

# 100 SERIES DOUBLE-HUNG WINDOWS

## SPECIFICATION GUIDE FOR PROFESSIONALS

100 Series double-hung windows are available at select locations in Alabama, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Massachusetts, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia and Wisconsin.

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For warranty information, visit [andersenwindows.com/warranty](https://andersenwindows.com/warranty).

Visit [andersenwindows.com/100seriesdouble-hung](https://andersenwindows.com/100seriesdouble-hung) for more information on 100 Series double-hung windows. See the 100 Series Product Guide for Professionals, at [andersenwindows.com/productguides](https://andersenwindows.com/productguides), for features, options and accessories for 100 Series windows and patio door products.

# 100 SERIES DOUBLE-HUNG WINDOWS



## Table of Sizes for Double-Hung Windows

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
	(445)	(597)	(749)	(902)	(1054)	(1207)
<b>Minimum Rough Opening</b>	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	(457)	(610)	(762)	(914)	(1067)	(1219)
Unobstructed Glass (height of single sash)	11 1/4"	17 1/4"	23 1/4"	29 1/4"	35 1/4"	41 1/4"
	(286)	(438)	(591)	(743)	(895)	(1048)

Window Dimension	CUSTOM WIDTHS AVAILABLE					
	1620	2020	2620	3020	3620	4020
1'-11 1/2"						
2'-5 1/2"						
2'-11 1/2"						
3'-5 1/2"						
3'-11 1/2"						
4'-5 1/2"						
4'-11 1/2"						
5'-5 1/2"						
5'-11 1/2"						
6'-5 1/2"						



Custom-size windows are available in 1/8" (3) increments. See the next page for custom sizes and specifications.

**Two locks are standard for 36XX and 40XX widths.**  
Two locks are optional for 20XX, 26XX and 30XX widths.

Grille patterns shown on page 2.  
Details shown on pages 10-11.

Double-Hung Windows

- 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.
- Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide. Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.
- ♦ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>; clear opening width of 20" (508) and clear opening height of 24" (610).
- ◆ Windows with tempered glass may have limited sash travel.

continued on next page

## Table of Double-Hung Window Sizes (continued)

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)
<b>Minimum Rough Opening</b>	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)
Unobstructed Glass	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)

CUSTOM WIDTHS AVAILABLE	
6'-11 1/2" (2121)	7'-0" (2134)
7'-5 1/2" (2273)	7'-6" (2286)

CUSTOM HEIGHTS AVAILABLE	
1670	2070
1676	2076 <sup>o</sup>
2670 <sup>o</sup>	3070 <sup>o</sup>
2676 <sup>o</sup>	3076 <sup>o</sup>



Custom-size windows are available in 1/8" (3) increments.

See the below for custom sizes and specifications.

**Two locks are standard for 36XX and 40XX widths.**

Two locks are optional for 20XX, 26XX and 30XX widths.

Grille patterns shown below.

Details shown on pages 10-11.

- 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.
- Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide. Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.
- ◊ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>, clear opening width of 20" (508) and clear opening height of 24" (610).

Double-Hung Windows

## Grilles

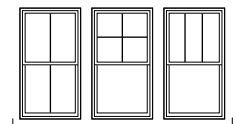
### Finelight™ Grilles-Between-the-Glass

Installed between the glass panes and feature a contoured profile in a 3/4" (19) width.

### Grille Patterns

	Prairie A	Colonial	Short Fractional
<b>Double-Hung</b>			

Double-hung window patterns are also available in Upper Sash Only (USO) configurations. **Number of lights and overall pattern varies with window size. Patterns may not be available in all configurations or sizes.** Specified equal light patterns are also available. For specified equal light, specify number of same-size rectangles across or down. For more grille options, visit [andersenwindows.com/grilles](http://andersenwindows.com/grilles).



Specified Equal Light Examples

# 100 SERIES DOUBLE-HUNG WINDOWS



## Table of Sizes for Double-Hung Windows With 2:3 Cottage Sash Ratio

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-3 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
	(445)	(597)	(749)	(902)	(1054)	(1207)
<b>Minimum Rough Opening</b>	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	(457)	(610)	(762)	(914)	(1067)	(1219)
Unobstructed Glass	11 1/4"	17 1/4"	23 1/4"	29 1/4"	35 1/4"	41 1/4"
	(286)	(438)	(591)	(743)	(895)	(1048)

Window Dimension	CUSTOM WIDTHS AVAILABLE					
	1626	2026	2626	3026	3626	4026
2'-5 1/2"						
2'-11 1/2"						
3'-5 1/2"						
3'-11 1/2"						
4'-5 1/2"						
4'-11 1/2"						
5'-5 1/2"						
5'-11 1/2"						



Custom-size windows are available in 1/8" (3) increments. See the next page for custom sizes and specifications.

**Two locks are standard for 36XX and 40XX widths.**

Two locks are optional for 20XX, 26XX and 30XX widths.

Grille patterns shown on page 2.

Details shown on pages 10-11.

Double-Hung Windows

- 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.
- Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide. Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.
- ◊ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>, clear opening width of 20" (508) and clear opening height of 24" (610).

# 100 SERIES DOUBLE-HUNG WINDOWS



## Table of Sizes for Double-Hung Windows With 3:2 Reverse Cottage Sash Ratio

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
	(445)	(597)	(749)	(902)	(1054)	(1207)
<b>Minimum Rough Opening</b>	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	(457)	(610)	(762)	(914)	(1067)	(1219)
Unobstructed Glass	11 1/4"	17 1/4"	23 1/4"	29 1/4"	35 1/4"	41 1/4"
	(286)	(438)	(591)	(743)	(895)	(1048)

CUSTOM HEIGHTS AVAILABLE	CUSTOM WIDTHS AVAILABLE						
	16XX	20XX	26XX	30XX	36XX	40XX	
2'-5 1/2"	(749)	2'-6"	(762)	12 7/8"	(328)	8 1/4"	(209)
2'-11 1/2"	(902)	3'-0"	(914)	16 1/2"	(419)	10 5/8"	(270)
3'-5 1/2"	(1054)	3'-6"	(1067)	20 1/8"	(511)	13"	(331)
3'-11 1/2"	(1207)	4'-0"	(1219)	23 11/16"	(602)	15 7/16"	(392)
4'-5 1/2"	(1359)	4'-6"	(1372)	27 5/16"	(693)	17 13/16"	(453)
4'-11 1/2"	(1511)	5'-0"	(1524)	30 7/8"	(785)	20 1/4"	(514)
5'-5 1/2"	(1664)	5'-6"	(1676)	34 1/2"	(876)	22 5/8"	(575)
5'-11 1/2"	(1816)	6'-0"	(1829)	38 1/8"	(968)	25"	(636)



Custom-size windows are available in 1/8" (3) increments. See the next page for custom sizes and specifications.

**Two locks are standard for 36XX and 40XX widths.**  
Two locks are optional for 20XX, 26XX and 30XX widths.

Grille patterns shown on page 2.  
Details shown on pages 10-11.

Double-Hung Windows

- 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.
- Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide. Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.
- ◊ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>, clear opening width of 20" (508) and clear opening height of 24" (610).

