CHAPTER 3

INTEGRITY WOOD–ULTREX DOUBLE HUNG (ITDH)
INTEGRITY WOOD–ULTREX DOUBLE HUNG PICTURE (ITDHP)
INTEGRITY WOOD–ULTREX DOUBLE HUNG TRANSOM (ITDHT)

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ATTENTION:

- Specifications and technical data are subject to change without notice.
- Dimensions in parenthesis are in millimeters or square meters
- Allow 1/16″ (2) tolerance on all measurements.
- Interior mullion trim are shipped loose for field installation.
- For answers to technical questions about Integrity products you may call our Integrity Support Line: 1–800–587–2712.
- Website: www.integritywindows.com

WOOD–ULTREX DOUBLE HUNG

UNIT FEATURES

FRAME AND SASH:

The frame and sash exteriors are made of Ultrex®, an advanced fiber reinforced material that is resistant to thermal conductance. Ultrex patented coating system meets all the requirements of AAMA 624-10. Exterior colors: Stone White, Pebble Gray, 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-repellant, preservative treated in accordance with WDMA I.S.4. Interior wood is available as Pine bare wood or factory–applied white interior finish.

Frame:

Composite frame thickness is 1 9/16″ (40). Frame width of 4 9/16″ (116). Flat bottom sill with 13 degree bevel. Non Finger–Jointed pine interior frame liner is applied to all units. Ultrex is .075″ (2) thick.

Sash:

Composite sash thickness of 1 17/32″ (39). Ultrex is .070″ (2) thick. Sash can be replaced but cannot be re–glazed.

JAMB EXTENSION:

Optional 6 9/16″ (167) and 6 13/16″ (173) jamb extension factory applied or in lineal lengths for field application. ADD 1/4″ (6) to width and 1/8″ (3) to height of frame, rough, and masonry opening sizes.

HARDWARE:

The balance system is a coil spring block and tackle system, with nylon cord and zinc locking shoe. Both sash tilt into the room for cleaning or removal for painting without removing the screen. High pressure zinc die cast checkrail lock and keeper. Lock employs a cam–lock mechanism. Color: Almond Frost or White. Optional Bright Brass, Oil Rubbed Bronze, and Satin Nickel available. Each sash employs spring loaded tilt latches to allow for easy tilting of sash. On Impact units 32 widths and wider, two locks are mounted. Optional factory applied Window Opening Control Device is available on all sizes. A system consisting of an acetal lever housed in an acetal shell on each stile of the top sash. Finish: White, Beige. This device works in accordance to ASTM F2090–10 standard specification for window fall prevention devices with emergency escape.

INSTALLATION:

Factory applied folding nailing fin and drip cap system. Optional structural brackets for masonry available. Optional through jamb installation method with brackets for non-impact units only. Factory supplied field mulling kits are available for standard assemblies or 30° and 45° Bay assemblies. Recommended method for Impact glazed units is installation clips and nailing fin.

GLAZING:

All units are manufactured with an 11/16″ (17) IG with Low E2, E3, or E1 coating including argon gas fill. Tempered glass and/or obscure glass 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 3.1/3.1 standard 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.

CE GLAZING:

All units are manufactured with an 11/16″ (17) IG with Low E2, E3, or E1 coating 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. Operable double hung units up to CN 4276 are available with CE mark. Transoms and Picture units are not available with CE mark. Bow 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 insulating 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 mark.

WEATHER STRIP:

All weather strip is beige in color. Robust fabric covered foam weather strip is used to seal the double hung jambs. Jamb carrier contains a secondary flexible hollow bulb. Blind stop seal between the header and upper sash. Checkrail weather strip is a hollow bulb. A foam filled weather strip is attached to bottom of sash, interfaces between sill and jamb weather strip. A three dimensional TPE gasket is used between the jamb and sill.

SCREEN:

Roll formed aluminum frame with corner key construction, color to match exterior frame color. Charcoal color fiberglass (non–corrosive) screen cloth. Spring loaded pins for installation. Screen bar added when frame OM (height) is equal to or greater than 47.500″ (1207).

WOOD–ULTREX DOUBLE HUNG

UNIT FEATURES

REMOVABLE INTERIOR GRILLES:

Bar: Pine wood, 3/4″ (19) Available in pine bare wood or factory applied white finish. Pattern: Standard rectangular pattern.

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: Ultrex, 7/8″ (22) wide bars, finish to match exterior. Patterns available: rectangle, Cottage style cut, 9 lite Prairie cut or 6 lite Prairie for top sash, bottom sash, or both. ITDHP Only: Simulated check rail option: 2 11/32″ (60). Pattern available: simulated rail in standard center or customer specified location with 7/8″ (22) patterns above, below or both in patterns of rectangular equal lite or prairie lite cut.

GRILLES–BETWEEN–THE–GLASS (GBG):

11/16″ (17) contoured aluminum bar placed between two panes of glass. Pattern: Standard rectangular pattern, or optional 6 lite per sash Prairie cut on Double Hung or 9 lite on picture units. Exterior color determined by exterior sash color. Interior Colors: White or Bronze. GBGs are not available with Impact glazing.

NOTE: 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 mulled with.

NOTE: NFRC Values are now located on www.integritywindows.com

EGRESS and VENT MEASUREMENTS – STANDARD PRODUCT

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
2236	1–6 3/8	(467)	1–1 3/16	(335)	1.68	(0.16)	4–0 3/4	(1238)
2240	1–6 3/8	(467)	1–3 3/16	(386)	1.94	(0.18)	3–8 3/4	(1136)
2244	1–6 3/8	(467)	1–5 3/16	(437)	2.19	(0.20)	3–4 3/4	(1035)
2248	1–6 3/8	(467)	1–7 3/16	(488)	2.45	(0.23)	3–0 3/4	(933)
2252	1–6 3/8	(467)	1–9 3/16	(539)	2.71	(0.25)	2–8 3/4	(831)
2256	1–6 3/8	(467)	1–11 3/16	(589)	2.96	(0.28)	2–4 3/4	(730)
2260	1–6 3/8	(467)	2–1 3/16	(640)	3.22	(0.30)	2–0 3/4	(628)
2264	1–6 3/8	(467)	2–3 3/16	(691)	3.47	(0.32)	1–8 3/4	(527)
2268	1–6 3/8	(467)	2–5 3/16	(742)	3.73	(0.35)	1–4 3/4	(425)
2272	1–6 3/8	(467)	2–7 3/16	(793)	3.98	(0.37)	1–0 3/4	(323)
2276	1–6 3/8	(467)	2–9 3/16	(843)	4.24	(0.39)	0–8 3/4	(222)
2636	1–10 3/8	(568)	1–1 3/16	(335)	2.05	(0.19)	4–0 3/4	(1238)
2640	1–10 3/8	(568)	1–3 3/16	(386)	2.36	(0.22)	3–8 3/4	(1136)
2644	1–10 3/8	(568)	1–5 3/16	(437)	2.67	(0.25)	3–4 3/4	(1035)
2648	1–10 3/8	(568)	1–7 3/16	(488)	2.98	(0.28)	3–0 3/4	(933)
2652	1–10 3/8	(568)	1–9 3/16	(539)	3.29	(0.31)	2–8 3/4	(831)
2656	1–10 3/8	(568)	1–11 3/16	(589)	3.60	(0.33)	2–4 3/4	(730)
2660	1–10 3/8	(568)	2–1 3/16	(640)	3.92	(0.36)	2–0 3/4	(628)
2664	1–10 3/8	(568)	2–3 3/16	(691)	4.23	(0.39)	1–8 3/4	(527)
2668	1–10 3/8	(568)	2–5 3/16	(742)	4.54	(0.42)	1–4 3/4	(425)
2672	1–10 3/8	(568)	2–7 3/16	(793)	4.85	(0.45)	1–0 3/4	(323)
2676	1–10 3/8	(568)	2–9 3/16	(843)	5.16	(0.48)	0–8 3/4	(222)
3036	2–2 3/8	(670)	1–1 3/16	(335)	2.42	(0.22)	4–0 3/4	(1238)
3040	2–2 3/8	(670)	1–3 3/16	(386)	2.78	(0.26)	3–8 3/4	(1136)
3044	2–2 3/8	(670)	1–5 3/16	(437)	3.15	(0.29)	3–4 3/4	(1035)
3048	2–2 3/8	(670)	1–7 3/16	(488)	3.52	(0.33)	3–0 3/4	(933)
3052	2–2 3/8	(670)	1–9 3/16	(539)	3.88	(0.36)	2–8 3/4	(831)
3056	2–2 3/8	(670)	1–11 3/16	(589)	4.25	(0.39)	2–4 3/4	(730)
3060	2–2 3/8	(670)	2–1 3/16	(640)	4.62	(0.43)	2–0 3/4	(628)
3064	2–2 3/8	(670)	2–3 3/16	(691)	4.98	(0.46)	1–8 3/4	(527)
3068	2–2 3/8	(670)	2–5 3/16	(742)	5.35	(0.50)	1–4 3/4	(425)
3072 E	2–2 3/8	(670)	2–7 3/16	(793)	5.71	(0.53)	1–0 3/4	(323)
3076 E	2–2 3/8	(670)	2–9 3/16	(843)	6.08	(0.56)	0–8 3/4	(222)
3236	2–4 3/8	(721)	1–1 3/16	(335)	2.60	(0.24)	4–0 3/4	(1238)
3240	2–4 3/8	(721)	1–3 3/16	(386)	3.00	(0.28)	3–8 3/4	(1136)
3244	2–4 3/8	(721)	1–5 3/16	(437)	3.39	(0.31)	3–4 3/4	(1035)
3248	2–4 3/8	(721)	1–7 3/16	(488)	3.78	(0.35)	3–0 3/4	(933)
3252	2–4 3/8	(721)	1–9 3/16	(539)	4.18	(0.39)	2–8 3/4	(831)
3256	2–4 3/8	(721)	1–11 3/16	(589)	4.57	(0.42)	2–4 3/4	(730)
3260	2–4 3/8	(721)	2–1 3/16	(640)	4.97	(0.46)	2–0 3/4	(628)
3264	2–4 3/8	(721)	2–3 3/16	(691)	5.36	(0.50)	1–8 3/4	(527)
3268 E	2–4 3/8	(721)	2–5 3/16	(742)	5.75	(0.53)	1–4 3/4	(425)
3272 E	2–4 3/8	(721)	2–7 3/16	(793)	6.15	(0.57)	1–0 3/4	(323)
3276 E	2–4 3/8	(721)	2–9 3/16	(843)	6.54	(0.61)	0–8 3/4	(222)

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
3436	2–6 3/8	(771)	1–1 3/16	(335)	2.78	(0.26)	4–0 3/4	(1238)
3440	2–6 3/8	(771)	1–3 3/16	(386)	3.21	(0.30)	3–8 3/4	(1136)
3444	2–6 3/8	(771)	1–5 3/16	(437)	3.63	(0.34)	3–4 3/4	(1035)
3448	2–6 3/8	(771)	1–7 3/16	(488)	4.05	(0.38)	3–0 3/4	(933)
3452	2–6 3/8	(771)	1–9 3/16	(539)	4.47	(0.42)	2–8 3/4	(831)
3456	2–6 3/8	(771)	1–11 3/16	(589)	4.89	(0.45)	2–4 3/4	(730)
3460	2–6 3/8	(771)	2–1 3/16	(640)	5.32	(0.49)	2–0 3/4	(628)
3464 E	2–6 3/8	(771)	2–3 3/16	(691)	5.74	(0.53)	1–8 3/4	(527)
3468 E	2–6 3/8	(771)	2–5 3/16	(742)	6.16	(0.57)	1–4 3/4	(425)
3472 E	2–6 3/8	(771)	2–7 3/16	(793)	6.58	(0.61)	1–0 3/4	(323)
3476 E	2–6 3/8	(771)	2–9 3/16	(843)	7.00	(0.65)	0–8 3/4	(222)
3636	2–8 3/8	(822)	1–1 3/16	(335)	2.97	(0.28)	4–0 3/4	(1238)
3640	2–8 3/8	(822)	1–3 3/16	(386)	3.42	(0.32)	3–8 3/4	(1136)
3644	2–8 3/8	(822)	1–5 3/16	(437)	3.87	(0.36)	3–4 3/4	(1035)
3648	2–8 3/8	(822)	1–7 3/16	(488)	4.32	(0.40)	3–0 3/4	(933)
3652	2–8 3/8	(822)	1–9 3/16	(539)	4.77	(0.44)	2–8 3/4	(831)
3656	2–8 3/8	(822)	2–0	(610)	5.40	(0.50)	2–4 3/4	(730)
3660 E	2–8 3/8	(822)	2–2	(660)	5.85	(0.54)	2–0 3/4	(628)
3664 E	2–8 3/8	(822)	2–3 3/16	(691)	6.12	(0.57)	1–8 3/4	(527)
3668 E	2–8 3/8	(822)	2–5 3/16	(742)	6.56	(0.61)	1–4 3/4	(425)
3672 E	2–8 3/8	(822)	2–7 3/16	(793)	7.01	(0.65)	1–0 3/4	(323)
3676 E	2–8 3/8	(822)	2–9 3/16	(843)	7.46	(0.69)	0–8 3/4	(222)
3836	2–10 3/8	(873)	1–1 3/16	(335)	3.15	(0.29)	4–0 3/4	(1238)
3840	2–10 3/8	(873)	1–3 3/16	(386)	3.63	(0.34)	3–8 3/4	(1136)
3844	2–10 3/8	(873)	1–5 3/16	(437)	4.11	(0.38)	3–4 3/4	(1035)
3848	2–10 3/8	(873)	1–7 3/16	(488)	4.58	(0.43)	3–0 3/4	(933)
3852	2–10 3/8	(873)	1–9 3/16	(539)	5.06	(0.47)	2–8 3/4	(831)
3856 E	2–10 3/8	(873)	2–0	(610)	5.73	(0.53)	2–4 3/4	(730)
3860 E	2–10 3/8	(873)	2–2	(660)	6.21	(0.58)	2–0 3/4	(628)
3864 E	2–10 3/8	(873)	2–3 3/16	(691)	6.49	(0.60)	1–8 3/4	(527)
3868 E	2–10 3/8	(873)	2–5 3/16	(742)	6.97	(0.65)	1–4 3/4	(425)
3872 E	2–10 3/8	(873)	2–7 3/16	(793)	7.45	(0.69)	1–0 3/4	(323)
3876 E	2–10 3/8	(873)	2–9 3/16	(843)	7.93	(0.74)	0–8 3/4	(222)
4236	3–2 3/8	(975)	1–1 3/16	(335)	3.52	(0.33)	4–0 3/4	(1238)
4240	3–2 3/8	(975)	1–3 3/16	(386)	4.05	(0.38)	3–8 3/4	(1136)
4244	3–2 3/8	(975)	1–5 3/16	(437)	4.58	(0.43)	3–4 3/4	(1035)
4248	3–2 3/8	(975)	1–7 3/16	(488)	5.12	(0.48)	3–0 3/4	(933)
4252	3–2 3/8	(975)	1–9 3/16	(539)	5.65	(0.52)	2–8 3/4	(831)
4256 E	3–2 3/8	(975)	2–0	(610)	6.40	(0.59)	2–4 3/4	(730)
4260 E	3–2 3/8	(975)	2–1 3/16	(640)	6.72	(0.62)	2–0 3/4	(628)
4264 E	3–2 3/8	(975)	2–3 3/16	(691)	7.25	(0.67)	1–8 3/4	(527)
4268 E	3–2 3/8	(975)	2–5 3/16	(742)	7.78	(0.72)	1–4 3/4	(425)
4272 E	3–2 3/8	(975)	2–7 3/16	(793)	8.31	(0.77)	1–0 3/4	(323)
4276 E	3–2 3/8	(975)	2–9 3/16	(843)	8.85	(0.82)	0–8 3/4	(222)

EGRESS and VENT MEASUREMENTS – HIGH PERFORMANCE

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
2236	1–6 3/8	(467)	1–0 3/4	(324)	1.63	(0.15)	4–1 3/16	(1249)
2240	1–6 3/8	(467)	1–2 3/4	(375)	1.88	(0.17)	3–9 3/16	(1148)
2244	1–6 3/8	(467)	1–4 3/4	(425)	2.14	(0.20)	3–5 3/16	(1046)
2248	1–6 3/8	(467)	1–6 3/4	(476)	2.39	(0.22)	3–1 3/16	(945)
2252	1–6 3/8	(467)	1–8 3/4	(527)	2.65	(0.25)	2–9 3/16	(843)
2256	1–6 3/8	(467)	1–10 3/4	(578)	2.90	(0.27)	2–5 3/16	(741)
2260	1–6 3/8	(467)	2–0 3/4	(629)	3.16	(0.29)	2–1 3/16	(640)
2264	1–6 3/8	(467)	2–2 3/4	(679)	3.41	(0.32)	1–9 3/16	(538)
2268	1–6 3/8	(467)	2–4 3/4	(730)	3.67	(0.34)	1–5 3/16	(437)
2272	1–6 3/8	(467)	2–6 3/4	(781)	3.92	(0.36)	1–1 3/16	(335)
2276	1–6 3/8	(467)	2–8 3/4	(832)	4.18	(0.39)	0–9 3/16	(233)
2636	1–10 3/8	(568)	1–0 3/4	(324)	1.98	(0.18)	4–1 3/16	(1249)
2640	1–10 3/8	(568)	1–2 3/4	(375)	2.29	(0.21)	3–9 3/16	(1148)
2644	1–10 3/8	(568)	1–4 3/4	(425)	2.60	(0.24)	3–5 3/16	(1046)
2648	1–10 3/8	(568)	1–6 3/4	(476)	2.91	(0.27)	3–1 3/16	(945)
2652	1–10 3/8	(568)	1–8 3/4	(527)	3.22	(0.30)	2–9 3/16	(843)
2656	1–10 3/8	(568)	1–10 3/4	(578)	3.53	(0.33)	2–5 3/16	(741)
2660	1–10 3/8	(568)	2–0 3/4	(629)	3.84	(0.36)	2–1 3/16	(640)
2664	1–10 3/8	(568)	2–2 3/4	(679)	4.16	(0.39)	1–9 3/16	(538)
2668	1–10 3/8	(568)	2–4 3/4	(730)	4.47	(0.41)	1–5 3/16	(437)
2672	1–10 3/8	(568)	2–6 3/4	(781)	4.78	(0.44)	1–1 3/16	(335)
2676	1–10 3/8	(568)	2–8 3/4	(832)	5.09	(0.47)	0–9 3/16	(233)
3036	2–2 3/8	(670)	1–0 3/4	(324)	2.33	(0.22)	4–1 3/16	(1249)
3040	2–2 3/8	(670)	1–2 3/4	(375)	2.70	(0.25)	3–9 3/16	(1148)
3044	2–2 3/8	(670)	1–4 3/4	(425)	3.07	(0.28)	3–5 3/16	(1046)
3048	2–2 3/8	(670)	1–6 3/4	(476)	3.43	(0.32)	3–1 3/16	(945)
3052	2–2 3/8	(670)	1–8 3/4	(527)	3.80	(0.35)	2–9 3/16	(843)
3056	2–2 3/8	(670)	1–10 3/4	(578)	4.17	(0.39)	2–5 3/16	(741)
3060	2–2 3/8	(670)	2–0 3/4	(629)	4.53	(0.42)	2–1 3/16	(640)
3064	2–2 3/8	(670)	2–2 3/4	(679)	4.90	(0.46)	1–9 3/16	(538)
3068	2–2 3/8	(670)	2–4 3/4	(730)	5.26	(0.49)	1–5 3/16	(437)
3072	2–2 3/8	(670)	2–6 3/4	(781)	5.63	(0.52)	1–1 3/16	(335)
3076 E	2–2 3/8	(670)	2–8 3/4	(832)	6.00	(0.56)	0–9 3/16	(233)
3236	2–4 3/8	(721)	1–0 3/4	(324)	2.51	(0.23)	4–1 3/16	(1249)
3240	2–4 3/8	(721)	1–2 3/4	(375)	2.91	(0.27)	3–9 3/16	(1148)
3244	2–4 3/8	(721)	1–4 3/4	(425)	3.30	(0.31)	3–5 3/16	(1046)
3248	2–4 3/8	(721)	1–6 3/4	(476)	3.69	(0.34)	3–1 3/16	(945)
3252	2–4 3/8	(721)	1–8 3/4	(527)	4.09	(0.38)	2–9 3/16	(843)
3256	2–4 3/8	(721)	1–10 3/4	(578)	4.48	(0.42)	2–5 3/16	(741)
3260	2–4 3/8	(721)	2–0 3/4	(629)	4.88	(0.45)	2–1 3/16	(640)
3264	2–4 3/8	(721)	2–2 3/4	(679)	5.27	(0.49)	1–9 3/16	(538)
3268	2–4 3/8	(721)	2–4 3/4	(730)	5.66	(0.53)	1–5 3/16	(437)
3272 E	2–4 3/8	(721)	2–6 3/4	(781)	6.06	(0.56)	1–1 3/16	(335)
3276 E	2–4 3/8	(721)	2–8 3/4	(832)	6.45	(0.60)	0–9 3/16	(233)

