 | (1065) | 4.30 | (0.40) | 3347 | 2-2 25/32 | (680) | 3-5 29/32 | (1065) | 7.80 | (0.72) |
| 2155 | 1-2 25/32 | (376) | 4-1 29/32 | (1268) | 5.13 | (0.48) | 3355 | 2-2 25/32 | (680) | 4-1 29/32 | (1268) | 9.29 | (0.86) |
| 2159 | 1-2 25/32 | (376) | 4-5 29/32 | (1369) | 5.54 | (0.51) | 3359 | 2-2 25/32 | (680) | 4-5 29/32 | (1369) | 10.03 | (0.93) |
| 2163 | 1-2 25/32 | (376) | 4-9 29/32 | (1471) | 5.95 | (0.55) | 3363 | 2-2 25/32 | (680) | 4-9 29/32 | (1471) | 10.77 | (1.00) |
| 2171 T | 1-2 25/32 | (376) | 5-5 29/32 | (1674) | 6.77 | (0.63) | 3371 T | 2-2 25/32 | (680) | 5-5 29/32 | (1674) | 12.26 | (1.14) |
| 2519 | 1-6 25/32 | (477) | 1-1 29/32 | (353) | 1.82 | (0.17) | 3719 | 2-6 25/32 | (782) | 1-1 29/32 | (353) | 2.97 | (0.28) |
| 2523 | 1-6 25/32 | (477) | 1-5 29/32 | (455) | 2.34 | (0.22) | 3723 | 2-6 25/32 | (782) | 1-5 29/32 | (455) | 3.83 | (0.36) |
| 2527 | 1-6 25/32 | (477) | 1-9 29/32 | (557) | 2.86 | (0.27) | 3727 | 2-6 25/32 | (782) | 1-9 29/32 | (557) | 4.69 | (0.44) |
| 2531 | 1-6 25/32 | (477) | 2-1 29/32 | (658) | 3.38 | (0.31) | 3731 | 2-6 25/32 | (782) | 2-1 29/32 | (658) | 5.54 | (0.51) |
| 2535 | 1-6 25/32 | (477) | 2-5 29/32 | (760) | 3.90 | (0.36) | 3735 | 2-6 25/32 | (782) | 2-5 29/32 | (760) | 6.40 | (0.59) |
| 2539 | 1-6 25/32 | (477) | 2-9 29/32 | (861) | 4.43 | (0.41) | 3739 | 2-6 25/32 | (782) | 2-9 29/32 | (861) | 7.25 | (0.67) |
| 2543 | 1-6 25/32 | (477) | 3-2 1/32 | (966) | 4.96 | (0.46) | 3743 | 2-6 25/32 | (782) | 3-2 1/32 | (966) | 8.13 | (0.76) |
| 2547 | 1-6 25/32 | (477) | 3-5 29/32 | (1065) | 5.47 | (0.51) | 3747 | 2-6 25/32 | (782) | 3-5 29/32 | (1065) | 8.96 | (0.83) |
| 2555 | 1-6 25/32 | (477) | 4-1 29/32 | (1268) | 6.51 | (0.61) | 3755 | 2-6 25/32 | (782) | 4-1 29/32 | (1268) | 10.67 | (0.99) |
| 2559 | 1-6 25/32 | (477) | 4-5 29/32 | (1369) | 7.03 | (0.65) | 3759 | 2-6 25/32 | (782) | 4-5 29/32 | (1369) | 11.53 | (1.07) |
| 2563 | 1-6 25/32 | (477) | 4-9 29/32 | (1471) | 7.56 | (0.70) | 3763 | 2-6 25/32 | (782) | 4-9 29/32 | (1471) | 12.38 | (1.15) |
| 2571 T | 1-6 25/32 | (477) | 5-5 29/32 | (1674) | 8.60 | (0.80) | 3771 T | 2-6 25/32 | (782) | 5-5 29/32 | (1674) | 14.09 | (1.31) |

Wood-Ultrex Casement / Awning

Daylight Measurement: Picture

| CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|--------|------------------------|--------|-------------------------|--------|------------------|-----------------|
| | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 4119 | 2-10 25/32 | (884) | 1-1 29/32 | (353) | 3.36 | (0.31) |
| 4123 | 2-10 25/32 | (884) | 1-5 29/32 | (455) | 4.33 | (0.40) |
| 4127 | 2-10 25/32 | (884) | 1-9 29/32 | (557) | 5.29 | (0.49) |
| 4131 | 2-10 25/32 | (884) | 2-1 29/32 | (658) | 6.26 | (0.58) |
| 4135 | 2-10 25/32 | (884) | 2-5 29/32 | (760) | 7.23 | (0.67) |
| 4139 | 2-10 25/32 | (884) | 2-9 29/32 | (861) | 8.19 | (0.76) |
| 4143 | 2-10 25/32 | (884) | 3-2 1/32 | (966) | 9.19 | (0.85) |
| 4147 | 2-10 25/32 | (884) | 3-5 29/32 | (1065) | 10.13 | (0.94) |
| 4155 | 2-10 25/32 | (884) | 4-1 29/32 | (1268) | 12.06 | (1.12) |
| 4159 | 2-10 25/32 | (884) | 4-5 29/32 | (1369) | 13.03 | (1.21) |
| 4163 | 2-10 25/32 | (884) | 4-9 29/32 | (1471) | 13.99 | (1.30) |
| 4171 T | 2-10 25/32 | (884) | 5-5 29/32 | (1674) | 15.92 | (1.48) |
| 4919 | 3-6 25/32 | (1087) | 1-1 29/32 | (353) | 4.13 | (0.38) |
| 4923 | 3-6 25/32 | (1087) | 1-5 29/32 | (455) | 5.32 | (0.49) |
| 4927 | 3-6 25/32 | (1087) | 1-9 29/32 | (557) | 6.51 | (0.60) |
| 4931 | 3-6 25/32 | (1087) | 2-1 29/32 | (658) | 7.70 | (0.72) |
| 4935 | 3-6 25/32 | (1087) | 2-5 29/32 | (760) | 8.89 | (0.83) |
| 4939 | 3-6 25/32 | (1087) | 2-9 29/32 | (861) | 10.08 | (0.94) |
| 4943 | 3-6 25/32 | (1087) | 3-2 1/32 | (966) | 11.3 | (1.05) |
| 4947 | 3-6 25/32 | (1087) | 3-5 29/32 | (1065) | 12.45 | (1.16) |
| 4955 | 3-6 25/32 | (1087) | 4-1 29/32 | (1268) | 14.83 | (1.38) |
| 4959 | 3-6 25/32 | (1087) | 4-5 29/32 | (1369) | 16.02 | (1.49) |
| 4963 | 3-6 25/32 | (1087) | 4-9 29/32 | (1471) | 17.21 | (1.60) |
| 4971 T | 3-6 25/32 | (1087) | 5-5 29/32 | (1674) | 19.59 | (1.82) |
| 5719 | 4-2 25/32 | (1290) | 1-1 29/32 | (353) | 4.91 | (0.46) |
| 5723 | 4-2 25/32 | (1290) | 1-5 29/32 | (455) | 6.32 | (0.59) |
| 5727 | 4-2 25/32 | (1290) | 1-9 29/32 | (557) | 7.73 | (0.72) |
| 5731 | 4-2 25/32 | (1290) | 2-1 29/32 | (658) | 9.14 | (0.85) |
| 5735 | 4-2 25/32 | (1290) | 2-5 29/32 | (760) | 10.55 | (0.98) |
| 5739 | 4-2 25/32 | (1290) | 2-9 29/32 | (861) | 11.96 | (1.11) |
| 5743 | 4-2 25/32 | (1290) | 3-2 1/32 | (966) | 13.42 | (1.25) |
| 5747 | 4-2 25/32 | (1290) | 3-5 29/32 | (1065) | 14.78 | (1.37) |
| 5755 | 4-2 25/32 | (1290) | 4-1 29/32 | (1268) | 17.60 | (1.64) |
| 5759 | 4-2 25/32 | (1290) | 4-5 29/32 | (1369) | 19.02 | (1.77) |
| 5763 | 4-2 25/32 | (1290) | 4-9 29/32 | (1471) | 20.43 | (1.90) |
| 5771 T | 4-2 25/32 | (1290) | 5-5 29/32 | (1674) | 23.25 | (2.16) |

| CN | Daylight Opening Width | | Daylight Opening Height | | Daylight Sq Feet | |
|--------|------------------------|--------|-------------------------|--------|------------------|-----------------|
| | ft-in | mm | ft-in | mm | ft ² | mm ² |
| 7319 | 5-6 25/32 | (1696) | 1-1 29/32 | (353) | 6.45 | (0.60) |
| 7323 | 5-6 25/32 | (1696) | 1-5 29/32 | (455) | 8.31 | (0.77) |
| 7327 | 5-6 25/32 | (1696) | 1-9 29/32 | (557) | 10.16 | (0.94) |
| 7331 | 5-6 25/32 | (1696) | 2-1 29/32 | (658) | 12.02 | (1.12) |
| 7335 | 5-6 25/32 | (1696) | 2-5 29/32 | (760) | 13.87 | (1.29) |
| 7339 | 5-6 25/32 | (1696) | 2-9 29/32 | (861) | 15.73 | (1.46) |
| 7343 | 5-6 25/32 | (1696) | 3-2 1/32 | (966) | 17.64 | (1.64) |
| 7347 | 5-6 25/32 | (1696) | 3-5 29/32 | (1065) | 19.44 | (1.81) |
| 7355 | 5-6 25/32 | (1696) | 4-1 29/32 | (1268) | 23.15 | (2.15) |
| 7359 T | 5-6 25/32 | (1696) | 4-5 29/32 | (1369) | 25.01 | (2.32) |

Wood-Ultrex Casement / Awning

Minimum and Maximum Guidelines

| Minimum and Maximum Guidelines - Standard Product | | | | | | | | | | |
|---|------------|-----------|-------|------------|-------|------|-----------|--------|------------|--------|
| Unit Type | Frame Size | | | | | | | | | |
| | CN | Min Width | | Min Height | | CN | Max Width | | Max Height | |
| | | in | mm | in | mm | | in | mm | in | mm |
| ICA (OP) | 1731 | 16 | (406) | 31 1/8 | (791) | 3771 | 36 | (914) | 71 1/8 | (1807) |
| ICA (STAT) | 1731 | 16 | (406) | 31 1/8 | (791) | 3771 | 36 | (914) | 71 1/8 | (1807) |
| IAWN (OP) | 2519 | 24 | (610) | 19 1/8 | (486) | 4947 | 48 | (1219) | 47 1/8 | (1197) |
| IAWN (STAT) | 2519 | 24 | (610) | 19 1/8 | (486) | 4947 | 48 | (1219) | 47 1/8 | (1197) |
| ICAP | 1719 | 16 | (406) | 19 1/8 | (486) | 7359 | 72 | (1829) | 59 1/8 | (1502) |
| | 1719 | 16 | (406) | 19 1/8 | (486) | 5771 | 56 | (1422) | 71 1/8 | (1807) |
| ICATR | 1716 | 16 | (406) | 15 3/4 | (400) | 7319 | 72 | (1829) | 19 1/8 | (486) |

| Minimum and Maximum Guidelines - Impact Product | | | | | | | | | | |
|---|------------|-----------|-------|------------|-------|------|-----------|--------|------------|--------|
| Unit Type | Frame Size | | | | | | | | | |
| | CN | Min Width | | Min Height | | CN | Max Width | | Max Height | |
| | | in | mm | in | mm | | in | mm | in | mm |
| ICA (OP) | 1731 | 16 | (406) | 31 1/8 | (791) | 3771 | 36 | (914) | 71 1/8 | (1807) |
| ICA (STAT) | 1731 | 16 | (406) | 31 1/8 | (791) | 3771 | 36 | (914) | 71 1/8 | (1807) |
| IAWN (OP) | 2519 | 24 | (610) | 19 1/8 | (486) | 4947 | 48 | (1219) | 47 1/8 | (1197) |
| IAWN (STAT) | 2519 | 24 | (610) | 19 1/8 | (486) | 4947 | 48 | (1219) | 47 1/8 | (1197) |
| ICAP | 3739 | 36 | (914) | 39 1/8 | (994) | 7355 | 72 | (1829) | 55 1/8 | (1400) |
| | 3739 | 36 | (914) | 39 1/8 | (994) | 5771 | 56 | (1422) | 71 1/8 | (1807) |
| ICATR | 1719 | 16 | (406) | 19 1/8 | (486) | 3316 | 32 | (813) | 15 3/4 | (400) |
| | 2116 | 20 | (508) | 15 3/4 | (400) | 3316 | 32 | (813) | 15 3/4 | (400) |

| Minimum and Maximum Guidelines - CE Product | | | | | | | | | | |
|---|------------|-----------|-------|------------|-------|------|-----------|--------|------------|--------|
| Unit Type | Frame Size | | | | | | | | | |
| | CN | Min Width | | Min Height | | CN | Max Width | | Max Height | |
| | | in | mm | in | mm | | in | mm | in | mm |
| ICA | 1731 | 16 | (406) | 31 1/8 | (791) | 3771 | 36 | (914) | 71 1/8 | (1807) |
| IAWN | 2519 | 24 | (610) | 19 1/8 | (486) | 4947 | 48 | (1219) | 47 1/8 | (1197) |