# 100 SERIES DOUBLE-HUNG WINDOWS



## Opening and Area Specifications for Double-Hung Windows

Window Number	Clear Opening Area Sq. Ft./ (m <sup>2</sup> )	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m <sup>2</sup> )	Vent Area Sq. Ft./ (m <sup>2</sup> )	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m <sup>2</sup> )
		Width Inches/ (mm)	Height Inches/ (mm)				
1620	0.78 (0.07)	14" (356)	8 1/16" (204)	1.18 (0.11)	0.81 (0.08)	60 1/2" (1537)	2.86 (0.27)
1626	1.07 (0.10)	14" (356)	11 1/16" (280)	1.65 (0.15)	1.10 (0.10)	54 1/2" (1384)	3.59 (0.33)
1630	1.36 (0.13)	14" (356)	14 1/16" (357)	2.12 (0.20)	1.39 (0.13)	48 1/2" (1232)	4.31 (0.40)
1636	1.65 (0.15)	14" (356)	17 1/16" (433)	2.59 (0.24)	1.68 (0.16)	42 1/2" (1080)	5.04 (0.47)
1640	1.94 (0.18)	14" (356)	20 1/16" (509)	3.05 (0.28)	1.98 (0.18)	36 1/2" (927)	5.77 (0.54)
1646	2.24 (0.21)	14" (356)	23 1/16" (585)	3.52 (0.33)	2.27 (0.21)	30 1/2" (775)	6.50 (0.60)
1650	2.53 (0.23)	14" (356)	26 1/16" (661)	3.99 (0.37)	2.56 (0.24)	24 1/2" (622)	7.23 (0.67)
1656	2.82 (0.26)	14" (356)	29 1/16" (738)	4.46 (0.41)	2.85 (0.27)	18 1/2" (470)	7.96 (0.74)
1660	3.11 (0.29)	14" (356)	32 1/16" (814)	4.93 (0.46)	3.15 (0.29)	12 1/2" (318)	8.69 (0.81)
1666	3.41 (0.32)	14" (356)	35 1/16" (890)	5.40 (0.50)	3.44 (0.32)	6 1/2" (165)	9.42 (0.88)
1670	3.70 (0.34)	14" (356)	38 1/16" (967)	6.64 (0.62)	3.73 (0.35)	14" (356)	10.50 (0.98)
1676	3.99 (0.37)	14" (356)	41 1/16" (1043)	7.15 (0.66)	4.02 (0.37)	8" (203)	11.25 (1.05)
2020	1.11 (0.10)	20" (508)	8 1/16" (204)	1.81 (0.17)	1.15 (0.11)	60 1/2" (1537)	3.84 (0.36)
2026	1.52 (0.14)	20" (508)	11 1/16" (280)	2.53 (0.23)	1.57 (0.15)	54 1/2" (1384)	4.81 (0.45)
2030	1.94 (0.18)	20" (508)	14 1/16" (357)	3.25 (0.30)	1.99 (0.18)	48 1/2" (1232)	5.79 (0.54)
2036	2.36 (0.22)	20" (508)	17 1/16" (433)	3.96 (0.37)	2.40 (0.22)	42 1/2" (1080)	6.77 (0.63)
2040	2.78 (0.26)	20" (508)	20 1/16" (509)	4.68 (0.44)	2.82 (0.26)	36 1/2" (927)	7.75 (0.72)
2046	3.19 (0.30)	20" (508)	23 1/16" (585)	5.40 (0.50)	3.24 (0.30)	30 1/2" (775)	8.73 (0.81)
2050	3.61 (0.34)	20" (508)	26 1/16" (661)	6.12 (0.57)	3.66 (0.34)	24 1/2" (622)	9.71 (0.90)
2056	4.03 (0.37)	20" (508)	29 1/16" (738)	6.84 (0.64)	4.07 (0.38)	18 1/2" (470)	10.69 (0.99)
2060	4.45 (0.41)	20" (508)	32 1/16" (814)	7.56 (0.70)	4.49 (0.42)	12 1/2" (318)	11.67 (1.08)
2066	4.86 (0.45)	20" (508)	35 1/16" (890)	8.28 (0.77)	4.91 (0.46)	6 1/2" (165)	12.65 (1.18)
2070	5.28 (0.49)	20" (508)	38 1/16" (967)	9.86 (0.92)	5.33 (0.50)	14" (356)	14.00 (1.30)
2076◇	5.70 (0.53)	20" (508)	41 1/16" (1043)	10.62 (0.99)	5.74 (0.53)	8" (203)	15.00 (1.39)
2620	1.44 (0.13)	26" (660)	8 1/16" (204)	2.44 (0.23)	1.50 (0.14)	60 1/2" (1537)	4.81 (0.45)
2626	1.98 (0.18)	26" (660)	11 1/16" (280)	3.41 (0.32)	2.04 (0.19)	54 1/2" (1384)	6.04 (0.56)
2630	2.52 (0.23)	26" (660)	14 1/16" (357)	4.37 (0.41)	2.58 (0.24)	48 1/2" (1232)	7.27 (0.68)
2636	3.07 (0.28)	26" (660)	17 1/16" (433)	5.34 (0.50)	3.13 (0.29)	42 1/2" (1080)	8.50 (0.79)
2640	3.61 (0.34)	26" (660)	20 1/16" (509)	6.31 (0.59)	3.67 (0.34)	36 1/2" (927)	9.73 (0.90)
2646	4.15 (0.39)	26" (660)	23 1/16" (585)	7.28 (0.68)	4.21 (0.39)	30 1/2" (775)	10.96 (1.02)
2650	4.69 (0.44)	26" (660)	26 1/16" (661)	8.25 (0.77)	4.75 (0.44)	24 1/2" (622)	12.19 (1.13)
2656	5.23 (0.49)	26" (660)	29 1/16" (738)	9.22 (0.86)	5.29 (0.49)	18 1/2" (470)	13.42 (1.25)
2660◇	5.78 (0.54)	26" (660)	32 1/16" (814)	10.19 (0.95)	5.84 (0.54)	12 1/2" (318)	14.65 (1.36)
2666◇	6.32 (0.59)	26" (660)	35 1/16" (890)	11.16 (1.04)	6.38 (0.59)	6 1/2" (165)	15.88 (1.48)
2670◇	6.86 (0.64)	26" (660)	38 1/16" (967)	13.08 (1.22)	6.92 (0.64)	14" (356)	17.50 (1.63)
2676◇	7.40 (0.69)	26" (660)	41 1/16" (1043)	14.09 (1.31)	7.76 (0.72)	8" (203)	18.75 (1.74)
3020	1.77 (0.16)	32" (813)	8 1/16" (204)	3.07 (0.28)	1.84 (0.17)	60 1/2" (1537)	5.79 (0.54)
3026	2.44 (0.23)	32" (813)	11 1/16" (280)	4.28 (0.40)	2.51 (0.23)	54 1/2" (1384)	7.27 (0.68)
3030	3.11 (0.29)	32" (813)	14 1/16" (357)	5.50 (0.51)	3.18 (0.30)	48 1/2" (1232)	8.75 (0.81)
3036	3.77 (0.35)	32" (813)	17 1/16" (433)	6.72 (0.62)	3.85 (0.36)	42 1/2" (1080)	10.23 (0.95)
3040	4.44 (0.41)	32" (813)	20 1/16" (509)	7.94 (0.74)	4.51 (0.42)	36 1/2" (927)	11.71 (1.09)
3046	5.11 (0.47)	32" (813)	23 1/16" (585)	9.16 (0.85)	5.18 (0.48)	30 1/2" (775)	13.19 (1.23)
3050◇	5.77 (0.54)	32" (813)	26 1/16" (661)	10.38 (0.96)	5.85 (0.54)	24 1/2" (622)	14.67 (1.36)
3056◇	6.44 (0.60)	32" (813)	29 1/16" (738)	11.60 (1.08)	6.51 (0.61)	18 1/2" (470)	16.15 (1.50)
3060◇	7.11 (0.66)	32" (813)	32 1/16" (814)	12.82 (1.19)	7.18 (0.67)	12 1/2" (318)	17.63 (1.64)
3066◇	7.78 (0.72)	32" (813)	35 1/16" (890)	14.03 (1.30)	7.85 (0.73)	6 1/2" (165)	19.11 (1.78)
3070◇	8.44 (0.78)	32" (813)	38 1/16" (967)	15.25 (1.40)	8.52 (0.79)	14" (356)	21.00 (1.95)
3076◇	9.11 (0.85)	32" (813)	41 1/16" (1043)	16.47 (1.50)	9.19 (0.85)	8" (203)	22.50 (2.09)
3620	2.10 (0.20)	38" (965)	8 1/16" (204)	3.69 (0.34)	2.19 (0.20)	60 1/2" (1537)	6.77 (0.63)
3626	2.89 (0.27)	38" (965)	11 1/16" (280)	5.16 (0.48)	2.98 (0.28)	54 1/2" (1384)	8.50 (0.79)
3630	3.69 (0.34)	38" (965)	14 1/16" (357)	6.63 (0.62)	3.77 (0.35)	48 1/2" (1232)	10.23 (0.95)
3636	4.48 (0.42)	38" (965)	17 1/16" (433)	8.10 (0.75)	4.57 (0.42)	42 1/2" (1080)	11.96 (1.11)
3640	5.27 (0.49)	38" (965)	20 1/16" (509)	9.57 (0.89)	5.36 (0.50)	36 1/2" (927)	13.69 (1.27)
3646	6.06 (0.56)	38" (965)	23 1/16" (585)	11.04 (1.03)	6.15 (0.57)	30 1/2" (775)	15.42 (1.43)
3650◇	6.86 (0.64)	38" (965)	26 1/16" (661)	12.51 (1.16)	6.94 (0.64)	24 1/2" (622)	17.15 (1.59)
3656◇	7.65 (0.71)	38" (965)	29 1/16" (738)	13.98 (1.30)	7.73 (0.72)	18 1/2" (470)	18.88 (1.75)
3660◇	8.44 (0.78)	38" (965)	32 1/16" (814)	15.44 (1.43)	8.53 (0.79)	12 1/2" (318)	20.61 (1.91)
3666◇	9.23 (0.86)	38" (965)	35 1/16" (890)	16.91 (1.57)	9.32 (0.87)	6 1/2" (165)	22.34 (2.08)
4020	2.43 (0.23)	44" (1118)	8 1/16" (204)	4.32 (0.40)	2.53 (0.24)	60 1/2" (1537)	7.75 (0.72)