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
3436	2–6 3/8	(771)	1–0 3/4	(324)	2.69	(0.25)	4–1 3/16	(1249)
3440	2–6 3/8	(771)	1–2 3/4	(375)	3.11	(0.29)	3–9 3/16	(1148)
3444	2–6 3/8	(771)	1–4 3/4	(425)	3.53	(0.33)	3–5 3/16	(1046)
3448	2–6 3/8	(771)	1–6 3/4	(476)	3.95	(0.37)	3–1 3/16	(945)
3452	2–6 3/8	(771)	1–8 3/4	(527)	4.38	(0.41)	2–9 3/16	(843)
3456	2–6 3/8	(771)	1–10 3/4	(578)	4.80	(0.45)	2–5 3/16	(741)
3460	2–6 3/8	(771)	2–0 3/4	(629)	5.22	(0.48)	2–1 3/16	(640)
3464	2–6 3/8	(771)	2–2 3/4	(679)	5.64	(0.52)	1–9 3/16	(538)
3468 E	2–6 3/8	(771)	2–4 3/4	(730)	6.06	(0.56)	1–5 3/16	(437)
3472 E	2–6 3/8	(771)	2–6 3/4	(781)	6.48	(0.60)	1–1 3/16	(335)
3476 E	2–6 3/8	(771)	2–8 3/4	(832)	6.91	(0.64)	0–9 3/16	(233)
3636	2–8 3/8	(822)	1–0 3/4	(324)	2.87	(0.27)	4–1 3/16	(1249)
3640	2–8 3/8	(822)	1–2 3/4	(375)	3.31	(0.31)	3–9 3/16	(1148)
3644	2–8 3/8	(822)	1–4 3/4	(425)	3.76	(0.35)	3–5 3/16	(1046)
3648	2–8 3/8	(822)	1–6 3/4	(476)	4.21	(0.39)	3–1 3/16	(945)
3652	2–8 3/8	(822)	1–8 3/4	(527)	4.66	(0.43)	2–9 3/16	(843)
3656	2–8 3/8	(822)	1–11 9/16	(598)	5.29	(0.49)	2–5 3/16	(741)
3660 E	2–8 3/8	(822)	2–1 9/16	(649)	5.74	(0.53)	2–1 3/16	(640)
3664 E	2–8 3/8	(822)	2–2 3/4	(679)	6.01	(0.56)	1–9 3/16	(538)
3668 E	2–8 3/8	(822)	2–4 3/4	(730)	6.46	(0.60)	1–5 3/16	(437)
3672 E	2–8 3/8	(822)	2–6 3/4	(781)	6.91	(0.64)	1–1 3/16	(335)
3676 E	2–8 3/8	(822)	2–8 3/4	(832)	7.36	(0.68)	0–9 3/16	(233)
3836	2–10 3/8	(873)	1–0 3/4	(324)	3.04	(0.28)	4–1 3/16	(1249)
3840	2–10 3/8	(873)	1–2 3/4	(375)	3.52	(0.33)	3–9 3/16	(1148)
3844	2–10 3/8	(873)	1–4 3/4	(425)	4.00	(0.37)	3–5 3/16	(1046)
3848	2–10 3/8	(873)	1–6 3/4	(476)	4.47	(0.42)	3–1 3/16	(945)
3852	2–10 3/8	(873)	1–8 3/4	(527)	4.95	(0.46)	2–9 3/16	(843)
3856	2–10 3/8	(873)	1–11 9/16	(598)	5.62	(0.52)	2–5 3/16	(741)
3860 E	2–10 3/8	(873)	2–1 9/16	(649)	6.10	(0.57)	2–1 3/16	(640)
3864 E	2–10 3/8	(873)	2–2 3/4	(679)	6.38	(0.59)	1–9 3/16	(538)
3868 E	2–10 3/8	(873)	2–4 3/4	(730)	6.86	(0.64)	1–5 3/16	(437)
3872 E	2–10 3/8	(873)	2–6 3/4	(781)	7.34	(0.68)	1–1 3/16	(335)
3876 E	2–10 3/8	(873)	2–8 3/4	(832)	7.82	(0.73)	0–9 3/16	(233)
4236	3–2 3/8	(975)	1–0 3/4	(324)	3.40	(0.32)	4–1 3/16	(1249)
4240	3–2 3/8	(975)	1–2 3/4	(375)	3.93	(0.37)	3–9 3/16	(1148)
4244	3–2 3/8	(975)	1–4 3/4	(425)	4.46	(0.41)	3–5 3/16	(1046)
4248	3–2 3/8	(975)	1–6 3/4	(476)	5.00	(0.46)	3–1 3/16	(945)
4252	3–2 3/8	(975)	1–8 3/4	(527)	5.53	(0.51)	2–9 3/16	(843)
4256	3–2 3/8	(975)	1–11 9/16	(598)	6.27	(0.58)	2–5 3/16	(741)
4260 E	3–2 3/8	(975)	2–0 3/4	(629)	6.59	(0.61)	2–1 3/16	(640)
4264 E	3–2 3/8	(975)	2–2 3/4	(679)	7.13	(0.66)	1–9 3/16	(538)
4268 E	3–2 3/8	(975)	2–4 3/4	(730)	7.66	(0.71)	1–5 3/16	(437)
4272 E	3–2 3/8	(975)	2–6 3/4	(781)	8.19	(0.76)	1–1 3/16	(335)
4276 E	3–2 3/8	(975)	2–8 3/4	(832)	8.73	(0.81)	0–9 3/16	(233)

EGRESS and VENT MEASUREMENTS – IMPACT PRODUCT

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
2236	1–6 3/8	(467)	1–0 3/4	(324)	1.63	(0.15)	4–1 3/16	(1249)
2240	1–6 3/8	(467)	1–2 3/4	(375)	1.88	(0.17)	3–9 3/16	(1148)
2244	1–6 3/8	(467)	1–4 3/4	(425)	2.14	(0.20)	3–5 3/16	(1046)
2248	1–6 3/8	(467)	1–6 3/4	(476)	2.39	(0.22)	3–1 3/16	(945)
2252	1–6 3/8	(467)	1–8 3/4	(527)	2.65	(0.25)	2–9 3/16	(843)
2256	1–6 3/8	(467)	1–10 3/4	(578)	2.90	(0.27)	2–5 3/16	(741)
2260	1–6 3/8	(467)	2–0 3/4	(629)	3.16	(0.29)	2–1 3/16	(640)
2264	1–6 3/8	(467)	2–2 3/4	(679)	3.41	(0.32)	1–9 3/16	(538)
2268	1–6 3/8	(467)	2–4 3/4	(730)	3.67	(0.34)	1–5 3/16	(437)
2272	1–6 3/8	(467)	2–6 3/4	(781)	3.92	(0.36)	1–1 3/16	(335)
2276	1–6 3/8	(467)	2–8 3/4	(832)	4.18	(0.39)	0–9 3/16	(233)
2636	1–10 3/8	(568)	1–0 3/4	(324)	1.98	(0.18)	4–1 3/16	(1249)
2640	1–10 3/8	(568)	1–2 3/4	(375)	2.29	(0.21)	3–9 3/16	(1148)
2644	1–10 3/8	(568)	1–4 3/4	(425)	2.60	(0.24)	3–5 3/16	(1046)
2648	1–10 3/8	(568)	1–6 3/4	(476)	2.91	(0.27)	3–1 3/16	(945)
2652	1–10 3/8	(568)	1–8 3/4	(527)	3.22	(0.30)	2–9 3/16	(843)
2656	1–10 3/8	(568)	1–10 3/4	(578)	3.53	(0.33)	2–5 3/16	(741)
2660	1–10 3/8	(568)	2–0 3/4	(629)	3.84	(0.36)	2–1 3/16	(640)
2664	1–10 3/8	(568)	2–2 3/4	(679)	4.16	(0.39)	1–9 3/16	(538)
2668	1–10 3/8	(568)	2–4 3/4	(730)	4.47	(0.41)	1–5 3/16	(437)
2672	1–10 3/8	(568)	2–6 3/4	(781)	4.78	(0.44)	1–1 3/16	(335)
2676	1–10 3/8	(568)	2–8 3/4	(832)	5.09	(0.47)	0–9 3/16	(233)
3036	2–2 3/8	(670)	1–0 3/4	(324)	2.33	(0.22)	4–1 3/16	(1249)
3040	2–2 3/8	(670)	1–2 3/4	(375)	2.70	(0.25)	3–9 3/16	(1148)
3044	2–2 3/8	(670)	1–4 3/4	(425)	3.07	(0.28)	3–5 3/16	(1046)
3048	2–2 3/8	(670)	1–6 3/4	(476)	3.43	(0.32)	3–1 3/16	(945)
3052	2–2 3/8	(670)	1–8 3/4	(527)	3.80	(0.35)	2–9 3/16	(843)
3056	2–2 3/8	(670)	1–10 3/4	(578)	4.17	(0.39)	2–5 3/16	(741)
3060	2–2 3/8	(670)	2–0 3/4	(629)	4.53	(0.42)	2–1 3/16	(640)
3064	2–2 3/8	(670)	2–2 3/4	(679)	4.90	(0.46)	1–9 3/16	(538)
3068	2–2 3/8	(670)	2–4 3/4	(730)	5.26	(0.49)	1–5 3/16	(437)
3072	2–2 3/8	(670)	2–6 3/4	(781)	5.63	(0.52)	1–1 3/16	(335)
3076 E	2–2 3/8	(670)	2–8 3/4	(832)	6.00	(0.56)	0–9 3/16	(233)
3236	2–4 3/8	(721)	1–0 3/4	(324)	2.51	(0.23)	4–1 3/16	(1249)
3240	2–4 3/8	(721)	1–2 3/4	(375)	2.91	(0.27)	3–9 3/16	(1148)
3244	2–4 3/8	(721)	1–4 3/4	(425)	3.30	(0.31)	3–5 3/16	(1046)
3248	2–4 3/8	(721)	1–6 3/4	(476)	3.69	(0.34)	3–1 3/16	(945)
3252	2–4 3/8	(721)	1–8 3/4	(527)	4.09	(0.38)	2–9 3/16	(843)
3256	2–4 3/8	(721)	1–10 3/4	(578)	4.48	(0.42)	2–5 3/16	(741)
3260	2–4 3/8	(721)	2–0 3/4	(629)	4.88	(0.45)	2–1 3/16	(640)
3264	2–4 3/8	(721)	2–2 3/4	(679)	5.27	(0.49)	1–9 3/16	(538)
3268	2–4 3/8	(721)	2–4 3/4	(730)	5.66	(0.53)	1–5 3/16	(437)
3272 E	2–4 3/8	(721)	2–6 3/4	(781)	6.06	(0.56)	1–1 3/16	(335)
3276 E	2–4 3/8	(721)	2–8 3/4	(832)	6.45	(0.60)	0–9 3/16	(233)

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
3436	2–6 3/8	(771)	1–0 3/4	(324)	2.69	(0.25)	4–1 3/16	(1249)
3440	2–6 3/8	(771)	1–2 3/4	(375)	3.11	(0.29)	3–9 3/16	(1148)
3444	2–6 3/8	(771)	1–4 3/4	(425)	3.53	(0.33)	3–5 3/16	(1046)
3448	2–6 3/8	(771)	1–6 3/4	(476)	3.95	(0.37)	3–1 3/16	(945)
3452	2–6 3/8	(771)	1–8 3/4	(527)	4.38	(0.41)	2–9 3/16	(843)
3456	2–6 3/8	(771)	1–10 3/4	(578)	4.80	(0.45)	2–5 3/16	(741)
3460	2–6 3/8	(771)	2–0 3/4	(629)	5.22	(0.48)	2–1 3/16	(640)
3464	2–6 3/8	(771)	2–2 3/4	(679)	5.64	(0.52)	1–9 3/16	(538)
3468 E	2–6 3/8	(771)	2–4 3/4	(730)	6.06	(0.56)	1–5 3/16	(437)
3472 E	2–6 3/8	(771)	2–6 3/4	(781)	6.48	(0.60)	1–1 3/16	(335)
3476 E	2–6 3/8	(771)	2–8 3/4	(832)	6.91	(0.64)	0–9 3/16	(233)
3636	2–8 3/8	(822)	1–0 3/4	(324)	2.87	(0.27)	4–1 3/16	(1249)
3640	2–8 3/8	(822)	1–2 3/4	(375)	3.31	(0.31)	3–9 3/16	(1148)
3644	2–8 3/8	(822)	1–4 3/4	(425)	3.76	(0.35)	3–5 3/16	(1046)
3648	2–8 3/8	(822)	1–6 3/4	(476)	4.21	(0.39)	3–1 3/16	(945)
3652	2–8 3/8	(822)	1–8 3/4	(527)	4.66	(0.43)	2–9 3/16	(843)
3656	2–8 3/8	(822)	1–10 3/4	(578)	5.11	(0.48)	2–5 3/16	(741)
3660	2–8 3/8	(822)	2–0 3/4	(629)	5.56	(0.52)	2–1 3/16	(640)
3664 E	2–8 3/8	(822)	2–2 3/4	(679)	6.01	(0.56)	1–9 3/16	(538)
3668 E	2–8 3/8	(822)	2–4 3/4	(730)	6.46	(0.60)	1–5 3/16	(437)
3672 E	2–8 3/8	(822)	2–6 3/4	(781)	6.91	(0.64)	1–1 3/16	(335)
3676 E	2–8 3/8	(822)	2–4 1/4	(717)	6.35	(0.59)	0–9 3/16	(233)
3836	2–10 3/8	(873)	1–0 3/4	(324)	3.04	(0.28)	4–1 3/16	(1249)
3840	2–10 3/8	(873)	1–2 3/4	(375)	3.52	(0.33)	3–9 3/16	(1148)
3844	2–10 3/8	(873)	1–4 3/4	(425)	4.00	(0.37)	3–5 3/16	(1046)
3848	2–10 3/8	(873)	1–6 3/4	(476)	4.47	(0.42)	3–1 3/16	(945)
3852	2–10 3/8	(873)	1–8 3/4	(527)	4.95	(0.46)	2–9 3/16	(843)
3856	2–10 3/8	(873)	1–10 3/4	(578)	5.43	(0.50)	2–5 3/16	(741)
3860 E	2–10 3/8	(873)	2–0 3/4	(629)	5.91	(0.55)	2–1 3/16	(640)
3864 E	2–10 3/8	(873)	2–2 3/4	(679)	6.38	(0.59)	1–9 3/16	(538)
3868 E	2–10 3/8	(873)	2–4 3/4	(730)	6.86	(0.64)	1–5 3/16	(437)
3872 E	2–10 3/8	(873)	2–6 3/4	(781)	7.34	(0.68)	1–1 3/16	(335)
3876 E	2–10 3/8	(873)	2–4 1/4	(717)	6.74	(0.63)	0–9 3/16	(233)
4236	3–2 3/8	(975)	1–0 3/4	(324)	3.40	(0.32)	4–1 3/16	(1249)
4240	3–2 3/8	(975)	1–2 3/4	(375)	3.93	(0.37)	3–9 3/16	(1148)
4244	3–2 3/8	(975)	1–4 3/4	(425)	4.46	(0.41)	3–5 3/16	(1046)
4248	3–2 3/8	(975)	1–6 3/4	(476)	5.00	(0.46)	3–1 3/16	(945)
4252	3–2 3/8	(975)	1–8 3/4	(527)	5.53	(0.51)	2–9 3/16	(843)
4256	3–2 3/8	(975)	1–10 3/4	(578)	6.06	(0.56)	2–5 3/16	(741)
4260 E	3–2 3/8	(975)	2–0 3/4	(629)	6.59	(0.61)	2–1 3/16	(640)
4264 E	3–2 3/8	(975)	2–2 3/4	(679)	7.13	(0.66)	1–9 3/16	(538)
4268 E	3–2 3/8	(975)	2–4 3/4	(730)	7.66	(0.71)	1–5 3/16	(437)

EGRESS and VENT MEASUREMENTS – COTTAGE UNITS

STANDARD PRODUCT

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
2268C	1–6 3/8	(467)	2–0	(610)	3.06	(0.28)	1–4 3/4	(425)
2668C	1–10 3/8	(568)	2–0	(610)	3.73	(0.35)	1–4 3/4	(425)
3068C	2–2 3/8	(670)	2–0	(610)	4.40	(0.41)	1–4 3/4	(425)
3268C	2–4 3/8	(721)	2–0	(610)	4.73	(0.44)	1–4 3/4	(425)
3468C	2–6 3/8	(771)	2–0	(610)	5.06	(0.47)	1–4 3/4	(425)
3668C	2–8 3/8	(822)	2–0	(610)	5.40	(0.50)	1–4 3/4	(425)
3868C E	2–10 3/8	(873)	2–0	(610)	5.73	(0.53)	1–4 3/4	(425)
4268C E	3–2 3/8	(975)	2–0	(610)	6.40	(0.59)	1–4 3/4	(425)

HIGH PERFORMANCE PRODUCT

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
2268C	1–6 3/8	(467)	1–11 9/16	(598)	3.00	(0.28)	1–5 3/16	(437)
2668C	1–10 3/8	(568)	1–11 9/16	(598)	3.66	(0.34)	1–5 3/16	(437)
3068C	2–2 3/8	(670)	1–11 9/16	(598)	4.31	(0.40)	1–5 3/16	(437)
3268C	2–4 3/8	(721)	1–11 9/16	(598)	4.64	(0.43)	1–5 3/16	(437)
3468C	2–6 3/8	(771)	1–11 9/16	(598)	4.97	(0.46)	1–5 3/16	(437)
3668C	2–8 3/8	(822)	1–11 9/16	(598)	5.29	(0.49)	1–5 3/16	(437)
3868C	2–10 3/8	(873)	1–11 9/16	(598)	5.62	(0.52)	1–5 3/16	(437)
4268C	3–2 3/8	(975)	1–11 9/16	(598)	6.27	(0.58)	1–5 3/16	(437)

NOTE: CE mark is not available on High Performance units.

IMPACT PRODUCT

CN	Egress Opening Width		Egress Opening Height		Egress Opening		Floor to Bottom of Clear Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2	ft – in	mm
2268C	1–6 3/8	(467)	1–11 9/16	(598)	3.00	(0.28)	1–5 3/16	(437)
2668C	1–10 3/8	(568)	1–11 9/16	(598)	3.66	(0.34)	1–5 3/16	(437)
3068C	2–2 3/8	(670)	1–11 9/16	(598)	4.31	(0.40)	1–5 3/16	(437)
3268C	2–4 3/8	(721)	1–11 9/16	(598)	4.64	(0.43)	1–5 3/16	(437)
3468C	2–6 3/8	(771)	1–11 9/16	(598)	4.97	(0.46)	1–5 3/16	(437)
3668C	2–8 3/8	(822)	1–6 1/4	(463)	4.10	(0.38)	1–5 3/16	(437)
3868C	2–10 3/8	(873)	1–6 1/4	(463)	4.35	(0.40)	1–5 3/16	(437)

NOTE: CE mark is not available on Impact units.

