

	Pella® Architect Series®	Pella® Designer Series®	Pella® ProLine	Pella® Impervia®	Pella® 350 Series	Encompass by Pella®
<b>Sizes<sup>1</sup></b>						
<b>Double-hung window</b>						
Width – Minimum	1'1-3/4" (349)	1'1-3/4" (349)	1'1-3/4" (349)	1'6" (457)	1'3"	1'3" <sup>2</sup>
Width – Maximum	5'0" (1524)	5'0" (1524)	5'0" (1524)	4'0" (1219)	4'6½"	4'0"
Height – Minimum	2'4" (711)	2'4" (711)	2'4" (711)	2'6" (762)	2'0"	2'0"
Height – Maximum	10'0" (3048)	10'0" (3048)	10'0" (3048)	6'6" (1981)	6'6½" <sup>3</sup>	6'0"
<b>Single-hung window</b>						
Width – Minimum	n/a	n/a	n/a	1'6" (457)	1'3"	1'3"
Width – Maximum	n/a	n/a	n/a	4'0" (1219)	4'6½"	4'0"
Height – Minimum	n/a	n/a	n/a	2'0" (610)	2'0"	2'0"
Height – Maximum	n/a	n/a	n/a	7'0" (2137)	8'0½" <sup>3</sup>	7'0"
<b>Casement window</b>						
Width – Minimum	1'5" (432)	1'5" (432)	1'5" (432)	1'5½" (445)	1'2"	1'3"
Width – Maximum	2'11" (889)	2'11" (889)	2'11" (889)	3'2" (965)	3'0"	3'0"
Height – Minimum	1'5" (432)	1'5" (432)	1'5" (432)	1'7½" (495)	1'6" <sup>4</sup>	1'6" <sup>5</sup>
Height – Maximum	6'1" (1854)	6'1" (1854)	6'1" (1854)	6'8" (2032)	6'0" <sup>4</sup>	6'0" <sup>5</sup>
<b>Awning window</b>						
Width – Minimum	1'5" (432)	1'5" (432)	1'5" (432)	1'8½" (521)	1'6"	1'8"
Width – Maximum	4'11" (1499)	4'11" (1499)	4'11" (1499)	5'0" (1524)	5'0"	5'0"
Height – Minimum	1'5" (432)	1'5" (432)	1'5" (432)	1'5½" (445)	1'3"	1'3"
Height – Maximum	4'11" (1499)	4'11" (1499)	4'11" (1499)	5'0" (1524)	3'0"	3'0"
<b>Sliding window 2-panel</b>						
Width – Minimum	n/a	n/a	n/a	2'0" (610)	1'10"	1'10"
Width – Maximum	n/a	n/a	n/a	6'0" (1816)	6'4½"	6'2"
Height – Minimum	n/a	n/a	n/a	1'0" (305)	1'0" (305)	1'3"
Height – Maximum	n/a	n/a	n/a	6'0" (1816)	6'0½"	5'0"
<b>Sliding window 3-panel</b>						
Width – Minimum	n/a	n/a	n/a	4'0" (1219)	4'0" (1219)	n/a
Width – Maximum	n/a	n/a	n/a	9'0" (2743)	9'6½"	n/a
Height – Minimum	n/a	n/a	n/a	1'6" (457)	1'0"	n/a
Height – Maximum	n/a	n/a	n/a	6'0" (1816)	6'0½"	n/a
<b>Fixed Frame - Nonoperable companion unit</b>						
<b>Rectilinear/angled (maximum of 50 sq. ft.6)</b>						
Width – Minimum	8" (203)	8" (203)	8" (203)	n/a	n/a	n/a
Width – Maximum <sup>7</sup>	10'0" (3048)	10'0" (3048)	10'0" (3048)	n/a	n/a	n/a
Height – Minimum	8" (203)	8" (203)	8" (203)	n/a	n/a	n/a
Height – Maximum	10'0" (3048)	10'0" (3048)	10'0" (3048)	n/a	n/a	n/a
<b>Curve-top<sup>8</sup></b>						
Width – Minimum	1'0" (305)	1'0" (305)	1'0" (305)	n/a	n/a	n/a
Width – Maximum	9'0" (2743)	9'0" (2743)	9'0" (2743)	n/a	n/a	n/a
Height – Minimum	10 1/2" (267)	10 1/2" (267)	10 1/2" (267)	n/a	n/a	n/a
Height – Maximum	8'0" (2438)	8'0" (2438)	8'0" (2438)	n/a	n/a	n/a
<b>Fixed window (sash and frame)</b>						
Width – Minimum	n/a	n/a	n/a	1'2" (356)	n/a	n/a
Width – Maximum	n/a	n/a	n/a	6'0" (1816)	n/a	n/a
Height – Minimum	n/a	n/a	n/a	1'2" (356)	n/a	n/a
Height – Maximum	n/a	n/a	n/a	6'0" (1816)	n/a	n/a
<b>Fixed frame (frame only)<sup>9</sup></b>						
Width – Minimum	n/a	n/a	n/a	1'0" (305) <sup>10</sup>	1'0" (305)	1'0" (305)
Width – Maximum	n/a	n/a	n/a	9'4" (2845) <sup>10</sup>	9'4½"	9'0"
Height – Minimum	n/a	n/a	n/a	1'0" (305) <sup>10</sup>	1'0" (305)	1'0" (305)
Height – Maximum	n/a	n/a	n/a	9'4" (2845) <sup>10</sup>	8'0½" <sup>11</sup>	9'0" <sup>11</sup>
<b>Pella fiberglass-resin (non-Duracast® material) Special Shane fixed frame<sup>12</sup></b>						
Width – Minimum	n/a	n/a	n/a	1'0" (305)	n/a	n/a
Width – Maximum	n/a	n/a	n/a	9'0" (2743)	n/a	n/a
Height – Minimum	n/a	n/a	n/a	1'0" (305)	n/a	n/a
Height – Maximum	n/a	n/a	n/a	9'0" (2743)	n/a	n/a

