Ultimate Wood Double Hung

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Unit Features

Ultimate Double Hung: UWDH

Ultimate Double Hung Transom: UWDH TR

Ultimate Double Hung Picture: UWDH P

Operating Hardware:

- Sash lock and keeper: Open style crescent cam lock with sash release lever, surface mounted. Color: Satin Taupe.
  - Optional Colors: White, Brass, Satin chrome, Antique Brass, Bronze, Oil Rubbed Bronze, Satin Nickel.
- Balance System: Block and tackle balance system.
- Optional Sash lift: same colors as offered in locks.
- Optional window opening control device field applied.

Glass and Glazing:

- Glazing seal: Silicone glazed
- Standard glass is Insulating Low E2 Argon or air
- Dual-pane insulating glass thickness: 11/16"
- Triple-pane insulating glass thickness: 7/8"
- Insulating Glass Coatings:
  - Low E1
  - Low E2
  - Low E3
  - Low ERS
  - Low ELR
- Gas Fill: Air or Argon
- Available glass types:
  - Laminated
  - Tempered
  - Obscure
  - Clear
- Tints
  - Bronze
  - Gray
  - Green
  - Reflective Bronze
- Decorative glass options:
  - Frost
  - Reed
  - Narrow Reed
  - Rain
  - Sandblasted
  - Glue Chip
- Glazing will be altitude adjusted for higher elevations with capillary tubes. Argon gas not included
- IZ3 has annealed exterior pane is default with the option to temper
- Egress may be affected when selecting specialty glass, please contact your Marvin representative
- For additional specialty glazing options, please contact your Marvin representatives.

Egress and Vent Openings: Standard Sill

CN	Opening Width		Opening Height Std. Sill Liner		Egress Opening	
	ft - in	mm	ft - in	mm	ft^2	m^2
1612	1-5 55/64	(454)	0-10 9/64	(257)	1.26	(0.12)
1614	1-5 55/64	(454)	1-0 9/64	(308)	1.51	(0.14)
1616	1-5 55/64	(454)	1-2 9/64	(359)	1.75	(0.16)
1618	1-5 55/64	(454)	1-4 9/64	(410)	2.00	(0.19)
1620	1-5 55/64	(454)	1-6 9/64	(461)	2.25	(0.21)
1622	1-5 55/64	(454)	1-8 9/64	(511)	2.50	(0.23)
1624	1-5 55/64	(454)	1-10 9/64	(562)	2.75	(0.26)
1626	1-5 55/64	(454)	2-0 9/64	(613)	2.99	(0.28)
1628	1-5 55/64	(454)	2-2 9/64	(664)	3.24	(0.30)
1630	1-5 55/64	(454)	2-4 9/64	(715)	3.49	(0.32)
1632	1-5 55/64	(454)	2-6 9/64	(765)	3.74	(0.35)
1634	1-5 55/64	(454)	2-8 9/64	(816)	3.99	(0.37)
1636	1-5 55/64	(454)	2-10 9/64	(867)	4.24	(0.39)
1640	1-5 55/64	(454)	3-2 9/64	(969)	4.73	(0.44)
1642	1-5 55/64	(454)	3-4 9/64	(1019)	4.98	(0.46)
2012	1-9 55/64	(555)	0-10 9/64	(257)	1.54	(0.14)
2014	1-9 55/64	(555)	1-0 9/64	(308)	1.84	(0.17)
2016	1-9 55/64	(555)	1-2 9/64	(359)	2.15	(0.20)
2018	1-9 55/64	(555)	1-4 9/64	(410)	2.45	(0.23)
2020	1-9 55/64	(555)	1-6 9/64	(461)	2.75	(0.26)
2022	1-9 55/64	(555)	1-8 9/64	(511)	3.06	(0.28)
2024	1-9 55/64	(555)	1-10 9/64	(562)	3.36	(0.31)
2026	1-9 55/64	(555)	2-0 9/64	(613)	3.67	(0.34)
2028	1-9 55/64	(555)	2-2 9/64	(664)	3.97	(0.37)
2030	1-9 55/64	(555)	2-4 9/64	(715)	4.27	(0.40)
2032	1-9 55/64	(555)	2-6 9/64	(765)	4.58	(0.43)
2034	1-9 55/64	(555)	2-8 9/64	(816)	4.88	(0.45)
2036	1-9 55/64	(555)	2-10 9/64	(867)	5.18	(0.48)
2040 E	1-9 55/64	(555)	3-2 9/64	(969)	5.79	(0.54)
2042 E	1-9 55/64	(555)	3-4 9/64	(1019)	6.09	(0.57)
2412	2-1 55/64	(657)	0-10 9/64	(257)	1.82	(0.17)
2414	2-1 55/64	(657)	1-0 9/64	(308)	2.18	(0.20)
2416	2-1 55/64	(657)	1-2 9/64	(359)	2.54	(0.24)
2418	2-1 55/64	(657)	1-4 9/64	(410)	2.90	(0.27)
2420	2-1 55/64	(657)	1-6 9/64	(461)	3.26	(0.30)
2422	2-1 55/64	(657)	1-8 9/64	(511)	3.62	(0.34)
2424	2-1 55/64	(657)	1-10 9/64	(562)	3.98	(0.37)
2426	2-1 55/64	(657)	2-0 9/64	(613)	4.34	(0.40)
2428	2-1 55/64	(657)	2-2 9/64	(664)	4.69	(0.44)
2430	2-1 55/64	(657)	2-4 9/64	(715)	5.05	(0.47)
2432	2-1 55/64	(657)	2-6 9/64	(765)	5.41	(0.50)
2434 E	2-1 55/64	(657)	2-8 9/64	(816)	5.77	(0.54)
2436 E	2-1 55/64	(657)	2-10 9/64	(867)	6.13	(0.57)
2440 E	2-1 55/64	(657)	3-2 9/64	(969)	6.85	(0.64)
2442 E	2-1 55/64	(657)	3-4 9/64	(1019)	7.21	(0.67)

CN	Opening Width		Opening Height Std. Sill Liner		Egress Opening	
	ft - in	mm	ft - in	mm	ft^2	m^2
2612	2-3 55/64	(708)	0-10 9/64	(257)	1.96	(0.18)
2614	2-3 55/64	(708)	1-0 9/64	(308)	2.35	(0.22)
2616	2-3 55/64	(708)	1-2 9/64	(359)	2.74	(0.25)
2618	2-3 55/64	(708)	1-4 9/64	(410)	3.12	(0.29)
2620	2-3 55/64	(708)	1-6 9/64	(461)	3.51	(0.33)
2622	2-3 55/64	(708)	1-8 9/64	(511)	3.90	(0.36)
2624	2-3 55/64	(708)	1-10 9/64	(562)	4.28	(0.40)
2626	2-3 55/64	(708)	2-0 9/64	(613)	4.67	(0.43)
2628	2-3 55/64	(708)	2-2 9/64	(664)	5.06	(0.47)
2630	2-3 55/64	(708)	2-4 9/64	(715)	5.44	(0.51)
2632 E	2-3 55/64	(708)	2-6 9/64	(765)	5.83	(0.54)
2634 E	2-3 55/64	(708)	2-8 9/64	(816)	6.22	(0.58)
2636 E	2-3 55/64	(708)	2-10 9/64	(867)	6.61	(0.61)
2640 E	2-3 55/64	(708)	3-2 9/64	(969)	7.38	(0.69)
2642 E	2-3 55/64	(708)	3-4 9/64	(1019)	7.77	(0.72)
2812	2-5 55/64	(759)	0-10 9/64	(257)	2.10	(0.20)
2814	2-5 55/64	(759)	1-0 9/64	(308)	2.52	(0.23)
2816	2-5 55/64	(759)	1-2 9/64	(359)	2.93	(0.27)
2818	2-5 55/64	(759)	1-4 9/64	(410)	3.35	(0.31)
2820	2-5 55/64	(759)	1-6 9/64	(461)	3.76	(0.35)
2822	2-5 55/64	(759)	1-8 9/64	(511)	4.18	(0.39)
2824	2-5 55/64	(759)	1-10 9/64	(562)	4.59	(0.43)
2826	2-5 55/64	(759)	2-0 9/64	(613)	5.01	(0.47)
2828	2-5 55/64	(759)	2-2 9/64	(664)	5.42	(0.50)
2830 E	2-5 55/64	(759)	2-4 9/64	(715)	5.84	(0.54)
2832 E	2-5 55/64	(759)	2-6 9/64	(765)	6.25	(0.58)
2834 E	2-5 55/64	(759)	2-8 9/64	(816)	6.67	(0.62)
2836 E	2-5 55/64	(759)	2-10 9/64	(867)	7.08	(0.66)
2840 E	2-5 55/64	(759)	3-2 9/64	(969)	7.91	(0.73)
2842 E	2-5 55/64	(759)	3-4 9/64	(1019)	8.32	(0.77)
3012	2-7 55/64	(809)	0-10 9/64	(257)	2.24	(0.21)
3014	2-7 55/64	(809)	1-0 9/64	(308)	2.69	(0.25)
3016	2-7 55/64	(809)	1-2 9/64	(359)	3.13	(0.29)
3018	2-7 55/64	(809)	1-4 9/64	(410)	3.57	(0.33)
3020	2-7 55/64	(809)	1-6 9/64	(461)	4.01	(0.37)
3022	2-7 55/64	(809)	1-8 9/64	(511)	4.46	(0.41)
3024	2-7 55/64	(809)	1-10 9/64	(562)	4.90	(0.46)
3026	2-7 55/64	(809)	2-0 9/64	(613)	5.34	(0.50)
3028 E	2-7 55/64	(809)	2-2 9/64	(664)	5.78	(0.54)
3030 E	2-7 55/64	(809)	2-4 9/64	(715)	6.23	(0.58)
3032 E	2-7 55/64	(809)	2-6 9/64	(765)	6.67	(0.62)
3034 E	2-7 55/64	(809)	2-8 9/64	(816)	7.11	(0.66)
3036 E	2-7 55/64	(809)	2-10 9/64	(867)	7.55	(0.70)
3040 E	2-7 55/64	(809)	3-2 9/64	(969)	8.44	(0.78)
3042 E	2-7 55/64	(809)	3-4 9/64	(1019)	8.88	(0.83)

NOTE: Refer to Product Performance Chapter for International Building Code. Net Clear Opening drawings are pictured with the conversion tables.

