

Perma-Shield® Improved/E-Z Casement Windows (1999 to Present)

Standard, Transom and Picture Windows

Unit Sizes

Unit Sizes - Standard and Transom Window

Note:

Single sash indicates hinging left, right or stationary. Handing is viewed from exterior. Unit Dimension refers to overall outside-to-outside frame. Unobstructed Glass refers to visible glass dimensions. Numbers in parentheses are metric measurements.

Unit Dimension	1'-5"	1'-8 1/2"	2'-0 1/8"	2'-4 3/8"	2'-7 1/2"	2'-11 15/16"	2'-9 3/4"	3'-4 3/4"	4'-0"	4'-8 1/2"
Minimum Rough Opening	1'-5 1/2" (445)	1'-9" (533)	2'-0 5/8" (625)	2'-4 7/8" (733)	2'-8" (813)	3'-0 1/2" (927)	2'-10 1/4" (870)	3'-5 1/4" (1048)	4'-0 1/2" (1232)	4'-9" (1448)
Unobstructed Glass*	12 5/8" (321)	16 1/8" (410)	19 3/4" (502)	24" (610)	27 1/8" (689)	31 9/16" (802)	12 5/8" (321)	16 1/8" (410)	19 3/4" (502)	24" (610)
Unobstructed Glass Transom Units Only	12 3/16" (310)	15 11/16" (398)	19 5/16" (491)	23 9/16" (599)	26 11/16" (678)	31 1/8" (791)	28 15/16" (735)	35 15/16" (913)	43 3/16" (1097)	51 11/16" (1313)

1'-0"	(305)	1'-0 1/2"	(318)	1'-8 1/2"	(491)	2'-0 1/8"	(613)	2'-4 3/8"	(721)	2'-7 1/2"	(800)	2'-11 15/16"	(913)	2'-9 3/4"	(857)	3'-4 3/4"	(1035)	4'-0"	(1219)	4'-8 1/2"	(1435)
CTR1510†	CTR1810†	CTR2010†	CTR2410†	CTR2810†	CTR3010†	CTR2910†	CTR3410†	CTR21810	CTR22010	CTR2410	CTR4810†										
2'-0 1/8"	(613)	2'-0 5/8"	(625)	2'-4 3/8"	(721)	2'-4 7/8"	(733)	2'-7 1/2"	(800)	2'-11 15/16"	(913)	2'-9 3/4"	(857)	3'-4 3/4"	(1035)	4'-0"	(1219)	4'-8 1/2"	(1435)		
CR12	CN12	C12	CW12											CN22	C22	CW22					
2'-4 3/8"	(721)	2'-4 7/8"	(733)	2'-7 1/2"	(800)	2'-11 15/16"	(913)	2'-9 3/4"	(857)	3'-4 3/4"	(1035)	4'-0"	(1219)	4'-8 1/2"	(1435)						
CR125	CN125	C125	CW125	CX125										CN225	C225	CW225					
2'-11 15/16"	(913)	3'-0 1/2"	(927)	3'-4 3/4"	(1035)	4'-0"	(1219)	4'-8 1/2"	(1435)					CR23	CN23	C23	CW23				
CR13	CN13	C13	CW13	CX13	CXW13	CR23	CN23	C23	CW23												
3'-4 13/16"	(1037)	3'-5 3/8"	(1051)	3'-8 1/2"	(1130)	4'-0"	(1219)	4'-8 1/2"	(1435)					CR235	CN235	C235	CW235†				
CR135	CN135	C135	CW135†	CX135**	CXW135	CR235	CN235	C235	CW235†												
4'-0"	(1219)	4'-0 1/2"	(1232)	4'-4 1/2"	(1341)	4'-8 1/2"	(1435)	5'-0"	(1524)					CR24	CN24	C24	CW24†				
CR14	CN14	C14	CW14†	CX14	CXW14	CR24	CN24	C24	CW24†												
4'-4 13/16"	(1341)	4'-5 3/8"	(1356)	4'-8 1/2"	(1435)	5'-0"	(1524)	5'-4 13/16"	(1646)					CR245	CN245	C245	CW245†				
CR145	CN145	C145	CW145†	CX145	CXW145	CR245	CN245	C245	CW245†												
4'-11 7/8"	(1521)	5'-0 3/8"	(1534)	5'-4 13/16"	(1646)	5'-8 1/2"	(1703)	6'-0"	(1826)					CR25	CN25	C25	CW25†				
CR15	CN15	C15	CW15†	CX15	CXW15**	CR25	CN25	C25	CW25†												
5'-4 13/16"	(1646)	5'-5 3/8"	(1660)	5'-8 1/2"	(1703)	6'-0"	(1826)	6'-4 1/8"	(1951)					CR255	CN255	C255	CW255†				
CR155	CN155	C155	CW155†	CX155	CXW155**	CR255	CN255	C255	CW255†												
5'-11 7/8"	(1826)	6'-0 3/8"	(1838)	6'-4 1/8"	(1951)	6'-8 1/2"	(2003)	7'-0"	(2130)					CR26	CN26	C26	CW26†				
CR16	CN16	C16	CW16†	CX16	CXW16**	CR26	CN26	C26	CW26†												