WOOD–ULTREX DOUBLE HUNG

DAYLIGHT – DOUBLE HUNG

CN	Daylight Opening Width (per sash)		Daylight Opening Height (per sash)		Daylight Opening (both Sash)	
	ft – in	mm	ft – in	mm	ft^2	m^2
2236	1–3 11/16	(398)	1–1 11/16	(348)	2.98	(0.28)
2240	1–3 11/16	(398)	1–3 11/16	(398)	3.42	(0.32)
2244	1–3 11/16	(398)	1–5 11/16	(449)	3.85	(0.36)
2248	1–3 11/16	(398)	1–7 11/16	(500)	4.29	(0.40)
2252	1–3 11/16	(398)	1–9 11/16	(551)	4.73	(0.44)
2256	1–3 11/16	(398)	1–11 11/16	(602)	5.16	(0.48)
2260	1–3 11/16	(398)	2–1 11/16	(652)	5.60	(0.52)
2264	1–3 11/16	(398)	2–3 11/16	(703)	6.03	(0.56)
2268	1–3 11/16	(398)	2–5 11/16	(754)	6.47	(0.60)
2272	1–3 11/16	(398)	2–7 11/16	(805)	6.90	(0.64)
2276	1–3 11/16	(398)	2–9 11/16	(856)	7.34	(0.68)
2636	1–7 11/16	(500)	1–1 11/16	(348)	3.74	(0.35)
2640	1–7 11/16	(500)	1–3 11/16	(398)	4.29	(0.40)
2644	1–7 11/16	(500)	1–5 11/16	(449)	4.84	(0.45)
2648	1–7 11/16	(500)	1–7 11/16	(500)	5.38	(0.50)
2652	1–7 11/16	(500)	1–9 11/16	(551)	5.93	(0.55)
2656	1–7 11/16	(500)	1–11 11/16	(602)	6.48	(0.60)
2660	1–7 11/16	(500)	2–1 11/16	(652)	7.02	(0.65)
2664	1–7 11/16	(500)	2–3 11/16	(703)	7.57	(0.70)
2668	1–7 11/16	(500)	2–5 11/16	(754)	8.12	(0.75)
2672	1–7 11/16	(500)	2–7 11/16	(805)	8.66	(0.80)
2676	1–7 11/16	(500)	2–9 11/16	(856)	9.21	(0.86)
3036	1–11 11/16	(602)	1–1 11/16	(348)	4.50	(0.42)
3040	1–11 11/16	(602)	1–3 11/16	(398)	5.16	(0.48)
3044	1–11 11/16	(602)	1–5 11/16	(449)	5.82	(0.54)
3048	1–11 11/16	(602)	1–7 11/16	(500)	6.48	(0.60)
3052	1–11 11/16	(602)	1–9 11/16	(551)	7.14	(0.66)
3056	1–11 11/16	(602)	1–11 11/16	(602)	7.79	(0.72)
3060	1–11 11/16	(602)	2–1 11/16	(652)	8.45	(0.79)
3064	1–11 11/16	(602)	2–3 11/16	(703)	9.11	(0.85)
3068	1–11 11/16	(602)	2–5 11/16	(754)	9.77	(0.91)
3072	1–11 11/16	(602)	2–7 11/16	(805)	10.43	(0.97)
3076	1–11 11/16	(602)	2–9 11/16	(856)	11.08	(1.03)
3236	2–1 11/16	(652)	1–1 11/16	(348)	4.88	(0.45)
3240	2–1 11/16	(652)	1–3 11/16	(398)	5.60	(0.52)
3244	2–1 11/16	(652)	1–5 11/16	(449)	6.31	(0.59)
3248	2–1 11/16	(652)	1–7 11/16	(500)	7.02	(0.65)
3252	2–1 11/16	(652)	1–9 11/16	(551)	7.74	(0.72)
3256	2–1 11/16	(652)	1–11 11/16	(602)	8.45	(0.79)
3260	2–1 11/16	(652)	2–1 11/16	(652)	9.16	(0.85)
3264	2–1 11/16	(652)	2–3 11/16	(703)	9.88	(0.92)
3268	2–1 11/16	(652)	2–5 11/16	(754)	10.59	(0.98)
3272	2–1 11/16	(652)	2–7 11/16	(805)	11.31	(1.05)
3276	2–1 11/16	(652)	2–9 11/16	(856)	12.02	(1.12)

CN	Daylight Opening Width (per sash)		Daylight Opening Height (per sash)		Daylight Opening (both Sash)	
	ft – in	mm	ft – in	mm	ft^2	m^2
3436	2–3 11/16	(703)	1–1 11/16	(348)	5.26	(0.49)
3440	2–3 11/16	(703)	1–3 11/16	(398)	6.03	(0.56)
3444	2–3 11/16	(703)	1–5 11/16	(449)	6.80	(0.63)
3448	2–3 11/16	(703)	1–7 11/16	(500)	7.57	(0.70)
3452	2–3 11/16	(703)	1–9 11/16	(551)	8.34	(0.77)
3456	2–3 11/16	(703)	1–11 11/16	(602)	9.11	(0.85)
3460	2–3 11/16	(703)	2–1 11/16	(652)	9.88	(0.92)
3464	2–3 11/16	(703)	2–3 11/16	(703)	10.65	(0.99)
3468	2–3 11/16	(703)	2–5 11/16	(754)	11.42	(1.06)
3472	2–3 11/16	(703)	2–7 11/16	(805)	12.19	(1.13)
3476	2–3 11/16	(703)	2–9 11/16	(856)	12.95	(1.20)
3636	2–5 11/16	(754)	1–1 11/16	(348)	5.64	(0.52)
3640	2–5 11/16	(754)	1–3 11/16	(398)	6.47	(0.60)
3644	2–5 11/16	(754)	1–5 11/16	(449)	7.29	(0.68)
3648	2–5 11/16	(754)	1–7 11/16	(500)	8.12	(0.75)
3652	2–5 11/16	(754)	1–9 11/16	(551)	8.94	(0.83)
3656	2–5 11/16	(754)	1–11 11/16	(602)	9.77	(0.91)
3660	2–5 11/16	(754)	2–1 11/16	(652)	10.59	(0.98)
3664	2–5 11/16	(754)	2–3 11/16	(703)	11.42	(1.06)
3668	2–5 11/16	(754)	2–5 11/16	(754)	12.24	(1.14)
3672	2–5 11/16	(754)	2–7 11/16	(805)	13.07	(1.21)
3676	2–5 11/16	(754)	2–9 11/16	(856)	13.89	(1.29)
3836	2–7 11/16	(805)	1–1 11/16	(348)	6.02	(0.56)
3840	2–7 11/16	(805)	1–3 11/16	(398)	6.90	(0.64)
3844	2–7 11/16	(805)	1–5 11/16	(449)	7.78	(0.72)
3848	2–7 11/16	(805)	1–7 11/16	(500)	8.66	(0.80)
3852	2–7 11/16	(805)	1–9 11/16	(551)	9.55	(0.89)
3856	2–7 11/16	(805)	1–11 11/16	(602)	10.43	(0.97)
3860	2–7 11/16	(805)	2–1 11/16	(652)	11.31	(1.05)
3864	2–7 11/16	(805)	2–3 11/16	(703)	12.19	(1.13)
3868	2–7 11/16	(805)	2–5 11/16	(754)	13.07	(1.21)
3872	2–7 11/16	(805)	2–7 11/16	(805)	13.95	(1.30)
3876	2–7 11/16	(805)	2–9 11/16	(856)	14.83	(1.38)
4236	2–11 11/16	(906)	1–1 11/16	(348)	6.78	(0.63)
4240	2–11 11/16	(906)	1–3 11/16	(398)	7.78	(0.72)
4244	2–11 11/16	(906)	1–5 11/16	(449)	8.77	(0.81)
4248	2–11 11/16	(906)	1–7 11/16	(500)	9.76	(0.91)
4252	2–11 11/16	(906)	1–9 11/16	(551)	10.75	(1.00)
4256	2–11 11/16	(906)	1–11 11/16	(602)	11.74	(1.09)
4260	2–11 11/16	(906)	2–1 11/16	(652)	12.73	(1.18)
4264	2–11 11/16	(906)	2–3 11/16	(703)	13.72	(1.28)
4268	2–11 11/16	(906)	2–5 11/16	(754)	14.72	(1.37)
4272	2–11 11/16	(906)	2–7 11/16	(805)	15.71	(1.46)
4276	2–11 11/16	(906)	2–9 11/16	(856)	16.70	(1.55)

WOOD–ULTREX DOUBLE HUNG

DAYLIGHT – COTTAGE

CN		Daylight Opening Width (per sash)		Daylight Opening Height (per sash)		Daylight Opening (both Sash)	
		ft – in	mm	ft – in	mm	ft^2	m^2
2268	Top	1–3 11/16	(398)	1–11 11/16	(602)	6.47	(0.60)
2268	Bottom			2–11 11/16	(906)		
2668	Top	1–7 11/16	(500)	1–11 11/16	(602)	8.12	(0.75)
2668	Bottom			2–11 11/16	(906)		
3068	Top	1–11 11/16	(602)	1–11 11/16	(602)	9.77	(0.91)
3068	Bottom			2–11 11/16	(906)		
3268	Top	2–1 11/16	(652)	1–11 11/16	(602)	10.59	(0.98)
3268	Bottom			2–11 11/16	(906)		
3468	Top	2–3 11/16	(703)	1–11 11/16	(602)	11.42	(1.06)
3468	Bottom			2–11 11/16	(906)		
3668	Top	2–5 11/16	(754)	1–11 11/16	(602)	12.24	(1.14)
3668	Bottom			2–11 11/16	(906)		
3868	Top	2–7 11/16	(805)	1–11 11/16	(602)	13.07	(1.21)
3868	Bottom			2–11 11/16	(906)		
4268	Top	2–11 11/16	(906)	1–11 11/16	(602)	14.72	(1.37)
4268	Bottom			2–11 11/16	(906)		

CN	Daylight Opening Width		Daylight Opening Height		Daylight Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2
2216	1–3 11/16	(398)	0–9 11/16	(246)	1.06	(0.10)
2616	1–7 11/16	(500)	0–9 11/16	(246)	1.32	(0.12)
3016	1–9 11/16	(551)	0–9 11/16	(246)	1.46	(0.14)
3216	1–11 11/16	(602)	0–9 11/16	(246)	1.59	(0.15)
3416	2–3 11/16	(703)	0–9 11/16	(246)	1.86	(0.17)
3616	2–5 11/16	(754)	0–9 11/16	(246)	2.00	(0.19)
3816	2–7 11/16	(805)	0–9 11/16	(246)	2.13	(0.20)
4216	2–11 11/16	(906)	0–9 11/16	(246)	2.40	(0.22)
5016	3–7 11/16	(1110)	0–9 11/16	(246)	2.94	(0.27)
5416	3–11 11/16	(1211)	0–9 11/16	(246)	3.21	(0.30)
6216	4–7 11/16	(1414)	0–9 11/16	(246)	3.75	(0.35)
2224	1–3 11/16	(398)	1–5 11/16	(449)	1.93	(0.18)
2624	1–7 11/16	(500)	1–5 11/16	(449)	2.42	(0.22)
3024	1–9 11/16	(551)	1–5 11/16	(449)	2.66	(0.25)
3224	1–11 11/16	(602)	1–5 11/16	(449)	2.91	(0.27)
3424	2–3 11/16	(703)	1–5 11/16	(449)	3.40	(0.32)
3624	2–5 11/16	(754)	1–5 11/16	(449)	3.65	(0.34)
3824	2–7 11/16	(805)	1–5 11/16	(449)	3.89	(0.36)
4224	2–11 11/16	(906)	1–5 11/16	(449)	4.38	(0.41)
5024	3–7 11/16	(1110)	1–5 11/16	(449)	5.37	(0.50)
5424	3–11 11/16	(1211)	1–5 11/16	(449)	5.86	(0.54)
6224	4–7 11/16	(1414)	1–5 11/16	(449)	6.84	(0.64)

DAYLIGHT OPENING – PICTURE

CN	Daylight Opening Width		Daylight Opening Height		Daylight Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2
2224	1–3 11/16	(398)	1–5 11/16	(449)	1.93	(0.18)
2236	1–3 11/16	(398)	2–5 11/16	(754)	3.23	(0.30)
2240	1–3 11/16	(398)	2–9 11/16	(856)	3.67	(0.34)
2244	1–3 11/16	(398)	3–1 11/16	(957)	4.11	(0.38)
2248	1–3 11/16	(398)	3–5 11/16	(1059)	4.54	(0.42)
2252	1–3 11/16	(398)	3–9 11/16	(1160)	4.98	(0.46)
2256	1–3 11/16	(398)	4–1 11/16	(1262)	5.41	(0.50)
2260	1–3 11/16	(398)	4–5 11/16	(1364)	5.85	(0.54)
2264	1–3 11/16	(398)	4–9 11/16	(1465)	6.28	(0.58)
2268	1–3 11/16	(398)	5–1 11/16	(1567)	6.72	(0.62)
2272	1–3 11/16	(398)	5–5 11/16	(1668)	7.16	(0.66)
2276	1–3 11/16	(398)	5–9 11/16	(1770)	7.59	(0.71)
2624	1–7 11/16	(500)	1–5 11/16	(449)	2.42	(0.22)
2636	1–7 11/16	(500)	2–5 11/16	(754)	4.06	(0.38)
2640	1–7 11/16	(500)	2–9 11/16	(856)	4.61	(0.43)
2644	1–7 11/16	(500)	3–1 11/16	(957)	5.15	(0.48)
2648	1–7 11/16	(500)	3–5 11/16	(1059)	5.70	(0.53)
2652	1–7 11/16	(500)	3–9 11/16	(1160)	6.25	(0.58)
2656	1–7 11/16	(500)	4–1 11/16	(1262)	6.79	(0.63)
2660	1–7 11/16	(500)	4–5 11/16	(1364)	7.34	(0.68)
2664	1–7 11/16	(500)	4–9 11/16	(1465)	7.89	(0.73)
2668	1–7 11/16	(500)	5–1 11/16	(1567)	8.43	(0.78)
2672	1–7 11/16	(500)	5–5 11/16	(1668)	8.98	(0.83)
2676	1–7 11/16	(500)	5–9 11/16	(1770)	9.53	(0.89)
3024	1–11 11/16	(602)	1–5 11/16	(449)	2.91	(0.27)
3036	1–11 11/16	(602)	2–5 11/16	(754)	4.88	(0.45)
3040	1–11 11/16	(602)	2–9 11/16	(856)	5.54	(0.51)
3044	1–11 11/16	(602)	3–1 11/16	(957)	6.20	(0.58)
3048	1–11 11/16	(602)	3–5 11/16	(1059)	6.86	(0.64)
3052	1–11 11/16	(602)	3–9 11/16	(1160)	7.52	(0.70)
3056	1–11 11/16	(602)	4–1 11/16	(1262)	8.17	(0.76)
3060	1–11 11/16	(602)	4–5 11/16	(1364)	8.83	(0.82)
3064	1–11 11/16	(602)	4–9 11/16	(1465)	9.49	(0.88)
3068	1–11 11/16	(602)	5–1 11/16	(1567)	10.15	(0.94)
3072	1–11 11/16	(602)	5–5 11/16	(1668)	10.81	(1.00)
3076	1–11 11/16	(602)	5–9 11/16	(1770)	11.46	(1.07)

CN	Daylight Opening Width		Daylight Opening Height		Daylight Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2
3224	2–1 11/16	(652)	1–5 11/16	(449)	3.16	(0.29)
3236	2–1 11/16	(652)	2–5 11/16	(754)	5.30	(0.49)
3240	2–1 11/16	(652)	2–9 11/16	(856)	6.01	(0.56)
3244	2–1 11/16	(652)	3–1 11/16	(957)	6.72	(0.62)
3248	2–1 11/16	(652)	3–5 11/16	(1059)	7.44	(0.69)
3252	2–1 11/16	(652)	3–9 11/16	(1160)	8.15	(0.76)
3256	2–1 11/16	(652)	4–1 11/16	(1262)	8.86	(0.82)
3260	2–1 11/16	(652)	4–5 11/16	(1364)	9.58	(0.89)
3264	2–1 11/16	(652)	4–9 11/16	(1465)	10.29	(0.96)
3268	2–1 11/16	(652)	5–1 11/16	(1567)	11.00	(1.02)
3272	2–1 11/16	(652)	5–5 11/16	(1668)	11.72	(1.09)
3276	2–1 11/16	(652)	5–9 11/16	(1770)	12.43	(1.15)
3424	2–3 11/16	(703)	1–5 11/16	(449)	3.40	(0.32)
3436	2–3 11/16	(703)	2–5 11/16	(754)	5.71	(0.53)
3440	2–3 11/16	(703)	2–9 11/16	(856)	6.48	(0.60)
3444	2–3 11/16	(703)	3–1 11/16	(957)	7.25	(0.67)
3448	2–3 11/16	(703)	3–5 11/16	(1059)	8.02	(0.74)
3452	2–3 11/16	(703)	3–9 11/16	(1160)	8.78	(0.82)
3456	2–3 11/16	(703)	4–1 11/16	(1262)	9.55	(0.89)
3460	2–3 11/16	(703)	4–5 11/16	(1364)	10.32	(0.96)
3464	2–3 11/16	(703)	4–9 11/16	(1465)	11.09	(1.03)
3468	2–3 11/16	(703)	5–1 11/16	(1567)	11.86	(1.10)
3472	2–3 11/16	(703)	5–5 11/16	(1668)	12.63	(1.17)
3476	2–3 11/16	(703)	5–9 11/16	(1770)	13.40	(1.24)
3624	2–5 11/16	(754)	1–5 11/16	(449)	3.65	(0.34)
3636	2–5 11/16	(754)	2–5 11/16	(754)	6.12	(0.57)
3640	2–5 11/16	(754)	2–9 11/16	(856)	6.95	(0.65)
3644	2–5 11/16	(754)	3–1 11/16	(957)	7.77	(0.72)
3648	2–5 11/16	(754)	3–5 11/16	(1059)	8.59	(0.80)
3652	2–5 11/16	(754)	3–9 11/16	(1160)	9.42	(0.88)
3656	2–5 11/16	(754)	4–1 11/16	(1262)	10.24	(0.95)
3660	2–5 11/16	(754)	4–5 11/16	(1364)	11.07	(1.03)
3664	2–5 11/16	(754)	4–9 11/16	(1465)	11.89	(1.10)
3668	2–5 11/16	(754)	5–1 11/16	(1567)	12.72	(1.18)
3672	2–5 11/16	(754)	5–5 11/16	(1668)	13.54	(1.26)
3676	2–5 11/16	(754)	5–9 11/16	(1770)	14.37	(1.33)

DAYLIGHT OPENING – PICTURE

CN	Daylight Opening Width		Daylight Opening Height		Daylight Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2
3824	2–7 11/16	(805)	1–5 11/16	(449)	3.89	(0.36)
3836	2–7 11/16	(805)	2–5 11/16	(754)	6.53	(0.61)
3840	2–7 11/16	(805)	2–9 11/16	(856)	7.41	(0.69)
3844	2–7 11/16	(805)	3–1 11/16	(957)	8.29	(0.77)
3848	2–7 11/16	(805)	3–5 11/16	(1059)	9.17	(0.85)
3852	2–7 11/16	(805)	3–9 11/16	(1160)	10.05	(0.93)
3856	2–7 11/16	(805)	4–1 11/16	(1262)	10.93	(1.02)
3860	2–7 11/16	(805)	4–5 11/16	(1364)	11.81	(1.10)
3864	2–7 11/16	(805)	4–9 11/16	(1465)	12.69	(1.18)
3868	2–7 11/16	(805)	5–1 11/16	(1567)	13.57	(1.26)
3872	2–7 11/16	(805)	5–5 11/16	(1668)	14.46	(1.34)
3876	2–7 11/16	(805)	5–9 11/16	(1770)	15.34	(1.42)
4224	2–11 11/16	(906)	1–5 11/16	(449)	4.38	(0.41)
4236	2–11 11/16	(906)	2–5 11/16	(754)	7.36	(0.68)
4240	2–11 11/16	(906)	2–9 11/16	(856)	8.35	(0.78)
4244	2–11 11/16	(906)	3–1 11/16	(957)	9.34	(0.87)
4248	2–11 11/16	(906)	3–5 11/16	(1059)	10.33	(0.96)
4252	2–11 11/16	(906)	3–9 11/16	(1160)	11.32	(1.05)
4256	2–11 11/16	(906)	4–1 11/16	(1262)	12.31	(1.14)
4260	2–11 11/16	(906)	4–5 11/16	(1364)	13.31	(1.24)
4264	2–11 11/16	(906)	4–9 11/16	(1465)	14.30	(1.33)
4268	2–11 11/16	(906)	5–1 11/16	(1567)	15.29	(1.42)
4272	2–11 11/16	(906)	5–5 11/16	(1668)	16.28	(1.51)
4276	2–11 11/16	(906)	5–9 11/16	(1770)	17.27	(1.60)
5024	3–7 11/16	(1110)	1–5 11/16	(449)	5.37	(0.50)
5036	3–7 11/16	(1110)	2–5 11/16	(754)	9.01	(0.84)
5040	3–7 11/16	(1110)	2–9 11/16	(856)	10.22	(0.95)
5044	3–7 11/16	(1110)	3–1 11/16	(957)	11.43	(1.06)
5048	3–7 11/16	(1110)	3–5 11/16	(1059)	12.65	(1.18)
5052	3–7 11/16	(1110)	3–9 11/16	(1160)	13.86	(1.29)
5056	3–7 11/16	(1110)	4–1 11/16	(1262)	15.07	(1.40)
5060	3–7 11/16	(1110)	4–5 11/16	(1364)	16.29	(1.51)
5064	3–7 11/16	(1110)	4–9 11/16	(1465)	17.50	(1.63)
5068	3–7 11/16	(1110)	5–1 11/16	(1567)	18.72	(1.74)
5072	3–7 11/16	(1110)	5–5 11/16	(1668)	19.93	(1.85)
5076	3–7 11/16	(1110)	5–9 11/16	(1770)	21.14	(1.96)

CN	Daylight Opening Width		Daylight Opening Height		Daylight Opening	
	ft – in	mm	ft – in	mm	ft^2	m^2
5424	3–11 11/16	(1211)	1–5 11/16	(449)	5.86	(0.54)
5436	3–11 11/16	(1211)	2–5 11/16	(754)	9.83	(0.91)
5440	3–11 11/16	(1211)	2–9 11/16	(856)	11.16	(1.04)
5444	3–11 11/16	(1211)	3–1 11/16	(957)	12.48	(1.16)
5448	3–11 11/16	(1211)	3–5 11/16	(1059)	13.81	(1.28)
5452	3–11 11/16	(1211)	3–9 11/16	(1160)	15.13	(1.41)
5456	3–11 11/16	(1211)	4–1 11/16	(1262)	16.46	(1.53)
5460	3–11 11/16	(1211)	4–5 11/16	(1364)	17.78	(1.65)
5464	3–11 11/16	(1211)	4–9 11/16	(1465)	19.10	(1.77)
5468	3–11 11/16	(1211)	5–1 11/16	(1567)	20.43	(1.90)
5472	3–11 11/16	(1211)	5–5 11/16	(1668)	21.75	(2.02)
5476	3–11 11/16	(1211)	5–9 11/16	(1770)	23.08	(2.14)
6224	4–7 11/16	(1414)	1–5 11/16	(449)	6.84	(0.64)
6236	4–7 11/16	(1414)	2–5 11/16	(754)	11.48	(1.07)
6240	4–7 11/16	(1414)	2–9 11/16	(856)	13.03	(1.21)
6244	4–7 11/16	(1414)	3–1 11/16	(957)	14.57	(1.35)
6248	4–7 11/16	(1414)	3–5 11/16	(1059)	16.12	(1.50)
6252	4–7 11/16	(1414)	3–9 11/16	(1160)	17.67	(1.64)
6256	4–7 11/16	(1414)	4–1 11/16	(1262)	19.22	(1.79)
6260	4–7 11/16	(1414)	4–5 11/16	(1364)	20.76	(1.93)
6264	4–7 11/16	(1414)	4–9 11/16	(1465)	22.31	(2.07)

WOOD–ULTREX DOUBLE HUNG

MINIMUM AND MAXIMUM GUIDELINES

Minimum and Maximum Guidelines										
Unit Type	Frame Size									
	CN	Min Width		Min Height		CN	Max Width		Max Height	
		in	mm	in	mm		in	mm	in	mm
ITDH	2236	21 1/2	(546)	35 3/4	(908)	4276	42 1/2	(1080)	75 3/4	(1924)
ITDHT	2216	21 1/2	(546)	15 3/4	(400)	6224	62 1/2	(1588)	23 3/4	(603)
ITDHP	2224	22 1/2	(572)	23 3/4	(603)	5476	53 1/2	(1359)	75 3/4	(1924)
ITDHP	2224	22 1/2	(572)	23 3/4	(603)	6264	61 1/2	(1562)	63 3/4	(1619)

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

NOTE: CE mark is not available on Double Hung Transoms and Pictures.