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

Wood-Ultrex Casement / Awning

Certified Sizes and Ratings: Standard Product and Impact

| Product | Air Tested to psf | Water Tested to psf | Certification Rating | Max Overall Width | Max Overall Height |
|--------------------------------|-------------------|---------------------|----------------------|-------------------|--------------------|
| Integrity Wood Casement (3771) | 1.57 | 7.5 | LC-PG50-C | 36 | 71 1/8 |
| Integrity Wood Awning (4947) | 1.57 | 7.5 | LC-PG50-AP | 48 | 47 1/8 |
| Integrity Wood Picture (7359) | 1.57 | 7.5 | LC-PG50-FW | 72 | 59 1/8 |
| Integrity Wood Picture (5771) | 1.57 | 8.25 | LC-PG50-FW | 56 | 71 1/8 |

NOTE: For CE ratings, please refer to CE Performance Section.

| Product | Air Tested to psf | Water Tested to psf | Certification Rating | Max Overall Width | Max Overall Height |
|---|-------------------|---------------------|----------------------|-------------------|--------------------|
| Integrity Wood Casement (3771) Impact Rated | 1.57 | 8.25 | LC-PG55-C | 36 | 71 1/8 |
| Integrity Wood Awning (4947) Impact Rated | 1.57 | 8.25 | LC-PG55-AP | 48 | 47 1/8 |
| Integrity Wood Picture (5771) Impact Rated | 1.57 | 8.25 | LC-PG55-FW | 56 | 71 1/8 |
| Integrity Wood Picture (5771) Impact Rated | 1.57 | 8.25 | LC-PG55-FW | 72 | 55 1/8 |

NOTE: CE mark is not available on Impact units

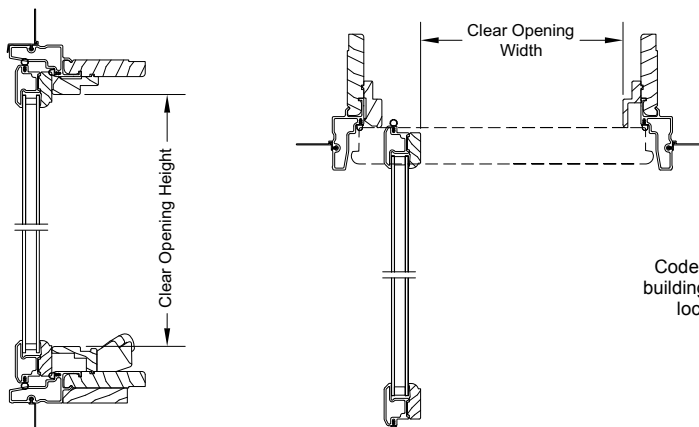
Wood-Ultrex Casement / Awning

Measurement Conversions and Egress Formulas

| Unit Measurement | | | | | | | |
|----------------------|--------------------------|-----------|-------|-----------|-------|--------|--|
| From | | To | | Width | | Height | |
| | | in | mm | in | mm | | |
| Rough Opening | | | | | | | |
| Masonry Opening | Rough Opening | + 1/2 | (13) | + 1/4 | (06) | | |
| OM of Frame | Rough Opening | + 1 | (25) | + 1/2 | (13) | | |
| Daylight Opening | Rough Opening | + 6 7/32 | (158) | + 5 23/32 | (145) | | |
| Frame | | | | | | | |
| Daylight Opening | OM of Frame | + 5 7/32 | (132) | + 5 7/32 | (132) | | |
| Sash | | | | | | | |
| OM of Frame | OM of Sash | - 1 11/16 | (43) | - 1 11/16 | (43) | | |
| Daylight Opening | OM of Sash | + 3 17/32 | (90) | + 3 17/32 | (90) | | |
| Glass | | | | | | | |
| OM of Frame | Glass (Standard Units) | - 4 3/16 | (106) | - 4 3/16 | (106) | | |
| OM of Frame | Glass (Impact Units) | - 4 21/64 | (110) | - 4 21/64 | (110) | | |
| Daylight Opening | Glass (Standard Units) | + 1 1/32 | (26) | + 1 1/32 | (26) | | |
| Daylight Opening | Glass (Impact Units) | + 7/8 | (22) | + 7/8 | (22) | | |
| Screen | | | | | | | |
| OM of Frame | OM of Aluminum Screen | - 3 29/64 | (88) | - 3 59/64 | (100) | | |
| Daylight Opening | OM of Aluminum Screen | + 1 49/64 | (45) | + 1 19/64 | (33) | | |
| OM of Frame | OM of Wood Veneer Screen | - 3 1/2 | (89) | - 3 31/32 | (101) | | |
| Daylight Opening | OM of Wood Veneer Screen | + 1 23/32 | (44) | + 1 1/4 | (32) | | |

| Egress Calculations for Special Sizes | | | |
|---------------------------------------|---|-------------------------------------|--|
| Minimum Value for Net Clear Opening | | Desired Dimension | Formula |
| 20" (508) | Frame RO of 30" (762) and greater | Std. Hinge Opening Width (inches) | = Frame OMW - 8.758" (222) |
| 20" (508) | Frame RO of 27 1/8" (689) - 29 63/64" (792) | Egress Hinge Opening Width (inches) | = Frame OMW - 6.125" (156) |
| 24" (610) | - | Egress Opening Height (inches) | = Frame OMH - 4.420" (112) |
| 5.7 square feet (53) | | Egress Opening Area (sq. ft.) | = (Egress Width x Egress Height) / 144 |

Egress Measurements for Operating Casements



Code restrictions may vary depending on your local building codes. For additional information contact your local department for IBC or IRC requirements.

Wood-Ultrex Casement / Awning

Mulling Guidelines

Factory Mullered Casement/Awning Assemblies

- Assemblies up to 7 units wide by 1 unit high
 - **MAXIMUM ROUGH OPENING** not to exceed 113" (2870) x 71 5/8" (1819)
- Assemblies up to 4 units wide by 5 units high
 - **MAXIMUM ROUGH OPENING** not to exceed 85" (2159) x 94 3/4" (2407)

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

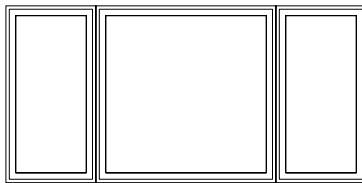
CE mark is not available on factory mullered units

Certified Mull Limits: WDMA Hallmark certified to AAMA 450

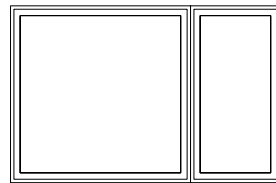
- If assemblies have individual units that have a lower design pressure than the mull, the entire assembly is rated at the lower design pressure.
- Mull certification includes mull clips (nail fin installation) or mull brackets (masonry installation) fastened at all mull points.
- Items not included in certified mull: Standard mull assemblies, field mull assemblies, Integrity round tops.
- Assemblies up to 7 units wide by 1 unit high - Maximum Rough Opening not to exceed 113" (2870) x 71 5/8" (1819)
- Assemblies up to 4 units wide by 5 units high - Maximum Rough Opening not to exceed 85" (2159) x 94 3/4" (2407)

Rough Opening for Assemblies

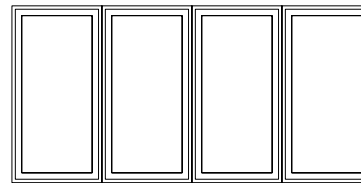
- **WIDTH:**
 - Frame Width = ADD Frame Widths + 1" (25)
 - Tolerance = 1/2" (13) from frame to Rough Opening at left and right jamb.
- **HEIGHT:**
 - Frame Height = ADD Frame Heights + 1/2" (13)
 - Tolerance = 1/2" (13) from frame to Rough Opening at head jamb.



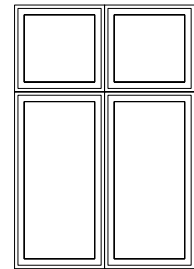
3 Units Wide 1 Unit High



2 Units Wide 1 Unit High



4 Units Wide 1 Unit High



**2 Units Wide
2 Units High**

Wood-Ultrex Casement / Awning

Impact Mulling Guidelines

Factory Mulling

The Wood-Ultrex Casement may be mullled to Wood-Ultrex Casement products, Direct Glaze Polygon, Integrity Round Tops and Integrity Round Top by Marvin.

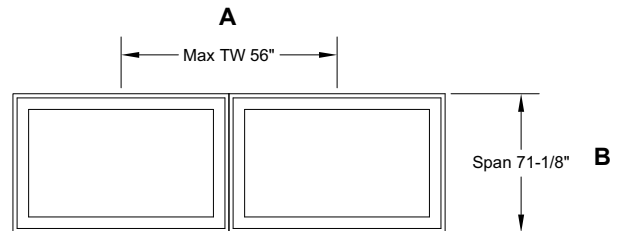
- Standard mull limits (all factory mulls)
 - Maximum Mullled Assembly RO Size
 - 4 units wide x 1 unit high - 113" (2870) x 71 5/8" (1819)
 - 4 units wide x 5 unit high - 85" (2159) x 94 3/4" (2407)
- Field Mulling beyond the above limitations is not recommended

Impact Certified Mull Limits: WDMA Hallmark certified to AAMA 450.

- 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 12" mull brackets fastened at all mull joints.
- Items not included in certified mulls: Standard mull assemblies, Integrity round tops, Integrity round tops by Marvin.

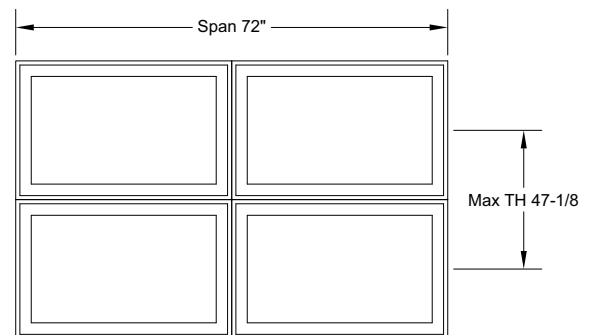
| 1 Directional Mull Limits | | | | |
|------------------------------------|----------------|---------------|------------------------------|---------|
| Product | Max Span | Max TW or TH | Max R.O. | DP |
| WU Casement Vertical Mulling IZ3 | 71 1/8" (1807) | 56" (1422) | 113" (2870) x 71 5/8" (1819) | +55/-65 |
| WU Casement Horizontal Mulling IZ3 | 72" (1829) | 47 18" (1197) | 73" (1854) x 94 3/4" (2407) | +55/-65 |

- Standard Mulls are not certified
- Assembly DP is lowest DP of mull or any product
- Stepped Mulls are not certified
- Tributary Width or Tributary Height = $1/2A + 1/2B$



2 Wide 2 High Directional Mull Limits

- 2 Wide 2 High Directional Mull Limits
- Standard Mulls are not certified
- Max assembly RO size – 73" (1854) x 94 3/4" (2407)
- Max TH – 47-1/8" (1197), Span – 72" (1829)
- No non-reinforced mull joints
- Reinforcement is continuous across horizontal member