- 1 Pella wood-clad window frame dimensions shown. Opening = Frame + 3/4". NOTE: Larger sizes may be available on a custom basis.
- 1 Impervia window opening dimensions shown. Frame = Opening – 1/2". Special sizes available in 1/4" increments.
- 1 Pella 350 Window Opening dimensions shown. Frame = Opening – 1/2".
- 1 Encompass by Pella window opening dimensions shown. Frame = Opening – 1/2".
- 2 Pella 350 Double-Hung and Single-Hung window height limitations may vary based on Equal, Cottage or Contemporary vent.
- 3 See your Pella commercial representative for Encompass by Pella double-hung window availability.
- 4 Pella 350 Casement window unit height must be greater than or equal to unit width.
- 5 For Encompass by Pella casement windows, if opening width is greater than 2'6", opening height must be less than 5'0".
- 6 Maximum of 38 sq. ft. for fixed frames with removable exterior glass stops.
- 7 Maximum of 8'0" for fixed frames with removable exterior glass stops.
- 8 Maximum area of 38 sq. ft. for all curve-top units except for half circle and full arch head units, where the maximum area is 50 sq. ft. (when measured as a rectangle).  
NOTE: Larger sizes may be available on custom basis.
- 9 Size range varies by shape. Reference the Pella Architectural Design Manual for size range.
- 10 Impervia fixed frame window maximum frame area of 50 sq. ft.
- 11 Pella 350 and Encompass by Pella Fixed Frame window maximum frame area of 40 sq. ft.
- 12 Size range varies by shape. Reference the Pella Architectural Design Manual for size range. Maximum frame area of 36 sq. ft.

<b>Window Performance<sup>1,2</sup></b>						
NFRC U-Factor total unit	0.25 – 0.57	0.23 – 0.51	0.26 – 0.52	0.26 – 0.36	0.15 – 0.30	0.26 – 0.31
Design pressure (psf)	30 – 75	30 – 70	30 – 50	30 – 50	25 – 75	20 – 55
Structural test pressure (psf)	30 – 135	30 – 135	30 – 135	30 - 157.5	30 - 157.5	30 - 157.5
Water penetration	NONE @ 6 – 15 psf	NONE @ 7.5 – 15 psf	NONE @ 4.5 – 15 psf	NONE @ 4.5 – 7.5 psf	3.76 - 9.0 psf	3.0 - 7.5 psf
Air infiltration (@ 1.57 psf)	0.05 – 0.30 cfm	0.05 – 0.30 cfm	0.05 – 0.30 cfm	0.05 – 0.30 cfm	0.05 – 0.30 cfm	.06 - .30 cfm

- 1 Enhanced performance is available with Pella's line of Advanced Performance products. Ask your local Pella commercial representative for more information.
- 2 Performance values apply to single units only with appropriate glass options and not the combined or composite units.
- 3 Based on a range between 3mm, standard performance dual-pane and triple-pane Advanced Low-E insulating glass with argon. Range includes with and without grilles and with and without foam insulation.
- 4 Encompass by Pella 3 Winter U-Factor based on Advanced Low-E insulating glass with argon.
- 5 Based on a range between standard performance and the performance upgrade option or range of standard and impact as it relates to patio doors. Size limitations, frame types and configurations do apply for some performance levels.

<b>Center Glass Performance<sup>1</sup></b>						
Winter NFRC U-Factor	0.20 – 0.51	0.15 – 0.50	0.20 – 0.51	0.24 – 0.49	0.13 – 0.25	0.24 – 0.48
Solar heat gain coefficient	0.26 – 0.79	0.24 – 0.78	0.26 – 0.79	0.27 – 0.78	0.25 – 0.37	0.27 – 0.78
Shading coefficient	0.30 – 0.91	0.28 – 0.91	0.30 – 0.91	0.30 - 0.91	0.28 - 0.78	0.31 - 0.88
% UV transmission	4 – 62	4 – 61	4 – 62	5 – 58	<1 – 16	5 – 58
LBL fading damage <sup>2</sup>	0.18 – 0.64	0.14 – 0.65	0.18 – 0.64	0.18 - 0.64	0.18 - 0.41	0.21 - 0.59
% visible light transmission	40 – 83	32 – 82	60 – 83	65 – 82	40 – 70	52 – 82

- 1 Performance numbers based on standard glass options.
- 2 Developed by Lawrence Berkeley Laboratories, the LBL damage function is a better predictor of fading damage than UV transmission. Lower values indicate less fading potential. (NOTE: This value does not consider visible light.)

<b>Sound Transmission Performance*</b>						
STC rating	26 – 36	30 – 33	25	24 – 28	27 - 33	25 - 27
OITC rating	22 – 32	23 – 27	22	21 – 24	22 - 28	20 - 23

\* Performance numbers based on standard glass options.