\* Top of Subfloor to Top of Inside Sill Stop is calculated based upon a structural header height of 6'-10 1/2" (2096) except for XX70 and XX76 heights which are calculated using a header height of 8'-0" (2438).

• Dimensions in parentheses are in millimeters or square meters.

• **Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide.** Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.

◇ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>, clear opening width of 20" (508) and clear opening height of 24" (610).

◆ Windows with tempered glass may have limited sash travel.

continued on next page

# 100 SERIES DOUBLE-HUNG WINDOWS



## Opening and Area Specifications for Double-Hung Windows (continued)

Window Number	Clear Opening Area Sq. Ft./ (m <sup>2</sup> )		Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m <sup>2</sup> )	Vent Area Sq. Ft./ (m <sup>2</sup> )	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m <sup>2</sup> )						
			Width Inches/(mm)	Height Inches/(mm)										
4026	3.35	(0.31)	44"	(1118)	11 1/16"	(280)	6.04	(0.56)	3.45	(0.32)	54 1/2"	(1384)	9.73	(0.90)
4030	4.27	(0.40)	44"	(1118)	14 1/16"	(357)	7.76	(0.72)	4.37	(0.41)	48 1/2"	(1232)	11.71	(1.09)
4036	5.19	(0.48)	44"	(1118)	17 1/16"	(433)	9.48	(0.88)	5.29	(0.49)	42 1/2"	(1080)	13.69	(1.27)
4040	6.10	(0.57)	44"	(1118)	20 1/16"	(509)	11.20	(1.04)	6.20	(0.58)	36 1/2"	(927)	15.67	(1.46)
4046	7.02	(0.65)	44"	(1118)	23 1/16"	(585)	12.92	(1.20)	7.12	(0.66)	30 1/2"	(775)	17.65	(1.64)
4050	7.94	(0.74)	44"	(1118)	26 1/16"	(661)	14.64	(1.36)	8.04	(0.75)	24 1/2"	(622)	19.63	(1.82)
4056	8.85	(0.82)	44"	(1118)	29 1/16"	(738)	16.35	(1.52)	8.96	(0.83)	18 1/2"	(470)	21.61	(2.01)
4060	9.77	(0.91)	44"	(1118)	32 1/16"	(814)	18.07	(1.68)	9.87	(0.92)	12 1/2"	(318)	23.59	(2.19)
4066	10.69	(0.99)	44"	(1118)	35 1/16"	(890)	19.79	(1.84)	10.79	(1.00)	6 1/2"	(165)	25.56	(2.38)

\* Top of Subfloor to Top of Inside Sill Stop is calculated based upon a structural header height of 6'-10 1/2" (2096) except for XX70 and XX76 heights which are calculated using a header height of 8'-0" (2438).  
 \* Dimensions in parentheses are in millimeters or square meters.  
 \* Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide. Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.  
 ♦ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>, clear opening width of 20" (508) and clear opening height of 24" (610).  
 ♦ Windows with tempered glass may have limited sash travel.