Wood-Ultrex Casement / Awning

Standard Unit Measurements: Casement

| Casement Unit Measurements | | | | | | | | | | | | |
|----------------------------|-----------------|-------|---------------|-------|------------|-------|-----------|-------|-----------|-------|------------------|-------|
| Width | | | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Screen OM | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft-in | mm | ft - in | mm |
| 17 | 1-4 1/2 | (419) | 1-5 | (432) | 1-4 | (406) | 1-2 5/16 | (364) | 1-0 9/16 | (319) | 0-10 25/32 | (274) |
| 21 | 1-8 1/2 | (521) | 1-9 | (533) | 1-8 | (508) | 1-6 5/16 | (465) | 1-4 9/16 | (421) | 1-2 25/32 | (376) |
| 25 | 2-0 1/2 | (622) | 2-1 | (635) | 2-0 | (610) | 1-10 5/16 | (567) | 1-8 9/16 | (522) | 1-6 25/32 | (477) |
| 29 | 2-4 1/2 | (724) | 2-5 | (737) | 2-4 | (711) | 2-2 5/16 | (668) | 2-0 9/16 | (624) | 1-10 25/32 | (579) |
| 33 | 2-8 1/2 | (826) | 2-9 | (838) | 2-8 | (813) | 2-6 5/16 | (770) | 2-4 9/16 | (726) | 2-2 25/32 | (680) |
| 37 | 3-0 1/2 | (927) | 3-1 | (940) | 3-0 | (914) | 2-10 5/16 | (872) | 2-8 9/16 | (827) | 2-6 25/32 | (782) |

| Casement Unit Measurements | | | | | | | | | | | | |
|----------------------------|-----------------|--------|---------------|--------|------------|--------|-----------|--------|-----------|--------|------------------|--------|
| Height | | | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Screen OM | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft-in | mm | ft - in | mm |
| 31 | 2-7 3/8 | (797) | 2-7 5/8 | (803) | 2-7 1/8 | (791) | 2-5 7/16 | (748) | 2-3 7/32 | (691) | 2-1 29/32 | (658) |
| 35 | 2-11 3/8 | (899) | 2-11 5/8 | (905) | 2-11 1/8 | (892) | 2-9 7/16 | (849) | 2-7 7/32 | (793) | 2-5 29/32 | (760) |
| 39 | 3-3 3/8 | (1000) | 3-3 5/8 | (1006) | 3-3 1/8 | (994) | 3-1 7/16 | (951) | 2-11 7/32 | (895) | 2-9 29/32 | (861) |
| 43 | 3-7 1/2 | (1105) | 3-7 3/4 | (1111) | 3-7 1/4 | (1099) | 3-5 9/16 | (1056) | 3-3 11/32 | (999) | 3-2 1/32 | (966) |
| 47 | 3-11 3/8 | (1203) | 3-11 5/8 | (1210) | 3-11 1/8 | (1197) | 3-9 7/16 | (1154) | 3-7 7/32 | (1098) | 3-5 29/32 | (1065) |
| 55 | 4-7 3/8 | (1407) | 4-7 5/8 | (1413) | 4-7 1/8 | (1400) | 4-5 7/16 | (1357) | 4-3 7/32 | (1301) | 4-1 29/32 | (1268) |
| 59 | 4-11 3/8 | (1508) | 4-11 5/8 | (1514) | 4-11 1/8 | (1502) | 4-9 7/16 | (1459) | 4-7 7/32 | (1403) | 4-5 29/32 | (1369) |
| 63 | 5-3 3/8 | (1610) | 5-3 5/8 | (1616) | 5-3 1/8 | (1603) | 5-1 7/16 | (1561) | 4-11 7/32 | (1504) | 4-9 29/32 | (1471) |
| 71 | 5-11 3/8 | (1813) | 5-11 5/8 | (1819) | 5-11 1/8 | (1807) | 5-9 7/16 | (1764) | 5-7 7/32 | (1707) | 5-5 29/32 | (1674) |

NOTE: CE mark is available on operable and stationary units up to CN 3771.

For standard or impact casement elevations, visit: www.marvin.com

Wood-Ultrex Casement / Awning

Standard Unit Measurements: Awning

| Awning Unit Measurements | | | | | | | | | | | | |
|--------------------------|-----------------|--------|---------------|--------|------------|--------|-----------|--------|-----------|--------|------------------|--------|
| Width | | | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Screen OM | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft-in | mm | ft - in | mm |
| 25 | 2-0 1/2 | (622) | 2-1 | (635) | 2-0 | (610) | 1-10 5/16 | (567) | 1-8 9/16 | (522) | 1-6 25/32 | (477) |
| 29 | 2-4 1/2 | (724) | 2-5 | (737) | 2-4 | (711) | 2-2 5/16 | (668) | 2-0 9/16 | (624) | 1-10 25/32 | (579) |
| 33 | 2-8 1/2 | (826) | 2-9 | (838) | 2-8 | (813) | 2-6 5/16 | (770) | 2-4 9/16 | (726) | 2-2 25/32 | (680) |
| 37 | 3-0 1/2 | (927) | 3-1 | (940) | 3-0 | (914) | 2-10 5/16 | (872) | 2-8 9/16 | (827) | 2-6 25/32 | (782) |
| 41 | 3-4 1/2 | (1029) | 3-5 | (1041) | 3-4 | (1016) | 3-2 5/16 | (973) | 3-0 9/16 | (929) | 2-10 25/32 | (884) |
| 49 | 4-0 1/2 | (1232) | 4-1 | (1245) | 4-0 | (1219) | 3-10 5/16 | (1176) | 3-8 9/16 | (1132) | 3-6 25/32 | (1087) |

| Awning Unit Measurements | | | | | | | | | | | | |
|--------------------------|-----------------|--------|---------------|--------|------------|--------|-----------|--------|-----------|--------|------------------|--------|
| Height | | | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Screen OM | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft-in | mm | ft - in | mm |
| 19 | 1-7 3/8 | (492) | 1-7 5/8 | (498) | 1-7 1/8 | (486) | 1-5 7/16 | (443) | 1-3 7/32 | (387) | 1-1 29/32 | (353) |
| 23 | 1-11 3/8 | (594) | 1-11 5/8 | (600) | 1-11 1/8 | (587) | 1-9 7/16 | (545) | 1-7 7/32 | (488) | 1-5 29/32 | (455) |
| 27 | 2-3 3/8 | (695) | 2-3 5/8 | (702) | 2-3 1/8 | (689) | 2-1 7/16 | (646) | 1-11 7/32 | (590) | 1-9 29/32 | (557) |
| 35 | 2-11 3/8 | (899) | 2-11 5/8 | (905) | 2-11 1/8 | (892) | 2-9 7/16 | (849) | 2-7 7/32 | (793) | 2-5 29/32 | (760) |
| 39 | 3-3 3/8 | (1000) | 3-3 5/8 | (1006) | 3-3 1/8 | (994) | 3-1 7/16 | (951) | 2-11 7/32 | (895) | 2-9 29/32 | (861) |
| 47 | 3-11 3/8 | (1203) | 3-11 5/8 | (1210) | 3-11 1/8 | (1197) | 3-9 7/16 | (1154) | 3-7 7/32 | (1098) | 3-5 29/32 | (1065) |

NOTE: CE mark is available on operable and stationary units up to CN 4947.

Wood-Ultrex Casement / Awning

Standard Unit Measurements: Picture

| Casement/Awning Picture Unit Measurements | | | | | | | | | | |
|---|-----------------|--------|---------------|--------|------------|--------|-----------|--------|------------------|--------|
| Width | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm |
| 17 | 1-4 1/2 | (419) | 1-5 | (432) | 1-4 | (406) | 1-2 5/16 | (364) | 0-10 25/32 | (274) |
| 21 | 1-8 1/2 | (521) | 1-9 | (533) | 1-8 | (508) | 1-6 5/16 | (465) | 1-2 25/32 | (376) |
| 25 | 2-0 1/2 | (622) | 2-1 | (635) | 2-0 | (610) | 1-10 5/16 | (567) | 1-6 25/32 | (477) |
| 29 | 2-4 1/2 | (724) | 2-5 | (737) | 2-4 | (711) | 2-2 5/16 | (668) | 1-10 25/32 | (579) |
| 33 | 2-8 1/2 | (826) | 2-9 | (838) | 2-8 | (813) | 2-6 5/16 | (770) | 2-2 25/32 | (680) |
| 37 | 3-0 1/2 | (927) | 3-1 | (940) | 3-0 | (914) | 2-10 5/16 | (872) | 2-6 25/32 | (782) |
| 41 | 3-4 1/2 | (1029) | 3-5 | (1041) | 3-4 | (1016) | 3-2 5/16 | (973) | 2-10 25/32 | (884) |
| 49 | 4-0 1/2 | (1232) | 4-1 | (1245) | 4-0 | (1219) | 3-10 5/16 | (1176) | 3-6 25/32 | (1087) |
| 57 | 4-8 1/2 | (1435) | 4-9 | (1448) | 4-8 | (1422) | 4-6 5/16 | (1380) | 4-2 25/32 | (1290) |
| 73 | 6-0 1/2 | (1842) | 6-1 | (1854) | 6-0 | (1829) | 5-10 5/16 | (1786) | 5-6 25/32 | (1696) |

| Casement/Awning Picture Unit Measurements | | | | | | | | | | |
|---|-----------------|--------|---------------|--------|------------|--------|-----------|--------|------------------|--------|
| Height | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm |
| 19 | 1-7 3/8 | (492) | 1-7 5/8 | (498) | 1-7 1/8 | (486) | 1-5 7/16 | (443) | 1-1 29/32 | (353) |
| 23 | 1-11 3/8 | (594) | 1-11 5/8 | (600) | 1-11 1/8 | (587) | 1-9 7/16 | (545) | 1-5 29/32 | (455) |
| 27 | 2-3 3/8 | (695) | 2-3 5/8 | (702) | 2-3 1/8 | (689) | 2-1 7/16 | (646) | 1-9 29/32 | (557) |
| 31 | 2-7 3/8 | (797) | 2-7 5/8 | (803) | 2-7 1/8 | (791) | 2-5 7/16 | (748) | 2-1 29/32 | (658) |
| 35 | 2-11 3/8 | (899) | 2-11 5/8 | (905) | 2-11 1/8 | (892) | 2-9 7/16 | (849) | 2-5 29/32 | (760) |
| 39 | 3-3 3/8 | (1000) | 3-3 5/8 | (1006) | 3-3 1/8 | (994) | 3-1 7/16 | (951) | 2-9 29/32 | (861) |
| 43 | 3-7 1/2 | (1105) | 3-7 3/4 | (1111) | 3-7 1/4 | (1099) | 3-5 9/16 | (1056) | 3-2 1/32 | (966) |
| 47 | 3-11 3/8 | (1203) | 3-11 5/8 | (1210) | 3-11 1/8 | (1197) | 3-9 7/16 | (1154) | 3-5 29/32 | (1065) |
| 55 | 4-7 3/8 | (1407) | 4-7 5/8 | (1413) | 4-7 1/8 | (1400) | 4-5 7/16 | (1357) | 4-1 29/32 | (1268) |
| 59 | 4-11 3/8 | (1508) | 4-11 5/8 | (1514) | 4-11 1/8 | (1502) | 4-9 7/16 | (1459) | 4-5 29/32 | (1369) |
| 63 | 5-3 3/8 | (1610) | 5-3 5/8 | (1616) | 5-3 1/8 | (1603) | 5-1 7/16 | (1561) | 4-9 29/32 | (1471) |
| 71 | 5-11 3/8 | (1813) | 5-11 5/8 | (1819) | 5-11 1/8 | (1807) | 5-9 7/16 | (1764) | 5-5 29/32 | (1674) |

Wood-Ultrex Casement / Awning

Standard Unit Measurements: Transom

| Casement/Awning Transom Unit Measurements | | | | | | | | | | |
|---|-----------------|--------|---------------|--------|------------|--------|-----------|--------|------------------|--------|
| Width | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm |
| 17 | 1-4 1/2 | (419) | 1-5 | (432) | 1-4 | (406) | 1-2 5/16 | (364) | 0-10 25/32 | (274) |
| 21 | 1-8 1/2 | (521) | 1-9 | (533) | 1-8 | (508) | 1-6 5/16 | (465) | 1-2 25/32 | (376) |
| 25 | 2-0 1/2 | (622) | 2-1 | (635) | 2-0 | (610) | 1-10 5/16 | (567) | 1-6 25/32 | (477) |
| 29 | 2-4 1/2 | (724) | 2-5 | (737) | 2-4 | (711) | 2-2 5/16 | (668) | 1-10 25/32 | (579) |
| 33 | 2-8 1/2 | (826) | 2-9 | (838) | 2-8 | (813) | 2-6 5/16 | (770) | 2-2 25/32 | (680) |
| 37 | 3-0 1/2 | (927) | 3-1 | (940) | 3-0 | (914) | 2-10 5/16 | (872) | 2-6 25/32 | (782) |
| 41 | 3-4 1/2 | (1029) | 3-5 | (1041) | 3-4 | (1016) | 3-2 5/16 | (973) | 2-10 25/32 | (884) |
| 49 | 4-0 1/2 | (1232) | 4-1 | (1245) | 4-0 | (1219) | 3-10 5/16 | (1176) | 3-6 25/32 | (1087) |
| 57 | 4-8 1/2 | (1435) | 4-9 | (1448) | 4-8 | (1422) | 4-6 5/16 | (1380) | 4-2 25/32 | (1290) |
| 73 | 6-0 1/2 | (1842) | 6-1 | (1854) | 6-0 | (1829) | 5-10 5/16 | (1786) | 5-6 25/32 | (1696) |

| Casement/Awning Transom Unit Measurements | | | | | | | | | | |
|---|-----------------|-------|---------------|-------|------------|-------|-----------|-------|------------------|-------|
| Height | | | | | | | | | | |
| CN | Masonry Opening | | Rough Opening | | Frame Size | | Sash Size | | Daylight Opening | |
| | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm | ft - in | mm |
| 16 | 1-4 | (406) | 1-4 1/4 | (413) | 1-3 3/4 | (400) | 1-2 1/16 | (357) | 0-10 17/32 | (268) |
| 19 | 1-7 3/8 | (492) | 1-7 5/8 | (498) | 1-7 1/8 | (486) | 1-5 7/16 | (443) | 1-1 29/32 | (353) |