Perma-Shield® Improved/E-Z Casement Standard and Transom Window Unit Sizes

Unit viewed from exterior.

Sash

Sash Size Table

Note:

Overall Sash is measured outside edge to outside edge of frame.

Unobstructed Glass is dimension from outside edge to outside edge of visible glass only.

Actual Glass is dimension of outside edge to outside edge of glass, including glass that is not visible.

Sash Size Table - Standard Window

Unit No.	Overall Sash (w x h)	Unobstructed Glass (w x h)	Actual Glass (w x h)
CR2	15 ²⁷ / ₃₂ × 22 ⁹ / ₁₆	12 ⁵ / ₈ × 19 ⁵ / ₁₆	13 ¹⁵ / ₃₂ × 20 ³ / ₁₆
CR25	15 ²⁷ / ₃₂ × 26 ¹³ / ₁₆	12 ⁵ / ₈ × 23 ⁹ / ₁₆	13 ¹⁵ / ₃₂ × 24 ⁷ / ₁₆
CR3	15 ²⁷ / ₃₂ × 34 ³ / ₈	12 ⁵ / ₈ × 31 ¹ / ₈	13 ¹⁵ / ₃₂ × 32
CR35	15 ²⁷ / ₃₂ × 39 ¹ / ₄	12 ⁵ / ₈ × 36	13 ¹⁵ / ₃₂ × 36 ⁷ / ₈
CR4	15 ²⁷ / ₃₂ × 46 ⁷ / ₁₆	12 ⁵ / ₈ × 43 ³ / ₁₆	13 ¹⁵ / ₃₂ × 44 ¹ / ₁₆
CR45	15 ²⁷ / ₃₂ × 51 ¹ / ₄	12 ⁵ / ₈ × 48	13 ¹⁵ / ₃₂ × 48 ⁷ / ₈
CR5	15 ²⁷ / ₃₂ × 58 ⁵ / ₁₆	12 ⁵ / ₈ × 55 ¹ / ₁₆	13 ¹⁵ / ₃₂ × 55 ¹⁵ / ₁₆
CR55	15 ²⁷ / ₃₂ × 63 ¹ / ₄	12 ⁵ / ₈ × 60	13 ¹⁵ / ₃₂ × 60 ⁷ / ₈
CR6	15 ²⁷ / ₃₂ × 70 ⁵ / ₁₆	12 ⁵ / ₈ × 67 ¹ / ₁₆	13 ¹⁵ / ₃₂ × 67 ¹⁵ / ₁₆
CN2	19 ¹¹ / ₃₂ × 22 ⁹ / ₁₆	16 ¹ / ₈ × 19 ⁵ / ₁₆	16 ³¹ / ₃₂ × 20 ³ / ₁₆
CN25	19 ¹¹ / ₃₂ × 26 ¹³ / ₁₆	16 ¹ / ₈ × 23 ⁹ / ₁₆	16 ³¹ / ₃₂ × 24 ⁷ / ₁₆
CN3	19 ¹¹ / ₃₂ × 34 ³ / ₈	16 ¹ / ₈ × 31 ¹ / ₈	16 ³¹ / ₃₂ × 32