Egress and Vent Openings: Standard Sill Liner

CN	Opening Width		Opening Height Std. Sill Liner		Egress Opening	
	ft - in	mm	ft - in	mm	ft^2	m^2
3212	2-9 55/64	(860)	0-10 9/64	(257)	2.38	(0.22)
3214	2-9 55/64	(860)	1-0 9/64	(308)	2.85	(0.27)
3216	2-9 55/64	(860)	1-2 9/64	(359)	3.32	(0.31)
3218	2-9 55/64	(860)	1-4 9/64	(410)	3.79	(0.35)
3220	2-9 55/64	(860)	1-6 9/64	(461)	4.27	(0.40)
3222	2-9 55/64	(860)	1-8 9/64	(511)	4.74	(0.44)
3224	2-9 55/64	(860)	1-10 9/64	(562)	5.21	(0.48)
3226	2-9 55/64	(860)	2-0 9/64	(613)	5.68	(0.53)
3228 E	2-9 55/64	(860)	2-2 9/64	(664)	6.15	(0.57)
3230 E	2-9 55/64	(860)	2-4 9/64	(715)	6.62	(0.61)
3232 E	2-9 55/64	(860)	2-6 9/64	(765)	7.09	(0.66)
3234 E	2-9 55/64	(860)	2-8 9/64	(816)	7.56	(0.70)
3236 E	2-9 55/64	(860)	2-10 9/64	(867)	8.03	(0.75)
3240 E	2-9 55/64	(860)	3-2 9/64	(969)	8.97	(0.83)
3242 E	2-9 55/64	(860)	3-4 9/64	(1019)	9.44	(0.88)
3612	3-1 55/64	(962)	0-10 9/64	(257)	2.67	(0.25)
3614	3-1 55/64	(962)	1-0 9/64	(308)	3.19	(0.30)
3616	3-1 55/64	(962)	1-2 9/64	(359)	3.72	(0.35)
3618	3-1 55/64	(962)	1-4 9/64	(410)	4.24	(0.39)
3620	3-1 55/64	(962)	1-6 9/64	(461)	4.77	(0.44)
3622	3-1 55/64	(962)	1-8 9/64	(511)	5.30	(0.49)
3624	3-1 55/64	(962)	1-10 9/64	(562)	5.82	(0.54)
3626 E	3-1 55/64	(962)	2-0 9/64	(613)	6.35	(0.59)
3628 E	3-1 55/64	(962)	2-2 9/64	(664)	6.87	(0.64)
3630 E	3-1 55/64	(962)	2-4 9/64	(715)	7.40	(0.69)
3632 E	3-1 55/64	(962)	2-6 9/64	(765)	7.92	(0.74)
3634 E	3-1 55/64	(962)	2-8 9/64	(816)	8.45	(0.79)
3636 E	3-1 55/64	(962)	2-10 9/64	(867)	8.98	(0.83)
3640 E	3-1 55/64	(962)	3-2 9/64	(969)	10.03	(0.93)
3642 E	3-1 55/64	(962)	3-4 9/64	(1019)	10.55	(0.98)
4012	3-5 55/64	(1063)	0-10 9/64	(257)	2.95	(0.27)
4014	3-5 55/64	(1063)	1-0 9/64	(308)	3.53	(0.33)
4016	3-5 55/64	(1063)	1-2 9/64	(359)	4.11	(0.38)
4018	3-5 55/64	(1063)	1-4 9/64	(410)	4.69	(0.44)
4020	3-5 55/64	(1063)	1-6 9/64	(461)	5.27	(0.49)
4022	3-5 55/64	(1063)	1-8 9/64	(511)	5.85	(0.54)
4024	3-5 55/64	(1063)	1-10 9/64	(562)	6.44	(0.60)
4026 E	3-5 55/64	(1063)	2-0 9/64	(613)	7.02	(0.65)
4028 E	3-5 55/64	(1063)	2-2 9/64	(664)	7.60	(0.71)
4030 E	3-5 55/64	(1063)	2-4 9/64	(715)	8.18	(0.76)
4032 E	3-5 55/64	(1063)	2-6 9/64	(765)	8.76	(0.81)
4034 E	3-5 55/64	(1063)	2-8 9/64	(816)	9.34	(0.87)
4036 E	3-5 55/64	(1063)	2-10 9/64	(867)	9.92	(0.92)

NOTE: Refer to Product Performance Chapter for International Building Code. Net Clear Opening drawings are pictured with the conversion tables.

Egress and Vent Openings: High Performance Sill Liner

CN	Opening Width		Opening Height HP Sill Liner		Egress Opening	
	ft - in	mm	ft - in	mm	ft^2	m^2
1612	1-5 55/64	(454)	0-9 17/64	(235)	1.15	(0.11)
1614	1-5 55/64	(454)	0-11 17/64	(286)	1.40	(0.13)
1616	1-5 55/64	(454)	1-1 17/64	(337)	1.65	(0.15)
1618	1-5 55/64	(454)	1-3 17/64	(388)	1.89	(0.18)
1620	1-5 55/64	(454)	1-5 17/64	(438)	2.14	(0.20)
1622	1-5 55/64	(454)	1-7 17/64	(489)	2.39	(0.22)
1624	1-5 55/64	(454)	1-9 17/64	(540)	2.64	(0.25)
1626	1-5 55/64	(454)	1-11 17/64	(591)	2.89	(0.27)
1628	1-5 55/64	(454)	2-1 17/64	(642)	3.13	(0.29)
1630	1-5 55/64	(454)	2-3 17/64	(692)	3.38	(0.31)
1632	1-5 55/64	(454)	2-5 17/64	(743)	3.63	(0.34)
1634	1-5 55/64	(454)	2-7 17/64	(794)	3.88	(0.36)
1636	1-5 55/64	(454)	2-9 17/64	(845)	4.13	(0.38)
1640	1-5 55/64	(454)	3-1 17/64	(946)	4.62	(0.43)
1642	1-5 55/64	(454)	3-3 17/64	(997)	4.87	(0.45)
2012	1-9 55/64	(555)	0-9 17/64	(235)	1.41	(0.13)
2014	1-9 55/64	(555)	0-11 17/64	(286)	1.71	(0.16)
2016	1-9 55/64	(555)	1-1 17/64	(337)	2.01	(0.19)
2018	1-9 55/64	(555)	1-3 17/64	(388)	2.32	(0.22)
2020	1-9 55/64	(555)	1-5 17/64	(438)	2.62	(0.24)
2022	1-9 55/64	(555)	1-7 17/64	(489)	2.92	(0.27)
2024	1-9 55/64	(555)	1-9 17/64	(540)	3.23	(0.30)
2026	1-9 55/64	(555)	1-11 17/64	(591)	3.53	(0.33)
2028	1-9 55/64	(555)	2-1 17/64	(642)	3.84	(0.36)
2030	1-9 55/64	(555)	2-3 17/64	(692)	4.14	(0.38)
2032	1-9 55/64	(555)	2-5 17/64	(743)	4.44	(0.41)
2034	1-9 55/64	(555)	2-7 17/64	(794)	4.75	(0.44)
2036	1-9 55/64	(555)	2-9 17/64	(845)	5.05	(0.47)
2040	1-9 55/64	(555)	3-1 17/64	(946)	5.66	(0.53)
2042 E	1-9 55/64	(555)	3-3 17/64	(997)	5.96	(0.55)
2412	2-1 55/64	(657)	0-9 17/64	(235)	1.66	(0.15)
2414	2-1 55/64	(657)	0-11 17/64	(286)	2.02	(0.19)
2416	2-1 55/64	(657)	1-1 17/64	(337)	2.38	(0.22)
2418	2-1 55/64	(657)	1-3 17/64	(388)	2.74	(0.25)
2420	2-1 55/64	(657)	1-5 17/64	(438)	3.10	(0.29)
2422	2-1 55/64	(657)	1-7 17/64	(489)	3.46	(0.32)
2424	2-1 55/64	(657)	1-9 17/64	(540)	3.82	(0.35)
2426	2-1 55/64	(657)	1-11 17/64	(591)	4.18	(0.39)
2428	2-1 55/64	(657)	2-1 17/64	(642)	4.54	(0.42)
2430	2-1 55/64	(657)	2-3 17/64	(692)	4.90	(0.45)
2432	2-1 55/64	(657)	2-5 17/64	(743)	5.26	(0.49)
2434	2-1 55/64	(657)	2-7 17/64	(794)	5.62	(0.52)
2436 E	2-1 55/64	(657)	2-9 17/64	(845)	5.97	(0.56)
2440 E	2-1 55/64	(657)	3-1 17/64	(946)	6.69	(0.62)
2442 E	2-1 55/64	(657)	3-3 17/64	(997)	7.05	(0.66)

CN	Opening Width		Opening Height HP Sill Liner		Egress Opening	
	ft - in	mm	ft - in	mm	ft^2	m^2
2612	2-3 55/64	(708)	0-9 17/64	(235)	1.79	(0.17)
2614	2-3 55/64	(708)	0-11 17/64	(286)	2.18	(0.20)
2616	2-3 55/64	(708)	1-1 17/64	(337)	2.57	(0.24)
2618	2-3 55/64	(708)	1-3 17/64	(388)	2.95	(0.27)
2620	2-3 55/64	(708)	1-5 17/64	(438)	3.34	(0.31)
2622	2-3 55/64	(708)	1-7 17/64	(489)	3.73	(0.35)
2624	2-3 55/64	(708)	1-9 17/64	(540)	4.11	(0.38)
2626	2-3 55/64	(708)	1-11 17/64	(591)	4.50	(0.42)
2628	2-3 55/64	(708)	2-1 17/64	(642)	4.89	(0.45)
2630	2-3 55/64	(708)	2-3 17/64	(692)	5.28	(0.49)
2632	2-3 55/64	(708)	2-5 17/64	(743)	5.66	(0.53)
2634 E	2-3 55/64	(708)	2-7 17/64	(794)	6.05	(0.56)
2636 E	2-3 55/64	(708)	2-9 17/64	(845)	6.44	(0.60)
2640 E	2-3 55/64	(708)	3-1 17/64	(946)	7.21	(0.67)
2642 E	2-3 55/64	(708)	3-3 17/64	(997)	7.60	(0.71)
2812	2-5 55/64	(759)	0-9 17/64	(235)	1.92	(0.18)
2814	2-5 55/64	(759)	0-11 17/64	(286)	2.34	(0.22)
2816	2-5 55/64	(759)	1-1 17/64	(337)	2.75	(0.26)
2818	2-5 55/64	(759)	1-3 17/64	(388)	3.17	(0.29)
2820	2-5 55/64	(759)	1-5 17/64	(438)	3.58	(0.33)
2822	2-5 55/64	(759)	1-7 17/64	(489)	3.99	(0.37)
2824	2-5 55/64	(759)	1-9 17/64	(540)	4.41	(0.41)
2826	2-5 55/64	(759)	1-11 17/64	(591)	4.82	(0.45)
2828	2-5 55/64	(759)	2-1 17/64	(642)	5.24	(0.49)
2830	2-5 55/64	(759)	2-3 17/64	(692)	5.65	(0.53)
2832 E	2-5 55/64	(759)	2-5 17/64	(743)	6.07	(0.56)
2834 E	2-5 55/64	(759)	2-7 17/64	(794)	6.48	(0.60)
2836 E	2-5 55/64	(759)	2-9 17/64	(845)	6.90	(0.64)
2840 E	2-5 55/64	(759)	3-1 17/64	(946)	7.73	(0.72)
2842 E	2-5 55/64	(759)	3-3 17/64	(997)	8.14	(0.76)
3012	2-7 55/64	(809)	0-9 17/64	(235)	2.05	(0.19)
3014	2-7 55/64	(809)	0-11 17/64	(286)	2.49	(0.23)
3016	2-7 55/64	(809)	1-1 17/64	(337)	2.93	(0.27)
3018	2-7 55/64	(809)	1-3 17/64	(388)	3.38	(0.31)
3020	2-7 55/64	(809)	1-5 17/64	(438)	3.82	(0.35)
3022	2-7 55/64	(809)	1-7 17/64	(489)	4.26	(0.40)
3024	2-7 55/64	(809)	1-9 17/64	(540)	4.70	(0.44)
3026	2-7 55/64	(809)	1-11 17/64	(591)	5.15	(0.48)
3028	2-7 55/64	(809)	2-1 17/64	(642)	5.59	(0.52)
3030 E	2-7 55/64	(809)	2-3 17/64	(692)	6.03	(0.56)
3032 E	2-7 55/64	(809)	2-5 17/64	(743)	6.48	(0.60)
3034 E	2-7 55/64	(809)	2-7 17/64	(794)	6.92	(0.64)
3036 E	2-7 55/64	(809)	2-9 17/64	(845)	7.36	(0.68)
3040 E	2-7 55/64	(809)	3-1 17/64	(946)	8.25	(0.77)
3042 E	2-7 55/64	(809)	3-3 17/64	(997)	8.69	(0.81)

NOTE: Refer to Product Performance Chapter for International Building Code. Net Clear Opening drawings are pictured with the conversion tables.