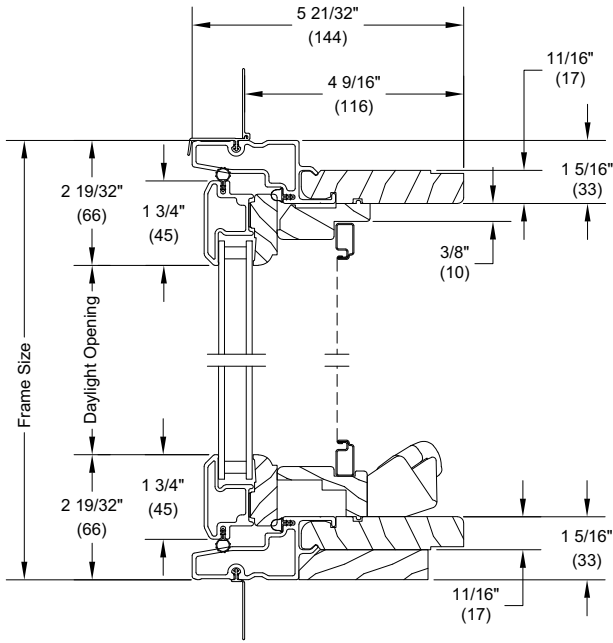
NOTE: CE mark is not available on Casement / Awning transoms.

Wood-Ultrex Casement / Awning

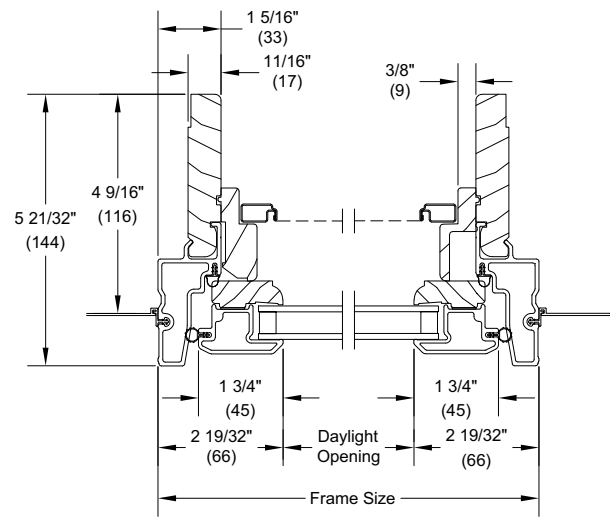
Section Details: Operating - Casement / Awning

Scale: 3" = 1' 0"

Operating - 4 9/16" (116)

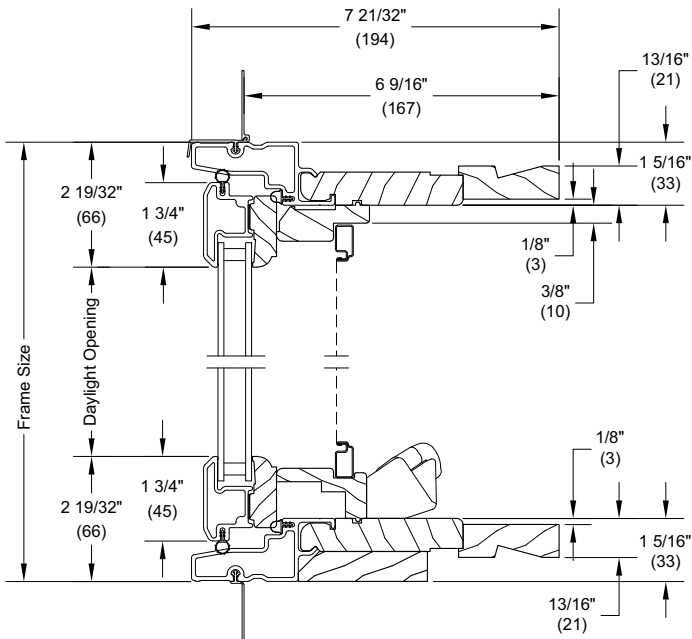


Head Jamb and Sill

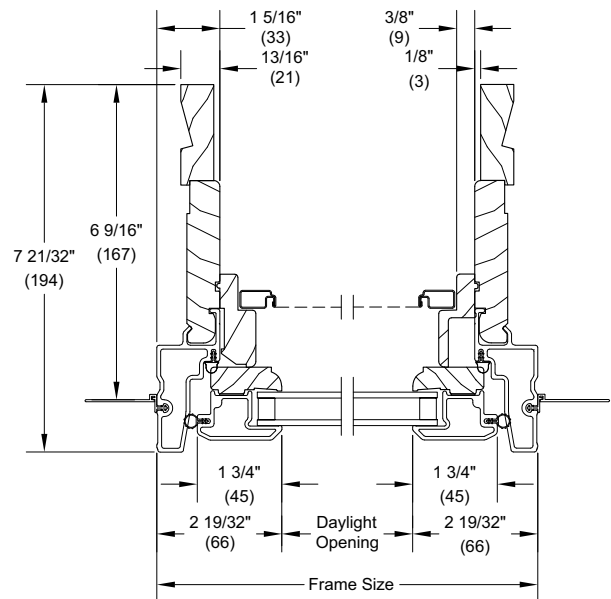


Jambs

Operating - 6 9/16" (167)



Head Jamb and Sill



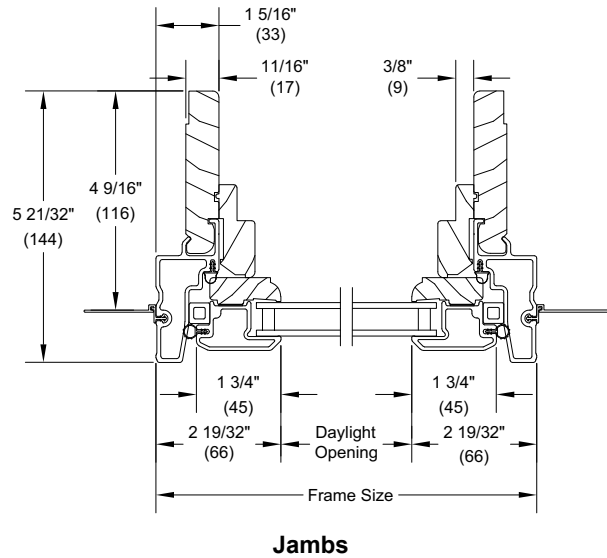
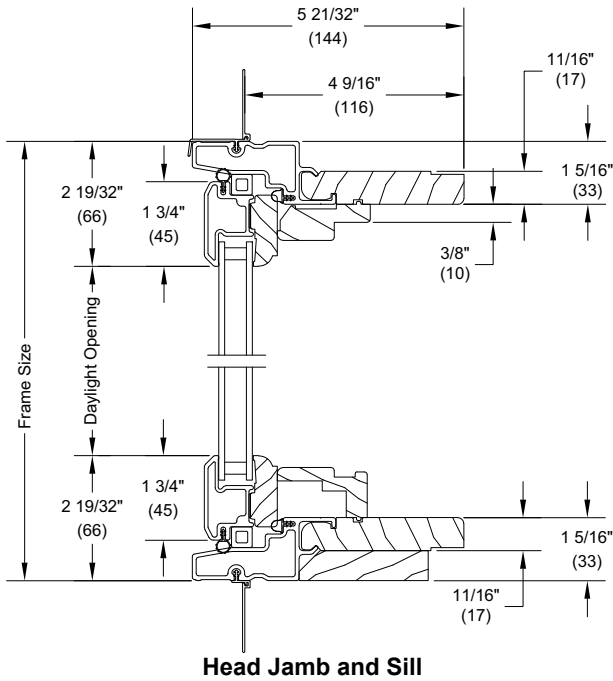
Jambs

Wood-Ultrex Casement / Awning

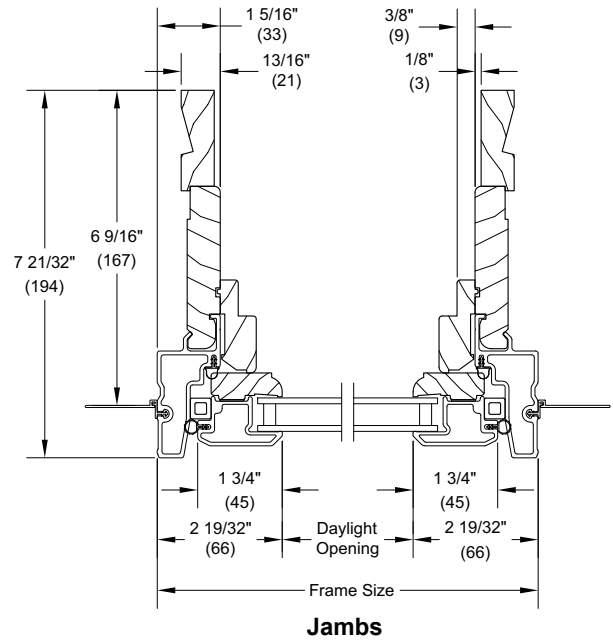
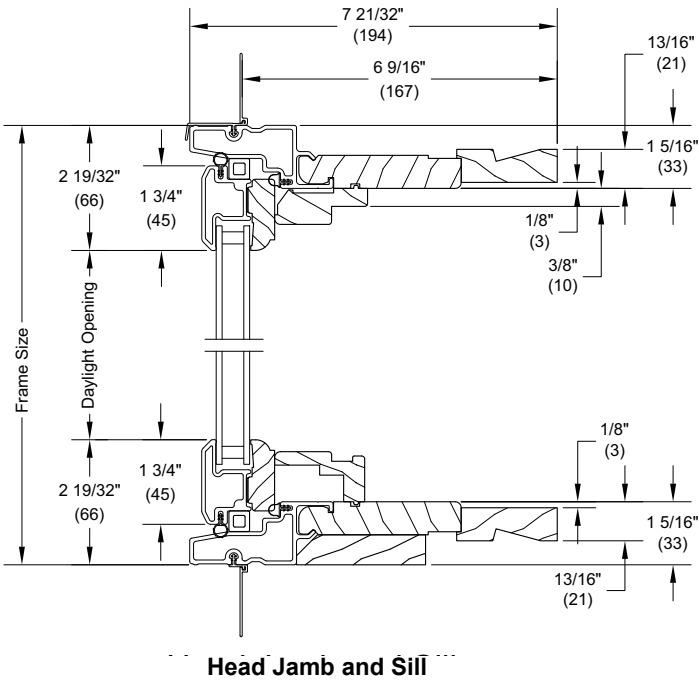
Section Details: Stationary/Picture - Casement / Awning

Scale: 3" = 1' 0"

Stationary/Picture - 4 9/16" (116)



Stationary/Picture - 6 9/16" (167)