## Opening and Area Specifications for Double-Hung Windows With 2:3 Cottage Sash Ratio

Window Number	Clear Opening Area Sq. Ft./ (m <sup>2</sup> )		Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m <sup>2</sup> )	Vent Area Sq. Ft./ (m <sup>2</sup> )	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m <sup>2</sup> )						
			Width Inches/(mm)	Height Inches/(mm)										
1626	0.86	(0.08)	14"	(356)	8 7/8"	(225)	2.00	(0.81)	0.89	(0.92)	54 1/2"	(1384)	3.59	(0.33)
1630	1.10	(0.10)	14"	(356)	11 1/4"	(286)	2.52	(0.77)	1.13	(0.90)	48 1/2"	(1232)	4.31	(0.40)
1636	1.33	(0.12)	14"	(356)	13 5/8"	(347)	3.03	(0.72)	1.36	(0.87)	42 1/2"	(1080)	5.04	(0.47)
1640	1.56	(0.15)	14"	(356)	16 1/16"	(408)	3.55	(0.67)	1.60	(0.85)	36 1/2"	(927)	5.77	(0.54)
1646	1.80	(0.17)	14"	(356)	18 1/8"	(469)	4.06	(0.62)	1.83	(0.83)	30 1/2"	(775)	6.50	(0.60)
1650	2.03	(0.19)	14"	(356)	20 7/8"	(530)	4.58	(0.58)	2.06	(0.81)	24 1/2"	(622)	7.23	(0.67)
1656	2.27	(0.21)	14"	(356)	23 1/4"	(591)	5.09	(0.53)	2.30	(0.79)	18 1/2"	(470)	7.96	(0.74)
1660	2.50	(0.23)	14"	(356)	25 5/8"	(652)	5.61	(0.48)	2.53	(0.76)	12 1/2"	(318)	8.69	(0.81)
2026	1.23	(0.11)	20"	(508)	8 7/8"	(225)	2.97	(0.72)	1.28	(0.88)	54 1/2"	(1384)	4.81	(0.45)
2030	1.57	(0.15)	20"	(508)	11 1/4"	(286)	3.74	(0.65)	1.61	(0.85)	48 1/2"	(1232)	5.79	(0.54)
2036	1.90	(0.18)	20"	(508)	13 5/8"	(347)	4.50	(0.58)	1.94	(0.82)	42 1/2"	(1080)	6.77	(0.63)
2040	2.23	(0.21)	20"	(508)	16 1/16"	(408)	5.27	(0.51)	2.28	(0.79)	36 1/2"	(927)	7.75	(0.72)
2046	2.57	(0.24)	20"	(508)	18 7/8"	(469)	6.03	(0.44)	2.61	(0.76)	30 1/2"	(775)	8.73	(0.81)
2050	2.90	(0.27)	20"	(508)	20 7/8"	(530)	6.80	(0.37)	2.95	(0.73)	24 1/2"	(622)	9.71	(0.90)
2056	3.23	(0.30)	20"	(508)	23 1/4"	(591)	7.56	(0.30)	3.28	(0.70)	18 1/2"	(470)	10.69	(0.99)
2060	3.57	(0.33)	20"	(508)	25 5/8"	(652)	8.33	(0.23)	3.61	(0.66)	12 1/2"	(318)	11.67	(1.08)
2626	1.60	(0.15)	26"	(660)	8 7/8"	(225)	3.94	(0.63)	1.66	(0.85)	54 1/2"	(1384)	6.04	(0.56)
2630	2.03	(0.19)	26"	(660)	11 1/4"	(286)	4.96	(0.54)	2.09	(0.81)	48 1/2"	(1232)	7.27	(0.68)
2636	2.47	(0.23)	26"	(660)	13 5/8"	(347)	5.97	(0.45)	2.53	(0.77)	42 1/2"	(1080)	8.50	(0.79)
2640	2.90	(0.27)	26"	(660)	16 1/16"	(408)	6.99	(0.35)	2.96	(0.72)	36 1/2"	(927)	9.73	(0.90)
2646	3.34	(0.31)	26"	(660)	18 7/8"	(469)	8.00	(0.26)	3.40	(0.68)	30 1/2"	(775)	10.96	(1.02)
2650	3.77	(0.35)	26"	(660)	20 7/8"	(530)	9.02	(0.16)	3.83	(0.64)	24 1/2"	(622)	12.19	(1.13)
2656	4.20	(0.39)	26"	(660)	23 1/4"	(591)	10.03	(0.07)	4.26	(0.60)	18 1/2"	(470)	13.42	(1.25)
2660	4.64	(0.43)	26"	(660)	25 5/8"	(652)	11.05	(0.03)	4.70	(0.56)	12 1/2"	(318)	14.65	(1.36)
3026	1.97	(0.18)	32"	(813)	8 7/8"	(225)	4.92	(0.54)	2.04	(0.81)	54 1/2"	(1384)	7.27	(0.68)
3030	2.50	(0.23)	32"	(813)	11 1/4"	(286)	6.18	(0.43)	2.58	(0.76)	48 1/2"	(1232)	8.75	(0.81)
3036	3.04	(0.28)	32"	(813)	13 5/8"	(347)	7.45	(0.31)	3.11	(0.71)	42 1/2"	(1080)	10.23	(0.95)
3040	3.57	(0.33)	32"	(813)	16 1/16"	(408)	8.71	(0.19)	3.64	(0.66)	36 1/2"	(927)	11.71	(1.09)
3046	4.10	(0.38)	32"	(813)	18 7/8"	(469)	9.98	(0.07)	4.18	(0.61)	30 1/2"	(775)	13.19	(1.23)
3050	4.64	(0.43)	32"	(813)	20 7/8"	(530)	11.24	(0.04)	4.71	(0.56)	24 1/2"	(622)	14.67	(1.36)
3056	5.17	(0.48)	32"	(813)	23 1/4"	(591)	12.51	(0.16)	5.25	(0.51)	18 1/2"	(470)	16.15	(1.50)
3060	5.71	(0.53)	32"	(813)	25 5/8"	(652)	13.77	(0.28)	5.77	(0.46)	12 1/2"	(318)	17.63	(1.64)
3626	2.34	(0.22)	38"	(965)	8 7/8"	(225)	5.89	(0.45)	2.42	(0.77)	54 1/2"	(1384)	8.50	(0.79)
3630	2.97	(0.28)	38"	(965)	11 1/4"	(286)	7.40	(0.31)	3.06	(0.72)	48 1/2"	(1232)	10.23	(0.95)
3636	3.61	(0.33)	38"	(965)	13 5/8"	(347)	8.92	(0.17)	3.69	(0.66)	42 1/2"	(1080)	11.96	(1.11)
3640	4.24	(0.39)	38"	(965)	16 1/16"	(408)	10.43	(0.03)	4.33	(0.60)	36 1/2"	(927)	13.69	(1.27)
3646	4.87	(0.45)	38"	(965)	18 7/8"	(469)	11.95	(0.11)	4.96	(0.54)	30 1/2"	(775)	15.42	(1.43)
3650	5.51	(0.51)	38"	(965)	20 7/8"	(530)	13.46	(0.25)	5.59	(0.48)	24 1/2"	(622)	17.15	(1.59)
3656	6.14	(0.57)	38"	(965)	23 1/4"	(591)	14.98	(0.39)	6.23	(0.42)	18 1/2"	(470)	18.88	(1.75)
4026	2.71	(0.25)	44"	(1118)	8 7/8"	(225)	6.86	(0.36)	2.81	(0.74)	54 1/2"	(1384)	9.73	(0.90)
4030	3.44	(0.32)	44"	(1118)	11 1/4"	(286)	8.62	(0.20)	3.54	(0.67)	48 1/2"	(1232)	11.71	(1.09)
4036	4.17	(0.39)	44"	(1118)	13 5/8"	(347)	10.39	(0.04)	4.27	(0.60)	42 1/2"	(1080)	13.69	(1.27)
4040	4.91	(0.46)	44"	(1118)	16 1/16"	(408)	12.15	(0.13)	5.01	(0.53)	36 1/2"	(927)	15.67	(1.46)
4046	5.64	(0.52)	44"	(1118)	18 7/8"	(469)	13.92	(0.29)	5.74	(0.47)	30 1/2"	(775)	17.65	(1.64)
4050	6.38	(0.59)	44"	(1118)	20 7/8"	(530)	15.68	(0.46)	6.48	(0.40)	24 1/2"	(622)	19.63	(1.82)
4056	7.11	(0.66)	44"	(1118)	23 1/4"	(591)	17.45	(0.62)	7.21	(0.33)	18 1/2"	(470)	21.61	(2.01)

\* Top of Subfloor to Top of Inside Sill Stop is calculated based upon a structural header height of 6'-10 1/2" (2096).  
 \* Dimensions in parentheses are in millimeters or square meters.  
 \* Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide. Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.  
 ♦ Meets or exceeds clear opening area of 5.7 sq. ft. or 0.53 m<sup>2</sup>, clear opening width of 20" (508) and clear opening height of 24" (610).