CN35	19 ¹¹ / ₃₂ × 39 ¹ / ₄	16 ¹ / ₈ × 36	16 ³¹ / ₃₂ × 36 ⁷ / ₈
CN4	19 ¹¹ / ₃₂ × 46 ⁷ / ₁₆	16 ¹ / ₈ × 43 ³ / ₁₆	16 ³¹ / ₃₂ × 44 ¹ / ₁₆
CN45	19 ¹¹ / ₃₂ × 51 ¹ / ₄	16 ¹ / ₈ × 48	16 ³¹ / ₃₂ × 48 ⁷ / ₈
CN5	19 ¹¹ / ₃₂ × 58 ⁵ / ₁₆	16 ¹ / ₈ × 55 ¹ / ₁₆	16 ³¹ / ₃₂ × 55 ¹⁵ / ₁₆
CN55	19 ¹¹ / ₃₂ × 63 ¹ / ₄	16 ¹ / ₈ × 60	16 ³¹ / ₃₂ × 60 ⁷ / ₈
CN6	19 ¹¹ / ₃₂ × 70 ⁵ / ₁₆	16 ¹ / ₈ × 67 ¹ / ₁₆	16 ³¹ / ₃₂ × 67 ¹⁵ / ₁₆
C2	22 ³¹ / ₃₂ × 22 ⁹ / ₁₆	19 ³ / ₄ × 19 ⁵ / ₁₆	20 ¹⁹ / ₃₂ × 20 ³ / ₁₆
C25	22 ³¹ / ₃₂ × 26 ¹³ / ₁₆	19 ³ / ₄ × 23 ⁹ / ₁₆	20 ¹⁹ / ₃₂ × 24 ⁷ / ₁₆
C3	22 ³¹ / ₃₂ × 34 ³ / ₈	19 ³ / ₄ × 31 ¹ / ₈	20 ¹⁹ / ₃₂ × 32
C35	22 ³¹ / ₃₂ × 39 ¹ / ₄	19 ³ / ₄ × 36	20 ¹⁹ / ₃₂ × 36 ⁷ / ₈
C4	22 ³¹ / ₃₂ × 46 ⁷ / ₁₆	19 ³ / ₄ × 43 ³ / ₁₆	20 ¹⁹ / ₃₂ × 44 ¹ / ₁₆
C45	22 ³¹ / ₃₂ × 51 ¹ / ₄	19 ³ / ₄ × 48	20 ¹⁹ / ₃₂ × 48 ⁷ / ₈
C5	22 ³¹ / ₃₂ × 58 ⁵ / ₁₆	19 ³ / ₄ × 55 ¹ / ₁₆	20 ¹⁹ / ₃₂ × 55 ¹⁵ / ₁₆
C55	22 ³¹ / ₃₂ × 63 ¹ / ₄	19 ³ / ₄ × 60	20 ¹⁹ / ₃₂ × 60 ⁷ / ₈
C6	22 ³¹ / ₃₂ × 70 ⁵ / ₁₆	19 ³ / ₄ × 67 ¹ / ₁₆	20 ¹⁹ / ₃₂ × 67 ¹⁵ / ₁₆
CW2	27 ⁷ / ₃₂ × 22 ⁹ / ₁₆	24 × 19 ⁵ / ₁₆	24 ²⁷ / ₃₂ × 20 ³ / ₁₆
CW25	27 ⁷ / ₃₂ × 26 ¹³ / ₁₆	24 × 23 ⁹ / ₁₆	24 ²⁷ / ₃₂ × 24 ⁷ / ₁₆
CW3	27 ⁷ / ₃₂ × 34 ³ / ₈	24 × 31 ¹ / ₈	24 ²⁷ / ₃₂ × 32
CW35	27 ⁷ / ₃₂ × 39 ¹ / ₄	24 × 36	24 ²⁷ / ₃₂ × 36 ⁷ / ₈
CW4	27 ⁷ / ₃₂ × 46 ⁷ / ₁₆	24 × 43 ³ / ₁₆	24 ²⁷ / ₃₂ × 44 ¹ / ₁₆