Egress and Vent Openings: High Performance Sill Liner

CN	Opening Width		Opening Height HP Sill Liner		Egress Opening	
	ft - in	mm	ft - in	mm	ft^2	m^2
3212	2-9 55/64	(860)	0-9 17/64	(235)	2.18	(0.20)
3214	2-9 55/64	(860)	0-11 17/64	(286)	2.65	(0.25)
3216	2-9 55/64	(860)	1-1 17/64	(337)	3.12	(0.29)
3218	2-9 55/64	(860)	1-3 17/64	(388)	3.59	(0.33)
3220	2-9 55/64	(860)	1-5 17/64	(438)	4.06	(0.38)
3222	2-9 55/64	(860)	1-7 17/64	(489)	4.53	(0.42)
3224	2-9 55/64	(860)	1-9 17/64	(540)	5.00	(0.46)
3226	2-9 55/64	(860)	1-11 17/64	(591)	5.47	(0.51)
3228 E	2-9 55/64	(860)	2-1 17/64	(642)	5.94	(0.55)
3230 E	2-9 55/64	(860)	2-3 17/64	(692)	6.41	(0.60)
3232 E	2-9 55/64	(860)	2-5 17/64	(743)	6.88	(0.64)
3234 E	2-9 55/64	(860)	2-7 17/64	(794)	7.35	(0.68)
3236 E	2-9 55/64	(860)	2-9 17/64	(845)	7.82	(0.73)
3240 E	2-9 55/64	(860)	3-1 17/64	(946)	8.76	(0.81)
3242 E	2-9 55/64	(860)	3-3 17/64	(997)	9.23	(0.86)
3612	3-1 55/64	(962)	0-9 17/64	(235)	2.44	(0.23)
3614	3-1 55/64	(962)	0-11 17/64	(286)	2.96	(0.28)
3616	3-1 55/64	(962)	1-1 17/64	(337)	3.49	(0.32)
3618	3-1 55/64	(962)	1-3 17/64	(388)	4.01	(0.37)
3620	3-1 55/64	(962)	1-5 17/64	(438)	4.54	(0.42)
3622	3-1 55/64	(962)	1-7 17/64	(489)	5.06	(0.47)
3624	3-1 55/64	(962)	1-9 17/64	(540)	5.59	(0.52)
3626	3-1 55/64	(962)	1-11 17/64	(591)	6.12	(0.57)
3628 E	3-1 55/64	(962)	2-1 17/64	(642)	6.64	(0.62)
3630 E	3-1 55/64	(962)	2-3 17/64	(692)	7.17	(0.67)
3632 E	3-1 55/64	(962)	2-5 17/64	(743)	7.69	(0.71)
3634 E	3-1 55/64	(962)	2-7 17/64	(794)	8.22	(0.76)
3636 E	3-1 55/64	(962)	2-9 17/64	(845)	8.75	(0.81)
3640 E	3-1 55/64	(962)	3-1 17/64	(946)	9.80	(0.91)
3642 E	3-1 55/64	(962)	3-3 17/64	(997)	10.32	(0.96)
4012	3-5 55/64	(1063)	0-9 17/64	(235)	2.69	(0.25)
4014	3-5 55/64	(1063)	0-11 17/64	(286)	3.27	(0.30)
4016	3-5 55/64	(1063)	1-1 17/64	(337)	3.86	(0.36)
4018	3-5 55/64	(1063)	1-3 17/64	(388)	4.44	(0.41)
4020	3-5 55/64	(1063)	1-5 17/64	(438)	5.02	(0.47)
4022	3-5 55/64	(1063)	1-7 17/64	(489)	5.60	(0.52)
4024	3-5 55/64	(1063)	1-9 17/64	(540)	6.18	(0.57)
4026	3-5 55/64	(1063)	1-11 17/64	(591)	6.76	(0.63)
4028 E	3-5 55/64	(1063)	2-1 17/64	(642)	7.34	(0.68)
4030 E	3-5 55/64	(1063)	2-3 17/64	(692)	7.93	(0.74)
4032 E	3-5 55/64	(1063)	2-5 17/64	(743)	8.51	(0.79)
4034 E	3-5 55/64	(1063)	2-7 17/64	(794)	9.09	(0.84)
4036 E	3-5 55/64	(1063)	2-9 17/64	(845)	9.67	(0.90)

NOTE: Refer to Product Performance Chapter for International Building Code. Net Clear Opening drawings are pictured with the conversion tables.

Daylight Measurements: Double Hung

Ultimate Wood Double Hung Daylight Measurements			Width									
		CN	16		20		24		26		28	
		DLO	1-2 15/16	(379)	1-6 15/16	(481)	1-10 15/16	(583)	2-0 15/16	(633)	2-2 15/16	(684)
CN	DLO Height		Square Feet (Square Meters)									
12	0-10 15/16	(278)	1.13	(0.11)	1.44	(0.13)	1.74	(0.16)	1.89	(0.18)	2.05	(0.19)
14	1-0 15/16	(329)	1.34	(0.12)	1.70	(0.16)	2.06	(0.19)	2.24	(0.21)	2.42	(0.22)
16	1-2 15/16	(379)	1.55	(0.14)	1.96	(0.18)	2.38	(0.22)	2.59	(0.24)	2.79	(0.26)
18	1-4 15/16	(430)	1.76	(0.16)	2.23	(0.21)	2.70	(0.25)	2.93	(0.27)	3.17	(0.29)
20	1-6 15/16	(481)	1.96	(0.18)	2.49	(0.23)	3.02	(0.28)	3.28	(0.30)	3.54	(0.33)
22	1-8 15/16	(532)	2.17	(0.20)	2.75	(0.26)	3.33	(0.31)	3.63	(0.34)	3.92	(0.36)
24	1-10 15/16	(583)	2.38	(0.22)	3.02	(0.28)	3.65	(0.34)	3.97	(0.37)	4.29	(0.40)
26	2-0 15/16	(633)	2.59	(0.24)	3.28	(0.30)	3.97	(0.37)	4.32	(0.40)	4.66	(0.43)
28	2-2 15/16	(684)	2.79	(0.26)	3.54	(0.33)	4.29	(0.40)	4.66	(0.43)	5.04	(0.47)
30	2-4 15/16	(735)	3.00	(0.28)	3.81	(0.35)	4.61	(0.43)	5.01	(0.47)	5.41	(0.50)
32	2-6 15/16	(786)	3.21	(0.30)	4.07	(0.38)	4.93	(0.46)	5.36	(0.50)	5.79	(0.54)
34	2-8 15/16	(837)	3.42	(0.32)	4.33	(0.40)	5.25	(0.49)	5.70	(0.53)	6.16	(0.57)
36	2-10 15/16	(887)	3.62	(0.34)	4.59	(0.43)	5.57	(0.52)	6.05	(0.56)	6.54	(0.61)
40	3-2 15/16	(989)	4.04	(0.38)	5.12	(0.48)	6.20	(0.58)	6.74	(0.63)	7.28	(0.68)
42	3-4 15/16	(1040)	4.25	(0.39)	5.38	(0.50)	6.52	(0.61)	7.09	(0.66)	7.66	(0.71)

Ultimate Wood Double Hung Daylight Measurements			Width							
		CN	30		32		36		40	
		DLO	2-4 15/16	(735)	2-6 15/16	(786)	2-10 15/16	(887)	3-2 15/16	(989)
CN	DLO Height		Square Feet (Square Meters)							
12	0-10 15/16	(278)	2.20	(0.20)	2.35	(0.22)	2.65	(0.25)	2.96	(0.27)
14	1-0 15/16	(329)	2.60	(0.24)	2.78	(0.26)	3.14	(0.29)	3.50	(0.32)
16	1-2 15/16	(379)	3.00	(0.28)	3.21	(0.30)	3.62	(0.34)	4.04	(0.38)
18	1-4 15/16	(430)	3.40	(0.32)	3.64	(0.34)	4.11	(0.38)	4.58	(0.43)
20	1-6 15/16	(481)	3.81	(0.35)	4.07	(0.38)	4.59	(0.43)	5.12	(0.48)
22	1-8 15/16	(532)	4.21	(0.39)	4.50	(0.42)	5.08	(0.47)	5.66	(0.53)
24	1-10 15/16	(583)	4.61	(0.43)	4.93	(0.46)	5.56	(0.52)	6.20	(0.58)
26	2-0 15/16	(633)	5.01	(0.47)	5.36	(0.50)	6.05	(0.56)	6.74	(0.63)
28	2-2 15/16	(684)	5.41	(0.50)	5.79	(0.54)	6.54	(0.61)	7.28	(0.68)
30	2-4 15/16	(735)	5.81	(0.54)	6.22	(0.58)	7.02	(0.65)	7.82	(0.73)
32	2-6 15/16	(786)	6.22	(0.58)	6.65	(0.62)	7.51	(0.70)	8.37	(0.78)
34	2-8 15/16	(837)	6.62	(0.61)	7.08	(0.66)	7.99	(0.74)	8.91	(0.83)
36	2-10 15/16	(887)	7.02	(0.65)	7.51	(0.70)	8.48	(0.79)	9.45	(0.88)
40	3-2 15/16	(989)	7.82	(0.73)	8.37	(0.78)	9.45	(0.88)	N/A	
42	3-4 15/16	(1040)	8.23	(0.76)	8.79	(0.82)	9.93	(0.92)	N/A	

NOTE: Daylight Opening square footage values are "per sash."