Double-Hung Windows

## Opening and Area Specifications for Double-Hung Windows With 3:2 Reverse Cottage Sash Ratio

Window Number	Clear Opening Area Sq. Ft./ (m <sup>2</sup> )		Clear Opening in Full Open Position				Glass Area Sq. Ft./ (m <sup>2</sup> )		Vent Area Sq. Ft./ (m <sup>2</sup> )		Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)		Overall Window Area Sq. Ft./ (m <sup>2</sup> )	
			Width Inches/ (mm)		Height Inches/ (mm)									
1626	0.70	(0.06)	14"	(356)	7 1/8"	(181)	2.00	(0.19)	0.62	(0.06)	54 1/2"	(1384)	3.59	(0.33)
1630	0.93	(0.09)	14"	(356)	9 9/16"	(242)	2.52	(0.23)	0.85	(0.08)	48 1/2"	(1232)	4.31	(0.40)
1636	1.16	(0.11)	14"	(356)	11 15/16"	(303)	3.03	(0.28)	1.08	(0.10)	42 1/2"	(1080)	5.04	(0.47)
1640	1.40	(0.13)	14"	(356)	14 5/16"	(364)	3.55	(0.33)	1.32	(0.12)	36 1/2"	(927)	5.77	(0.54)
1646	1.63	(0.15)	14"	(356)	16 3/4"	(425)	4.06	(0.38)	1.55	(0.14)	30 1/2"	(775)	6.50	(0.60)
1650	1.86	(0.17)	14"	(356)	19 1/8"	(486)	4.58	(0.43)	1.79	(0.17)	24 1/2"	(622)	7.23	(0.67)
1656	2.10	(0.19)	14"	(356)	21 9/16"	(547)	5.09	(0.47)	2.02	(0.19)	18 1/2"	(470)	7.96	(0.74)
1660	2.33	(0.22)	14"	(356)	23 15/16"	(608)	5.61	(0.52)	2.25	(0.21)	12 1/2"	(318)	8.69	(0.81)
2026	0.99	(0.09)	20"	(508)	7 1/8"	(181)	2.97	(0.28)	0.88	(0.08)	54 1/2"	(1384)	4.81	(0.45)
2030	1.33	(0.12)	20"	(508)	9 9/16"	(242)	3.74	(0.35)	1.21	(0.11)	48 1/2"	(1232)	5.79	(0.54)
2036	1.66	(0.15)	20"	(508)	11 15/16"	(303)	4.50	(0.42)	1.55	(0.14)	42 1/2"	(1080)	6.77	(0.63)
2040	1.99	(0.19)	20"	(508)	14 5/16"	(364)	5.27	(0.49)	1.88	(0.17)	36 1/2"	(927)	7.75	(0.72)
2046	2.33	(0.22)	20"	(508)	16 3/4"	(425)	6.03	(0.56)	2.22	(0.21)	30 1/2"	(775)	8.73	(0.81)
2050	2.66	(0.25)	20"	(508)	19 1/8"	(486)	6.80	(0.63)	2.55	(0.24)	24 1/2"	(622)	9.71	(0.90)
2056	3.00	(0.28)	20"	(508)	21 9/16"	(547)	7.56	(0.70)	2.88	(0.27)	18 1/2"	(470)	10.69	(0.99)
2060	3.33	(0.31)	20"	(508)	23 15/16"	(608)	8.33	(0.77)	3.22	(0.30)	12 1/2"	(318)	11.67	(1.08)
2626	1.29	(0.12)	26"	(660)	7 1/8"	(181)	3.94	(0.37)	1.14	(0.11)	54 1/2"	(1384)	6.04	(0.56)
2630	1.72	(0.16)	26"	(660)	9 9/16"	(242)	4.96	(0.46)	1.58	(0.15)	48 1/2"	(1232)	7.27	(0.68)
2636	2.16	(0.20)	26"	(660)	11 15/16"	(303)	5.97	(0.55)	2.01	(0.19)	42 1/2"	(1080)	8.50	(0.79)
2640	2.59	(0.24)	26"	(660)	14 5/16"	(364)	6.99	(0.65)	2.45	(0.23)	36 1/2"	(927)	9.73	(0.90)
2646	3.03	(0.28)	26"	(660)	16 3/4"	(425)	8.00	(0.74)	2.88	(0.27)	30 1/2"	(775)	10.96	(1.02)
2650	3.46	(0.32)	26"	(660)	19 1/8"	(486)	9.02	(0.84)	3.31	(0.31)	24 1/2"	(622)	12.19	(1.13)
2656	3.89	(0.36)	26"	(660)	21 9/16"	(547)	10.03	(0.93)	3.75	(0.35)	18 1/2"	(470)	13.42	(1.25)
2660	4.33	(0.40)	26"	(660)	23 15/16"	(608)	11.05	(1.03)	4.18	(0.39)	12 1/2"	(318)	14.65	(1.36)
3026	1.59	(0.15)	32"	(813)	7 1/8"	(181)	4.92	(0.46)	1.41	(0.13)	54 1/2"	(1384)	7.27	(0.68)
3030	2.12	(0.20)	32"	(813)	9 9/16"	(242)	6.18	(0.57)	1.94	(0.18)	48 1/2"	(1232)	8.75	(0.81)
3036	2.66	(0.25)	32"	(813)	11 15/16"	(303)	7.45	(0.69)	2.48	(0.23)	42 1/2"	(1080)	10.23	(0.95)
3040	3.19	(0.30)	32"	(813)	14 5/16"	(364)	8.71	(0.81)	3.01	(0.28)	36 1/2"	(927)	11.71	(1.09)
3046	3.72	(0.35)	32"	(813)	16 3/4"	(425)	9.98	(0.93)	3.54	(0.33)	30 1/2"	(775)	13.19	(1.23)
3050	4.26	(0.40)	32"	(813)	19 1/8"	(486)	11.24	(1.04)	4.08	(0.38)	24 1/2"	(622)	14.67	(1.36)
3056	4.79	(0.45)	32"	(813)	21 9/16"	(547)	12.51	(1.16)	4.61	(0.43)	18 1/2"	(470)	16.15	(1.50)
3060	5.32	(0.49)	32"	(813)	23 15/16"	(608)	13.77	(1.28)	5.15	(0.48)	12 1/2"	(318)	17.63	(1.64)
3626	1.89	(0.18)	38"	(965)	7 1/8"	(181)	5.89	(0.55)	1.67	(0.16)	54 1/2"	(1384)	8.50	(0.79)
3630	2.52	(0.23)	38"	(965)	9 9/16"	(242)	7.40	(0.69)	2.31	(0.21)	48 1/2"	(1232)	10.23	(0.95)
3636	3.15	(0.29)	38"	(965)	11 15/16"	(303)	8.92	(0.83)	2.94	(0.27)	42 1/2"	(1080)	11.96	(1.11)
3640	3.79	(0.35)	38"	(965)	14 5/16"	(364)	10.43	(0.97)	3.57	(0.33)	36 1/2"	(927)	13.69	(1.27)
3646	4.42	(0.41)	38"	(965)	16 3/4"	(425)	11.95	(1.11)	4.21	(0.39)	30 1/2"	(775)	15.42	(1.43)
3650	5.05	(0.47)	38"	(965)	19 1/8"	(486)	13.46	(1.25)	4.84	(0.45)	24 1/2"	(622)	17.15	(1.59)
3656	5.69	(0.53)	38"	(965)	21 9/16"	(547)	14.98	(1.39)	5.47	(0.51)	18 1/2"	(470)	18.88	(1.75)
4026	2.18	(0.20)	44"	(1118)	7 1/8"	(181)	6.86	(0.64)	1.94	(0.18)	54 1/2"	(1384)	9.73	(0.90)
4030	2.92	(0.27)	44"	(1118)	9 9/16"	(242)	8.62	(0.80)	2.67	(0.25)	48 1/2"	(1232)	11.71	(1.09)
4036	3.65	(0.34)	44"	(1118)	11 15/16"	(303)	10.39	(0.96)	3.40	(0.32)	42 1/2"	(1080)	13.69	(1.27)
4040	4.38	(0.41)	44"	(1118)	14 5/16"	(364)	12.15	(1.13)	4.14	(0.38)	36 1/2"	(927)	15.67	(1.46)
4046	5.12	(0.48)	44"	(1118)	16 3/4"	(425)	13.92	(1.29)	4.87	(0.45)	30 1/2"	(775)	17.65	(1.64)
4050	5.85	(0.54)	44"	(1118)	19 1/8"	(486)	15.68	(1.46)	5.60	(0.52)	24 1/2"	(622)	19.63	(1.82)
4056	6.59	(0.61)	44"	(1118)	21 9/16"	(547)	17.45	(1.62)	6.34	(0.59)	18 1/2"	(470)	21.61	(2.01)

- Top of Subfloor to Top of Inside Sill Stop is calculated based upon a structural header height of 6'-10 1/2" (2096).
- Dimensions in parentheses are in millimeters or square meters.
- **Two locks are standard for 36XX and 40XX widths or windows equal to or greater than 3'-5 1/2" (1054) wide.** Two locks are optional for 20XX, 26XX and 30XX widths or windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054) wide.