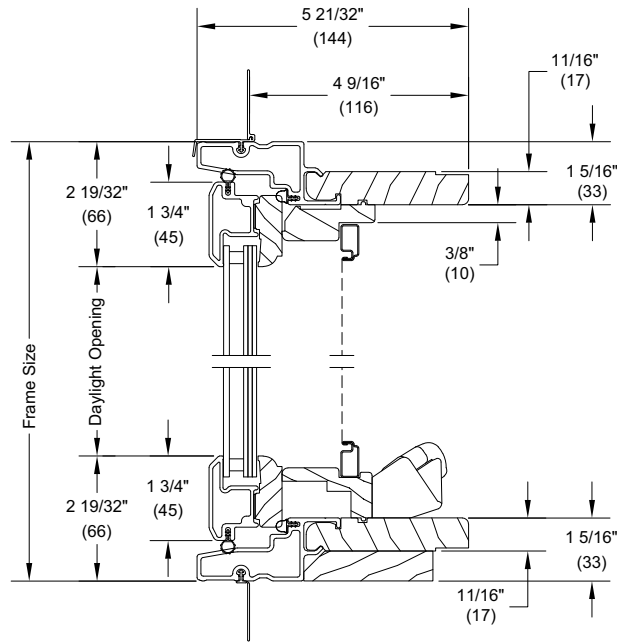


Wood-Ultrex Casement / Awning

Section Details: Casement Impact

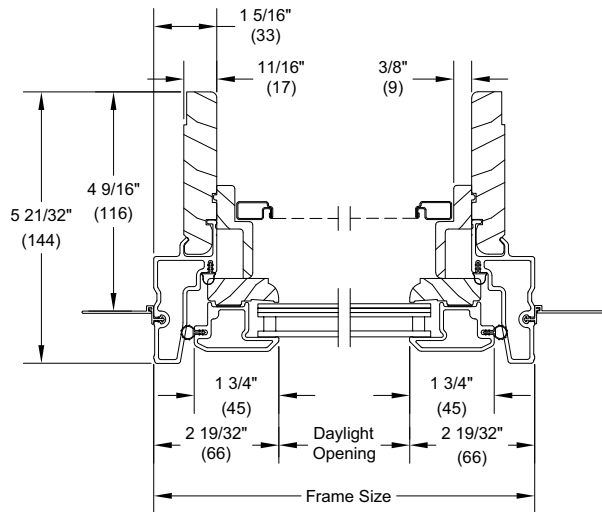
Scale: 3" = 1' 0"

Operating

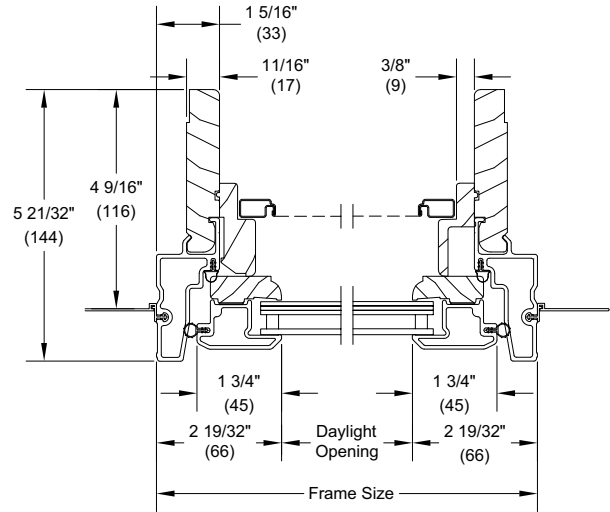


Head Jamb and Sill

Awning



Casement



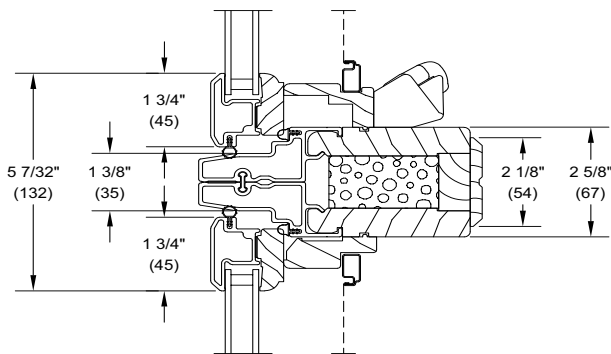
Jambs

NOTE: CE mark is not available on Impact units

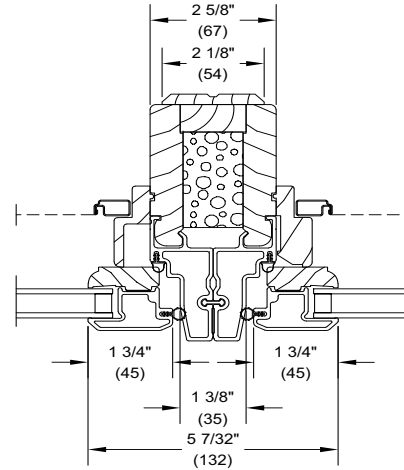
Wood-Ultrex Casement / Awning

Section Details: Casement/Awning Mullion Options

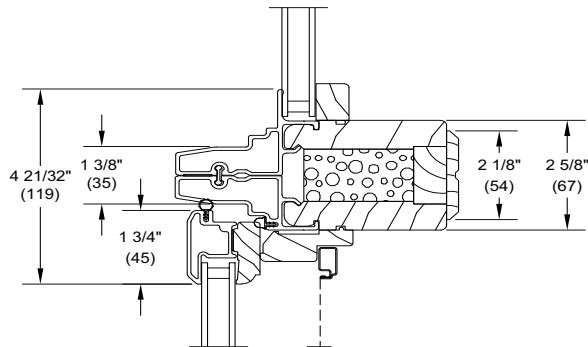
Scale: 3" = 1' 0"



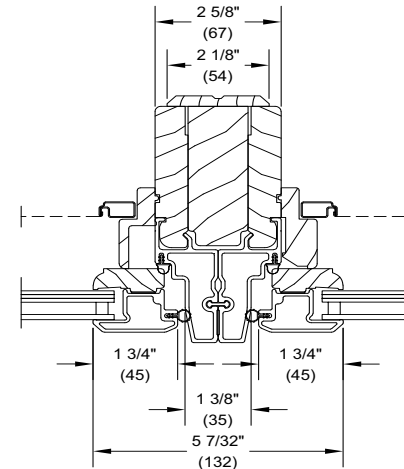
Awning Over Casement Unit



Casement or Awning Units 2 Wide



Direct Glaze Polygon Over Casement



Reinforced Casement or Awning Units 2 Wide

NOTE:

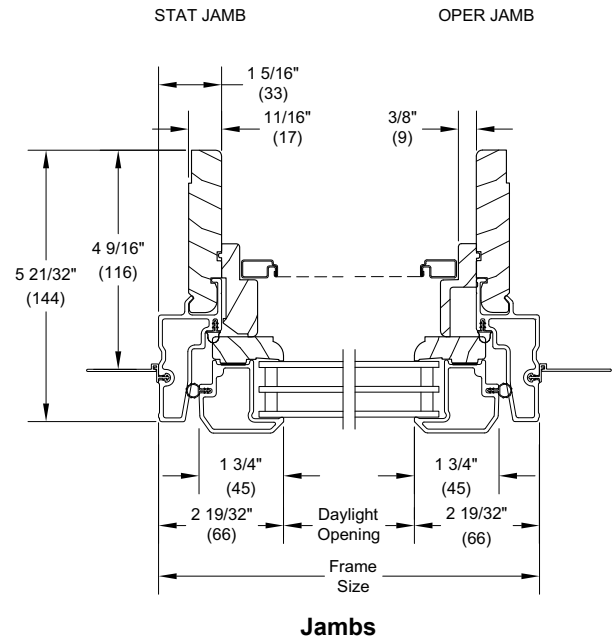
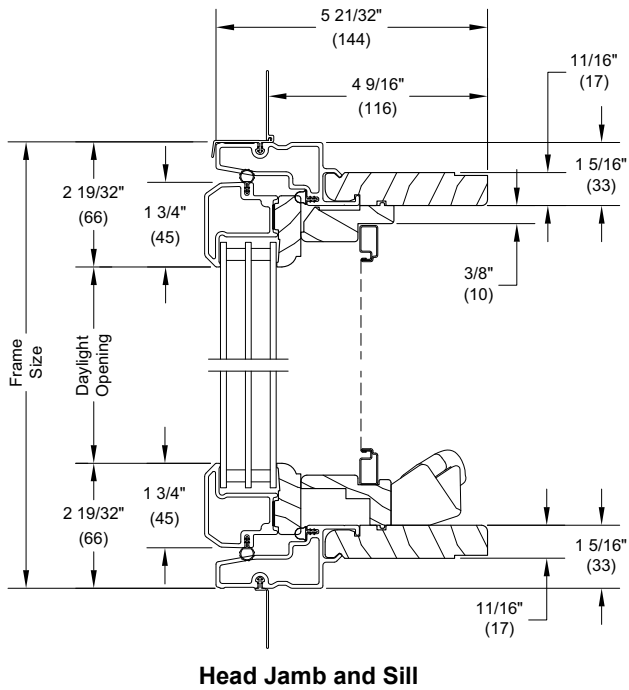


Represents units that are certified for Impact glazing with a wind zone 3.

Wood-Ultrex Casement / Awning

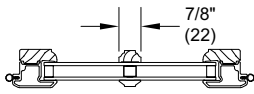
Section Details: Casement / Awning Tri-Pane Glass Option

Scale: 3" = 1' 0"

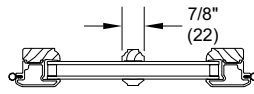


Wood-Ultrex Casement / Awning

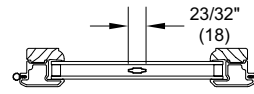
Section Details: Divided Lite Options



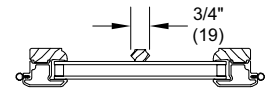
Wood SDL With Spacer Bar



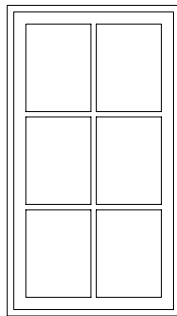
Wood SDL Without Spacer Bar



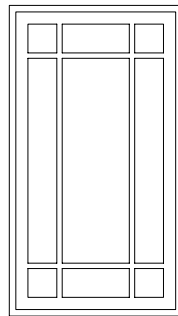
Aluminum Grille Between Glass
GBG or SDL



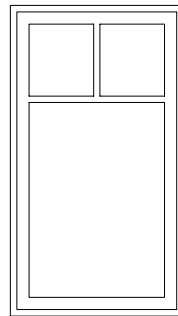
Wood Removable Grille



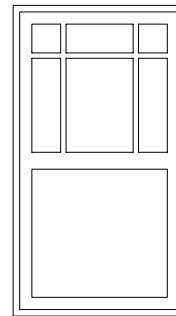
**Rectangle GBG
or SDL**



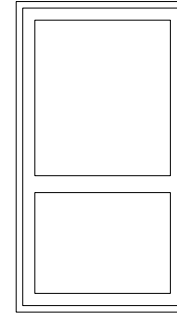
**Prairie
GBG or SDL**



**Cottage
GBG or SDL**



**Prairie SDL
w/ Simulate
Check Rail**



**Custom
Simulated Rail**

Conversions Formula:

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

NOTES:

- Direct Glaze Round Top with Wood Grilles, GBG, or SDL will only align with the default lite cut of the unit it is intended to be mullied with.
- Wood Grilles for special size units will default to the next smaller standard size lite pattern. Wood Grilles are not available in lite patterns other than the Wood Grille patterns listed in the following pages.
- 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.
- Round Top lite patterns will not align with Casement/Awning optional GBG or SDL 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.
- An ICADG 7316 with a wood grille will align over a 25-3W or 37-2W ICA assembly only.
- An ICATR 7316 or 7319 with a wood grille will align over a 73-1W picture unit only.
- GBGs are not available on Impact IZ3

Wood-Ultrex Casement / Awning

Available Divided Lite Patterns

Default Rectangular Lite Pattern per Sash - Wood Grille, GBG, SDL

| Standard CN | Standard CN Width | | | | | | | | | |
|-------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 17 | 21 | 25 | 29 | 33 | 37 | 41 | 49 | 57 | 73 |
| 16 ICADG | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6W1H |
| 16 | 2W1H | 2W1H | 2W1H | 3W1H | 3W1H | 3W1H | 4W1H | 4W1H | 5W1H | 7W1H |
| 19 | 1W2H | 2W2H | 2W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 5W2H | 7W2H |
| 23 | 1W2H | 2W2H | 2W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 5W2H | 7W2H |
| 27 | 1W2H | 2W2H | 2W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 5W2H | 7W2H |
| 31 | 1W2H | 2W2H | 2W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 5W2H | 7W2H |
| 35 | 1W2H | 2W2H | 2W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 5W2H | 7W2H |
| 39 | 1W3H | 2W3H | 2W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 5W3H | 7W3H |
| 43 | 1W3H | 2W3H | 2W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 5W3H | 7W3H |
| 47 | 1W3H | 2W3H | 2W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 5W3H | 7W3H |
| 55 | 1W4H | 2W4H | 2W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 5W4H | 7W4H |
| 59 | 1W4H | 2W4H | 2W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 5W4H | 7W4H |
| 63 | 1W5H | 2W5H | 2W5H | 3W5H | 3W5H | 3W5H | 4W5H | 4W5H | 5W5H | -- |
| 71 | 1W5H | 2W5H | 2W5H | 3W5H | 3W5H | 3W5H | 4W5H | 4W5H | 5W5H | -- |