Daylight Measurements: Transom and Pictures

Ultimate Wood Double Hung Transom Daylight Measurements			Width					
			CN	16		20		24	
			DLO	1-2 15/16	(379)	1-6 15/16	(481)	1-10 15/16	(583)
CN	DLO Height		Square Feet (Square Meters)						
12	0-10 15/16	(278)		1.13	(0.11)	1.44	(0.13)	1.74	(0.16)
20	1-6 15/16	(481)		1.96	(0.18)	2.49	(0.23)	3.02	(0.28)

Ultimate Wood Double Double Hung Transom Daylight Measurements			Width					
			CN	26		28		30	
			DLO	2-0 15/16	(633)	2-2 15/16	(684)	2-4 15/16	(735)
CN	DLO Height		Square Feet (Square Meters)						
12	0-10 15/16	(278)		1.89	(0.18)	2.05	(0.19)	2.20	(0.20)
20	1-6 15/16	(481)		3.28	(0.30)	3.54	(0.33)	3.81	(0.35)

Ultimate Wood Double Double Hung Transom Daylight Measurements			Width					
			CN	32		36		40	
			DLO	2-6 15/16	(786)	2-10 15/16	(887)	3-2 15/16	(989)
CN	DLO Height		Square Feet (Square Meters)						
12	0-10 15/16	(278)		2.35	(0.22)	2.65	(0.25)	2.96	(0.27)
20	1-6 15/16	(481)		4.07	(0.38)	4.59	(0.43)	5.12	(0.48)

Ultimate Wood Double Hung Picture Daylight Measurements			Width									
			CN	40		48		52		60		68	
			DLO	2-10 15/16	(887)	3-6 15/16	(1091)	3-10 15/16	(1192)	4-6 15/16	(1395)	5-2 15/16	(1599)
CN	DLO Height		Square Feet (Square Meters)										
38	2-8 1/4	(819)		7.82	(0.73)	9.62	(0.89)	10.51	(0.98)	12.30	(1.14)	14.10	(1.31)
42	3-0 1/4	(921)		8.80	(0.82)	10.81	(1.00)	11.82	(1.10)	13.83	(1.28)	15.84	(1.47)
46	3-4 1/4	(1022)		9.77	(0.91)	12.00	(1.12)	13.12	(1.22)	15.36	(1.43)	17.59	(1.63)
50	3-8 1/4	(1124)		10.74	(1.00)	13.19	(1.23)	14.42	(1.34)	16.88	(1.57)	19.34	(1.80)
54	4-0 1/4	(1226)		11.71	(1.09)	14.39	(1.34)	15.73	(1.46)	18.41	(1.71)	21.09	(1.96)
58	4-4 1/4	(1327)		12.68	(1.18)	15.58	(1.45)	17.03	(1.58)	19.93	(1.85)	22.84	(2.12)
62	4-8 1/4	(1429)		13.65	(1.27)	16.77	(1.56)	18.34	(1.70)	21.46	(1.99)	24.59	(2.28)
66	5-0 1/4	(1530)		14.62	(1.36)	17.97	(1.67)	19.64	(1.82)	22.99	(2.14)	26.33	(2.45)
70	5-4 1/4	(1632)		15.59	(1.45)	19.16	(1.78)	20.94	(1.95)	24.51	(2.28)	28.08	(2.61)
74	5-8 1/4	(1734)		16.56	(1.54)	20.35	(1.89)	22.25	(2.07)	26.04	(2.42)	29.83	(2.77)
78	6-0 1/4	(1835)		17.53	(1.63)	21.54	(2.00)	23.55	(2.19)	27.56	(2.56)	31.58	(2.93)
86	6-8 1/4	(2038)		19.47	(1.81)	23.93	(2.22)	26.16	(2.43)	30.62	(2.84)	35.07	(3.26)
90	7-0 1/4	(2140)		20.44	(1.90)	25.12	(2.33)	27.46	(2.55)	32.14	(2.99)	36.82	(3.42)

Minimum and Maximum Guidelines: Double Hung Units

Minimum and Maximum Guidelines											
Unit Type		Min Frame Size				Max Frame Size				Max Glass Size	
		Width		Height		Width		Height			
		in	mm	in	mm	in	mm	in	mm	Sq. Feet	Sq. Meters
UWDH	11/16" (18) IG	13 3/8	(340)	25	(635)	45 3/8	(1153)	97	(2464)	11	1.022
UWDH	7/8" (22) Tripane	13 3/8	(340)	25	(635)	45 3/8	(1153)	97	(2464)	7	0.650
UWDHTR	11/16" (18) IG	13 3/8	(340)	13 3/8	(340)	104	(2642)	59 1/2	(1511)	25	2.323
UWDHP	1" (25) IG	13 3/8	(340)	15 9/16	(395)	120	(3048)	120	(3048)	49	4.552

Certified Sizes and Ratings: Double Hung Units

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Rating	Design Pressure (DP)	Overall Width		Overall Height	
						in	mm	in	mm
UWDH 3036	1.57	6	60	LC-PG40-H	40	35 3/8	(899)	81	(2057)
UWDH 3644	1.57	6	60	LC-PG40-H	40	41 3/8	(1051)	97	(2464)
UWDH HP3644	1.57	8.25	60	LC-PG40-H	40	41 3/8	(1051)	97	(2464)
UWDH 4026	1.57	6	60	LC-PG40-H	40	45 3/8	(1153)	61	(1549)
UWDH 4036	1.57	6	45	LC-PG40-H	40	45 3/8	(1153)	81	(2057)
UWDHHP 4036	1.57	8.25	60	LC-PG40-H	40	45 3/8	(1153)	81	(2057)
UWDHHP 2830	1.57	7.5	75	LC-PG50-H	50	33 3/8	(848)	69	(1753)

.

IZ3 - Minimum and Maximum Guidelines, Certified Sizes and Ratings

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Rating	Design Pressure (DP)	Overall Width		Overall Height	
						in	mm	in	mm
UWDHIZ3 3234	1.57	8.25	82.5	LC-PG55-H	+55/-65	37 3/8	(949)	77	(1956)
UWDHIZ3 4026	1.57	8.25	82.5	LC-PG55-H	+55/-65	45 3/8	(1153)	61	(1549)
UWDHPIZ3	1.57	8.25	82.5	CW-PG55-FW	+55/-65	60	(1524)	106 15/16	(2716)

Impact Zone 3 - Minimum and Maximum Guidelines, Certified Sizes and Ratings

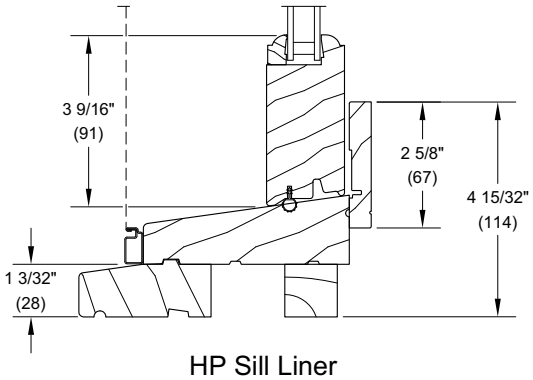
Impact Glazing Zone 3 (IZ3):

Frame:

- Sealant added at sill liner
- Sill brackets added for bottom sash retention
- Screws through the jamb liner to reinforce the frame

Sash:

- Top check rail has different profile for interlock
- Bottom check rail has profile for interlock
- Painted stainless steel stamped interlock for top sash for sash retention
- Mil finish stainless steel stamped interlock for bottom sash retention
- End plate with over molded stainless steel tilt latch blade
- Long cladding clip screws through it at check rail to reinforce stiles
- Stainless steel tilt pins for sash retention
- Different check rail cladding connector profile for interlock
- Keeper insert to keep lock from disengaging during impact



HP Sill Liner

Glazing:

- PVC tube in check rail to reinforce check rail and to protect tilt cord from sealant
- Backfilled with Dow 995 silicone sealant
- Interior glass used is laminated with a PVB inner layer
- Exterior glass is standard annealed. All CUDH operator sizes certified are OK with annealed glass. Optional tempered glass is available
- Simulated Divided Lites are available on IZ3 products
- Grilles Between the Glass are not available in IZ3 unit

Measurement Conversions

Double Hung Operating Unit						
Unit Measurements		Width		Height		
From	To					
Rough Opening		**in**	**mm**		**in**	**mm**
OM of Frame	Rough Opening	+ 1	(25)		+ 1/2	(13)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)		-1 1/16	(27)
Top Sash		**in**	**mm**		**in**	**mm**
OM of Frame	OM of Top Sash	-2 29/32	(74)	÷ 2	-1 11/16	(43)
Bottom Sash		**in**	**mm**		**in**	**mm**
OM of Frame	OM of Bottom Sash	-2 29/32	(74)	÷ 2	+ 1/8	(03)
Glass		**in**	**mm**		**in**	**mm**
Daylight Opening	Glass	+ 1 1/16	(27)		+ 1 1/16	(27)
Screen		**in**	**mm**		**in**	**mm**
OM of Frame	OM of Screen	-1 1/2	(38)		-1 7/8	(48)
Daylight Opening	OM of Screen	+ 4 15/16	(125)	× 2	+ 9 9/32	(236)
Half Screen		**in**	**mm**		**in**	**mm**
OM of Frame	OM of Screen	-1 1/2	(38)	÷ 2	+ 1/4	(06)
Daylight Opening	OM of Screen	+ 4 15/16	(125)		+ 5 13/16	(148)
Combination		**in**	**mm**		**in**	**mm**
OM of Frame	OM of Combination	-1 1/2	(38)		-1 11/16	(43)
Daylight Opening	OM of Combination	+ 4 15/16	(125)	× 2	+ 9 7/16	(240)

NOTE: The following formula will properly size a standard cottage style double hung:

Formula

1. Select the standard size double hung that will fit the rough opening
2. Add the top and the bottom glass heights together
3. Divide the total glass height by the ration of the top sash
4. Round to the nearest standard glass height
5. Subtract from the total glass height

Example

1. UWDH with a 2/5 - 3/5 cottage style. If the rough opening is 2’-6 3/8" x 4’-8 7/8" (RO for a UWDH 2424)
2. 24" + 24" = 48"
3. 48" divide by 2/5 (0.4) = 19 13/64 (20)
4. 48" - 20" = 28"

The top sash will be a 2420 and the bottom sash will be a 2428. The call number for the example is: UWDH 2420/28.