Double-Hung Windows

# 100 SERIES DOUBLE-HUNG WINDOWS

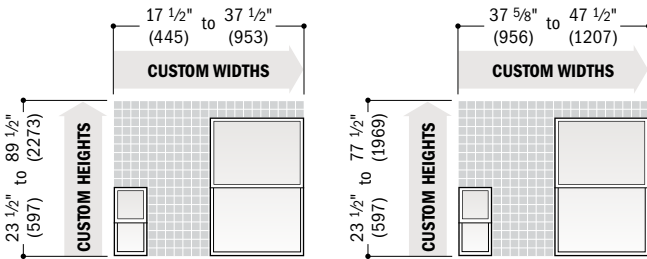
## Custom Sizes and Specification Formulas



100 Series custom-size windows are available in 1/8" (3) increments between minimum and maximum widths and heights shown. Some restrictions apply.

### Double-Hung Windows

#### Equal Sash Ratio

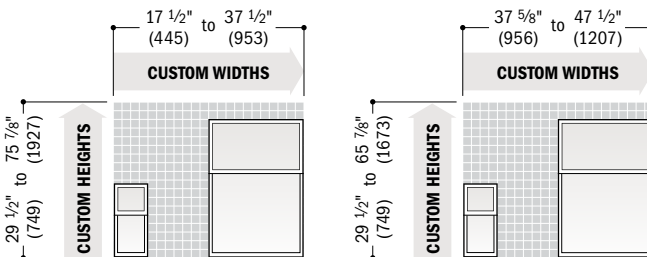


**Two locks are standard for windows equal to or greater than 3'-5 1/2" (1054) wide.**  
Two locks are optional for windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054).

<b>Clear Opening*</b> 	Width = window width - 3.470" (88) Height = (window height + 2) - 3.790" (96)	<b>Minimum R.O.</b> 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
<b>Vent Opening</b> 	Width = window width - 3.470" (88) Height = (window height + 2) - 3.711" (94)	<b>Unobst. Glass</b> 	Width = window width - 6.250" (159) Upper Sash Height = (window height + 2) - 4.205" (107) Lower Sash Height = (window height + 2) - 4.205" (107) Total Sash Height = window height - 8.410" (214)

\*Windows with tempered glass may have limited sash travel. Contact your Andersen supplier.

#### 2:3 Cottage Sash Ratio



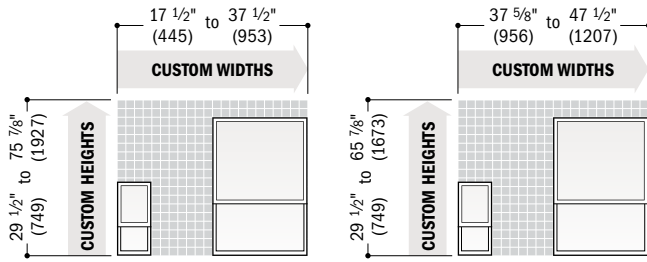
**Two locks are standard for windows equal to or greater than 3'-5 1/2" (1054) wide.**  
Two locks are optional for windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054).

<b>Clear Opening*</b> 	Width = window width - 3.470" (88) Height = window height x 0.4 - 2.949" (75)	<b>Minimum R.O.</b> 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
<b>Vent Opening</b> 	Width = window width - 3.470" (88) Height = window height x 0.4 - 2.621" (57)	<b>Unobst. Glass</b> 	Width = window width - 6.250" (159) Upper Sash Height = window height x 0.4 - 3.364" (85) Lower Sash Height = window height x 0.6 - 5.046" (128) Total Sash Height = window height - 8.410" (214)

• **Clear Opening** formulas provide dimensions for determining area available for egress. **Vent Opening** formulas provide dimensions for determining area available for passage of air. **Minimum R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.  
• Dimensions in parentheses are in millimeters.

## Double-Hung Windows *(continued)*

### 3:2 Reverse Cottage Sash Ratio



Two locks are standard for windows equal to or greater than 3'-5 1/2" (1054) wide.

Two locks are optional for windows equal to or greater than 1'-11 1/2" (597) wide and less than 3'-5 1/2" (1054).

<b>Clear Opening*</b> 	<b>Width</b> = window width - 3.470" (88) <b>Height</b> = window height x 0.4 - 4.862" (123)	<b>Minimum R.O.</b> 	<b>Width</b> = window width + 1/2" (13) <b>Height</b> = window height + 1/2" (13)
<b>Vent Opening</b> 	<b>Width</b> = window width - 3.470" (88) <b>Height</b> = window height x 0.4 - 5.669" (144)	<b>Unobst. Glass</b> 	<b>Width</b> = window width - 6.250" (159) <b>Upper Sash Height</b> = window height x 0.6 - 5.046" (128) <b>Lower Sash Height</b> = window height x 0.4 - 3.364" (85) <b>Total Sash Height</b> = window height - 8.410" (214)

\* **Clear Opening** formulas provide dimensions for determining area available for egress. **Vent Opening** formulas provide dimensions for determining area available for passage of air. **Minimum R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.  
 \* Dimensions in parentheses are in millimeters.

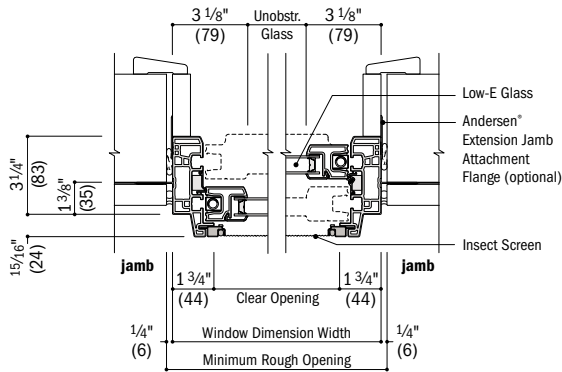
# 100 SERIES DOUBLE-HUNG WINDOWS



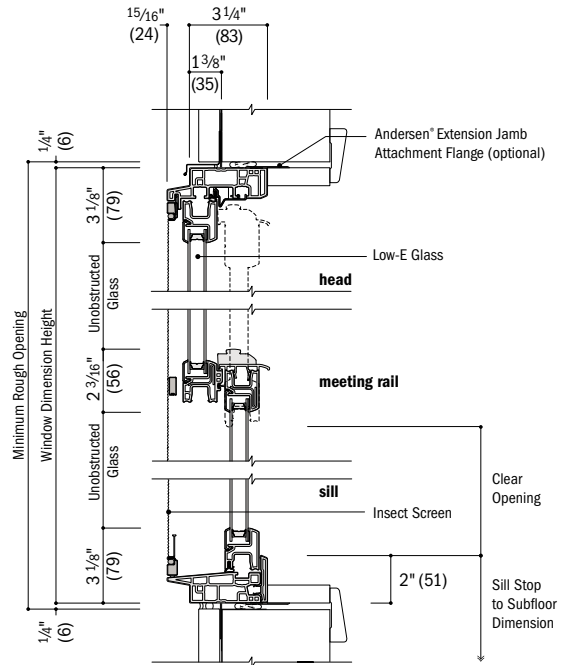
## Details for Double-Hung Windows – New Construction