Optional Prairie Lite Pattern per Sash - GBG, SDL

| Standard CN | Standard CN Width | | | | | | | | | |
|-------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| | 17 | 21 | 25 | 29 | 33 | 37 | 41 | 49 | 57 | 73 |
| 16 ICADG | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6-Lite Top |
| 16 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | N/A |
| 23 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 27 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 31 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 35 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 39 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 43 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 47 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 55 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 59 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite |
| 63 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | -- |
| 71 | N/A | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | 9-Lite | -- |

Optional Cottage Lite Pattern per Sash - SDL

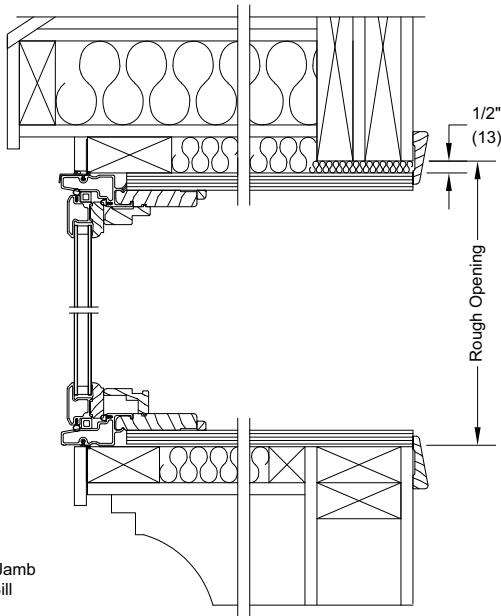
| Standard CN | Standard CN Width | | | | | | | | | |
|-------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 17 | 21 | 25 | 29 | 33 | 37 | 41 | 49 | 57 | 73 |
| 16 ICADG | -- | -- | -- | -- | -- | -- | -- | -- | -- | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 23 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 27 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 31 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 35 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 39 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 43 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 47 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 55 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 59 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | 8-Lite |
| 63 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | -- |
| 71 | 2-Lite | 3-Lite | 3-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 6-Lite | -- |

NOTE: Prairie lite pattern is not available in the CN19 height transoms.

Wood-Ultrex Casement / Awning

Bow / Bay Units

Scale: 3/4" = 1' 0"



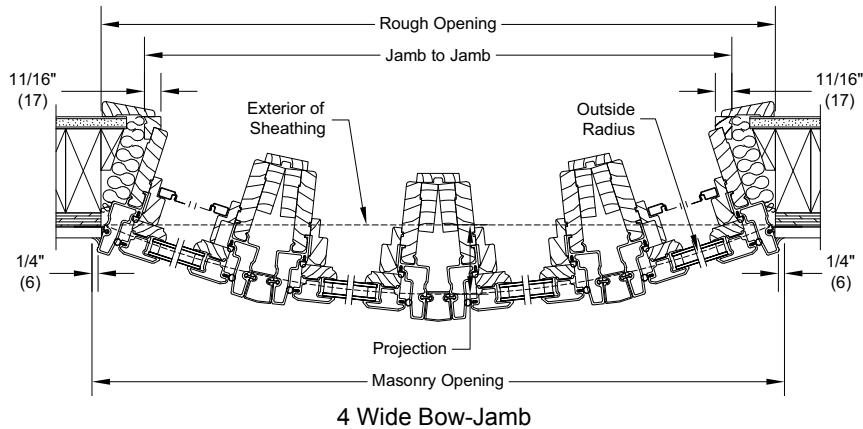
Head Jamb & Sill

| Casement Bay / Bow Height Dimensions | | | | |
|--------------------------------------|-----------|--------|------------|--------|
| Unit # | MO Height | | RO Height | |
| | ft-in | mm | ft-in | mm |
| 31 | 2-7 9/16 | (802) | 2-7 13/16 | (808) |
| 35 | 2-11 9/16 | (903) | 2-11 13/16 | (910) |
| 39 | 3-3 9/16 | (1005) | 3-3 13/16 | (1011) |
| 43 | 3-7 9/16 | (1107) | 3-7 13/16 | (1113) |
| 47 | 3-11 9/16 | (1208) | 3-11 13/16 | (1214) |
| 55 | 4-7 9/16 | (1411) | 4-7 13/16 | (1418) |
| 59 | 4-11 9/16 | (1513) | 4-11 13/16 | (1519) |
| 63 | 5-3 9/16 | (1615) | 5-3 13/16 | (1621) |
| 71 | 5-11 9/16 | (1818) | 5-11 13/16 | (1824) |

NOTES:

- Impact glazed units are not available in Bow/Bay configuration.
- Structural support members supplied by others.
- CE mark is not available in Casement Bow/Bay configuration.

| 4 and 5 Wide Casement Bow Widths | | | | | | |
|----------------------------------|-----------|--------|-----------|--------|------------|-------|
| Unit # | MO Width | | RO Width | | Projection | |
| | ft-in | mm | ft-in | mm | ft-in | mm |
| 17-4W | 5-6 3/8 | (1686) | 5-6 1/4 | (1683) | 0-6 7/8 | (175) |
| 21-4W | 6-9 15/16 | (2081) | 6-9 13/16 | (2078) | 0-8 9/16 | (217) |
| 25-4W | 8-1 1/2 | (2477) | 8-1 3/8 | (2474) | 0-10 3/16 | (259) |
| 29-4W | 9-5 1/16 | (2872) | 9-4 15/16 | (2869) | 0-11 7/8 | (301) |
| 17-5W | 6-9 13/16 | (2078) | 6-9 1/2 | (2070) | 0-10 1/4 | (260) |
| 21-5W | 8-4 15/16 | (2564) | 8-4 5/8 | (2556) | 1-0 11/16 | (323) |
| 25-5W | 10-0 1/16 | (3050) | 9-11 3/4 | (3042) | 1-3 3/16 | (385) |



4 Wide Bow-Jamb

Wood-Ultrex Casement / Awning

30° Bay Units

| 30 Degree Casement Bay - Width Dimensions | | | | | | | | |
|---|-----------|--------|----------|--------|--------------|--------|------------|-------|
| Unit # | MO Width | | RO Width | | Jamb to Jamb | | Projection | |
| | ft-in | mm | ft-in | mm | ft-in | mm | ft-in | mm |
| 17 Wide Units | | | | | | | | |
| 17-17-17 | 4-1 15/16 | (1268) | 4-1 3/8 | (1255) | 3-7 7/8 | (1114) | 0-8 5/8 | (219) |
| 17-21-17 | 4-5 15/16 | (1370) | 4-5 3/8 | (1356) | 3-11 7/8 | (1216) | 0-8 5/8 | (219) |
| 17-25-17 | 4-9 15/16 | (1471) | 4-9 3/8 | (1458) | 4-3 7/8 | (1318) | 0-8 5/8 | (219) |
| 17-29-17 | 5-1 15/16 | (1573) | 5-1 3/8 | (1559) | 4-7 7/8 | (1419) | 0-8 5/8 | (219) |
| 17-33-17 | 5-5 15/16 | (1674) | 5-5 3/8 | (1661) | 4-11 7/8 | (1521) | 0-8 5/8 | (219) |
| 17-37-17 | 5-9 15/16 | (1776) | 5-9 3/8 | (1763) | 5-3 7/8 | (1622) | 0-8 5/8 | (219) |
| 17-41-17 | 6-1 15/16 | (1878) | 6-1 3/8 | (1864) | 5-7 7/8 | (1724) | 0-8 5/8 | (219) |
| 17-49-17 | 6-9 15/16 | (2081) | 6-9 3/8 | (2067) | 6-3 7/8 | (1927) | 0-8 5/8 | (219) |
| 21 Wide Units | | | | | | | | |
| 21-17-21 | 4-8 7/8 | (1444) | 4-8 5/16 | (1431) | 4-2 13/16 | (1290) | 0-10 5/8 | (270) |
| 21-21-21 | 5-0 7/8 | (1546) | 5-0 5/16 | (1532) | 4-6 13/16 | (1392) | 0-10 5/8 | (270) |
| 21-25-21 | 5-4 7/8 | (1647) | 5-4 5/16 | (1634) | 4-10 13/16 | (1494) | 0-10 5/8 | (270) |
| 21-29-21 | 5-8 7/8 | (1749) | 5-8 5/16 | (1735) | 5-2 13/16 | (1595) | 0-10 5/8 | (270) |
| 21-33-21 | 6-0 7/8 | (1850) | 6-0 5/16 | (1837) | 5-6 13/16 | (1697) | 0-10 5/8 | (270) |
| 21-37-21 | 6-4 7/8 | (1952) | 6-4 5/16 | (1939) | 5-10 13/16 | (1798) | 0-10 5/8 | (270) |
| 21-41-21 | 6-8 7/8 | (2054) | 6-8 5/16 | (2040) | 6-2 13/16 | (1900) | 0-10 5/8 | (270) |
| 21-49-21 | 7-4 7/8 | (2257) | 7-4 5/16 | (2243) | 6-10 13/16 | (2103) | 0-10 5/8 | (270) |
| 21-57-21 | 8-0 7/8 | (2460) | 8-0 5/16 | (2447) | 7-6 13/16 | (2306) | 0-10 5/8 | (270) |
| 21-73-21 | 9-4 7/8 | (2866) | 9-4 5/16 | (2853) | 8-10 13/16 | (2713) | 0-10 5/8 | (270) |
| 25 Wide Units | | | | | | | | |
| 25-17-25 | 5-3 3/4 | (1620) | 5-3 1/4 | (1607) | 4-9 3/4 | (1466) | 1-0 5/8 | (321) |
| 25-21-25 | 5-7 3/4 | (1721) | 5-7 1/4 | (1708) | 5-1 3/4 | (1568) | 1-0 5/8 | (321) |
| 25-25-25 | 5-11 3/4 | (1823) | 5-11 1/4 | (1810) | 5-5 3/4 | (1669) | 1-0 5/8 | (321) |
| 25-29-25 | 6-3 3/4 | (1925) | 6-3 1/4 | (1911) | 5-9 3/4 | (1771) | 1-0 5/8 | (321) |
| 25-33-25 | 6-7 3/4 | (2026) | 6-7 1/4 | (2013) | 6-1 3/4 | (1873) | 1-0 5/8 | (321) |
| 25-37-25 | 6-11 3/4 | (2128) | 6-11 1/4 | (2115) | 6-5 3/4 | (1974) | 1-0 5/8 | (321) |
| 25-41-25 | 7-3 3/4 | (2229) | 7-3 1/4 | (2216) | 6-9 3/4 | (2076) | 1-0 5/8 | (321) |
| 25-49-25 | 7-11 3/4 | (2433) | 7-11 1/4 | (2419) | 7-5 3/4 | (2279) | 1-0 5/8 | (321) |
| 25-57-25 | 8-7 3/4 | (2636) | 8-7 1/4 | (2623) | 8-1 3/4 | (2482) | 1-0 5/8 | (321) |

NOTES:

- Factory assembled. Bay/Bow units include head and seat boards.
- 30 Bay mull kits available for field assembly.
- Structural support member and interior trim supplied by others.