NOTE: CE mark is not available on Impact units.

WOOD–ULTREX DOUBLE HUNG

CERTIFIED SIZES – STANDARD

Product	Air Tested to psf	Water Tested to psf	Certification Rating	Max Overall Width	Max Overall Height
Wood Ultrex Double Hung (Cottage 4268)	1.57	6	LC–PG40–H	41 1/2	67 3/4
Wood Ultrex Double Hung (Cottage HP 4268)	1.57	7.5	LC–PG50–H	41 1/2	67 3/4
Wood Ultrex Double Hung (4476)	1.57	6	LC–PG40–H	44	75 3/4
Wood Ultrex Double Hung (HP 4476)	1.57	7.5	LC–PG50–H	44	75 3/4
Wood Ultrex Double Hung Picture (5476)	1.57	6.06	LC–PG40–FW	53 1/2	75 3/4
Wood Ultrex Double Hung Picture (HP 5476)	1.57	7.52	LC–PG50–FW	53 1/2	75 3/4
Wood Ultrex Double Hung Picture (6264)	1.57	6.06	LC–PG40–FW	61 1/2	63 3/4
Wood Ultrex Double Hung Picture (HP 6264)	1.57	7.52	LC–PG50–FW	61 1/2	63 3/4

EGRESS MEASUREMENT / EGRESS FORMULA

Egress Calculations for Special Sizes			
Minimum Value for Net Clear Opening		Desired Dimension	Formula
20″	(508)	Egress Opening Width (inches)	= Frame OMW – 3.128″ (79)
24″	(610)	***Egress Opening Height (inches)	Standard Sash Stop (Non–Impact Units) = (Frame OMH/2) – 4.675″ (119)
			Standard Sash Stop (Impact Units) = (Frame OMH/2)–5.125″ (130)
			*Egress Sash Stop = (Frame OMH / 2) – 3.875″ (98)
			**Impact Limited Sash Stop =(Frame OMH/2)–9.625″ (244)
5.7 sq. ft.	(0.53)	Egress Opening Area (sq. ft.)	= (Egress Width x Egress Height) / 144

*Egress sash stop calculation is used for non–impact units in the following ranges:

- Rough Opening Width greater than 34.50″ (876) combined with an Rough Opening Height equal to 56.25″ (1429) and up to, but not including, 58.00″ (1473) (i.e. 35.25″ x 57.75″)
- Rough Opening Width greater than 34.50″ (876) and up to 38.50″ (978) combined with an Rough Opening Height equal to 60.25″ (1530) and up to, but not including, 62.00″ (1575) (i.e. 37.25″ x 61.75″)

**Impact limited sash stop calculation is used for the following units:

- Rough Opening Width equal to 36.50” (927) or greater combined with an Rough Opening Height equal to 76.25” (1937) or greater (i.e. 37.25” x 78.50”)

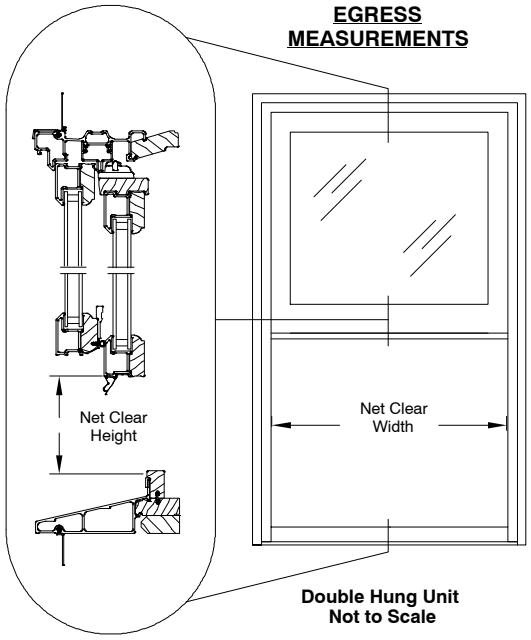
***For all Cottage Units, refer to the Egress Tables on page 3.7.

For all sizes not listed above, the standard sash stop calculation can be used.

Note: Rough Opening values (Rough Opening Width & Rough Opening Height) are based on unit sizes with Standard jambs (4 9/16″).

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

Clear height at bottom sash rail to sill.



STANDARD MEASUREMENT CONVERSIONS				
Wood–Ultrex Double Hung	**WIDTH**		**HEIGHT**	
Rough Opening to	**Imperial**	**Metric**	**Imperial**	**Metric**
Masonry Opening	– 1/2″	– 13 mm	– 1/4″	– 6 mm
OM of Frame	– 1″	– 25 mm	– 1/2″	– 13 mm
OM Sash	– 3 9/16″	– 90 mm	(÷ 2) – 1 3/16″	(÷ 2) – 30 mm
Daylight Opening	– 6 13/16″	– 173 mm	(÷ 2) – 4 7/16″	(÷ 2) – 113 mm
Om of Glass	– 5 3/4″	– 146 mm	(÷ 2) – 3 3/8″	(÷ 2) – 86 mm
OM of Screen	– 3″	– 76 mm	– 2 1/8″	– 54 mm
PICTURE / TRANSOM				
Masonry Opening	– 1/2″	– 13 mm	– 1/4″	– 6 mm
OM of Frame	– 1″	– 25 mm	– 1/2″	– 13 mm
OM Sash	– 3 9/16″	– 90 mm	– 3 5/16″	– 84 mm
Daylight Opening	– 6 13/16″	– 173 mm	– 6 9/16″	– 167 mm
Om of Glass	– 5 3/4″	– 146 mm	– 5 1/2″	– 140 mm

IMPACT IZ3 MEASUREMENT CONVERSIONS				
Wood–Ultrex Double Hung	**WIDTH**		**HEIGHT**	
Rough Opening to	**Imperial**	**Metric**	**Imperial**	**Metric**
Glass Size	– 5 15/16″	– 151 mm	(÷ 2) – 3 9/16″	(÷ 2) – 90 mm
PICTURE / TRANSOM				
Glass Size	– 5 15/16″	– 151 mm	– 5 11/16″	(÷ 2) – 144 mm

WOOD–ULTREX DOUBLE HUNG

MULLING GUIDELINES

Multiple assemblies can be factory mulled: up to 5 units wide by 1 unit high OR 2 unit wide by 2 units high.

MAXIMUM ROUGH OPENING not to exceed 113 1/2″ (2883) X 76 1/4″ (1937) up to 3 units wide by 5 units high

MAXIMUM ROUGH OPENING not to exceed 84″ (2134) X 92″ (2337)

NOTE: Field mulling beyond the above limitations is not recommended

NOTE: CE mark is not available on factory mulled units

NOTE: ADD 1/4″ to width and 1/8″ to height of frame, rough, and masonry opening sizes 6 9/16″ (167) **and 6 13/16″** (173) **jamb extension available factory applied or in lineal lengths for field application.**

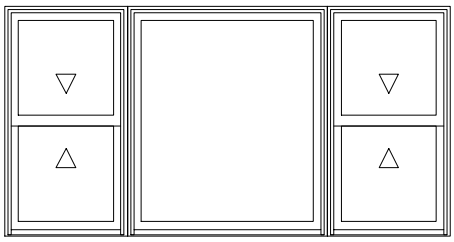
Calculating Total Rough Opening for Assemblies

WIDTH: ADD Frame Widths + 1″ (25)

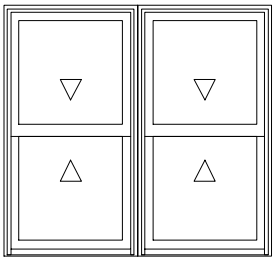
Tolerance = 1/2″ (13) from frame to Rough Opening at left and right jamb.

HEIGHT: ADD Frame Heights + 1/2″ (13)

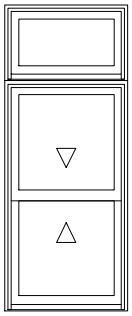
Tolerance = 1/2″ (13) from Frame to Rough Opening at head jamb.



3 Units Wide 1 Unit High



2 Units Wide 1 Unit High



1 Unit Wide
2 Units High

Factory Mulling

The Wood–Ultrex Double Hung may be mulled to Wood Ultrex Double Hung products, Direct Glaze Polygon, Integrity Round Tops, and Integrity Round Tops by Marvin.

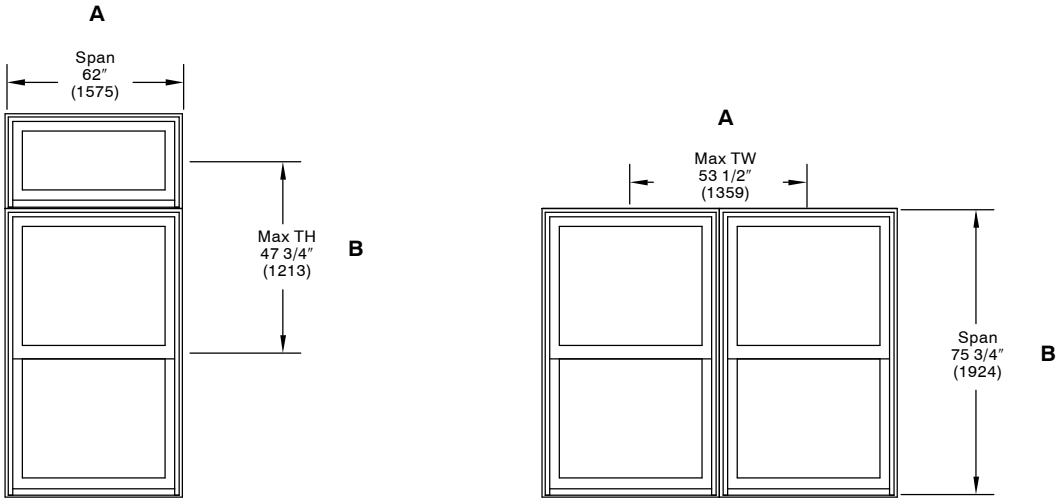
- Standard mull limits (all factory mulls)
  - Maximum Mulled Assembly RO Size
    - 4 units wide x 1 unit high – 113–1/2″ (2883) x 76–1/4″ (1937)
    - 2 units wide x 2 units high – 84″ (2134) x 92″ (2337)
- Field Mulling beyond the above limitations is not recommended

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, Impact multi–wide x multi–high assemblies.

1 Directional Mull Limits				
Product	**Max Span**	**Max TW or TH**	**Max R.O.**	**DP**
WU Double Hung Vertical Mulling IZ3	75 3/4″ (1924)	53 1/2″ (1359)	113 1/2″ x 76 1/4″ (2883 x 1937)	55/65
WU Double Hung Horizontal Mulling IZ3	62″ (1575)	47 1/8″ (1213)	63″ x 92″ (1600 x 2337)	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



WOOD–ULTREX DOUBLE HUNG

STANDARD SIZE CHARTS – DOUBLE HUNG

Standard Double Hung Unit Measurements								
Width								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft – in	mm	ft – in	mm	ft – in	mm	ft – in	mm
22	1–10	(559)	1–10 1/2	(572)	1–9 1/2	(546)	1–3 11/16	(398)
26	2–2	(660)	2–2 1/2	(673)	2–1 1/2	(648)	1–7 11/16	(500)
30	2–6	(762)	2–6 1/2	(775)	2–5 1/2	(749)	1–11 11/16	(602)
32	2–8	(813)	2–8 1/2	(826)	2–7 1/2	(800)	2–1 11/16	(652)
34	2–10	(864)	2–10 1/2	(876)	2–9 1/2	(851)	2–3 11/16	(703)
36	3–0	(914)	3–0 1/2	(927)	2–11 1/2	(902)	2–5 11/16	(754)
38	3–2	(965)	3–2 1/2	(978)	3–1 1/2	(953)	2–7 11/16	(805)
42	3–6	(1067)	3–6 1/2	(1080)	3–5 1/2	(1054)	2–11 11/16	(906)

Standard Double Hung Unit Measurements								
Height								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft – in	mm	ft – in	mm	ft – in	mm	ft – in	mm
36	3–0	(914)	3–0 1/4	(921)	2–11 3/4	(908)	1–1 11/16	(348)
40	3–4	(1016)	3–4 1/4	(1022)	3–3 3/4	(1010)	1–3 11/16	(398)
44	3–8	(1118)	3–8 1/4	(1124)	3–7 3/4	(1111)	1–5 11/16	(449)
48	4–0	(1219)	4–0 1/4	(1226)	3–11 3/4	(1213)	1–7 11/16	(500)
52	4–4	(1321)	4–4 1/4	(1327)	4–3 3/4	(1314)	1–9 11/16	(551)
56	4–8	(1422)	4–8 1/4	(1429)	4–7 3/4	(1416)	1–11 11/16	(602)
60	5–0	(1524)	5–0 1/4	(1530)	4–11 3/4	(1518)	2–1 11/16	(652)
64	5–4	(1626)	5–4 1/4	(1632)	5–3 3/4	(1619)	2–3 11/16	(703)
68	5–8	(1727)	5–8 1/4	(1734)	5–7 3/4	(1721)	2–5 11/16	(754)
68C	5–8	(1727)	5–8 1/4	(1734)	5–7 3/4	(1721)	1–11 11/16	(602)
							2–11 11/16	(906)
72	6–0	(1829)	6–0 1/4	(1835)	5–11 3/4	(1822)	2–7 11/16	(805)
76	6–4	(1930)	6–4 1/4	(1937)	6–3 3/4	(1924)	2–9 11/16	(856)

For standard double hung elevations, visit:

http://integritywindows.com/download.aspx?documentid=1170

For impact double hung elevations, visit:

http://integritywindows.com/download/documents/impact%20specs/IMPACT_Double_Hung.pdf

STANDARD SIZE CHARTS – TRANSOM

Standard Double Hung Transom Unit Measurements								
Width								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft – in	mm	ft – in	mm	ft – in	mm	ft – in	mm
22		558.8	1–10 1/2	(572)	1–9 1/2	(546)	1–3 11/16	(398)
26	2–2	660.4	2–2 1/2	(673)	2–1 1/2	(648)	1–7 11/16	(500)
30	2–6	762	2–6 1/2	(775)	2–5 1/2	(749)	1–9 11/16	(551)
32	2–8	812.8	2–8 1/2	(826)	2–7 1/2	(800)	1–11 11/16	(602)
34	2–10	863.6	2–10 1/2	(876)	2–9 1/2	(851)	2–3 11/16	(703)
36	3–0	914.4	3–0 1/2	(927)	2–11 1/2	(902)	2–5 11/16	(754)
38	3–2	965.2	3–2 1/2	(978)	3–1 1/2	(953)	2–7 11/16	(805)
42	3–6	1066.8	3–6 1/2	(1080)	3–5 1/2	(1054)	2–11 11/16	(906)
50	4–2	1270	4–2 1/2	(1283)	4–1 1/2	(1257)	3–7 11/16	(1110)
54	4–6	1371.6	4–6 1/2	(1384)	4–5 1/2	(1359)	3–11 11/16	(1211)
62	5–2	1574.8	5–2 1/2	(1588)	5–1 1/2	(1562)	4–7 11/16	(1414)

Standard Double Hung Transom Unit Measurements								
Height								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	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)	0–9 11/16	(246)
24	2–0	(610)	2–0 1/4	(616)	1–11 3/4	(603)	1–5 11/16	(449)

NOTE: CE is not available on Double Hung Transom units.

STANDARD SIZE CHARTS – PICTURE

Standard Double Hung Picture Unit Measurements								
Width								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft – in	mm	ft – in	mm	ft – in	mm	ft – in	mm
22	1–10	(559)	1–10 1/2	(572)	1–9 1/2	(546)	1–3 11/16	(398)
26	2–2	(660)	2–2 1/2	(673)	2–1 1/2	(648)	1–7 11/16	(500)
30	2–6	(762)	2–6 1/2	(775)	2–5 1/2	(749)	1–11 11/16	(602)
32	2–8	(813)	2–8 1/2	(826)	2–7 1/2	(800)	2–1 11/16	(652)
34	2–10	(864)	2–10 1/2	(876)	2–9 1/2	(851)	2–3 11/16	(703)
36	3–0	(914)	3–0 1/2	(927)	2–11 1/2	(902)	2–5 11/16	(754)
38	3–2	(965)	3–2 1/2	(978)	3–1 1/2	(953)	2–7 11/16	(805)
42	3–6	(1067)	3–6 1/2	(1080)	3–5 1/2	(1054)	2–11 11/16	(906)
50	4–2	(1270)	4–2 1/2	(1283)	4–1 1/2	(1257)	3–7 11/16	(1110)
54	4–6	(1372)	4–6 1/2	(1384)	4–5 1/2	(1359)	3–11 11/16	(1211)
62	5–2	(1575)	5–2 1/2	(1588)	5–1 1/2	(1562)	4–7 11/16	(1414)

Standard Double Hung Picture Unit Measurements								
Height								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft – in	mm	ft – in	mm	ft – in	mm	ft – in	mm
24	2–0	(610)	2–0 1/4	(616)	1–11 3/4	(603)	1–5 11/16	(449)
36	3–0	(914)	3–0 1/4	(921)	2–11 3/4	(908)	2–5 11/16	(754)
40	3–4	(1016)	3–4 1/4	(1022)	3–3 3/4	(1010)	2–9 11/16	(856)
44	3–8	(1118)	3–8 1/4	(1124)	3–7 3/4	(1111)	3–1 11/16	(957)
48	4–0	(1219)	4–0 1/4	(1226)	3–11 3/4	(1213)	3–5 11/16	(1059)
52	4–4	(1321)	4–4 1/4	(1327)	4–3 3/4	(1314)	3–9 11/16	(1160)
56	4–8	(1422)	4–8 1/4	(1429)	4–7 3/4	(1416)	4–1 11/16	(1262)
60	5–0	(1524)	5–0 1/4	(1530)	4–11 3/4	(1518)	4–5 11/16	(1364)
64	5–4	(1626)	5–4 1/4	(1632)	5–3 3/4	(1619)	4–9 11/16	(1465)
68	5–8	(1727)	5–8 1/4	(1734)	5–7 3/4	(1721)	5–1 11/16	(1567)
72	6–0	(1829)	6–0 1/4	(1835)	5–11 3/4	(1822)	5–5 11/16	(1668)
76	6–4	(1930)	6–4 1/4	(1937)	6–3 3/4	(1924)	5–9 11/16	(1770)

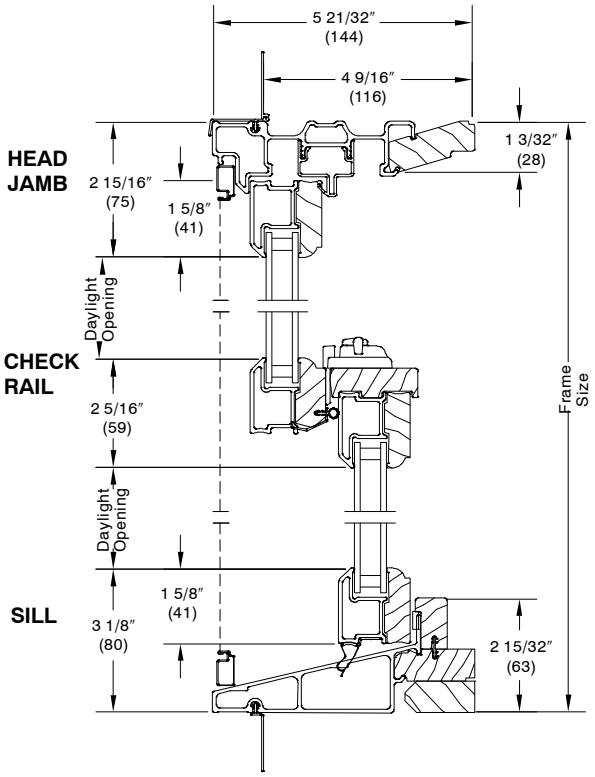
NOTE: CE is not available on Double Hung Picture units.