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

1 3/8" Flange Setback



Horizontal Section



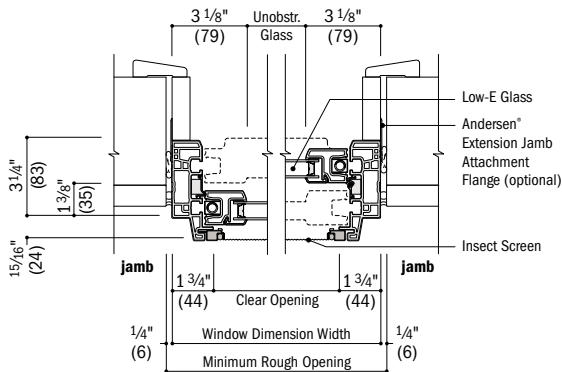
Vertical Section

Double-Hung Windows

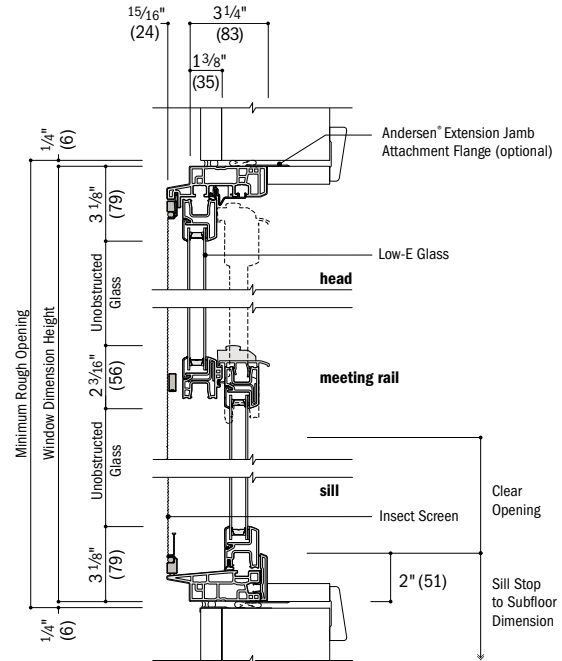
## Details for Double-Hung Windows – Replacement

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

No Flange



Horizontal Section  
Existing Framed Opening



Vertical Section  
Existing Framed Opening

continued on next page

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation instructions at [andersenwindows.com](http://andersenwindows.com).
- Dimensions in parentheses are in millimeters.

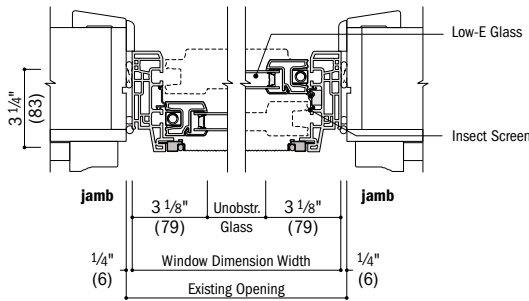
# 100 SERIES DOUBLE-HUNG WINDOWS



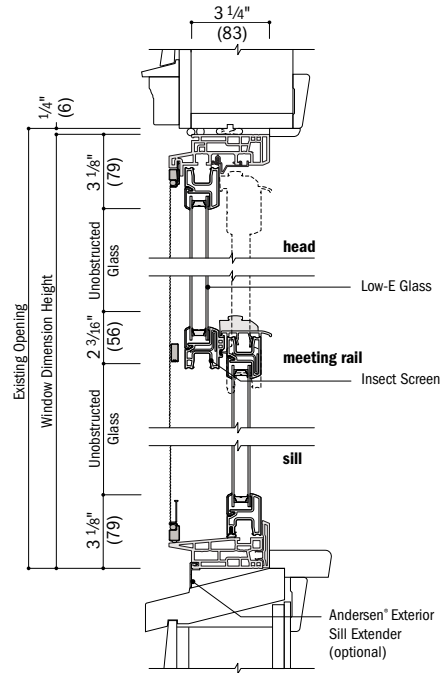
## Details for Double-Hung Windows – Replacement *(continued)*

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Insert



**Horizontal Section**  
Existing Window Opening



**Vertical Section**  
Existing Window Opening

Double-Hung Windows

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation instructions at [andersenwindows.com](http://andersenwindows.com).
- Dimensions in parentheses are in millimeters.

## Vertical (ribbon) Fiberglass Joining Details – Non-Reinforced

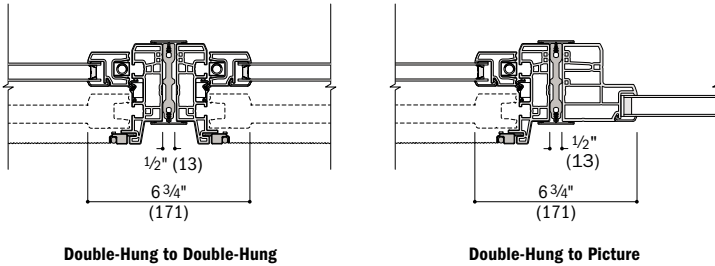
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** – Sum of individual window widths plus 1/2" (13) per join.

**Overall Minimum Rough Opening Width** – Overall window dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.

### FRAME TYPES: 1 3/8" Flange Setback, No Flange and Insert



Double-Hung to Double-Hung

Double-Hung to Picture

## Horizontal (stack) Fiberglass Joining Details – Non-Reinforced

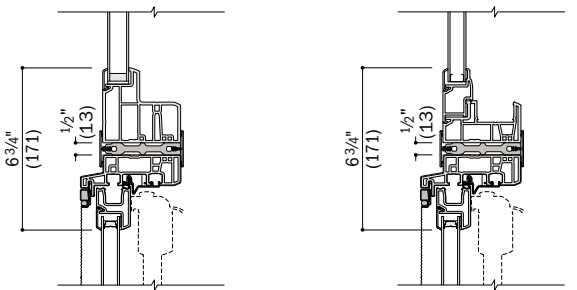
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** – Sum of individual window heights plus 1/2" (13) per join.

**Overall Minimum Rough Opening Width** – Overall window dimension height plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.

### FRAME TYPES: 1 3/8" Flange Setback, No Flange and Insert



Picture/Transom or Specialty Over Double-Hung

Transom Over Double-Hung

For more information on joining, refer to pages 14-15.

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation instructions at [andersenwindows.com](http://andersenwindows.com).
- Structural performance of any combination is only as high as the lowest structural performance of any individual product or join in the combination.
- Dimensions in parentheses are in millimeters.

# 100 SERIES DOUBLE-HUNG WINDOWS

## Vertical (ribbon) Easy Connect Fiberglass Joining Details – Reinforced

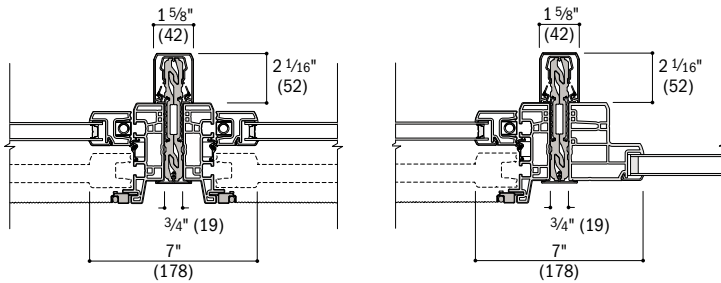
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** – Sum of individual window widths plus 3/4" (19) per join.

**Overall Minimum Rough Opening Width** – Overall window dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.

### FRAME TYPES: 1 3/8" Flange Setback and No Flange



Double-Hung to Double-Hung

Double-Hung to Picture

## Horizontal (stack) Easy Connect Fiberglass Joining Details – Reinforced

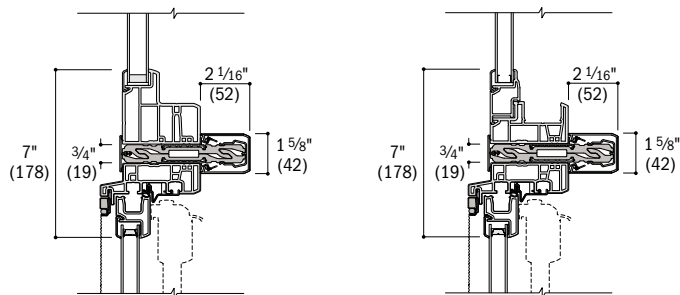
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** – Sum of individual window heights plus 3/4" (19) per join.