Wood-Ultrex Casement / Awning

30° Bay Units

| 30 Degree Casement Bay - Width Dimensions | | | | | | | | |
|---|------------|--------|-----------|--------|--------------|--------|------------|-------|
| Unit # | MO Width | | RO Width | | Jamb to Jamb | | Projection | |
| | ft-in | mm | ft-in | mm | ft-in | mm | ft-in | mm |
| 29 Wide Units | | | | | | | | |
| 29-17-29 | 5-10 11/16 | (1796) | 5-10 3/16 | (1782) | 5-4 5/8 | (1642) | 1-2 5/8 | (372) |
| 29-21-29 | 6-2 11/16 | (1897) | 6-2 3/16 | (1884) | 5-8 5/8 | (1744) | 1-2 5/8 | (372) |
| 29-25-29 | 6-6 11/16 | (1999) | 6-6 3/16 | (1986) | 6-0 5/8 | (1845) | 1-2 5/8 | (372) |
| 29-29-29 | 6-10 11/16 | (2101) | 6-10 3/16 | (2087) | 6-4 5/8 | (1947) | 1-2 5/8 | (372) |
| 29-33-29 | 7-2 11/16 | (2202) | 7-2 3/16 | (2189) | 6-8 5/8 | (2049) | 1-2 5/8 | (372) |
| 29-37-29 | 7-6 11/16 | (2304) | 7-6 3/16 | (2290) | 7-0 5/8 | (2150) | 1-2 5/8 | (372) |
| 29-41-29 | 7-10 11/16 | (2405) | 7-10 3/16 | (2392) | 7-4 5/8 | (2252) | 1-2 5/8 | (372) |
| 29-49-29 | 8-6 11/16 | (2609) | 8-6 3/16 | (2595) | 8-0 5/8 | (2455) | 1-2 5/8 | (372) |
| 29-57-29 | 9-2 11/16 | (2812) | 9-2 3/16 | (2798) | 8-8 5/8 | (2658) | 1-2 5/8 | (372) |
| 33 Wide Units | | | | | | | | |
| 33-17-33 | 6-5 5/8 | (1972) | 6-5 1/8 | (1958) | 5-11 9/16 | (1818) | 1-4 5/8 | (422) |
| 33-21-33 | 6-9 5/8 | (2073) | 6-9 1/8 | (2060) | 6-3 9/16 | (1920) | 1-4 5/8 | (422) |
| 33-25-33 | 7-1 5/8 | (2175) | 7-1 1/8 | (2162) | 6-7 9/16 | (2021) | 1-4 5/8 | (422) |
| 33-29-33 | 7-5 5/8 | (2277) | 7-5 1/8 | (2263) | 6-11 9/16 | (2123) | 1-4 5/8 | (422) |
| 33-33-33 | 7-9 5/8 | (2378) | 7-9 1/8 | (2365) | 7-3 9/16 | (2225) | 1-4 5/8 | (422) |
| 33-37-33 | 8-1 5/8 | (2480) | 8-1 1/8 | (2466) | 7-7 9/16 | (2326) | 1-4 5/8 | (422) |
| 33-41-33 | 8-5 5/8 | (2581) | 8-5 1/8 | (2568) | 7-11 9/16 | (2428) | 1-4 5/8 | (422) |
| 33-49-33 | 9-1 5/8 | (2785) | 9-1 1/8 | (2771) | 8-7 9/16 | (2631) | 1-4 5/8 | (422) |
| 37 Wide Units | | | | | | | | |
| 37-17-37 | 7-0 9/16 | (2148) | 7-0 1/16 | (2134) | 6-6 1/2 | (1994) | 1-6 5/8 | (473) |
| 37-21-37 | 7-4 9/16 | (2249) | 7-4 1/16 | (2236) | 6-10 1/2 | (2096) | 1-6 5/8 | (473) |
| 37-25-37 | 7-8 9/16 | (2351) | 7-8 1/16 | (2338) | 7-2 1/2 | (2197) | 1-6 5/8 | (473) |
| 37-29-37 | 8-0 9/16 | (2453) | 8-0 1/16 | (2439) | 7-6 1/2 | (2299) | 1-6 5/8 | (473) |
| 37-33-37 | 8-4 9/16 | (2554) | 8-4 1/16 | (2541) | 7-10 1/2 | (2401) | 1-6 5/8 | (473) |
| 37-37-37 | 8-8 9/16 | (2656) | 8-8 1/16 | (2642) | 8-2 1/2 | (2502) | 1-6 5/8 | (473) |

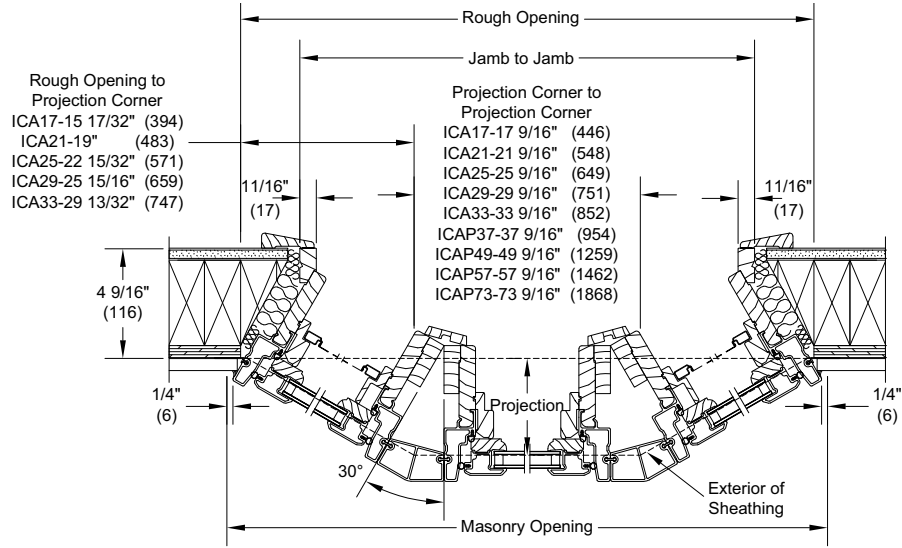
NOTES:

- *Factory assembled. Bay/Bow units include head and seat boards.*
- *30 Bay mull kits available for field assembly.*
- *Structural support member and interior trim supplied by others.*

Wood-Ultrex Casement / Awning

Section Details: 30° Bay Units

Scale: 3" = 1' 0"



Wood-Ultrex Casement / Awning

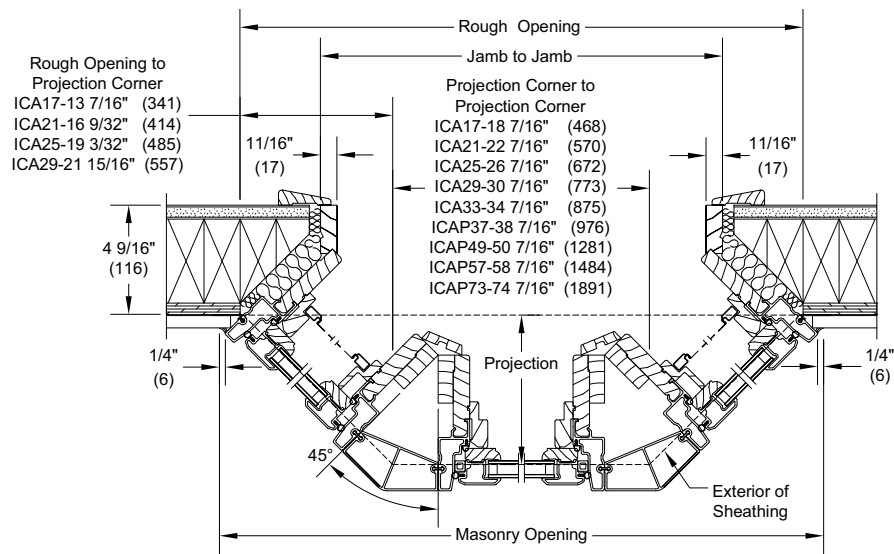
45° Bay Units

| 45 Degree Casement Bay - Width Dimensions | | | | | | | | |
|---|-----------|--------|------------|--------|--------------|--------|------------|-------|
| Unit # | MO Width | | RO Width | | Jamb to Jamb | | Projection | |
| | ft-in | mm | ft-in | mm | ft-in | mm | ft-in | mm |
| 17 Wide Units | | | | | | | | |
| 17-17-17 | 3-11 1/8 | (1198) | 3-10 3/16 | (1173) | 3-2 3/4 | (984) | 1-0 11/16 | (322) |
| 17-21-17 | 4-3 1/8 | (1299) | 4-2 3/16 | (1274) | 3-6 3/4 | (1085) | 1-0 11/16 | (322) |
| 17-25-17 | 4-7 1/8 | (1401) | 4-6 3/16 | (1376) | 3-10 3/4 | (1187) | 1-0 11/16 | (322) |
| 17-29-17 | 4-11 1/8 | (1503) | 4-10 3/16 | (1478) | 4-2 3/4 | (1289) | 1-0 11/16 | (322) |
| 17-33-17 | 5-3 1/8 | (1604) | 5-2 3/16 | (1579) | 4-6 3/4 | (1390) | 1-0 11/16 | (322) |
| 17-37-17 | 5-7 1/8 | (1706) | 5-6 3/16 | (1681) | 4-10 3/4 | (1492) | 1-0 11/16 | (322) |
| 17-41-17 | 5-11 1/8 | (1807) | 5-10 3/16 | (1782) | 5-2 3/4 | (1593) | 1-0 11/16 | (322) |
| 17-49-17 | 6-7 1/8 | (2011) | 6-6 3/16 | (1986) | 5-10 3/4 | (1797) | 1-0 11/16 | (322) |
| 21 Wide Units | | | | | | | | |
| 21-17-21 | 4-4 13/16 | (1341) | 4-3 13/16 | (1317) | 3-8 3/8 | (1127) | 1-3 1/2 | (394) |
| 21-21-21 | 4-8 13/16 | (1443) | 4-7 13/16 | (1418) | 4-0 3/8 | (1229) | 1-3 1/2 | (394) |
| 21-25-21 | 5-0 13/16 | (1545) | 4-11 13/16 | (1520) | 4-4 3/8 | (1331) | 1-3 1/2 | (394) |
| 21-29-21 | 5-4 13/16 | (1646) | 5-3 13/16 | (1621) | 4-8 3/8 | (1432) | 1-3 1/2 | (394) |
| 21-33-21 | 5-8 13/16 | (1748) | 5-7 13/16 | (1723) | 5-0 3/8 | (1534) | 1-3 1/2 | (394) |
| 21-37-21 | 6-0 13/16 | (1849) | 5-11 13/16 | (1825) | 5-4 3/8 | (1635) | 1-3 1/2 | (394) |
| 21-41-21 | 6-4 13/16 | (1951) | 6-3 13/16 | (1926) | 5-8 3/8 | (1737) | 1-3 1/2 | (394) |
| 21-49-21 | 7-0 13/16 | (2154) | 6-11 13/16 | (2129) | 6-4 3/8 | (1940) | 1-3 1/2 | (394) |
| 21-57-21 | 7-8 13/16 | (2357) | 7-7 13/16 | (2333) | 7-0 3/8 | (2143) | 1-3 1/2 | (394) |
| 21-73-21 | 9-0 13/16 | (2764) | 8-11 13/16 | (2739) | 8-4 3/8 | (2550) | 1-3 1/2 | (394) |
| 25 Wide Units | | | | | | | | |
| 25-17-25 | 4-10 1/2 | (1485) | 4-9 1/2 | (1460) | 4-2 1/16 | (1271) | 1-6 5/16 | (466) |
| 25-21-25 | 5-2 1/2 | (1587) | 5-1 1/2 | (1562) | 4-6 1/16 | (1373) | 1-6 5/16 | (466) |
| 25-25-25 | 5-6 1/2 | (1688) | 5-5 1/2 | (1663) | 4-10 1/16 | (1474) | 1-6 5/16 | (466) |
| 25-29-25 | 5-10 1/2 | (1790) | 5-9 1/2 | (1765) | 5-2 1/16 | (1576) | 1-6 5/16 | (466) |
| 25-33-25 | 6-2 1/2 | (1892) | 6-1 1/2 | (1867) | 5-6 1/16 | (1678) | 1-6 5/16 | (466) |
| 25-37-25 | 6-6 1/2 | (1993) | 6-5 1/2 | (1968) | 5-10 1/16 | (1779) | 1-6 5/16 | (466) |
| 25-41-25 | 6-10 1/2 | (2095) | 6-9 1/2 | (2070) | 6-2 1/16 | (1881) | 1-6 5/16 | (466) |
| 25-49-25 | 7-6 1/2 | (2298) | 7-5 1/2 | (2273) | 6-10 1/16 | (2084) | 1-6 5/16 | (466) |
| 25-57-25 | 8-2 1/2 | (2501) | 8-1 1/2 | (2476) | 7-6 1/16 | (2287) | 1-6 5/16 | (466) |
| 25-73-25 | 9-6 1/2 | (2908) | 9-5 1/2 | (2883) | 8-10 1/16 | (2694) | 1-6 5/16 | (466) |
| 29 Wide Units | | | | | | | | |
| 29-17-29 | 5-4 1/8 | (1629) | 5-3 1/8 | (1604) | 4-7 11/16 | (1415) | 1-9 1/8 | (537) |
| 29-21-29 | 5-8 1/8 | (1730) | 5-7 1/8 | (1705) | 4-11 11/16 | (1516) | 1-9 1/8 | (537) |
| 29-25-29 | 6-0 1/8 | (1832) | 5-11 1/8 | (1807) | 5-3 11/16 | (1618) | 1-9 1/8 | (537) |
| 29-29-29 | 6-4 1/8 | (1934) | 6-3 1/8 | (1909) | 5-7 11/16 | (1720) | 1-9 1/8 | (537) |
| 29-33-29 | 6-8 1/8 | (2035) | 6-7 1/8 | (2010) | 5-11 11/16 | (1821) | 1-9 1/8 | (537) |
| 29-37-29 | 7-0 1/8 | (2137) | 6-11 1/8 | (2112) | 6-3 11/16 | (1923) | 1-9 1/8 | (537) |
| 29-41-29 | 7-4 1/8 | (2238) | 7-3 1/8 | (2213) | 6-7 11/16 | (2024) | 1-9 1/8 | (537) |
| 29-49-29 | 8-0 1/8 | (2442) | 7-11 1/8 | (2417) | 7-3 11/16 | (2228) | 1-9 1/8 | (537) |
| 29-57-29 | 8-8 1/8 | (2645) | 8-7 1/8 | (2620) | 7-11 11/16 | (2431) | 1-9 1/8 | (537) |