Measurement Conversions

Double Hung Transoms with Subsill					
Unit Measurements		Width		Height	
From	To				
Rough Opening		**in**	**mm**	**in**	**mm**
OM of Frame	Rough Opening	+ 1	(25)	+ 1/2	(13)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)	-1 1/16	(27)
Sash		**in**	**mm**	**in**	**mm**
OM of Frame	OM of Sash	-2 29/32	(74)	-2 1/8	(54)
Daylight Opening	OM of Sash	+ 3 17/32	(90)	+ 4 11/32	(110)
Glass		**in**	**mm**	**in**	**mm**
Daylight Opening	Glass	+ 1 1/16	(27)	+ 1 1/16	(27)

Double Hung Picture					
Unit Measurements		Width		Height	
From	To				
Rough Opening		**in**	**mm**	**in**	**mm**
OM of Frame	Rough Opening	+ 1	(25)	+ 1/2	(13)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)	-1 1/16	(27)
Sash		**in**	**mm**	**in**	**mm**
OM of Frame	OM of Sash	-1 9/16	(40)	-3 3/32	(79)
Daylight Opening	OM of Sash	+ 4 7/8	(124)	+ 5 21/32	(144)
Glass		**in**	**mm**	**in**	**mm**
Daylight Opening	Glass	+ 1 1/16	(27)	+ 1 1/16	(27)

Egress Formulas for Double Hung

Clear Opening:

- Clear Opening Width = Frame OM Width - 5 1/2" (140)

Units with Standard Sill Liner

- Clear Opening Height = (Frame OM Height* / 2) - 6 3/8" (162)

Units with High Performance Sill Liner

- Clear Opening Height = (Frame OM Height* / 2) - 7 1/4" (184)

*including subsill

Vent Opening

- Vent Opening Width = Jamb to Jamb Width
- Vent Opening Height = Top of sill liner to btm of btm sash fully opened
- Vent Width * Vent Height / 144

Standard Unit Measurements: 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
16	2-0 1/2	(622)	1-10 3/8	(568)	1-9 3/8	(543)	1-2 15/16	(379)
20	2-4 1/2	(724)	2-2 3/8	(670)	2-1 3/8	(645)	1-6 15/16	(481)
24	2-8 1/2	(826)	2-6 3/8	(772)	2-5 3/8	(746)	1-10 15/16	(583)
26	2-10 1/2	(876)	2-8 3/8	(822)	2-7 3/8	(797)	2-0 15/16	(633)
28	3-0 1/2	(927)	2-10 3/8	(873)	2-9 3/8	(848)	2-2 15/16	(684)
30	3-2 1/2	(978)	3-0 3/8	(924)	2-11 3/8	(899)	2-4 15/16	(735)
32	3-4 1/2	(1029)	3-2 3/8	(975)	3-1 3/8	(949)	2-6 15/16	(786)
36	3-8 1/2	(1130)	3-6 3/8	(1076)	3-5 3/8	(1051)	2-10 15/16	(887)
40	4-0 1/2	(1232)	3-10 3/8	(1178)	3-9 3/8	(1153)	3-2 15/16	(989)

Standard Double Hung Unit Measurements								
Height								
CN	Masonry Opening		Rough Opening		Frame Size (w/subsill)		Daylight Opening	
	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm
12	2-10 9/16	(878)	2-9 1/2	(851)	2-9	(838)	0-10 15/16	(278)
14	3-2 9/16	(980)	3-1 1/2	(953)	3-1	(940)	1-0 15/16	(329)
16	3-6 9/16	(1081)	3-5 1/2	(1054)	3-5	(1041)	1-2 15/16	(379)
18	3-10 9/16	(1183)	3-9 1/2	(1156)	3-9	(1143)	1-4 15/16	(430)
20	4-2 9/16	(1284)	4-1 1/2	(1257)	4-1	(1245)	1-6 15/16	(481)
22	4-6 9/16	(1386)	4-5 1/2	(1359)	4-5	(1346)	1-8 15/16	(532)
24	4-10 9/16	(1488)	4-9 1/2	(1461)	4-9	(1448)	1-10 15/16	(583)
26	5-2 9/16	(1589)	5-1 1/2	(1562)	5-1	(1549)	2-0 15/16	(633)
28	5-6 9/16	(1691)	5-5 1/2	(1664)	5-5	(1651)	2-2 15/16	(684)
30	5-10 9/16	(1792)	5-9 1/2	(1765)	5-9	(1753)	2-4 15/16	(735)
32	6-2 9/16	(1894)	6-1 1/2	(1867)	6-1	(1854)	2-6 15/16	(786)
34	6-6 9/16	(1996)	6-5 1/2	(1969)	6-5	(1956)	2-8 15/16	(837)
36	6-10 9/16	(2097)	6-9 1/2	(2070)	6-9	(2057)	2-10 15/16	(887)
40	7-6 9/16	(2300)	7-5 1/2	(2273)	7-5	(2261)	3-2 15/16	(989)
42	7-10 9/16	(2402)	7-9 1/2	(2375)	7-9	(2362)	3-4 15/16	(1040)

Standard Unit Measurements: Transom/Picture

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
16	2-0 1/2	(622)	1-10 3/8	(568)	1-9 3/8	(543)	1-2 15/16	(379)
20	2-4 1/2	(724)	2-2 3/8	(670)	2-1 3/8	(645)	1-6 15/16	(481)
24	2-8 1/2	(826)	2-6 3/8	(772)	2-5 3/8	(746)	1-10 15/16	(583)
26	2-10 1/2	(876)	2-8 3/8	(822)	2-7 3/8	(797)	2-0 15/16	(633)
28	3-0 1/2	(927)	2-10 3/8	(873)	2-9 3/8	(848)	2-2 15/16	(684)
30	3-2 1/2	(978)	3-0 3/8	(924)	2-11 3/8	(899)	2-4 15/16	(735)
32	3-4 1/2	(1029)	3-2 3/8	(975)	3-1 3/8	(949)	2-6 15/16	(786)
36	3-8 1/2	(1130)	3-6 3/8	(1076)	3-5 3/8	(1051)	2-10 15/16	(887)
40	4-0 1/2	(1232)	3-10 3/8	(1178)	3-9 3/8	(1153)	3-2 15/16	(989)

Standard Double Hung Transom Unit Measurements								
Height								
CN	Masonry Opening		Rough Opening		Frame Size (no subsill)		Daylight Opening	
	ft - in	mm	ft - in	mm	ft - in	mm	ft - in	mm
12	1-6 15/16	(481)	1-5 7/8	(454)	1-5 3/8	(441)	0-10 15/16	(278)
20	2-2 15/16	(684)	2-1 7/8	(657)	2-1 3/8	(645)	1-6 15/16	(481)

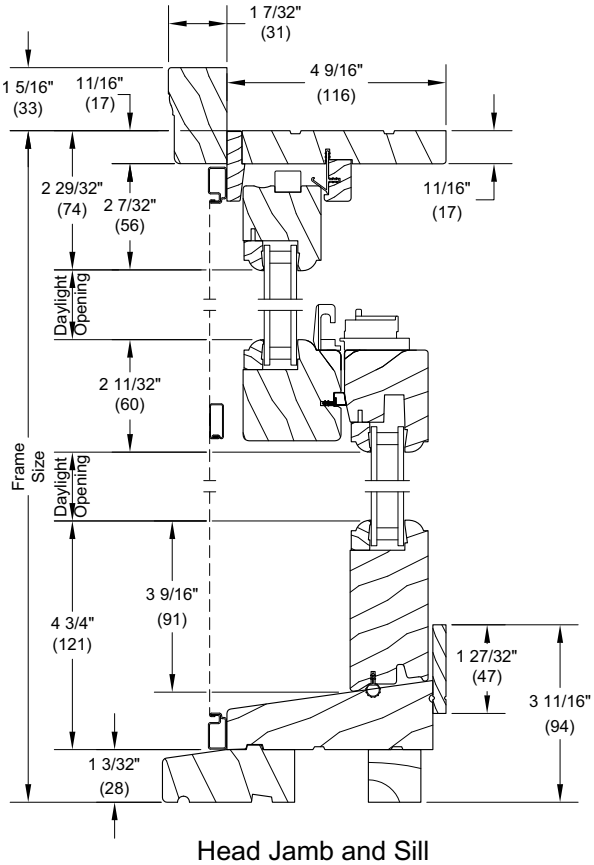
Standard Double Hung Picture Unit Measurements								
Width								
CN	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft - in	mm	ft - in	mm	ft - in	mm	ft - in	mm
40	3-8 1/2	(1130)	3-6 3/8	(1076)	3-5 3/8	(1051)	2-10 15/16	(887)
48	4-4 1/2	(1334)	4-2 3/8	(1280)	4-1 3/8	(1254)	3-6 15/16	(1091)
52	4-8 1/2	(1435)	4-6 3/8	(1381)	4-5 3/8	(1356)	3-10 15/16	(1192)
60	5-4 1/2	(1638)	5-2 3/8	(1584)	5-1 3/8	(1559)	4-6 15/16	(1395)
68	6-0 1/2	(1842)	5-10 3/8	(1788)	5-9 3/8	(1762)	5-2 15/16	(1599)

Standard Double Hung Picture Unit Measurements								
Height								
CN	Masonry Opening		Rough Opening		Frame Size (w/subsill)		Daylight Opening	
	ft - in	mm	ft - in	mm	ft - in	mm	ft - in	mm
38	3-6 9/16	(1081)	3-5 1/2	(1054)	3-5	(1041)	2-8 1/4	(819)
42	3-10 9/16	(1183)	3-9 1/2	(1156)	3-9	(1143)	3-0 1/4	(921)
46	4-2 9/16	(1284)	4-1 1/2	(1257)	4-1	(1245)	3-4 1/4	(1022)
50	4-6 9/16	(1386)	4-5 1/2	(1359)	4-5	(1346)	3-8 1/4	(1124)
54	4-10 9/16	(1488)	4-9 1/2	(1461)	4-9	(1448)	4-0 1/4	(1226)
58	5-2 9/16	(1589)	5-1 1/2	(1562)	5-1	(1549)	4-4 1/4	(1327)
62	5-6 9/16	(1691)	5-5 1/2	(1664)	5-5	(1651)	4-8 1/4	(1429)
66	5-10 9/16	(1792)	5-9 1/2	(1765)	5-9	(1753)	5-0 1/4	(1530)
70	6-2 9/16	(1894)	6-1 1/2	(1867)	6-1	(1854)	5-4 1/4	(1632)
74	6-6 9/16	(1996)	6-5 1/2	(1969)	6-5	(1956)	5-8 1/4	(1734)
78	6-10 9/16	(2097)	6-9 1/2	(2070)	6-9	(2057)	6-0 1/4	(1835)
86	7-6 9/16	(2300)	7-5 1/2	(2273)	7-5	(2261)	6-8 1/4	(2038)
90	7-10 9/16	(2402)	7-9 1/2	(2375)	7-9	(2362)	7-0 1/4	(2140)