WOOD–ULTREX DOUBLE HUNG

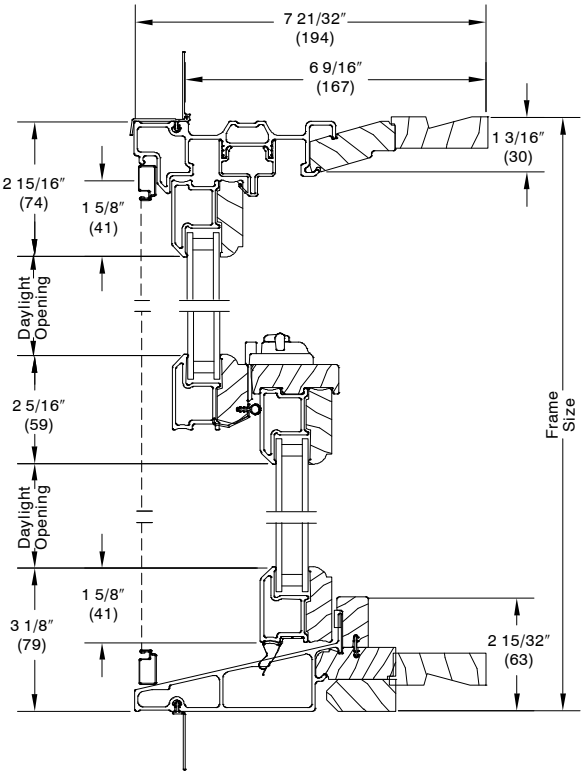
SECTION DETAILS: Not to Scale

STANDARD GLAZED

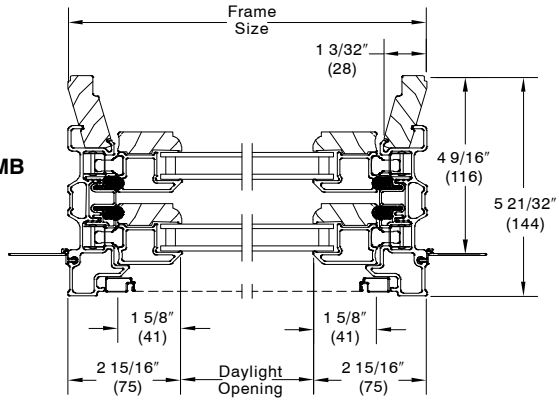
OPERATING – 4 9/16″

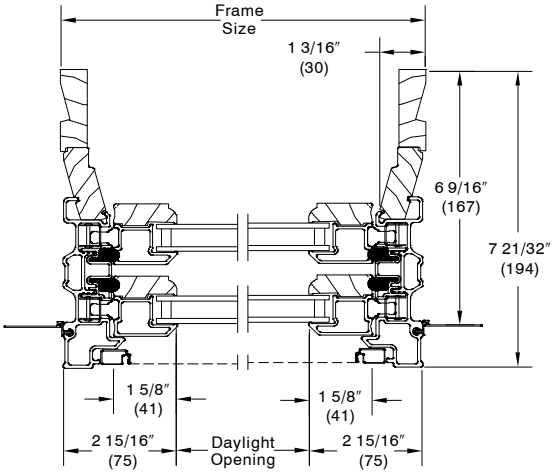


OPERATING – 6 9/16″

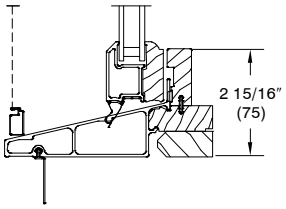


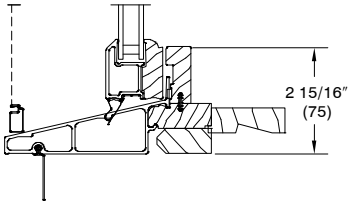
JAMB





HIGH PERFORMANCE





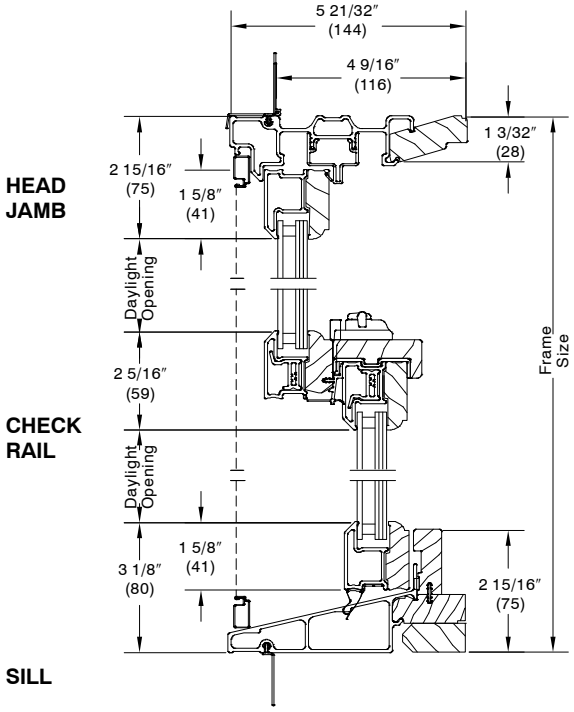
NOTE: CE is not available on High Performance units

WOOD–ULTREX DOUBLE HUNG

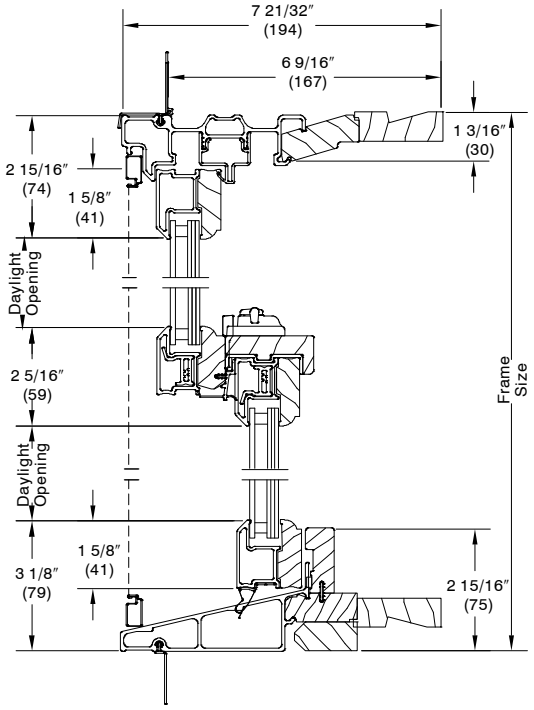
SECTION DETAILS Not to Scale

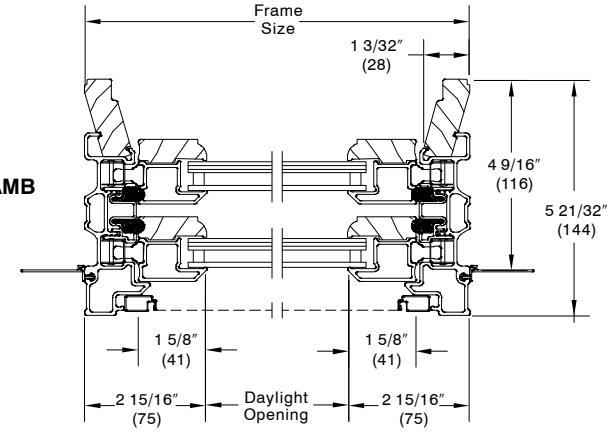
DOUBLE HUNG – IMPACT UNITS

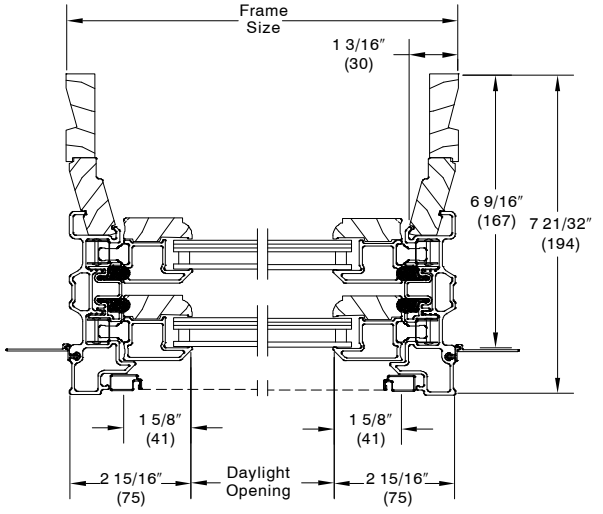
OPERATING – 4 9/16″



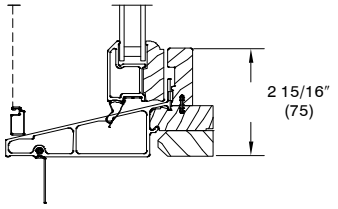
OPERATING – 6 9/16″

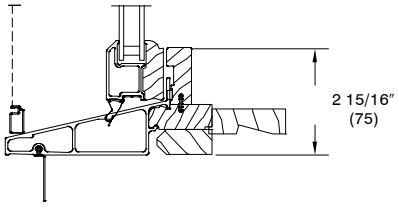






HIGH PERFORMANCE





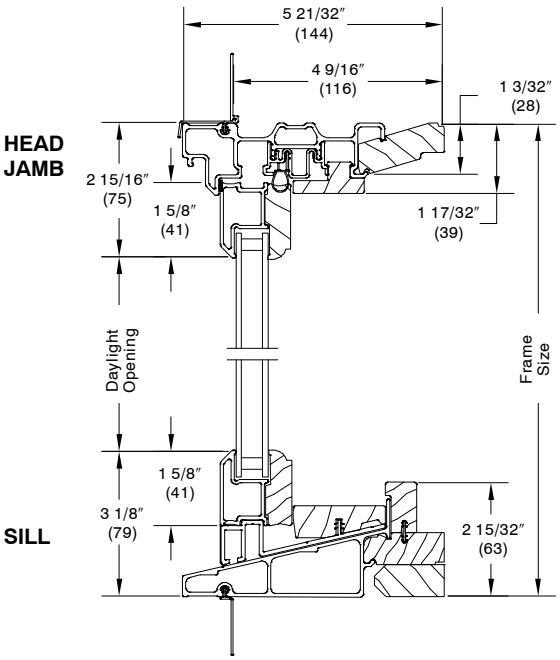
NOTE: CE is not available on High Performance or Impact units

WOOD–ULTREX DOUBLE HUNG

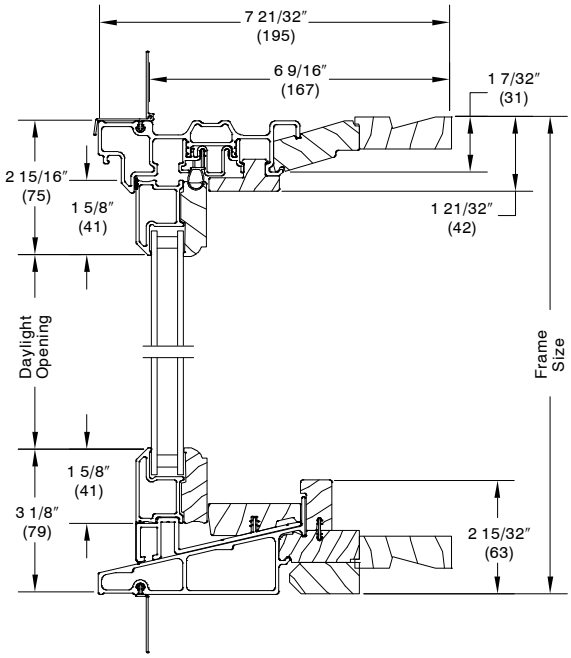
SECTION DETAILS Not to Scale

STANDARD GLAZED

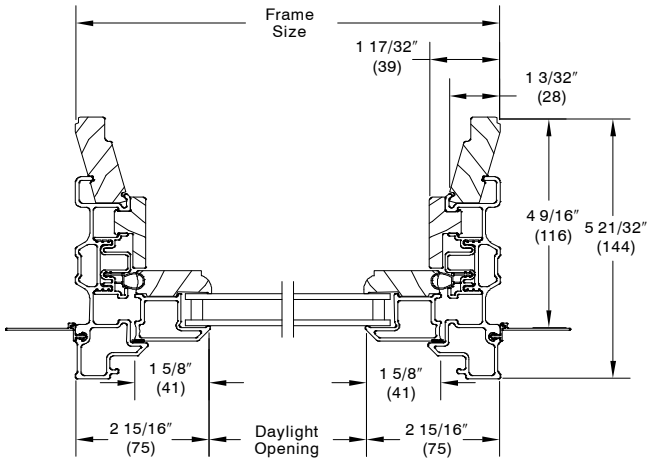
TRANSOM / PICTURE – 4 9/16″

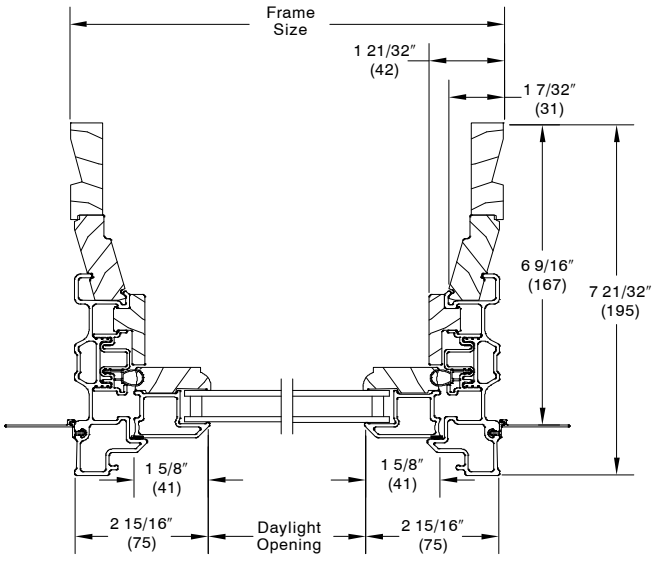


TRANSOM / PICTURE – 6 9/16″

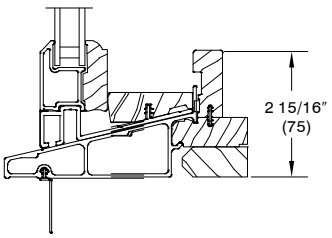


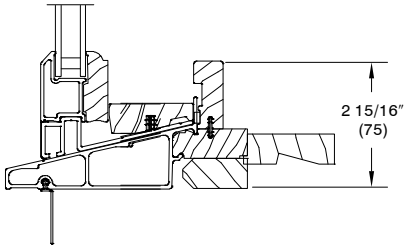
JAMB





HIGH PERFORMANCE



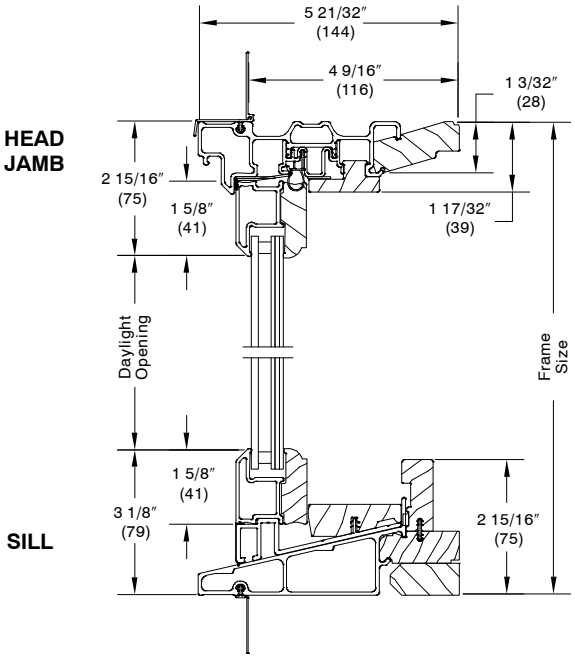


NOTE: NOTE: CE is not available on High Performance units

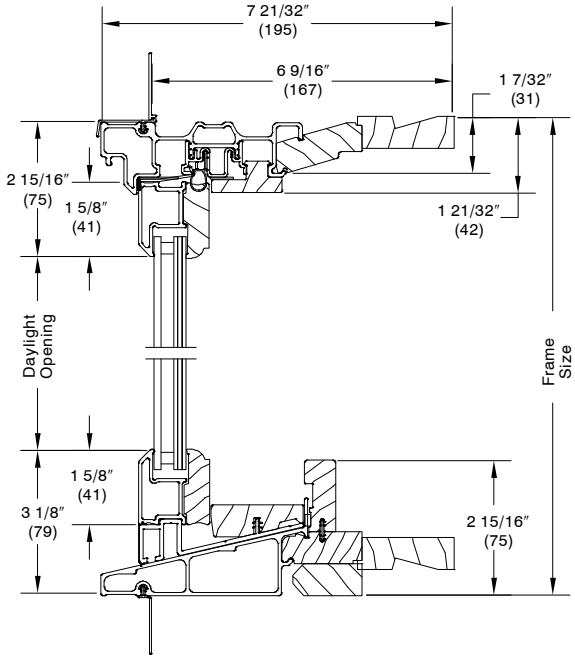
SECTION DETAILS Not to Scale

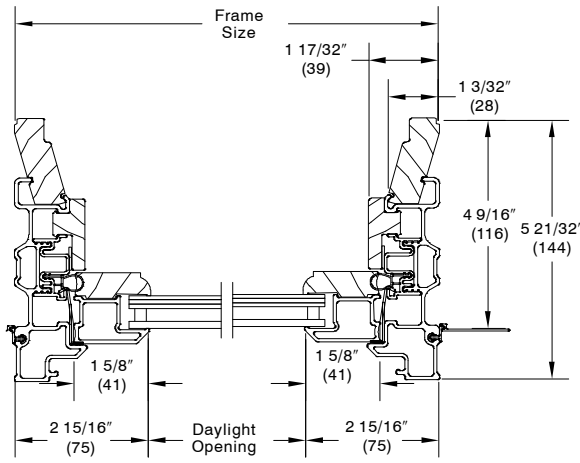
DOUBLE HUNG – IMPACT UNITS

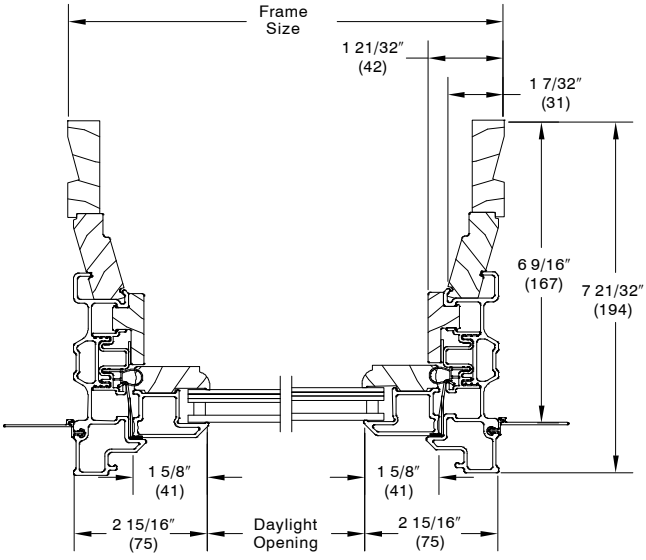
TRANSOM / PICTURE – 4 9/16″



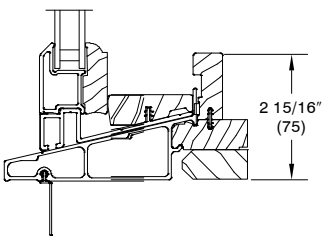
TRANSOM / PICTURE – 6 9/16″

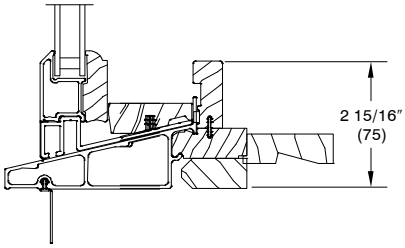






HIGH PERFORMANCE

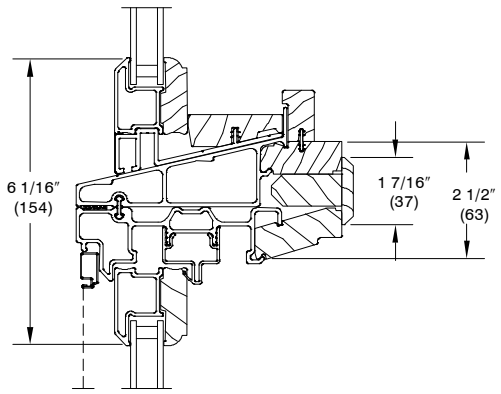




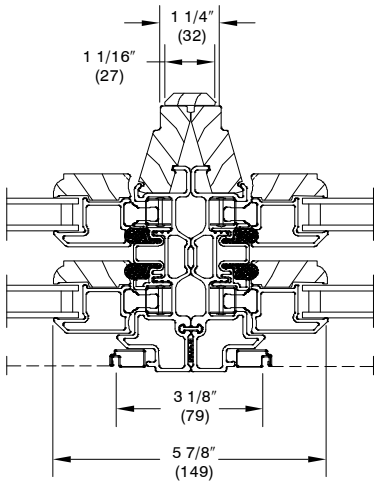
NOTE: CE Mark not available High Performance or Impact Products