Perma-Shield® Improved/E-Z Casement Windows (1999 to Present)

Standard, Transom and Picture Windows

Sash

Sash Size Table - Standard Window			
Unit No.	Overall Sash (w x h)	Unobstructed Glass (w x h)	Actual Glass (w x h)
CW45	27 ⁷ / ₃₂ × 51 ¹ / ₄	24 × 48	24 ²⁷ / ₃₂ × 48 ⁷ / ₈
CW5	27 ⁷ / ₃₂ × 58 ⁵ / ₁₆	24 × 55 ¹ / ₁₆	24 ²⁷ / ₃₂ × 55 ¹⁵ / ₁₆
CW55	27 ⁷ / ₃₂ × 63 ¹ / ₄	24 × 60	24 ²⁷ / ₃₂ × 60 ⁷ / ₈
CW6	27 ⁷ / ₃₂ × 70 ⁵ / ₁₆	24 × 67 ¹ / ₁₆	24 ²⁷ / ₃₂ × 67 ¹⁵ / ₁₆
CX25	30 ¹¹ / ₃₂ × 26 ¹³ / ₁₆	27 ¹ / ₈ × 23 ⁹ / ₁₆	27 ³¹ / ₃₂ × 24 ⁷ / ₁₆
CX3	30 ¹¹ / ₃₂ × 34 ³ / ₈	27 ¹ / ₈ × 31 ¹ / ₈	27 ³¹ / ₃₂ × 32
CX35	30 ¹¹ / ₃₂ × 39 ¹ / ₄	27 ¹ / ₈ × 36	27 ³¹ / ₃₂ × 36 ⁷ / ₈
CX4	30 ¹¹ / ₃₂ × 46 ⁷ / ₁₆	27 ¹ / ₈ × 43 ³ / ₁₆	27 ³¹ / ₃₂ × 44 ¹ / ₁₆
CX45	30 ¹¹ / ₃₂ × 51 ¹ / ₄	27 ¹ / ₈ × 48	27 ³¹ / ₃₂ × 48 ⁷ / ₈
CX5	30 ¹¹ / ₃₂ × 58 ⁵ / ₁₆	27 ¹ / ₈ × 55 ¹ / ₁₆	27 ³¹ / ₃₂ × 55 ¹⁵ / ₁₆
CX55	30 ¹¹ / ₃₂ × 63 ¹ / ₄	27 ¹ / ₈ × 60	27 ³¹ / ₃₂ × 60 ⁷ / ₈
CX6	30 ¹¹ / ₃₂ × 70 ⁵ / ₁₆	27 ¹ / ₈ × 67 ¹ / ₁₆	27 ³¹ / ₃₂ × 67 ¹⁵ / ₁₆
CXW3	34 ²⁵ / ₃₂ × 34 ³ / ₈	31 ⁹ / ₁₆ × 31 ¹ / ₈	32 ¹³ / ₃₂ × 32
CXW35	34 ²⁵ / ₃₂ × 39 ¹ / ₄	31 ⁹ / ₁₆ × 36	32 ¹³ / ₃₂ × 36 ⁷ / ₈
CXW4	34 ²⁵ / ₃₂ × 46 ⁷ / ₁₆	31 ⁹ / ₁₆ × 43 ³ / ₁₆	32 ¹³ / ₃₂ × 44 ¹ / ₁₆
CXW45	34 ²⁵ / ₃₂ × 51 ¹ / ₄	31 ⁹ / ₁₆ × 48	32 ¹³ / ₃₂ × 48 ⁷ / ₈
CXW5	34 ²⁵ / ₃₂ × 58 ⁵ / ₁₆	31 ⁹ / ₁₆ × 55 ¹ / ₁₆	32 ¹³ / ₃₂ × 55 ¹⁵ / ₁₆
CXW55	34 ²⁵ / ₃₂ × 63 ¹ / ₄	31 ⁹ / ₁₆ × 60	32 ¹³ / ₃₂ × 60 ⁷ / ₈
CXW6	34 ²⁵ / ₃₂ × 70 ⁵ / ₁₆	31 ⁹ / ₁₆ × 67 ¹ / ₁₆	32 ¹³ / ₃₂ × 67 ¹⁵ / ₁₆