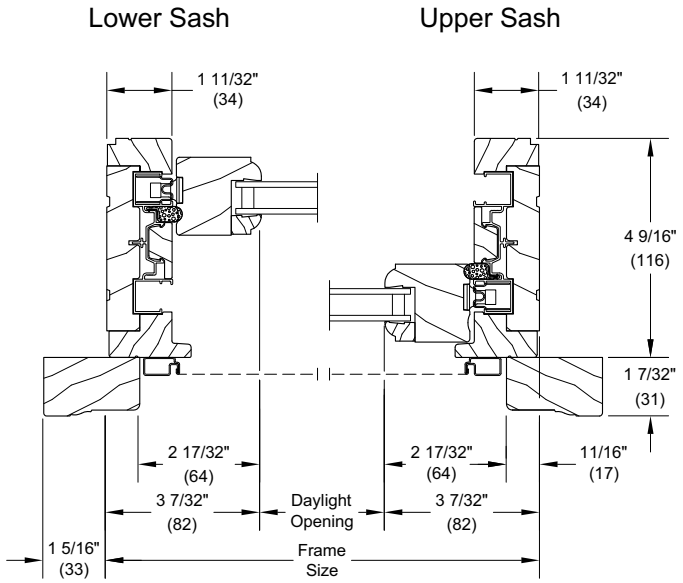
Section Details: Operating

Scale: 3" = 1' 0"

Double Hung

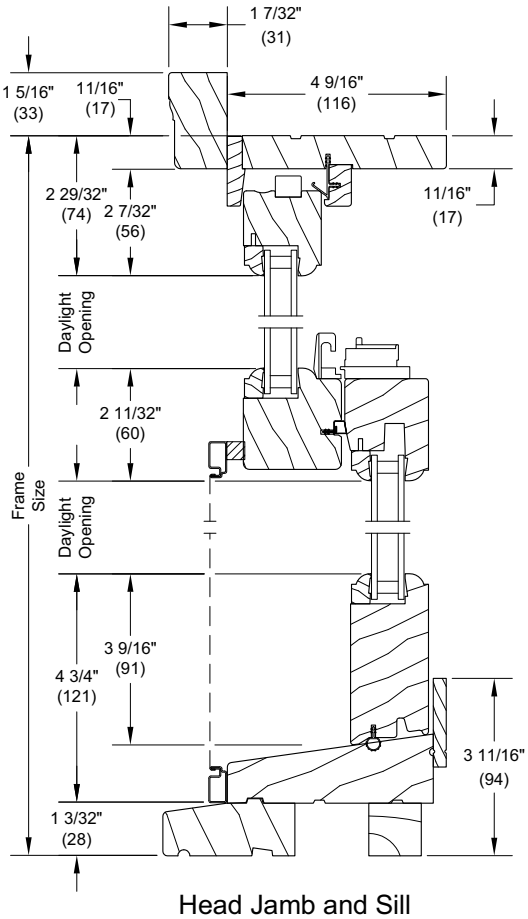


Head Jamb and Sill

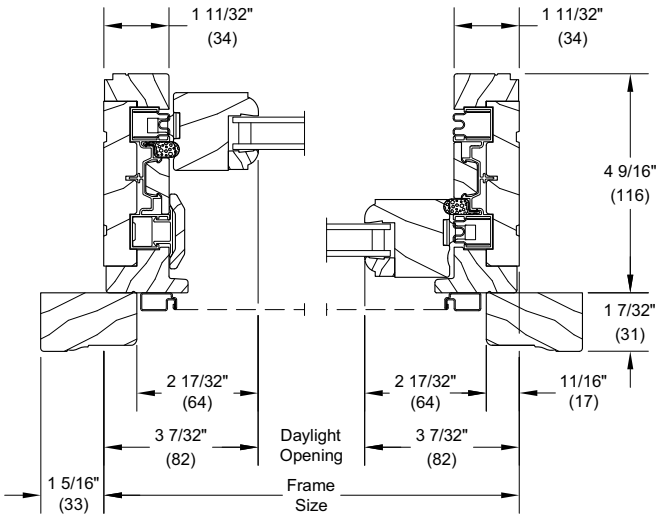


Jambs

Single Hung



Head Jamb and Sill

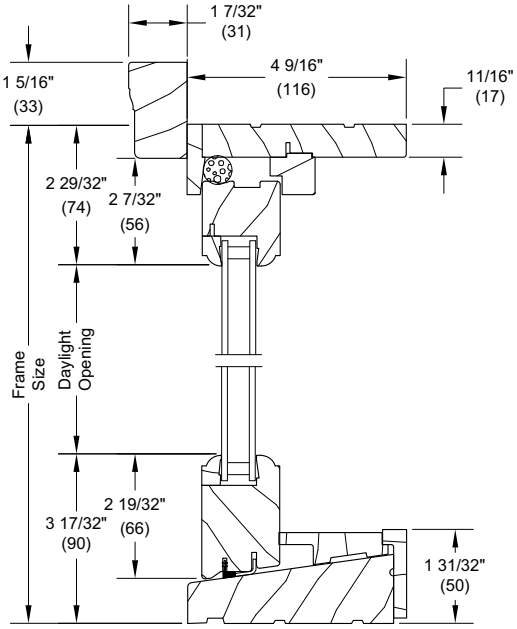


Jambs

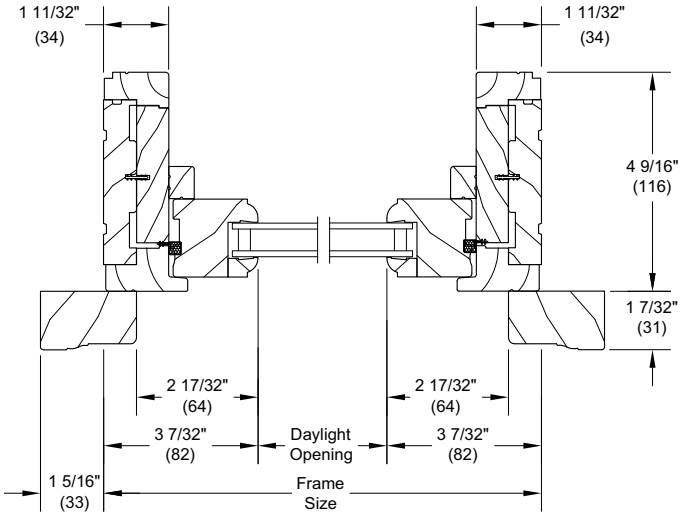
Section Details: 1 5/8" Transom/Picture

Scale: 3" = 1' 0"

1 5/8" Transom

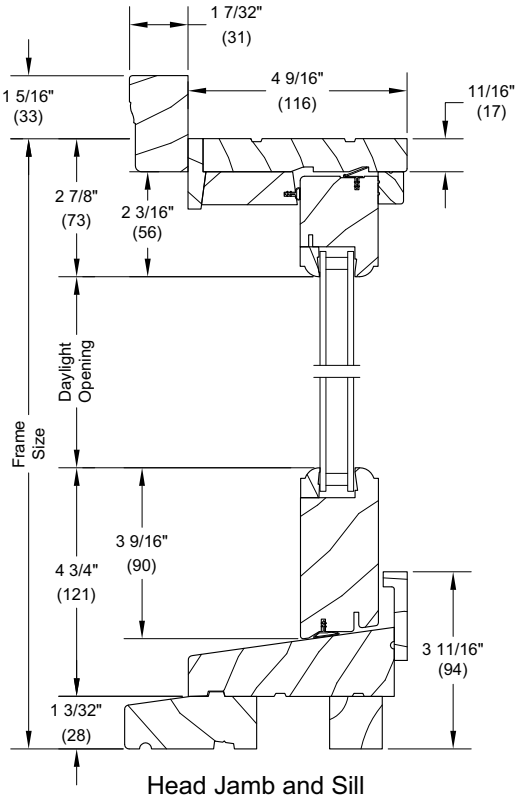


Head Jamb and Sill

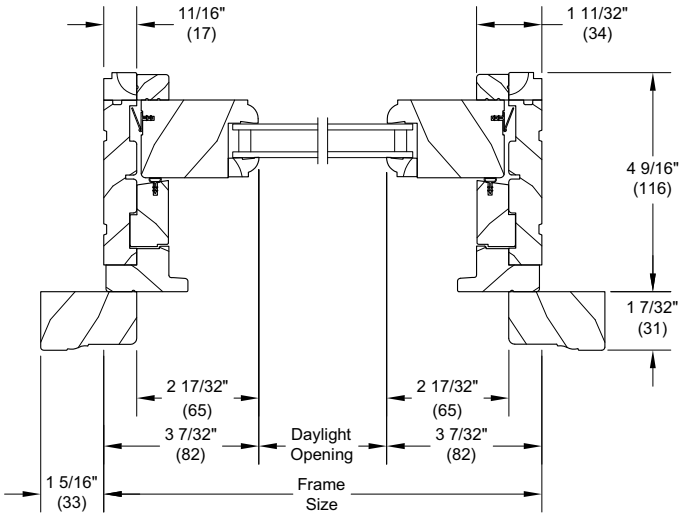


Jamb

1 5/8" Picture



Head Jamb and Sill

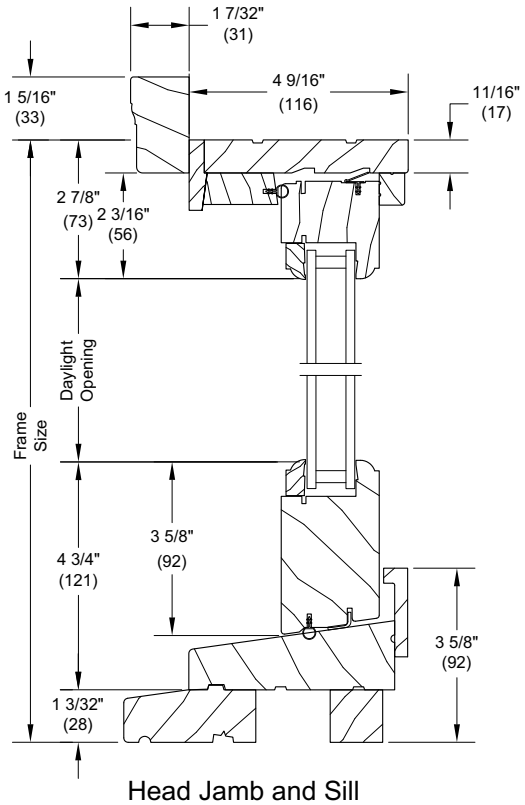


Jambs

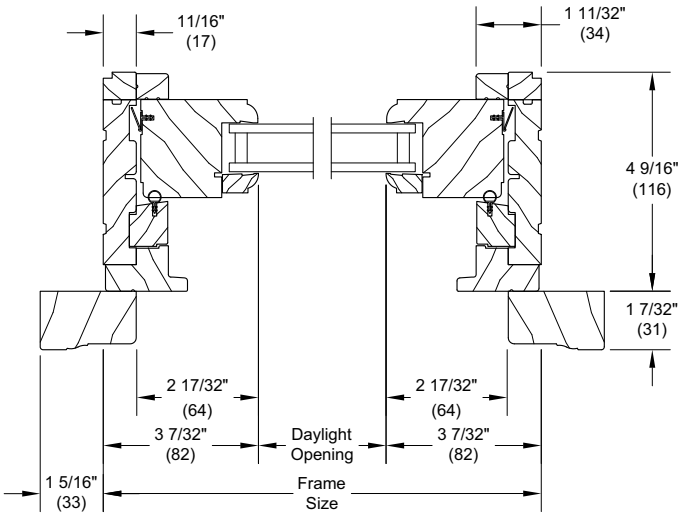
Section Details: 2" Picture

Scale: 3" = 1' 0"