SECTION DETAILS – MULLIONS SCALE: 3″ = 1′0″

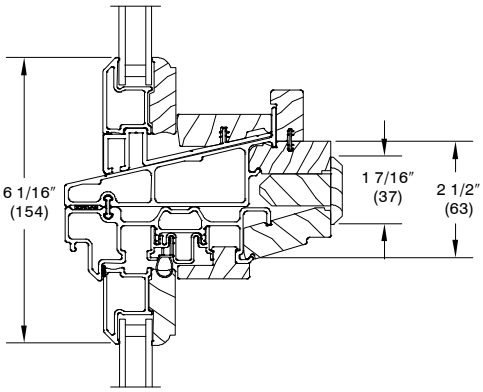
MULLIONS



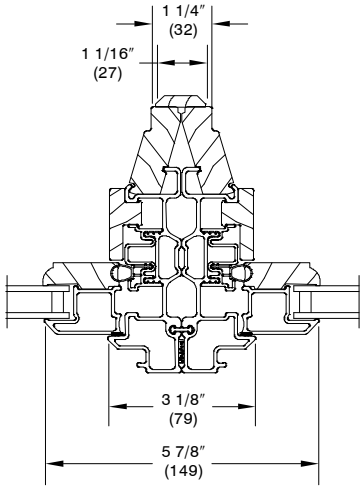
HORIZONTAL TRANSOM OVER OPERATING UNIT



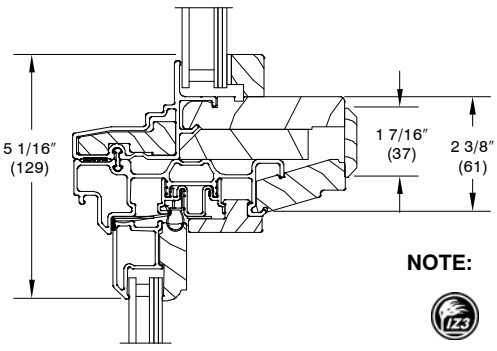
VERTICAL DOUBLE HUNG UNITS 2 WIDE



HORIZONTAL TRANSOM OVER PICTURE UNIT



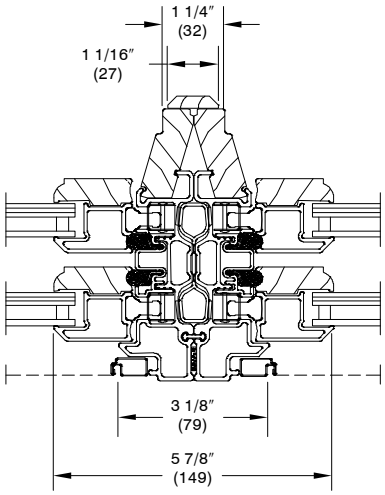
VERTICAL PICTURE UNIT 2 WIDE



NOTE:

Logo represents units that are certified for Impact glazing with a wind zone 3

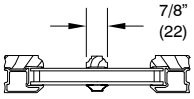
HORIZONTAL DG TRANSOM OVER PICTURE UNIT – IMPACT



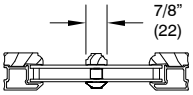
VERTICAL DOUBLE HUNG UNITS 2 WIDE – IMPACT

NOTE: CE Mark not available on mulled or Impact Products

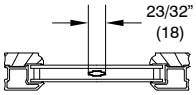
DIVIDED LITE OPTIONS



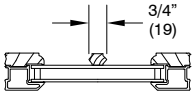
Simulated Divided Lite



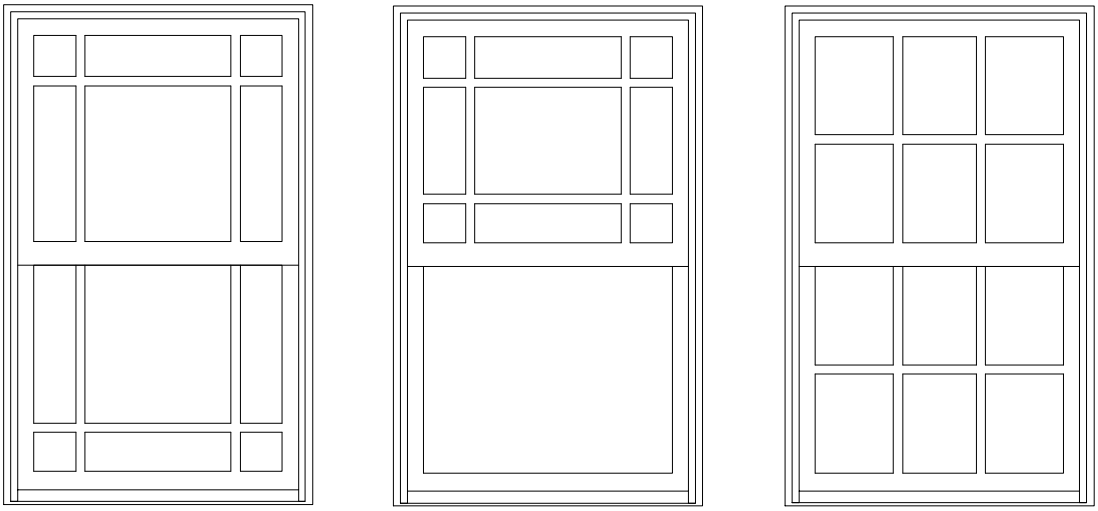
Simulated Divided Lite w/Spacer Bar



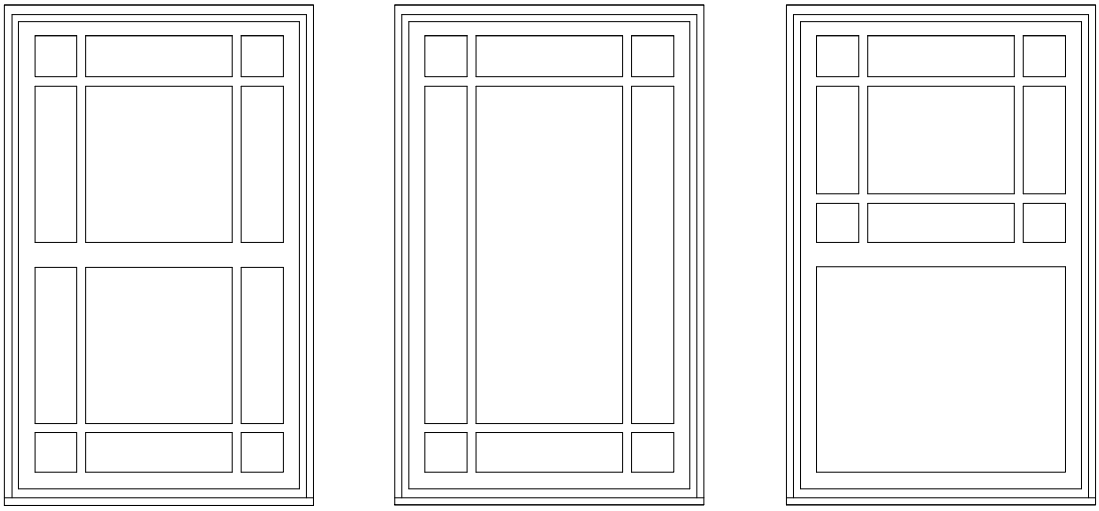
Aluminum Grille Between Glass



Wood Removable Grill



* Optional 6 lite Prairie cut for GBG or SDL.



* Optional 9 lite Prairie cut for GBG or SDL.

NOTE: 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 mulled with.

NOTE: GBG and SDL with spacer bars are not available on Impact IZ3 units

NOTE: 4″ (102) DLO lite cut minimum for 7/8″ (22)pattern

WOOD–ULTREX DOUBLE HUNG

AVAILABLE DIVIDED LITE PATTERNS

Double Hung Divided Lite Options – Per Sash								
CN	Width							
	22		26		30		32	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
36	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
40	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
44	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
48	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
52	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
56	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
60	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
64	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
68	2W2H 2W1H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite
72	2W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite
76	2W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite

AVAILABLE DIVIDED LITE PATTERNS

Double Hung Divided Lite Options – Per Sash								
CN	Width							
	34		36		38		42	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
36	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
40	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
44	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
48	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
52	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
56	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
60	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
64	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
68	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite	4W2H 2W1H 2W2H	6–Lite
72	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	4W3H 2W1H 2W2H	6–Lite	4W3H 2W1H 2W2H	6–Lite
76	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	4W3H 2W1H 2W2H	6–Lite	4W3H 2W1H 2W2H	6–Lite

AVAILABLE DIVIDED LITE PATTERNS

Double Hung Cottage Top Sash Divided Lite Options								
CN	**Width**							
	22		**26**		**30**		**32**	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
56	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite

Double Hung Cottage Bottom Sash Divided Lite Options								
CN	**Width**							
	22		**26**		**30**		**32**	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
68	3W2H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite

Double Hung Cottage Top Sash Divided Lite Options								
CN	**Width**							
	34		**36**		**38**		**42**	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
56	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite	3W2H 2W1H 2W2H	6–Lite

Double Hung Cottage Bottom Sash Divided Lite Options								
CN	**Width**							
	34		**36**		**38**		**42**	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
68	3W3H 2W1H 2W2H	6–Lite	3W3H 2W1H 2W2H	6–Lite	4W3H 2W1H 2W2H	6–Lite	4W3H 2W1H 2W2H	6–Lite

WOOD–ULTREX DOUBLE HUNG

AVAILABLE DIVIDED LITE PATTERNS

Double Hung Transom Divided Lite Options										
CN	**Width**									
	22		**26**		**30**		**32**		**34**	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
16	2W1H	N/A	3W1H 2W1H	N/A	3W1H 2W1H	N/A	3W1H 2W1H	N/A	3W1H 2W1H	N/A
24	2W2H 2W1H	N/A	3W2H 2W1H	N/A	3W2H 2W1H	N/A	3W2H 2W1H	N/A	3W2H 2W1H	N/A

Double Hung Transom Divided Lite Options												
CN	**Width**											
	36		**38**		**42**		**50**		**54**		**62**	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
16	3W1H 2W1H	N/A	4W1H 2W1H	N/A	4W1H 2W1H	N/A	5W1H 2W1H	N/A	5W1H 2W1H	N/A	6W1H 2W1H	N/A
24	3W2H 2W1H	N/A	4W2H 2W1H	N/A	4W2H 2W1H	N/A	5W2H 2W1H	N/A	5W2H 2W1H	N/A	6W2H 2W1H	N/A

WOOD–ULTREX DOUBLE HUNG

AVAILABLE DIVIDED LITE PATTERNS

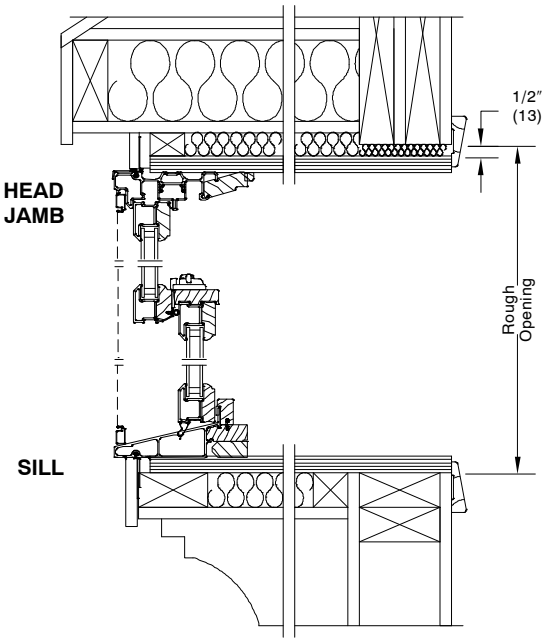
Double Hung Picture Divided Lite Options												
CN	Width											
	22		26		30		32		34		36	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
24	2W2H	9–Lite	3W2H	9–Lite	3W2H	9–Lite	3W2H	9–Lite	3W2H	9–Lite	3W2H	9–Lite
36	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
40	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
44	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
48	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
52	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
56	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
60	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
64	2W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite	3W4H	9–Lite
68	2W4H 2W5H	9–Lite	3W4H 3W5H	9–Lite	3W4H 3W5H	9–Lite	3W4H 3W5H	9–Lite	3W4H 3W5H	9–Lite	3W4H 3W5H	9–Lite
72	2W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite
76	2W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite	3W6H	9–Lite

AVAILABLE DIVIDED LITE PATTERNS

Double Hung Picture Divided Lite Options										
CN	Width									
	38		42		50		54		62	
Height	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional	Rect Default/ Optional	Prairie Optional
24	4W2H	9–Lite	4W2H	9–Lite	5W2H	9–Lite	5W2H	9–Lite	6W2H	9–Lite
36	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
40	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
44	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
48	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
52	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
56	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
60	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H	9–Lite	6W4H	9–Lite
64	4W4H	9–Lite	4W4H	9–Lite	5W4H	9–Lite	5W4H 5W5H	9–Lite	6W4H	9–Lite
68	4W4H 4W5H	9–Lite	4W4H 4W5H	9–Lite	5W4H 5W5H	9–Lite	5W4H	9–Lite	N/A	
72	4W6H	9–Lite	4W6H	9–Lite	5W6H	9–Lite	5W6H	9–Lite	N/A	
76	4W6H	9–Lite	4W6H	9–Lite	5W6H	9–Lite	5W6H	9–Lite	N/A	

WOOD–ULTREX DOUBLE HUNG BAY

30° BAY UNIT Scale 3″ = 1′ 0″

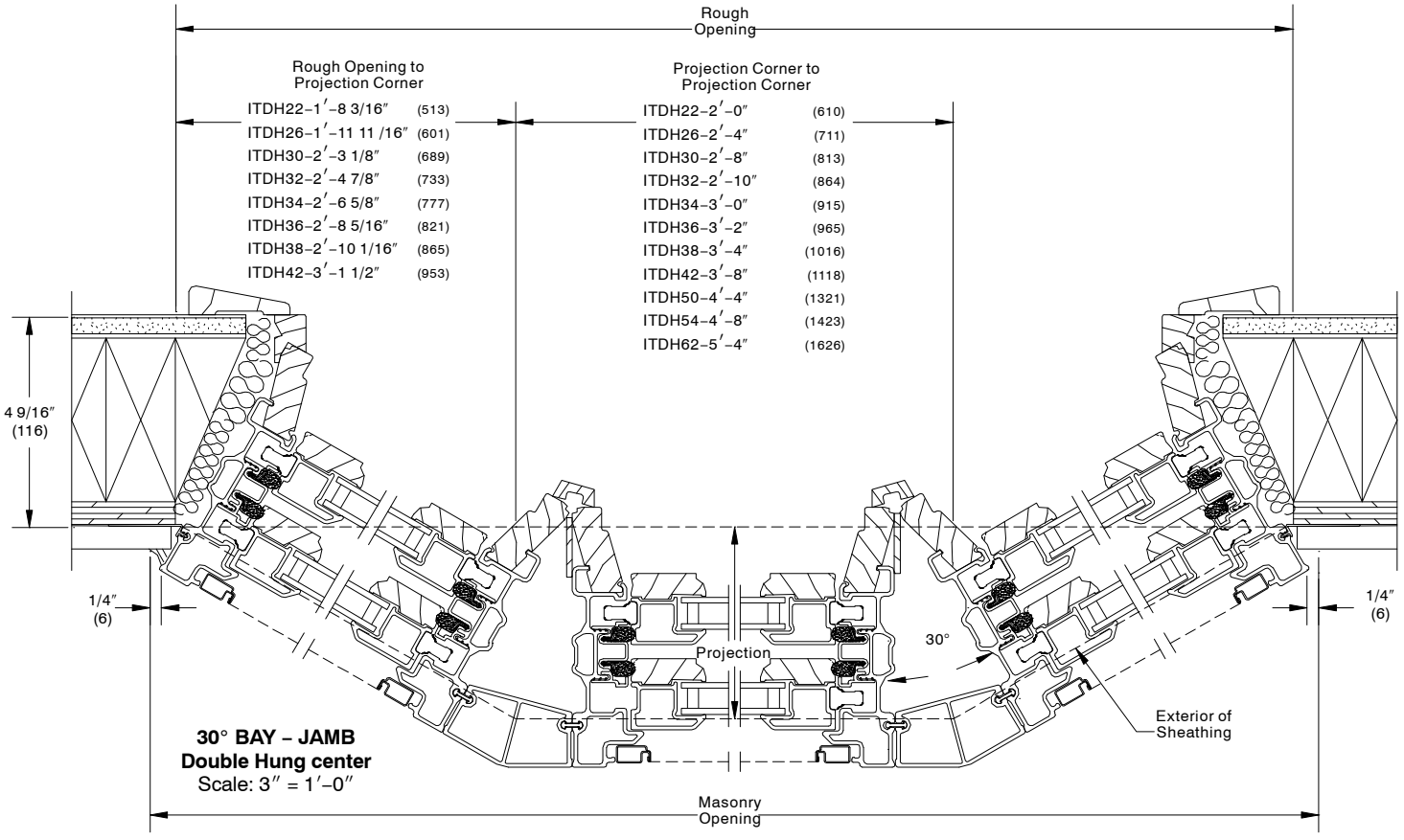


Structural support members supplied by others.