Wood-Ultrex Casement / Awning

Section Details: 45° Bay Units

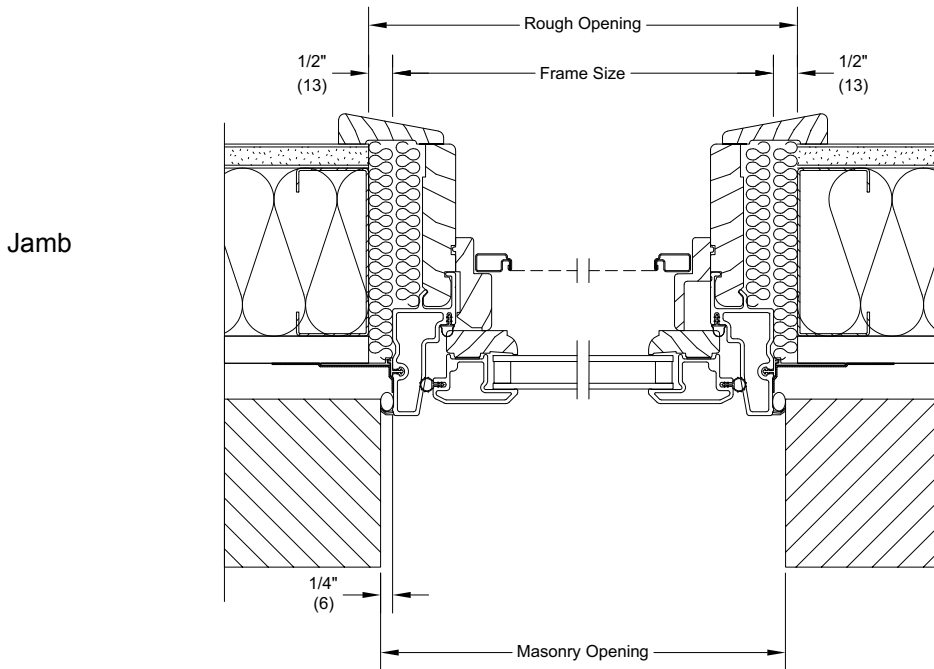
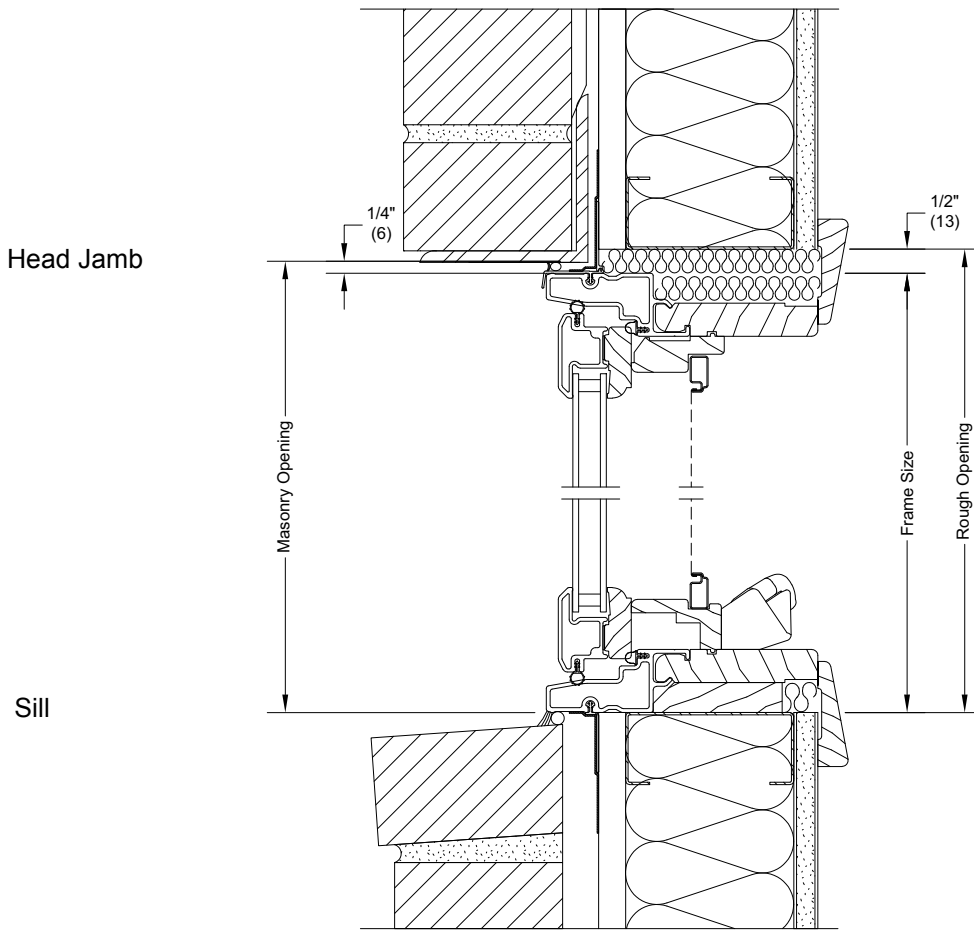
Scale: 3" = 1' 0"



Wood-Ultrex Casement / Awning

Section Details: Installation Suggestion - Brick Veneer With Steel Frame Construction

Scale: 1 1/2" - 1' 0"



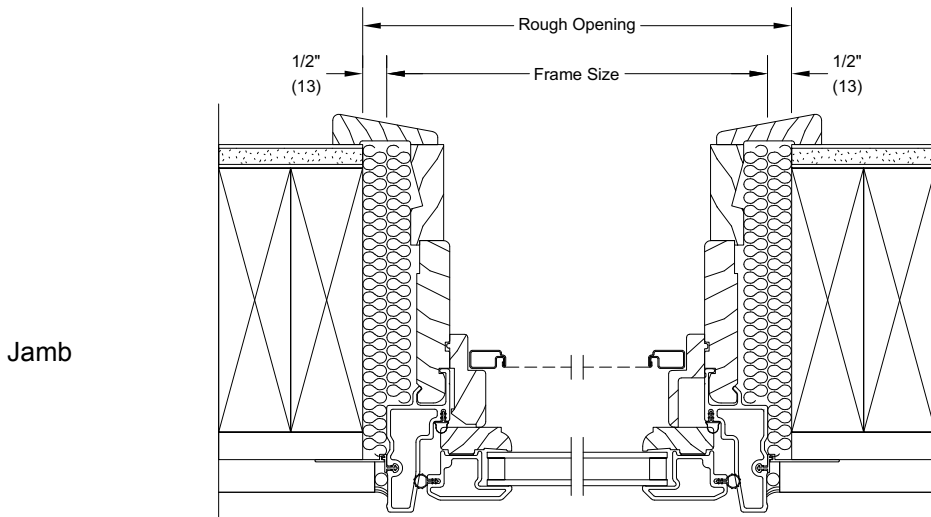
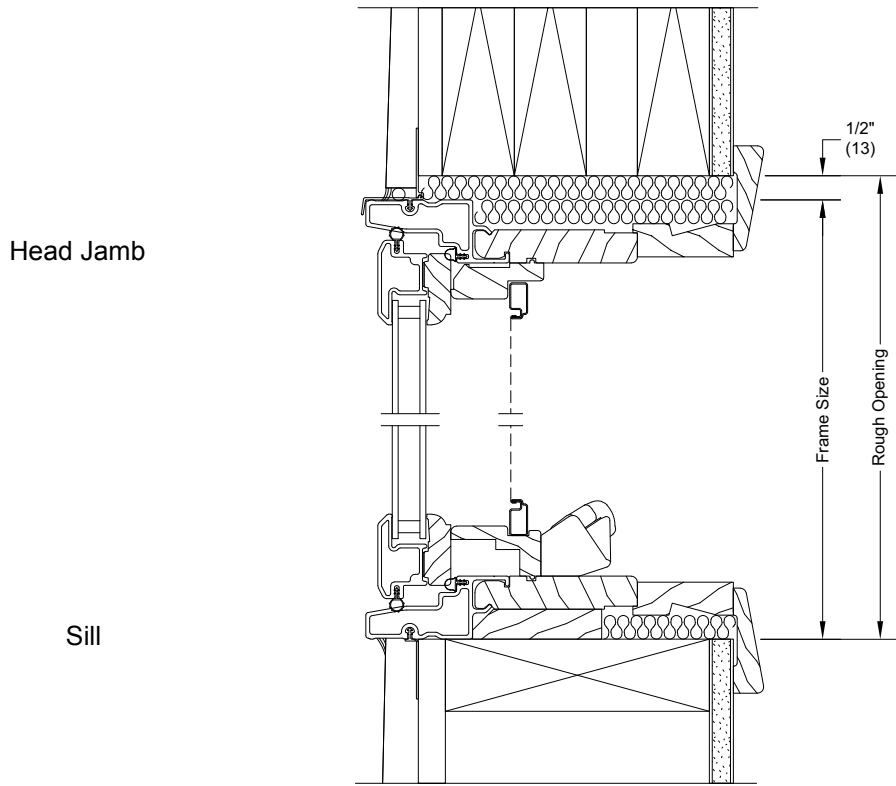
NOTES:

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

Wood-Ultrex Casement / Awning

Section Details: Installation Suggestion - Wood Siding With 2x6 Frame Construction

Scale: 1 1/2" - 1' 0"



NOTES:

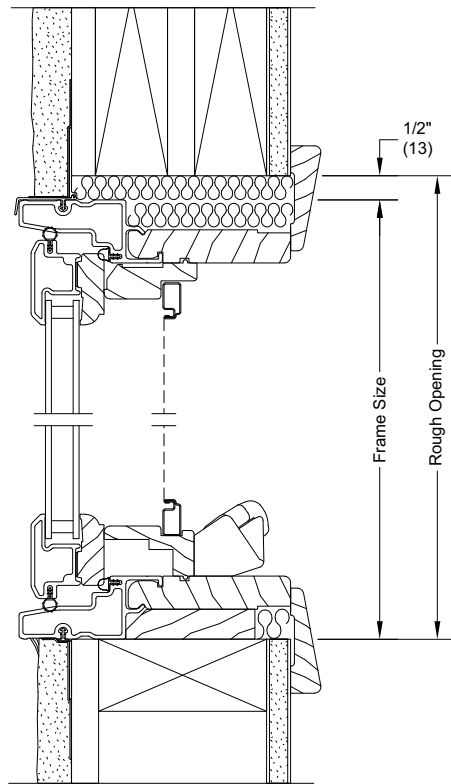
- The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.
- Picture unit installation similar. Picture units may require both nailing fin and installation brackets.

Wood-Ultrex Casement / Awning

Section Details: Installation Suggestion - Stucco With 2x4 Frame Construction

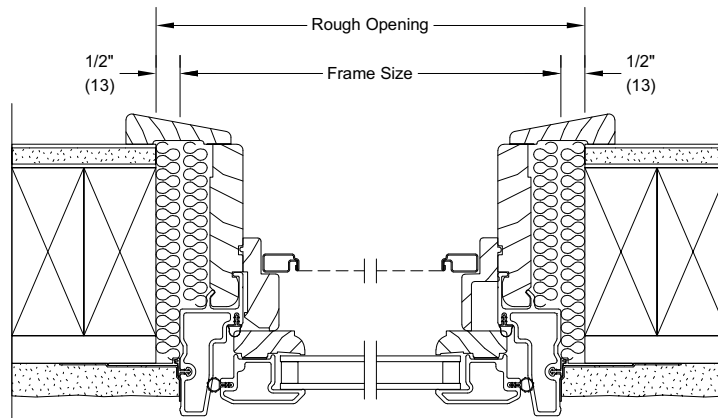
Scale: 1 1/2" - 1' 0"

Head Jamb



Sill

Jamb



NOTES:

- The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.
- Picture unit installation similar. Picture units may require both nailing fin and installation brackets.