2" Picture



Head Jamb and Sill

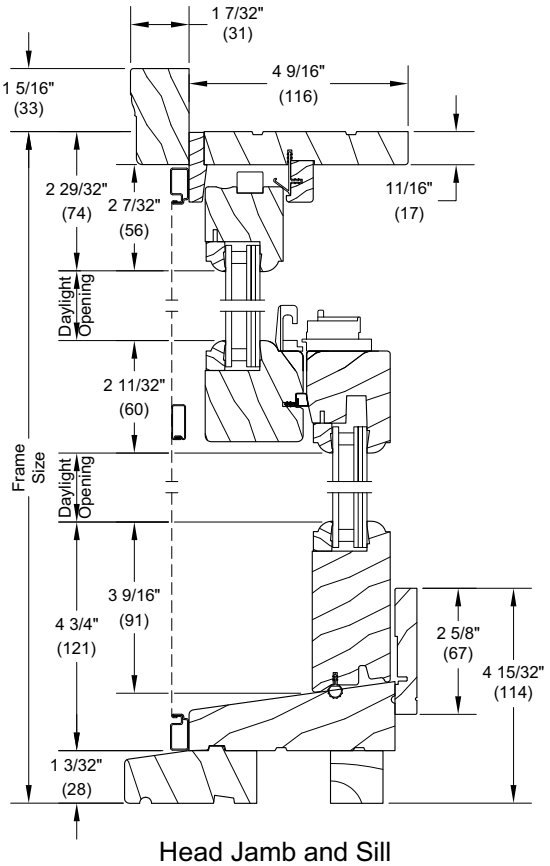


Jambs

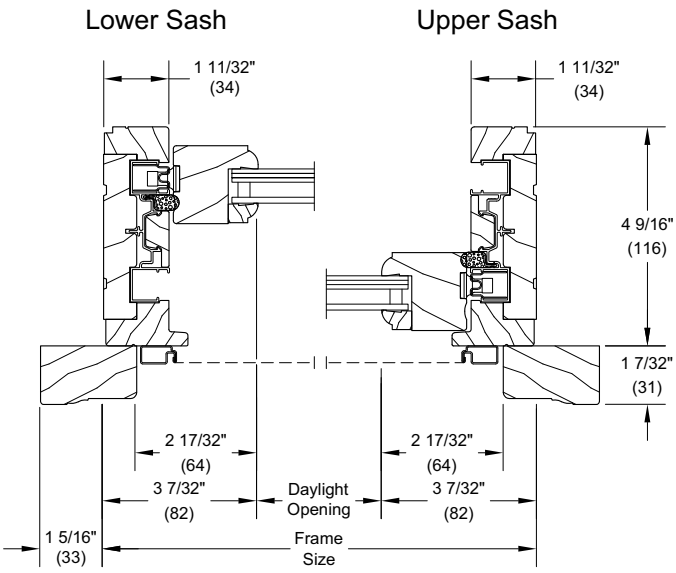
Section Details: Operating IZ3

Scale: 3" = 1' 0"

Double Hung

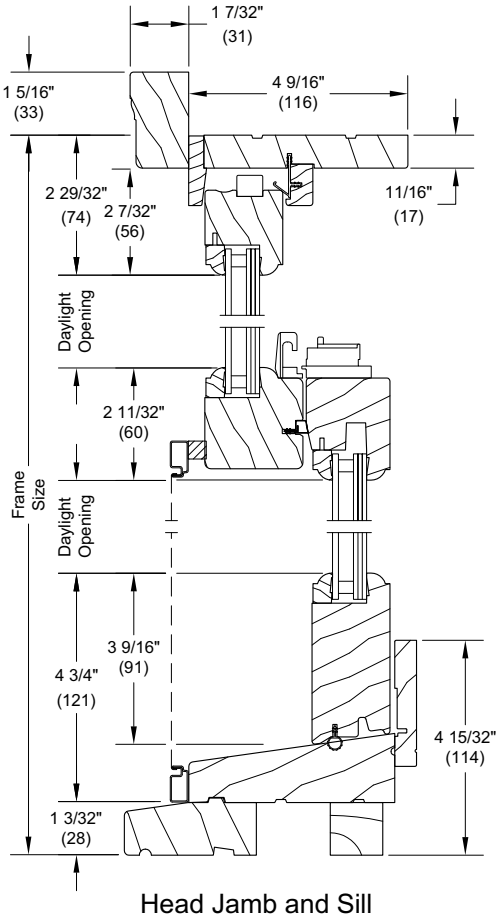


Head Jamb and Sill

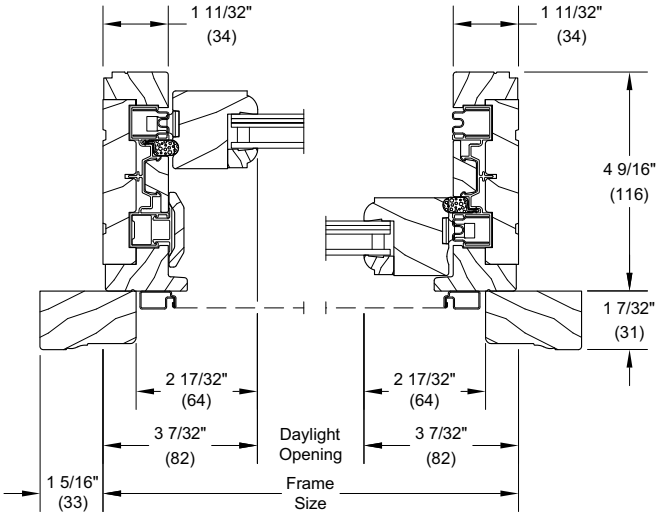


Jambs

Single Hung



Head Jamb and Sill

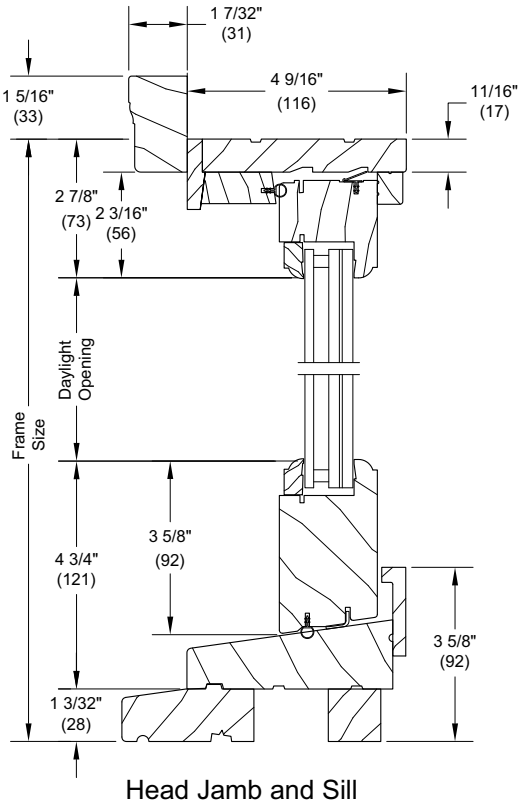


Jambs

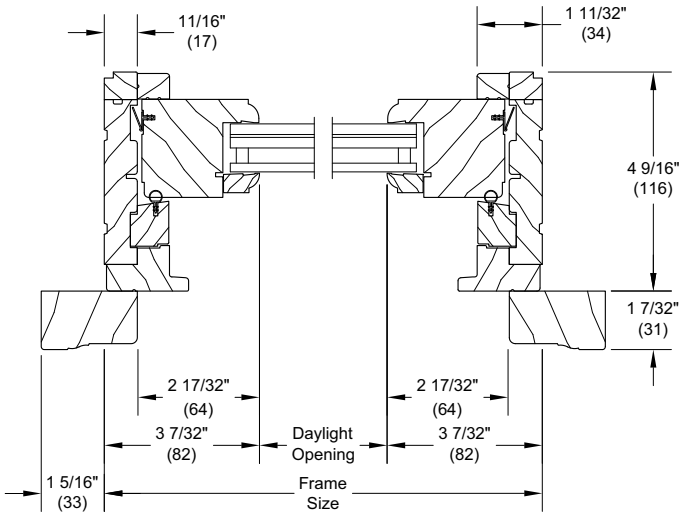
Section Details: Picture IZ3

Scale: 3" = 1' 0"

2" Picture



Head Jamb and Sill

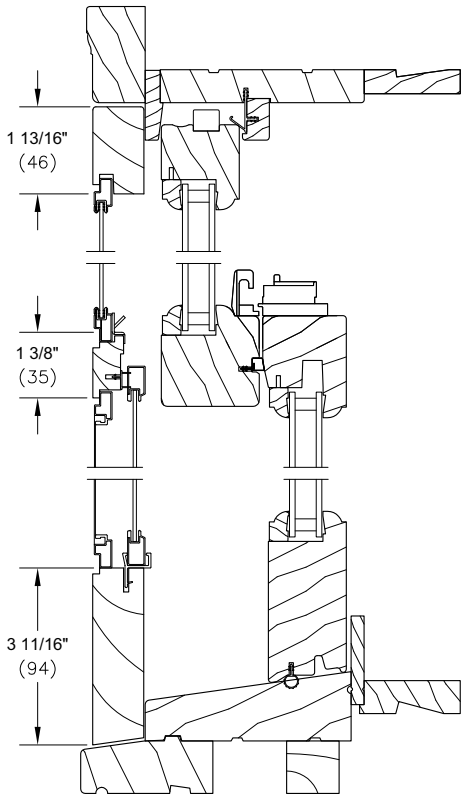


Jambs

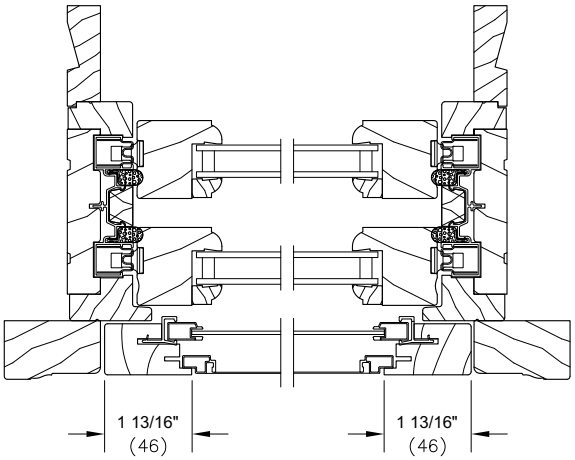
Section Details: Combination/Storm Sash

Scale: 3" = 1' 0"

Combination w/ 6 9/16"