Double Hung Bay / Bow Height Dimensions					
CN		MO Height		RO Height	
Operable	Picture	ft–in	mm	ft–in	mm
24	N/A	2–1 7/16	(646)	2–1 11/16	(652)
36	N/A	3–1 7/16	(951)	3–1 11/16	(957)
40	40	3–5 7/16	(1053)	3–5 11/16	(1059)
44	44	3–7 7/16	(1103)	3–7 11/16	(1110)
48	48	4–1 7/16	(1256)	4–1 11/16	(1262)
52	52	4–5 7/16	(1357)	4–5 11/16	(1364)
56	56	4–9 7/16	(1459)	4–9 11/16	(1465)
60	60	5–1 7/16	(1561)	5–1 11/16	(1567)
64	64	5–5 7/16	(1662)	5–5 11/16	(1668)
68	68	5–9 7/16	(1764)	5–9 11/16	(1770)
72	N/A	6–1 7/16	(1865)	6–1 11/16	(1872)
76	N/A	6–5 7/16	(1967)	6–5 11/16	(1973)

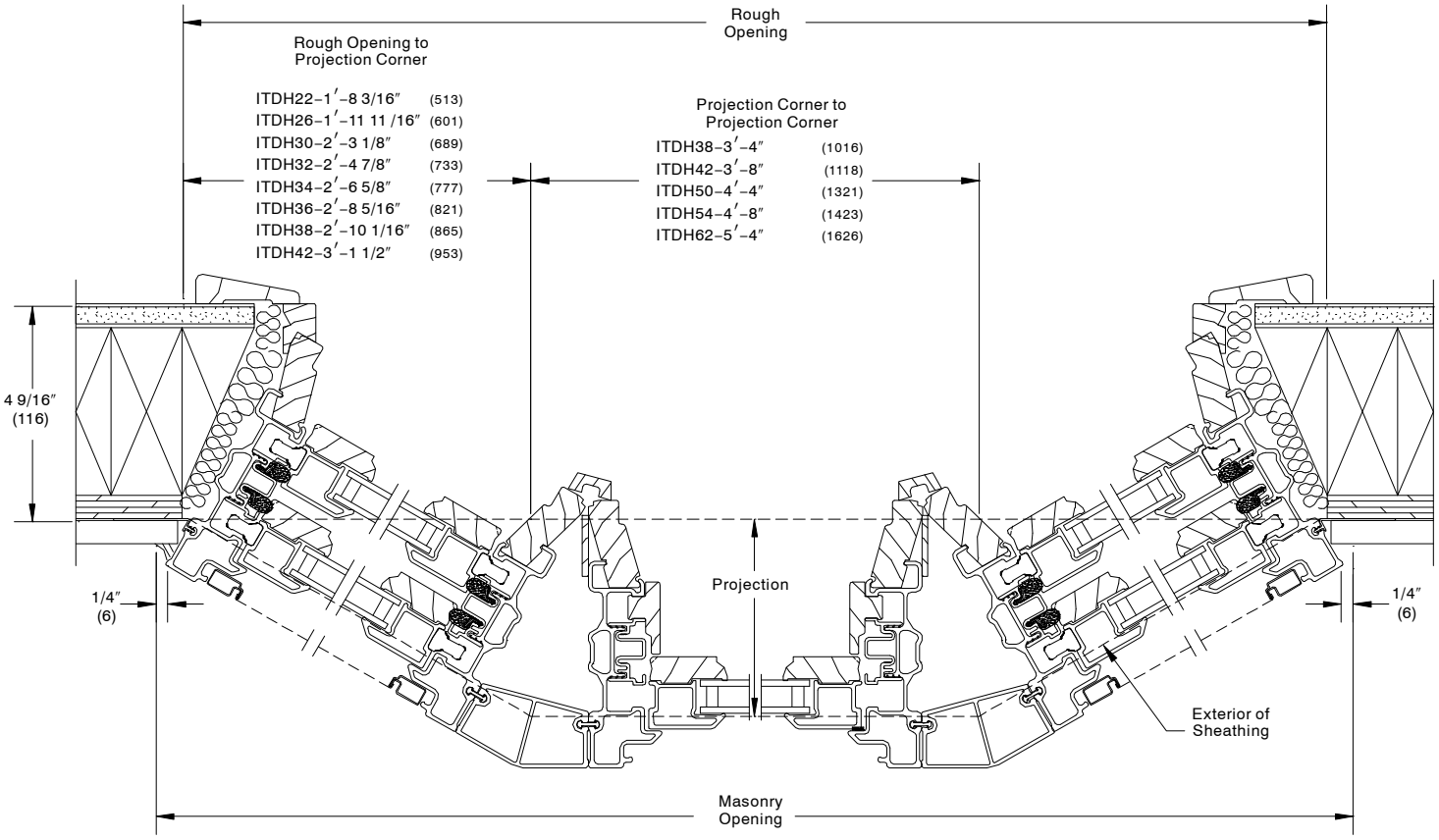
NOTE: Impact glazed units are not available in Bay configurations.

NOTE: CE units are not available in Bay configurations.



WOOD–ULTREX DOUBLE HUNG BAY

30° BAY UNITS Scale 3″ = 1′ 0″



NOTE: Factory assembled bay units include head and seat boards.
NOTE: Structural support members and interior trim supplied by others.
NOTE: Impact glazed units are not available in Bay configurations.
NOTE: CE units are not available in Bay configurations.

WOOD–ULTREX DOUBLE HUNG BAY

30° BAY UNITS – WIDTH DIMENSIONS

30 Degree Double Hung Bay – Width Dimensions								
Unit #	MO Width		RO Width		OM of Jamb to OM of Jamb		Projection	
	ft–in	mm	ft–in	mm	ft–in	mm	ft–in	mm
22 Wide Units								
22–22–22	5–5	(1650)	5–4 7/16	(1636)	4–11 7/16	(1510)	0–11 3/8	(289)
22–26–22	5–9	(1752)	5–8 7/16	(1738)	5–3 7/16	(1612)	0–11 3/8	(289)
22–30–22	6–1	(1854)	6–0 7/16	(1839)	5–7 7/16	(1714)	0–11 3/8	(289)
22–32–22	6–3	(1904)	6–2 7/16	(1890)	5–9 7/16	(1764)	0–11 3/8	(289)
22–34–22	6–5	(1955)	6–4 7/16	(1941)	5–11 7/16	(1815)	0–11 3/8	(289)
22–36–22	6–7	(2006)	6–6 7/16	(1992)	6–1 7/16	(1866)	0–11 3/8	(289)
22–38–22	6–9	(2057)	6–8 7/16	(2043)	6–3 7/16	(1917)	0–11 3/8	(289)
22–42–22	7–1	(2158)	7–0 7/16	(2144)	6–7 7/16	(2018)	0–11 3/8	(289)
22–50–22	7–9	(2362)	7–8 7/16	(2347)	7–3 7/16	(2222)	0–11 3/8	(289)
22–54–22	8–1	(2463)	8–0 7/16	(2449)	7–7 7/16	(2323)	0–11 3/8	(289)
22–62–22	8–9	(2666)	8–8 7/16	(2652)	8–3 7/16	(2526)	0–11 3/8	(289)
26 Wide Units								
26–22–26	5–11 15/16	(1826)	5–11 3/8	(1812)	5–6 3/8	(1686)	1–1 3/8	(340)
26–26–26	6–3 15/16	(1928)	6–3 3/8	(1914)	5–10 3/8	(1788)	1–1 3/8	(340)
26–30–26	6–7 15/16	(2030)	6–7 3/8	(2015)	6–2 3/8	(1890)	1–1 3/8	(340)
26–32–26	6–9 15/16	(2080)	6–9 3/8	(2066)	6–4 3/8	(1940)	1–1 3/8	(340)
26–34–26	6–11 15/16	(2131)	6–11 3/8	(2117)	6–6 3/8	(1991)	1–1 3/8	(340)
26–36–26	7–1 15/16	(2182)	7–1 3/8	(2168)	6–8 3/8	(2042)	1–1 3/8	(340)
26–38–26	7–3 15/16	(2233)	7–3 3/8	(2219)	6–10 3/8	(2093)	1–1 3/8	(340)
26–42–26	7–7 15/16	(2334)	7–7 3/8	(2320)	7–2 3/8	(2194)	1–1 3/8	(340)
26–50–26	8–3 15/16	(2538)	8–3 3/8	(2523)	7–10 3/8	(2398)	1–1 3/8	(340)
26–54–26	8–7 15/16	(2639)	8–7 3/8	(2625)	8–2 3/8	(2499)	1–1 3/8	(340)
26–62–26	9–3 15/16	(2842)	9–3 3/8	(2828)	8–10 3/8	(2702)	1–1 3/8	(340)
30 Wide Units								
30–22–30	6–6 13/16	(2002)	6–6 1/4	(1988)	6–1 5/16	(1862)	1–3 3/8	(391)
30–26–30	6–10 13/16	(2104)	6–10 1/4	(2090)	6–5 5/16	(1964)	1–3 3/8	(391)
30–30–30	7–2 13/16	(2206)	7–2 1/4	(2191)	6–9 5/16	(2066)	1–3 3/8	(391)
30–32–30	7–4 13/16	(2256)	7–4 1/4	(2242)	6–11 5/16	(2116)	1–3 3/8	(391)
30–34–30	7–6 13/16	(2307)	7–6 1/4	(2293)	7–1 5/16	(2167)	1–3 3/8	(391)
30–36–30	7–8 13/16	(2358)	7–8 1/4	(2344)	7–3 5/16	(2218)	1–3 3/8	(391)
30–38–30	7–10 13/16	(2409)	7–10 1/4	(2395)	7–5 5/16	(2269)	1–3 3/8	(391)
30–42–30	8–2 13/16	(2510)	8–2 1/4	(2496)	7–9 5/16	(2370)	1–3 3/8	(391)
30–50–30	8–10 13/16	(2714)	8–10 1/4	(2699)	8–5 5/16	(2574)	1–3 3/8	(391)
30–54–30	9–2 13/16	(2815)	9–2 1/4	(2801)	8–9 5/16	(2675)	1–3 3/8	(391)

WOOD–ULTREX DOUBLE HUNG BAY

30° BAY UNITS – WIDTH DIMENSIONS

30 Degree Double Hung Bay – Width Dimensions								
Unit #	MO Width		RO Width		OM of Jamb to OM of Jamb		Projection	
	ft–in	mm	ft–in	mm	ft–in	mm	ft–in	mm
32 Wide Units								
32–22–32	6–10 5/16	(2090)	6–9 3/4	(2076)	6–4 13/16	(1950)	1–4 3/8	(416)
32–26–32	7–2 5/16	(2192)	7–1 3/4	(2178)	6–8 13/16	(2052)	1–4 3/8	(416)
32–30–32	7–6 5/16	(2294)	7–5 3/4	(2279)	7–0 13/16	(2153)	1–4 3/8	(416)
32–32–32	7–8 5/16	(2344)	7–7 3/4	(2330)	7–2 13/16	(2204)	1–4 3/8	(416)
32–34–32	7–10 5/16	(2395)	7–9 3/4	(2381)	7–4 13/16	(2255)	1–4 3/8	(416)
32–36–32	8–0 5/16	(2446)	7–11 3/4	(2432)	7–6 13/16	(2306)	1–4 3/8	(416)
32–38–32	8–2 5/16	(2497)	8–1 3/4	(2483)	7–8 13/16	(2357)	1–4 3/8	(416)
32–42–32	8–6 5/16	(2598)	8–5 3/4	(2584)	8–0 13/16	(2458)	1–4 3/8	(416)
32–50–32	9–2 5/16	(2802)	9–1 3/4	(2787)	8–8 13/16	(2661)	1–4 3/8	(416)
34 Wide Units								
34–22–34	7–1 3/4	(2178)	7–1 3/16	(2164)	6–8 1/4	(2038)	1–5 3/8	(441)
34–26–34	7–5 3/4	(2280)	7–5 3/16	(2266)	7–0 1/4	(2140)	1–5 3/8	(441)
34–30–34	7–9 3/4	(2382)	7–9 3/16	(2367)	7–4 1/4	(2241)	1–5 3/8	(441)
34–32–34	7–11 3/4	(2432)	7–11 3/16	(2418)	7–6 1/4	(2292)	1–5 3/8	(441)
34–34–34	8–1 3/4	(2483)	8–1 3/16	(2469)	7–8 1/4	(2343)	1–5 3/8	(441)
34–36–34	8–2 3/4	(2509)	8–2 3/16	(2494)	7–9 1/4	(2368)	1–5 3/8	(441)
34–38–34	8–5 3/4	(2585)	8–5 3/16	(2571)	8–0 1/4	(2445)	1–5 3/8	(441)
34–42–34	8–9 3/4	(2686)	8–9 3/16	(2672)	8–4 1/4	(2546)	1–5 3/8	(441)
34–50–34	9–5 3/4	(2890)	9–5 3/16	(2875)	9–0 1/4	(2749)	1–5 3/8	(441)
36 Wide Units								
36–22–36	7–5 1/4	(2266)	7–4 11/16	(2252)	6–11 11/16	(2126)	1–6 3/8	(467)
36–26–36	7–9 1/4	(2368)	7–8 11/16	(2354)	7–3 11/16	(2228)	1–6 3/8	(467)
36–30–36	8–1 1/4	(2470)	8–0 11/16	(2455)	7–7 11/16	(2329)	1–6 3/8	(467)
36–32–36	8–3 1/4	(2520)	8–2 11/16	(2506)	7–9 11/16	(2380)	1–6 3/8	(467)
36–34–36	8–5 1/4	(2571)	8–4 11/16	(2557)	7–11 11/16	(2431)	1–6 3/8	(467)
36–36–36	8–7 1/4	(2622)	8–6 11/16	(2608)	8–1 11/16	(2482)	1–6 3/8	(467)
36–38–36	8–9 1/4	(2673)	8–8 11/16	(2659)	8–3 11/16	(2533)	1–6 3/8	(467)
36–42–36	9–1 1/4	(2774)	9–0 11/16	(2760)	8–7 11/16	(2634)	1–6 3/8	(467)

NOTE: White interior finish on head and seat board is available at no additional charge for factory mulled bay assemblies only.

WOOD–ULTREX DOUBLE HUNG BAY

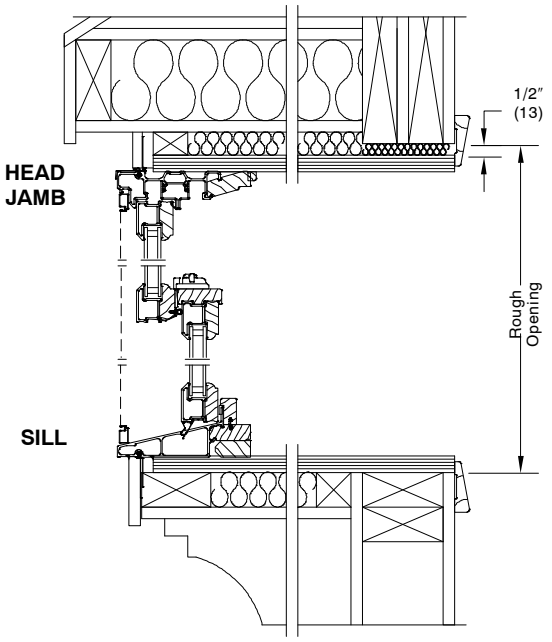
30° BAY UNITS – WIDTH DIMENSIONS

30 Degree Double Hung Bay – Width Dimensions								
Unit #	MO Width		RO Width		OM of Jamb to OM of Jamb		Projection	
	ft–in	mm	ft–in	mm	ft–in	mm	ft–in	mm
38 Wide Units								
38–22–38	7–8 11/16	(2354)	7–8 1/8	(2340)	7–3 3/16	(2214)	1–7 3/8	(492)
38–26–38	8–0 11/16	(2456)	8–0 1/8	(2442)	7–7 3/16	(2316)	1–7 3/8	(492)
38–30–38	8–4 11/16	(2558)	8–4 1/8	(2543)	7–11 3/16	(2417)	1–7 3/8	(492)
38–32–38	8–6 11/16	(2608)	8–6 1/8	(2594)	8–1 3/16	(2468)	1–7 3/8	(492)
38–34–38	8–8 11/16	(2659)	8–8 1/8	(2645)	8–3 3/16	(2519)	1–7 3/8	(492)
38–36–38	8–10 11/16	(2710)	8–10 1/8	(2696)	8–5 3/16	(2570)	1–7 3/8	(492)
38–38–38	9–0 11/16	(2761)	9–0 1/8	(2747)	8–7 3/16	(2621)	1–7 3/8	(492)
38–42–38	9–4 11/16	(2862)	9–4 1/8	(2848)	8–11 3/16	(2722)	1–7 3/8	(492)
42 Wide Units								
42–22–42	8–3 5/8	(2530)	8–3 1/16	(2516)	7–10 1/8	(2390)	1–9 3/8	(543)
42–26–42	8–7 5/8	(2632)	8–7 1/16	(2618)	8–2 1/8	(2492)	1–9 3/8	(543)
42–30–42	8–11 5/8	(2734)	8–11 1/16	(2719)	8–6 1/8	(2593)	1–9 3/8	(543)
42–32–42	9–1 5/8	(2784)	9–1 1/16	(2770)	8–8 1/8	(2644)	1–9 3/8	(543)
42–34–42	9–3 5/8	(2835)	9–3 1/16	(2821)	8–10 1/8	(2695)	1–9 3/8	(543)
42–36–42	9–5 5/8	(2886)	9–5 1/16	(2872)	9–0 1/8	(2746)	1–9 3/8	(543)
42–38–42	9–7 5/8	(2937)	9–7 1/16	(2923)	9–2 1/8	(2797)	1–9 3/8	(543)

NOTE: White interior finish on head and seat board is available at no additional charge for factory mulled bay assemblies only.

WOOD–ULTREX DOUBLE HUNG BAY

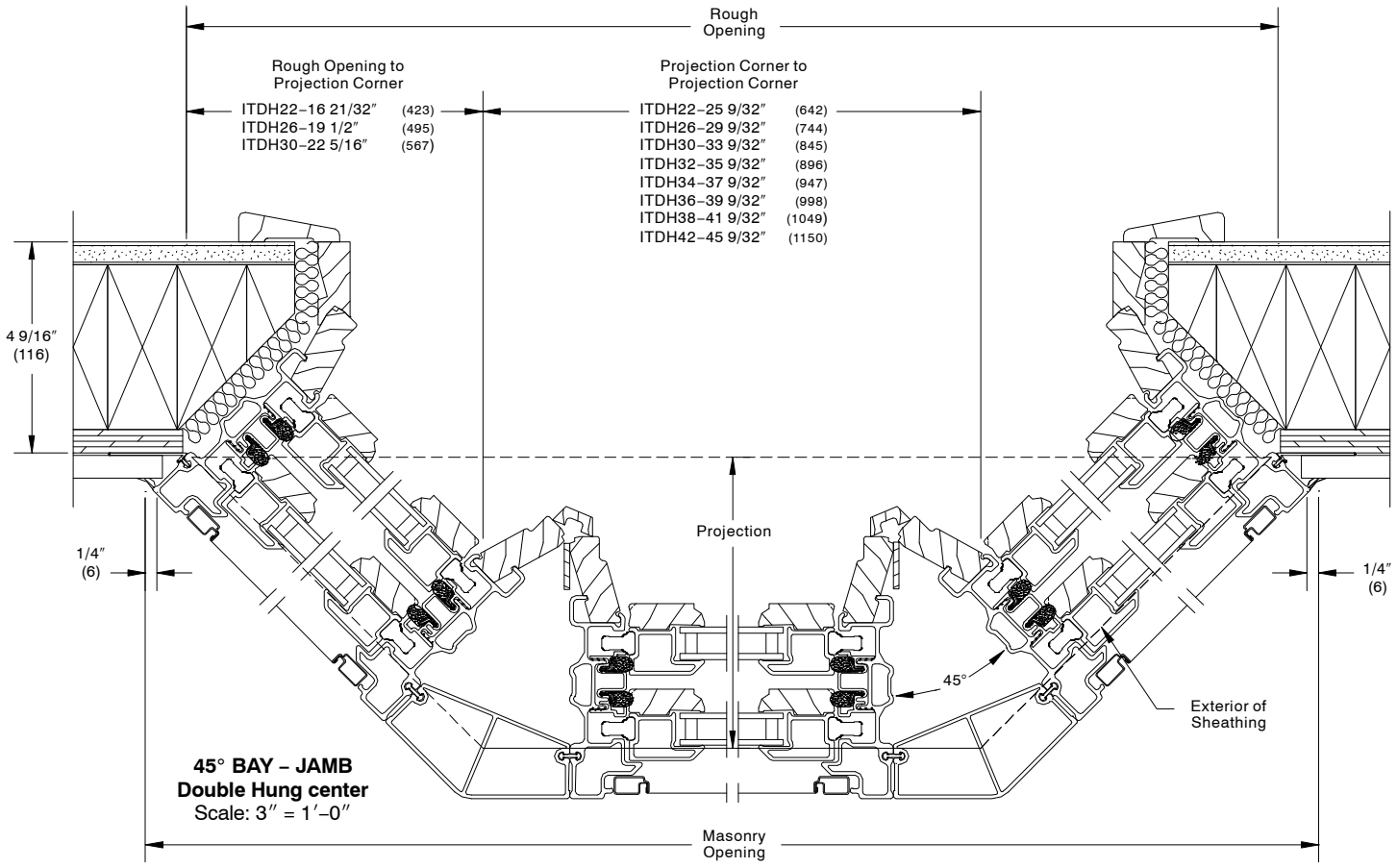
45° BAY UNITS Scale 3″ = 1′ 0″



Structural support members supplied by others.