Glass Size Table - Picture Window		
Unit No.	Unobstructed Glass (w x h)	Actual Glass (w x h)
P3030	31 ¹ / ₈ × 31 ¹ / ₈	32 ²¹ / ₃₂ × 32 ²¹ / ₃₂
P3035	31 ¹ / ₈ × 36	32 ²¹ / ₃₂ × 37 ¹⁷ / ₃₂
P3040	31 ¹ / ₈ × 43 ³ / ₁₆	32 ²¹ / ₃₂ × 44 ²³ / ₃₂
P3045	31 ¹ / ₈ × 48	32 ²¹ / ₃₂ × 49 ¹⁷ / ₃₂
P3050	31 ¹ / ₈ × 55 ¹ / ₁₆	32 ²¹ / ₃₂ × 56 ¹⁹ / ₃₂
P3055	31 ¹ / ₈ × 60	32 ²¹ / ₃₂ × 61 ¹⁷ / ₃₂
P3060	31 ¹ / ₈ × 67 ¹ / ₁₆	32 ²¹ / ₃₂ × 68 ¹⁹ / ₃₂
P3530	36 × 31 ¹ / ₈	37 ¹⁷ / ₃₂ × 32 ²¹ / ₃₂
P3535	36 × 36	37 ¹⁷ / ₃₂ × 37 ¹⁷ / ₃₂
P3540	36 × 43 ³ / ₁₆	37 ¹⁷ / ₃₂ × 44 ²³ / ₃₂
P3545	36 × 48	37 ¹⁷ / ₃₂ × 49 ¹⁷ / ₃₂
P3550	36 × 55 ¹ / ₁₆	37 ¹⁷ / ₃₂ × 56 ¹⁹ / ₃₂
P3555	36 × 60	37 ¹⁷ / ₃₂ × 61 ¹⁷ / ₃₂
P3560	36 × 67 ¹ / ₁₆	37 ¹⁷ / ₃₂ × 68 ¹⁹ / ₃₂
P4030	43 ³ / ₁₆ × 31 ¹ / ₈	44 ²³ / ₃₂ × 32 ²¹ / ₃₂
P4035	43 ³ / ₁₆ × 36	44 ²³ / ₃₂ × 37 ¹⁷ / ₃₂