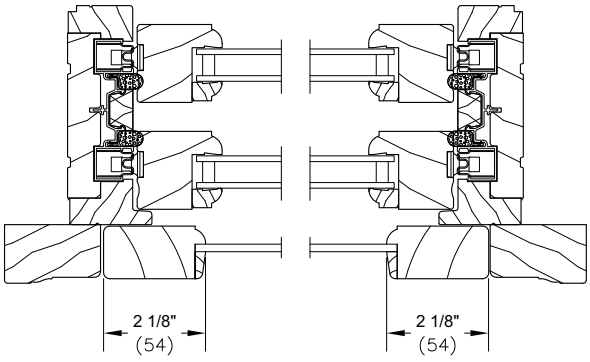


Head Jamb and Sill

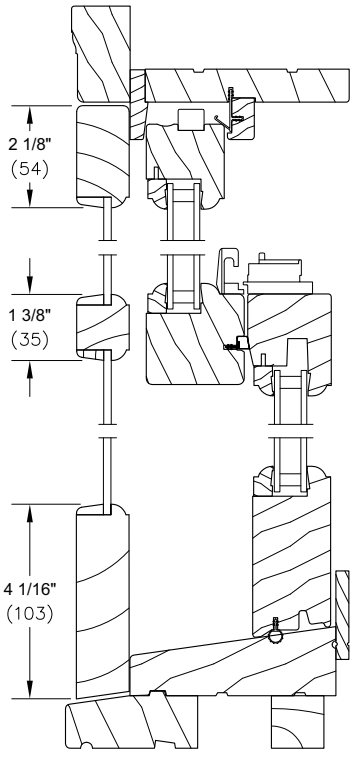


Jambs

Storm Sash



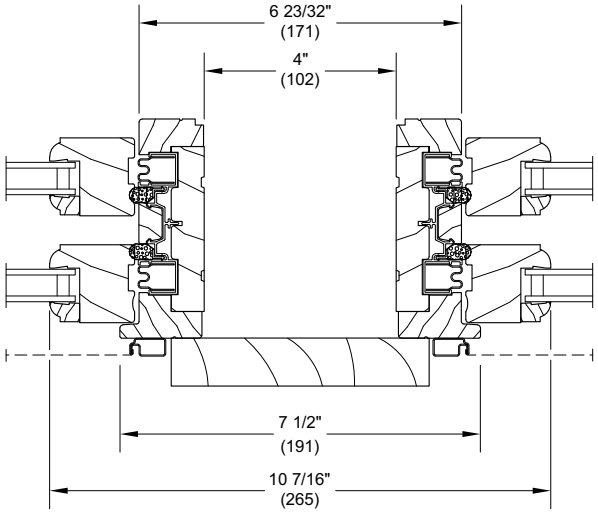
Jambs



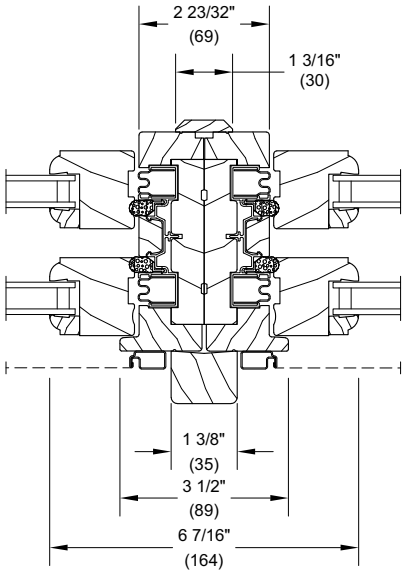
Head Jamb and Sill

Section Details: Mullions

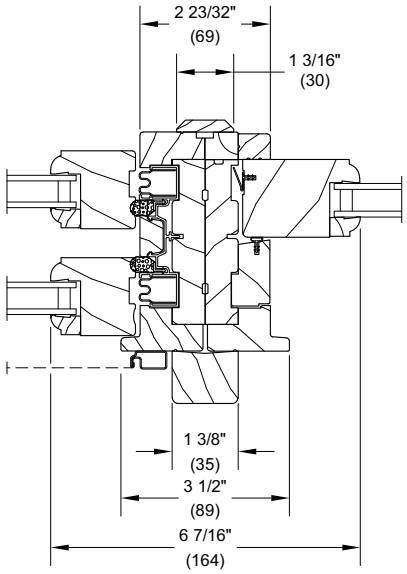
Scale: 3" - 1' 0"



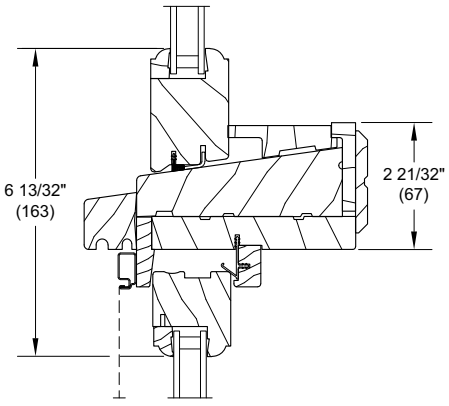
Vertical Mullion - with 4" Space Mull
Operator/Operator



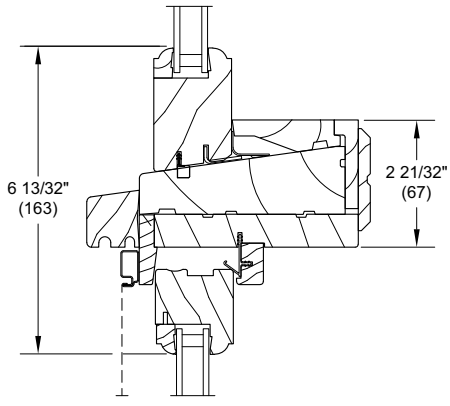
Vertical Mullion
Operator/Operator/Direct Mull



Vertical Mullion
Operator/Picture/Direct Mull



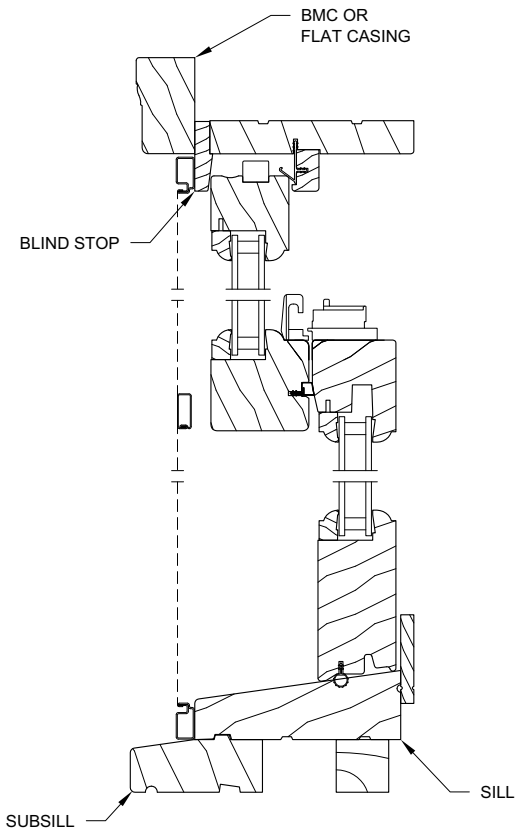
Transom mulled over UWDH



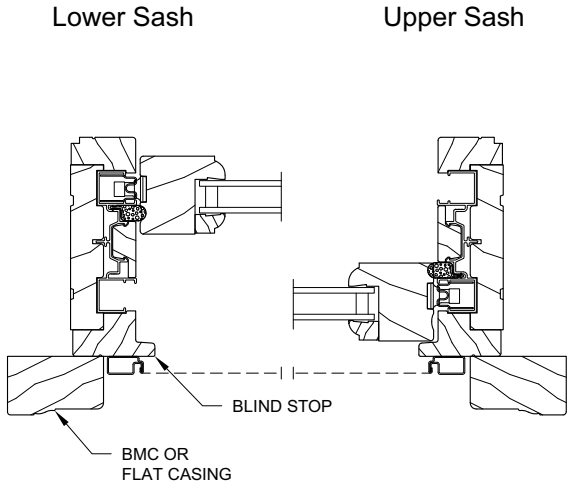
RT Transom mulled over UWDH

Section Details: Operator with Cedar Dress Option

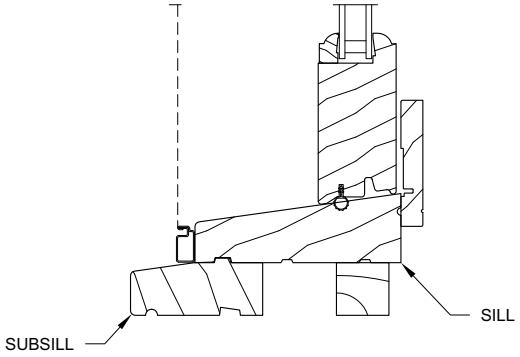
Scale: 3" - 1' 0"



Head Jamb and Sill



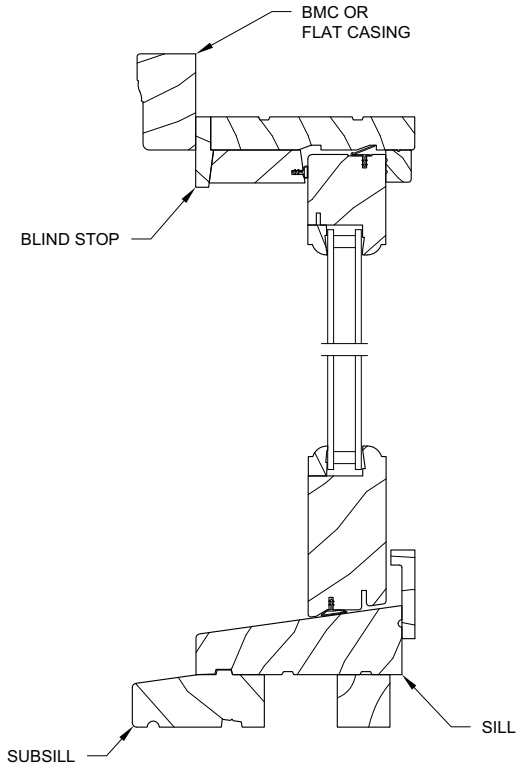
Jambs



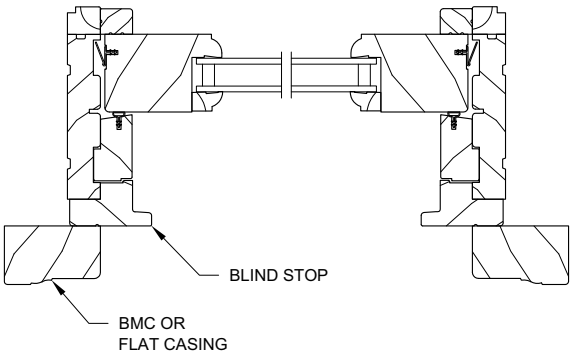
HP Sill Liner

Section Details: Picture with Cedar Dress Option

Scale: 3" - 1' 0"



Head Jamb and Sill



Jambs