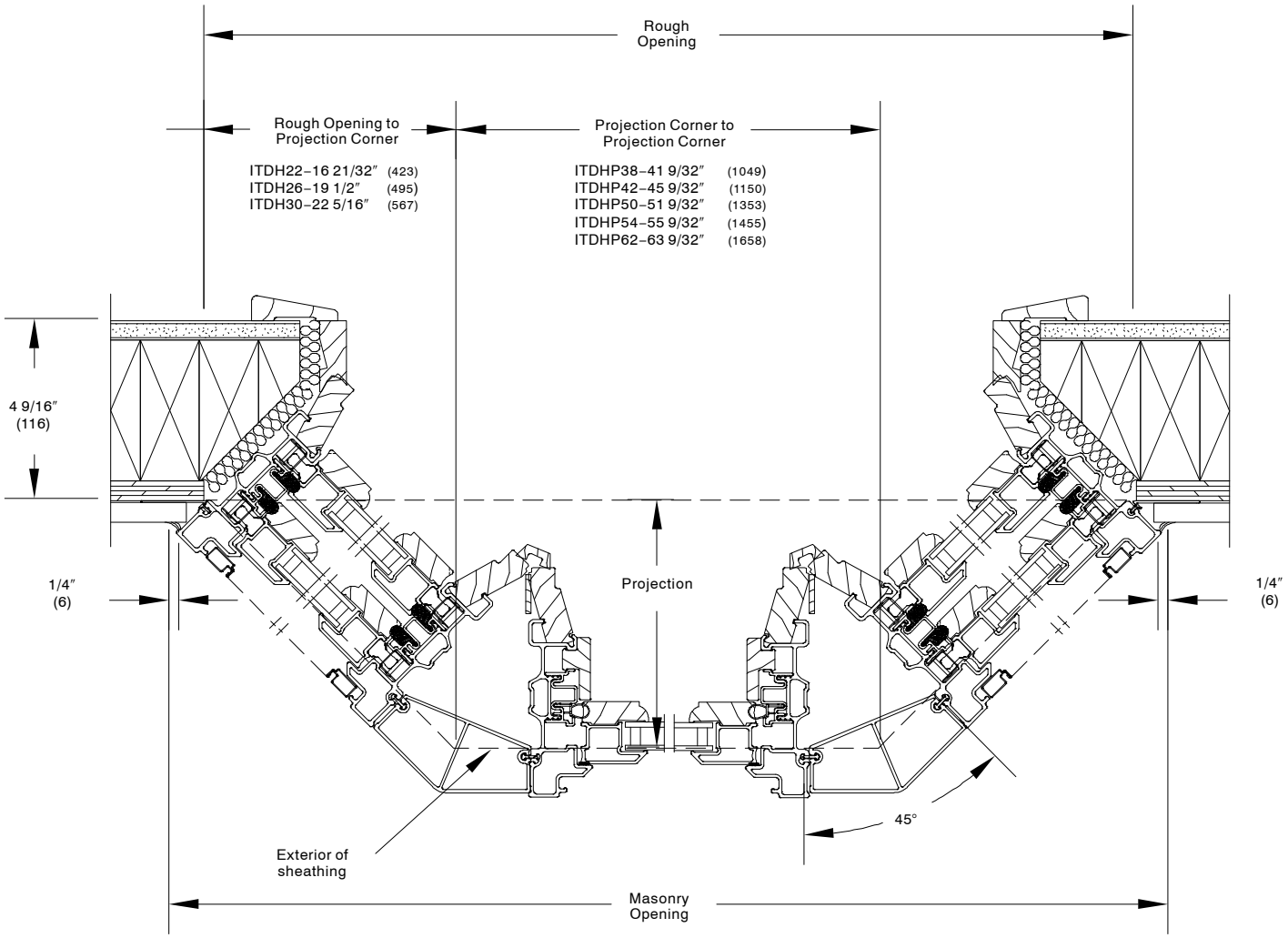
Double Hung Bay / Bow Height Dimensions					
CN		MO Height		RO Height	
Operable	Picture	ft–in	mm	ft–in	mm
24	N/A	2–1 7/16	(646)	2–1 11/16	(652)
36	N/A	3–1 7/16	(951)	3–1 11/16	(957)
40	40	3–5 7/16	(1053)	3–5 11/16	(1059)
44	44	3–7 7/16	(1103)	3–7 11/16	(1110)
48	48	4–1 7/16	(1256)	4–1 11/16	(1262)
52	52	4–5 7/16	(1357)	4–5 11/16	(1364)
56	56	4–9 7/16	(1459)	4–9 11/16	(1465)
60	60	5–1 7/16	(1561)	5–1 11/16	(1567)
64	64	5–5 7/16	(1662)	5–5 11/16	(1668)
68	68	5–9 7/16	(1764)	5–9 11/16	(1770)
72	N/A	6–1 7/16	(1865)	6–1 11/16	(1872)
76	N/A	6–5 7/16	(1967)	6–5 11/16	(1973)

NOTE: Impact glazed units are not available in Bay configurations.
NOTE: CE units are not available in Bay configurations.



WOOD–ULTREX DOUBLE HUNG BAY

45° BAY UNITS Scale 3″ = 1′ 0″



NOTE: Factory assembled bay units include head and seat boards.

NOTE: Structural support members and interior trim supplied by others.

NOTE: Impact glazed units are not available in Bay configurations.

NOTE: CE units are not available in Bay configurations.

WOOD–ULTREX DOUBLE HUNG BAY

45° BAY UNITS – WIDTH DIMENSIONS

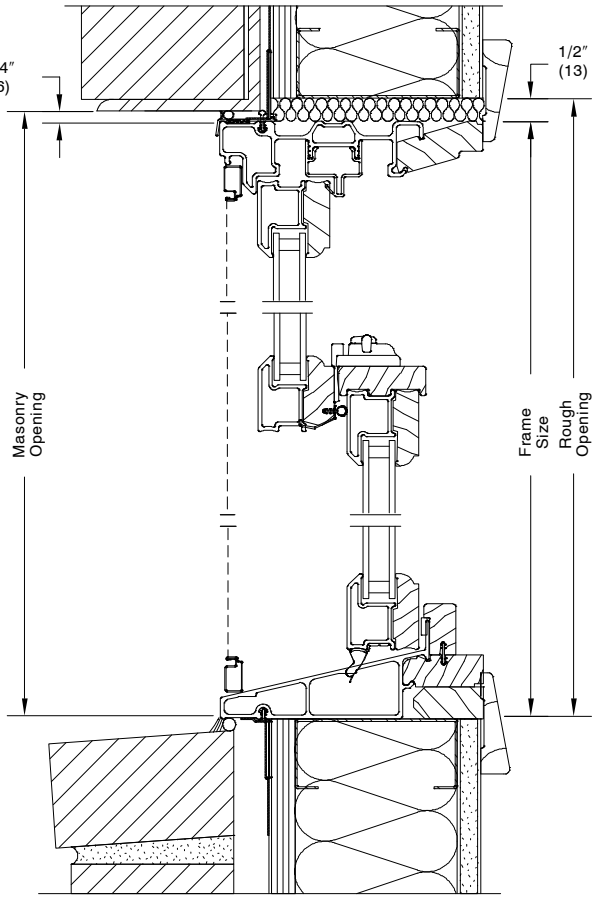
45 Degree Double Hung Bay – Width Dimensions								
Unit #	MO Width		RO Width		OM of Jamb to OM of Jamb		Projection	
	ft–in	mm	ft–in	mm	ft–in	mm	ft–in	mm
22 Wide Units								
22–22–22	5–0 7/16	(1536)	4–11 7/16	(1510)	4–4 13/16	(1342)	1–4 9/16	(421)
22–26–22	5–4 7/16	(1637)	5–3 7/16	(1612)	4–8 13/16	(1443)	1–4 9/16	(421)
22–30–22	5–8 7/16	(1739)	5–7 7/16	(1713)	5–0 13/16	(1545)	1–4 9/16	(421)
22–32–22	5–10 7/16	(1790)	5–9 7/16	(1764)	5–2 13/16	(1596)	1–4 9/16	(421)
22–34–22	6–0 7/16	(1841)	5–11 7/16	(1815)	5–4 13/16	(1646)	1–4 9/16	(421)
22–36–22	6–2 7/16	(1891)	6–1 7/16	(1866)	5–6 13/16	(1697)	1–4 9/16	(421)
22–38–22	6–4 7/16	(1942)	6–3 7/16	(1917)	5–8 13/16	(1748)	1–4 9/16	(421)
22–42–22	6–8 7/16	(2044)	6–7 7/16	(2018)	6–0 13/16	(1850)	1–4 9/16	(421)
22–50–22	7–4 7/16	(2247)	7–3 7/16	(2221)	6–8 13/16	(2053)	1–4 9/16	(421)
22–54–22	7–8 7/16	(2349)	7–7 7/16	(2323)	7–0 13/16	(2154)	1–4 9/16	(421)
22–62–22	8–4 7/16	(2552)	8–3 7/16	(2526)	7–8 13/16	(2358)	1–4 9/16	(421)
26 Wide Units								
26–22–26	5–6 1/8	(1679)	5–5 1/8	(1654)	4–10 1/2	(1485)	1–7 3/8	(492)
26–26–26	5–10 1/8	(1781)	5–9 1/8	(1755)	5–2 1/2	(1587)	1–7 3/8	(492)
26–30–26	6–2 1/8	(1883)	6–1 1/8	(1857)	5–6 1/2	(1688)	1–7 3/8	(492)
26–32–26	6–4 1/8	(1933)	6–3 1/8	(1908)	5–8 1/2	(1739)	1–7 3/8	(492)
26–34–26	6–6 1/8	(1984)	6–5 1/8	(1959)	5–10 1/2	(1790)	1–7 3/8	(492)
26–36–26	6–8 1/8	(2035)	6–7 1/8	(2009)	6–0 1/2	(1841)	1–7 3/8	(492)
26–38–26	6–10 1/8	(2086)	6–9 1/8	(2060)	6–2 1/2	(1892)	1–7 3/8	(492)
26–42–26	7–2 1/8	(2187)	7–1 1/8	(2162)	6–6 1/2	(1993)	1–7 3/8	(492)
26–50–26	7–10 1/8	(2391)	7–9 1/8	(2365)	7–2 1/2	(2196)	1–7 3/8	(492)
26–54–26	8–2 1/8	(2492)	8–1 1/8	(2467)	7–6 1/2	(2298)	1–7 3/8	(492)
26–62–26	8–10 1/8	(2695)	8–9 1/8	(2670)	8–2 1/2	(2501)	1–7 3/8	(492)
30 Wide Units								
30–22–30	5–11 3/4	(1823)	5–10 3/4	(1797)	5–4 1/8	(1629)	1–10 3/16	(564)
30–26–30	6–3 3/4	(1925)	6–2 3/4	(1899)	5–8 1/8	(1731)	1–10 3/16	(564)
30–30–30	6–7 3/4	(2026)	6–6 3/4	(2001)	6–0 1/8	(1832)	1–10 3/16	(564)
30–32–30	6–11 3/4	(2128)	6–10 3/4	(2102)	6–4 1/8	(1934)	1–10 3/16	(564)
30–34–30	7–3 3/4	(2230)	7–2 3/4	(2204)	6–8 1/8	(2035)	1–10 3/16	(564)
30–36–30	7–7 3/4	(2331)	7–6 3/4	(2305)	7–0 1/8	(2137)	1–10 3/16	(564)
30–38–30	7–11 3/4	(2433)	7–10 3/4	(2407)	7–4 1/8	(2239)	1–10 3/16	(564)
30–42–30	8–3 3/4	(2534)	8–2 3/4	(2509)	7–8 1/8	(2340)	1–10 3/16	(564)
30–50–30	8–7 3/4	(2636)	8–6 3/4	(2610)	8–0 1/8	(2442)	1–10 3/16	(564)
30–54–30	8–11 3/4	(2738)	8–10 3/4	(2712)	8–4 1/8	(2543)	1–10 3/16	(564)
30–62–30	9–3 3/4	(2839)	9–2 3/4	(2813)	8–8 1/8	(2645)	1–10 3/16	(564)

NOTE: White interior finish on head and seat board is available at no additional charge for factory mulled bay assemblies only.

WOOD–ULTREX DOUBLE HUNG

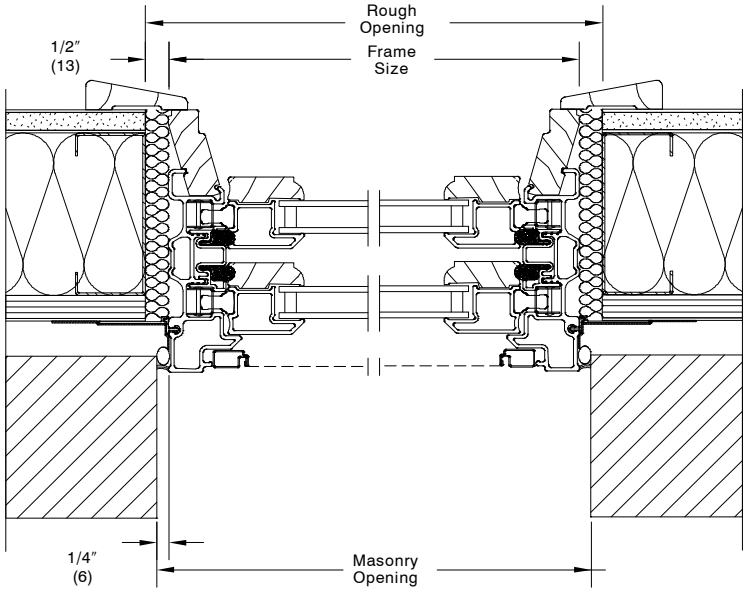
INSTALLATION SUGGESTION Scale 3″ = 1′ 0″

HEAD
JAMB



SILL

JAMB



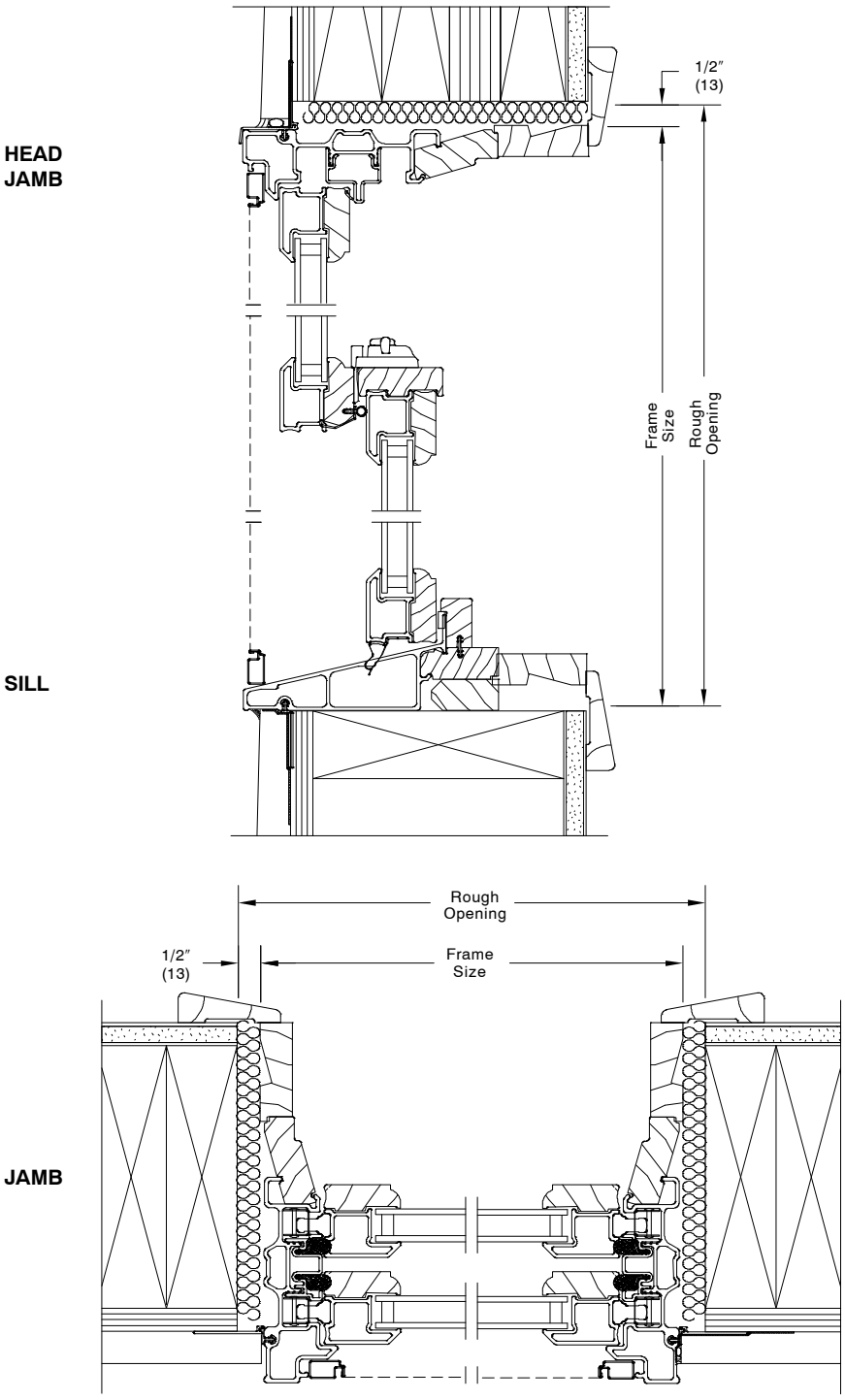
BRICK VENEER WITH STEEL FRAME CONSTRUCTION

NOTE: 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.

NOTE: Picture unit Installation similar.

WOOD–ULTREX DOUBLE HUNG

INSTALLATION SUGGESTION Scale 3″ = 1′ 0″



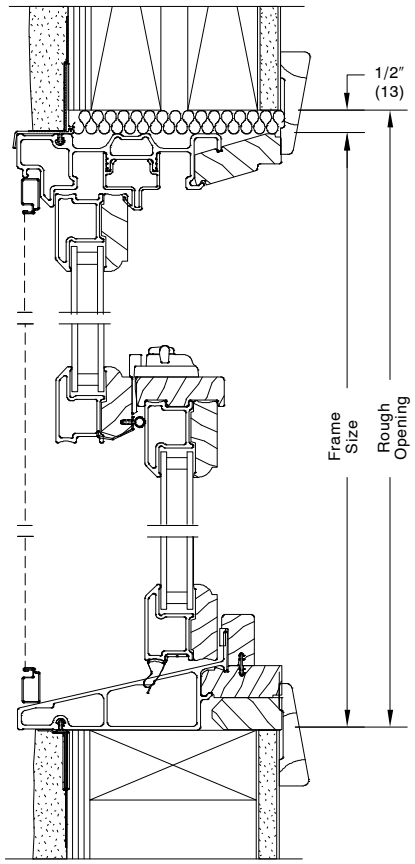
WOOD SIDING WITH 2X6 FRAME CONSTRUCTION

NOTE: 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.
NOTE: Double Hung Unit shown with jamb extension.
NOTE: Picture unit Installation similar.

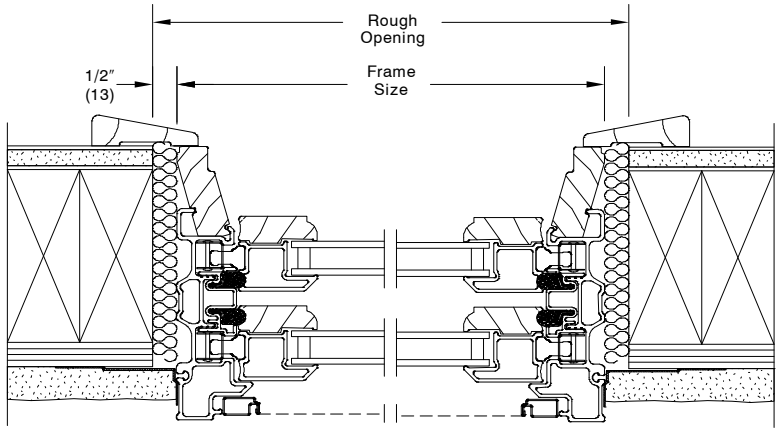
WOOD–ULTREX DOUBLE HUNG

INSTALLATION SUGGESTIONS Scale 3″ = 1′ 0″

HEAD
JAMB



SILL



JAMB

STUCCO WITH 2X4 FRAME CONSTRUCTION

NOTE: 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.

NOTE: Picture unit Installation similar.