Insect Screens

Insect Screen - Standard Screens

Insect Screen - Standard Screens							
Note: Use CW35E for CW35 units manufactured since 1995.							
Unit No.	Dimensions (w x h)	Stone	White	Unit No.	Dimensions (w x h)	Stone	White
CR2	13 ⁹ / ₁₆ × 19 ²¹ / ₃₂	1344006	1345022	C6	20 ¹¹ / ₁₆ × 67 ¹³ / ₃₂	1344024	1345020
CR25	13 ⁹ / ₁₆ × 23 ²⁹ / ₃₂	1344084	1344080	CW2	24 ¹⁵ / ₁₆ × 19 ¹⁹ / ₃₂	1344007	1345050
CR3	13 ⁹ / ₁₆ × 31 ¹⁵ / ₃₂	1344025	1345024	CW25	24 ¹⁵ / ₁₆ × 23 ²⁹ / ₃₂	1344087	1344083
CR35	13 ⁹ / ₁₆ × 36 ¹¹ / ₃₂	1344009	1345026	CW3	24 ¹⁵ / ₁₆ × 31 ¹⁵ / ₃₂	1344029	1345052
CR4	13 ⁹ / ₁₆ × 43 ¹⁷ / ₃₂	1344026	1345028	CW35	24 ¹⁵ / ₁₆ × 36 ¹¹ / ₃₂	1344030	1345054
CR45	13 ⁹ / ₁₆ × 48 ¹¹ / ₃₂	1344017	1345029	CW35E	24 ¹⁵ / ₁₆ × 36 ³⁵ / ₆₄	1344074	1345075
CR5	13 ⁹ / ₁₆ × 55 ¹³ / ₃₂	1344027	1345030	CW4	24 ¹⁵ / ₁₆ × 43 ¹⁷ / ₃₂	1344034	1345056
CR55	13 ⁹ / ₁₆ × 60 ¹¹ / ₃₂	1344021	1345031	CW45	24 ¹⁵ / ₁₆ × 48 ¹¹ / ₃₂	1344035	1345058
CR6	13 ⁹ / ₁₆ × 67 ¹³ / ₃₂	1344022	1345032	CW5	24 ¹⁵ / ₁₆ × 55 ¹³ / ₃₂	1344036	1345060
CN2	17 ¹ / ₁₆ × 19 ²¹ / ₃₂	1344002	1345034	CW55	24 ¹⁵ / ₁₆ × 60 ¹¹ / ₃₂	1344037	1345062
CN25	17 ¹ / ₁₆ × 23 ²⁹ / ₃₂	1344085	1344081	CW6	24 ¹⁵ / ₁₆ × 67 ¹³ / ₃₂	1344038	1345064
CN3	17 ¹ / ₁₆ × 31 ¹⁵ / ₃₂	1344040	1345036	CX25	28 ¹ / ₁₆ × 23 ²⁹ / ₃₂	1398401	1398409
CN35	17 ¹ / ₁₆ × 36 ¹¹ / ₃₂	1344028	1345038	CX3	28 ¹ / ₁₆ × 31 ¹⁵ / ₃₂	1398402	1398410
CN4	17 ¹ / ₁₆ × 43 ¹⁷ / ₃₂	1344042	1345041	CX35	28 ¹ / ₁₆ × 36 ¹¹ / ₃₂	1398403	1398411
CN45	17 ¹ / ₁₆ × 48 ¹¹ / ₃₂	1344043	1345042	CX4	28 ¹ / ₁₆ × 43 ¹⁷ / ₃₂	1398404	1398412
CN5	17 ¹ / ₁₆ × 55 ¹³ / ₃₂	1344044	1345044	CX45	28 ¹ / ₁₆ × 48 ¹¹ / ₃₂	1398405	1398413
CN55	17 ¹ / ₁₆ × 60 ¹¹ / ₃₂	1344045	1345046	CX5	28 ¹ / ₁₆ × 55 ¹³ / ₃₂	1398406	1398414
CN6	17 ¹ / ₁₆ × 67 ¹³ / ₃₂	1344046	1345048	CX55	28 ¹ / ₁₆ × 60 ¹¹ / ₃₂	1398407	1398415
C2	20 ¹¹ / ₁₆ × 19 ²¹ / ₃₂	1344004	1345006	CX6	28 ¹ / ₁₆ × 67 ¹³ / ₃₂	1398408	1398416
C25	20 ¹¹ / ₁₆ × 23 ²⁹ / ₃₂	1344086	1344082	CXW3	32 ¹ / ₂ × 31 ¹⁵ / ₃₂	1344064	1345065
C3	20 ¹¹ / ₁₆ × 31 ¹⁵ / ₃₂	1344008	1345008	CXW35	32 ¹ / ₂ × 36 ¹¹ / ₃₂	1344065	1345066
C35	20 ¹¹ / ₁₆ × 36 ¹¹ / ₃₂	1344012	1345040	CXW4	32 ¹ / ₂ × 43 ¹⁷ / ₃₂	1344066	1345067
C4	20 ¹¹ / ₁₆ × 43 ¹⁷ / ₃₂	1344016	1345012	CXW45	32 ¹ / ₂ × 48 ¹¹ / ₃₂	1344067	1345068
C45	20 ¹¹ / ₁₆ × 48 ¹¹ / ₃₂	1344048	1345014	CXW5	32 ¹ / ₂ × 55 ¹³ / ₃₂	1344068	1345069
C5	20 ¹¹ / ₁₆ × 55 ¹³ / ₃₂	1344020	1345016	CXW55	32 ¹ / ₂ × 60 ¹¹ / ₃₂	1344069	1345070
C55	20 ¹¹ / ₁₆ × 60 ¹¹ / ₃₂	1344050	1345018	CXW6	32 ¹ / ₂ × 67 ¹³ / ₃₂	1344070	1345071