

ANDERSEN®
WINDOWS & DOORS

Scale $\frac{1}{8}"$ (3) = 1'-0" (305) – 1:96

* Window Dimension always refers to outside frame-to-frame dimension.
*** Minimum Rough Opening dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
 * Dimensions in parentheses are in millimeters.
 † Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610) with appropriate hinge specified.
 * Meets clear opening width of 20" (508) using hinge with wash mode and control bracket (bracket can be pivoted for cleaning position) and meets clear opening width of 22" (559) using hinge for widest clear opening.
 ** Available with straight-arm operators (hinged for widest clear opening) only.

400 SERIES CASEMENT & AWNING WINDOWS

Table of Sizes for Awning Windows

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-0 1/8"	2'-4 3/8"	2'-7 1/2"	2'-11 15/16"	3'-4 13/16"	4'-0"	4'-4 13/16"	4'-11 7/8"	5'-4 13/16"	5'-11 7/8"
Minimum Rough Opening	2'-0 5/8" (625)	2'-4 7/8" (733)	2'-8" (813)	3'-0 1/2" (927)	3'-5 3/8" (1051)	4'-0 1/2" (1232)	4'-5 3/8" (1356)	5'-0 3/8" (1534)	5'-5 3/8" (1660)	6'-0 3/8" (1832)
Unobstructed Glass (single sash only)	19 5/16" (491)	23 9/16" (598)	26 11/16" (678)	31 1/8" (791)	36" (914)	43 3/16" (1097)	48" (1219)	55 1/16" (1399)	60" (1524)	67 1/16" (1703)

continued on next page

CUSTOM WIDTHS – 24 1/8" to 71 7/8"										
CUSTOM HEIGHTS – 17" to 35 15/16"										
1'-5"	AR21	AR251	AR281	AR31	AR351	AR41	AR451	AR51	AR551	AR61
1'-8 1/2"	AN21	AN251	AN281	AN31	AN351	AN41	AN451	AN51	AN551	AN61
2'-0 1/8"	A21	A251	A281	A31	A351	A41	A451	A51	A551	A61
2'-4 3/8"	AW21	AW251	AW281	AW31	AW351	AW41	AW451	AW51	AW551	AW61
2'-7 1/2"	AX21	AX251	AX281	AX31	AX351	AX41	AX451	AX51	AX551	AX61
2'-11 15/16"										
3'-0 1/2"										
3'-4 3/4"										
3'-5 1/4"										
3'-6 3/8"										
3'-7 7/8"										
3'-8 7/8"										
3'-9 1/16"										
3'-10 1/2"										
3'-11 15/16"										
4'-0"										
4'-0 1/2"										
4'-1 5/8"										
4'-2 3/4"										
4'-3 1/2"										
4'-4 1/4"										
4'-5 1/8"										
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4'-194 1/4"										
4'-1										

Window Dimension	2'-0 1/8"	2'-11 15/16"	2'-11 15/16"	3'-4 13/16"	4'-0"	2'-0 1/8"	2'-11 15/16"
Minimum Rough Opening	2'-0 5/8" (625)	3'-0 1/2" (927)	3'-0 1/2" (927)	3'-5 3/8" (1051)	4'-0 1/2" (1232)	2'-0 5/8" (625)	3'-0 1/2" (927)

4'-0"	A212 (A21/A21)	A312 (A31/A31)	PA3050 (AXW31/A31)	PA3550 (AXW351/A351)		
4'-11 13/16"			PA3060 (AP32V/A31)	PA3560 (AP352V/A351)	PA4060 (AP42V/A41)	A213 (A21/A21/A21)
						A313 (A31/A31/A31)
5'-11 5/8"	AXW312 (AXW31/AXW31)					
6'-0 1/8"						
5'-11 7/8"						

* Window Dimension always refers to outside frame-to-frame dimension.

* Minimum Rough Opening dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.

* Dimensions in parentheses are in millimeters.

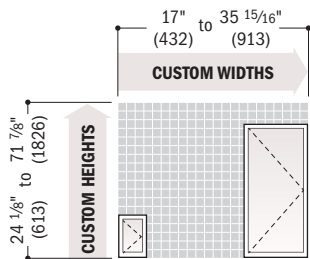
* Clear opening area of 5.7 sq. ft. or 0.53 m², and clear opening height of 26 1/2" (673) can be obtained by detaching operator from sash.

Custom Sizes and Specification Formulas



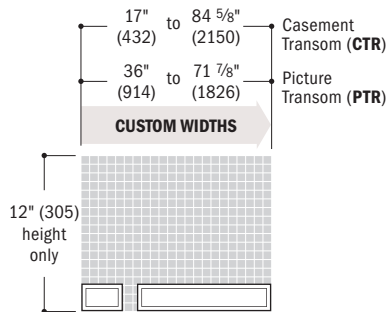
Available in $\frac{1}{8}$ " (3) increments between minimum and maximum widths and heights. Windows can also be custom sized to match standard sizes ending in $\frac{1}{16}$ " (1.5). Some restrictions apply; contact your Andersen supplier. Custom sizing is available for single windows only. To achieve custom-size 2- or 3-wide combinations, join custom-size single windows. For minimum rough opening dimensions for joined windows, see specific joining instruction guides. Measurement guide for custom-size windows can be found at andersenwindows.com/measure.

Casement Windows (stationary and venting)



Clear Opening 	Width = window width – 5.81" (148) = (window width – 9.66" (245)) x 1.07 = window width – 9.70" (246) Height = window height – 4.43" (113) = window height – 4.85" (123)	Width ≥ 24 $\frac{1}{8}$ " (613) (<i>hinge for widest clear opening</i>) Width ≥ 28 $\frac{3}{8}$ " (721) (<i>hinge with wash mode and control bracket</i>) Width ≥ 17" (432) (<i>hinge with wash mode</i>) Height ≥ 40 $\frac{13}{16}$ " (1037) and < 48" (1219); Width ≥ 28 $\frac{3}{8}$ " (721) and < 31 $\frac{1}{2}$ " (800) All other window heights	Min. R.O. 	Width = window width + $\frac{1}{2}$ " (13) Height = window height + $\frac{1}{2}$ " (13)
Vent Opening 	Width = window width – 5.81" (148) = window width – 6.10" (155) Height = window height – 4.43" (113) = window height – 4.85" (123)	Width ≥ 24 $\frac{1}{8}$ " (613) (<i>hinge for widest clear opening</i>) Width ≥ 17" (432) (<i>hinge with wash mode</i>) Height ≥ 40 $\frac{13}{16}$ " (1037) and < 48" (1219); Width ≥ 28 $\frac{3}{8}$ " (721) and < 31 $\frac{1}{2}$ " (800) All other window heights	Unobst. Gls. 	Width = window width – 4.40" (112) Height = window height – 4.95" (126)

Casement/Awning Transom Windows



Min. R.O. 	Width = window width – $\frac{1}{2}$ " (13) Height = window height – $\frac{1}{2}$ " (13)
Unobst. Gls. 	Width = window width – 4.80" (122) Height = window height – 4.80" (122)

* **Clear Opening** formulas provide dimensions for determining area available for egress. **Vent Opening** formulas provide dimensions for determining area available for passage of air. **Min. R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Gls.** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

* Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for custom-size windows.

* Dimensions in parentheses are in millimeters.