**Overall Minimum Rough Opening Width** – Overall window dimension height plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.

### FRAME TYPES: 1 3/8" Flange Setback and No Flange



Picture/Specialty Over Double-Hung

Transom Over Double-Hung

For more information on joining, refer to pages 14-15.

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation instructions at [andersenwindows.com](http://andersenwindows.com).
- Structural performance of any combination is only as high as the lowest structural performance of any individual product or join in the combination.
- Dimensions in parentheses are in millimeters.

## Combination Types

Ribbons are horizontal window combinations (vertical joins) where opposite ends (head and sill) of individual windows are fastened to the building structure. Stacks are vertical window combinations (horizontal joins) where opposite sides (both side jambs) of individual windows are fastened to the building structure. One-way configurations or two-way configurations are used in combination designs.

Two-way combinations exist when multiple vertical stacks and horizontal ribbons are joined together. Unlike one-way combinations, the adjacent sides (head and sill, or both side jambs) of individual units are not necessarily fastened directly to the building structure. Two-way combinations are joined with both vertical and horizontal joining material, and may require reinforced joining materials and brackets depending on the local building code requirement for design wind load (measured in pounds per square foot, psf).

### Determining Design Wind Load Performance

Proper combination design in conformance with local wind load requirements is vital to the success of your project. To make sure a combination is safe and that it complies with local building codes, the combination design wind load performance capacity must be determined. Correctly determining this performance capacity involves the following three steps:

#### STEP 1: Determine Building Code Requirement

Make sure you have the proper local codes and have identified specified compliance values. This calculated value (psf) will be used to determine if the combination will be acceptable (STEP 3).

#### STEP 2: Determine Product Performance

Compare product Design Pressure Rating data to the local building code (psf) requirement. This will show whether the individual units in a combination design are acceptable.

#### STEP 3: Determine Combination Performance

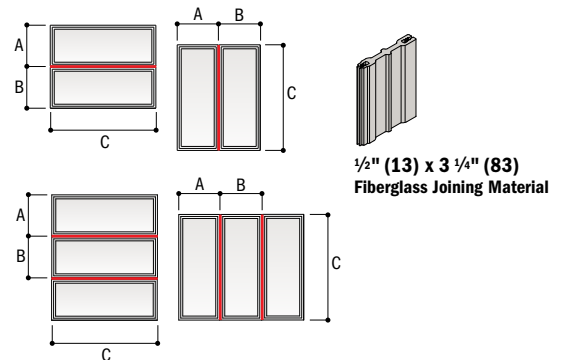
This step helps determine whether a given product, size, configuration and joining material type will meet the local building code design wind load requirement. Compare the local building code design wind load requirement to the design wind load tables below.

## 1-Way Non-Reinforced Fiberglass Joining

### 100 Series Windows: Double-Hung with Casement, Awning, Single-Hung, Double-Hung, Gliding, and Picture Windows

Applicable for flanged or flangeless installations into wood or metal. Ratings for windows installed into concrete or masonry are lower.

Average Adjacent Window Dimension	(A + B) ÷ 2 = <b>6'-0"</b> (1829)	50	50	43	37	32	29	26
	(A + B) ÷ 2 = <b>5'-6"</b> (1676)	50	50	44	38	33	30	27
	(A + B) ÷ 2 = <b>5'-0"</b> (1524)	50	50	45	39	35	31	28
	(A + B) ÷ 2 = <b>4'-6"</b> (1372)	50	50	46	41	36	33	30
	(A + B) ÷ 2 = <b>4'-0"</b> (1219)	50	50	49	43	39	35	32
	(A + B) ÷ 2 = <b>3'-6"</b> (1067)	50	50	50	47	42	39	36
	(A + B) ÷ 2 = <b>3'-0"</b> (914)	50	50	50	50	47	43	40
	(A + B) ÷ 2 = <b>2'-6"</b> (762)	50	50	50	50	50	50	46
	(A + B) ÷ 2 = <b>2'-0"</b> (610)	50	50	50	50	50	50	50
<b>C = (length of join)</b>	<b>5'-0"</b> (1524)	<b>5'-6"</b> (1676)	<b>6'-0"</b> (1829)	<b>6'-6"</b> (1981)	<b>7'-0"</b> (2134)	<b>7'-6"</b> (2286)	<b>8'-0"</b> (2438)	



- Numerical values in charts represent structural pressure only.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Easy Connect and other fiberglass joins are certified up to PG50 when installed according to Andersen installation instructions.
- Andersen® products must be installed and anchored properly according to joining and installation instructions to meet rated structural performance. Refer to product joining and installation instructions at [andersenwindows.com](http://andersenwindows.com).
- Dimensions in parentheses are in millimeters.
- Contact your Andersen supplier for joining windows to patio doors and for specific performance and product recommendations.
- Transom windows use picture frame type. Integral transom windows use single-hung frame type. Combination performance should be determined accordingly.

## Andersen Joining Material

For a successful installation, one engineered to provide the required design pressure, it is important Andersen joining materials and installation accessories be specified by a project architect or contractor. For one-way combinations, Andersen offers a non-reinforced fiberglass joining system that meets specified performance requirements and enhances the look of Andersen products without sacrificing performance.

The addition of joining materials will affect the overall rough opening dimension. **Read and follow product joining and installation instructions in their entirety. For instructions, visit [andersenwindows.com](http://andersenwindows.com).**

Exterior trim strips and trim strip end caps are included with each kit for finishing the exterior join. Interior trim is included with each joining kit for finishing the join on the interior. Check with your Andersen supplier for more information.

Reinforced joining material is used to create product alignment, positive joining and load transfer between Andersen windows and doors and the rough opening. They provide added strength capable of withstanding a greater range of wind load pressures. Non-reinforced joining material is used to create alignment and positive joining between windows. Joining materials are not connected to the rough opening structure. The structural performance of any combination is only as high as the lowest structural performance rating of any individual unit or joining material in the combination.

Contact your Andersen supplier for specific performance and product recommendations.





# 100 SERIES DOUBLE-HUNG WINDOWS



## Performance Grade and Air Infiltration Ratings

For current performance information, please visit [andersenwindows.com](http://andersenwindows.com).

Andersen® 100 Series Product	AAMA/WDMA/CSA 101/1.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT²
<b>Double-Hung Windows</b>			
Double-Hung	Class LC-PG30 Size Tested 47.5" x 77.5"	30/30	< 0.2

- Performance Grade (PG) ratings may vary from tested performance rating for larger or smaller units of a particular type.
- This data is accurate as of October 2025.
- Due to ongoing product changes, updated test results or new industry standards, this data may change over time.
- Where designated, Andersen products are certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.
- Contact your Andersen supplier for more information.

## Sound Transmission Ratings

For current performance information, please visit [andersenwindows.com](http://andersenwindows.com).

Andersen® 100 Series Product	STANDARD GLASS		STC UPGRADE GLASS	
	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)
<b>Double-Hung Windows</b>	28	23	†	†

- Sound Transmission Class (STC) and Outdoor/Indoor Transmission Class (OITC) ratings are for individual units based on independent tests and represent entire unit.
- This data is accurate as of October 2025. Due to ongoing product changes, updated test results or new industry standards, this data may change over time.
- Contact your Andersen supplier for more information.
- †Data not available.

## Altitude Limits

The chart below gives the altitude limit in feet for 100 Series products with dual-pane glass in this guide. If the installation of a given product is at an altitude greater than that shown in this chart, a capillary breather tube must be ordered. Be aware that the use of a capillary breather tube eliminates argon gas blend fill and will result in a slightly lower thermal performance (approximately 0.02 increase in unit U-Factor). For NFRC certified total unit performance on units with capillary breather tubes for higher altitude applications, see your Andersen supplier.

The use of dual-pane insulating glass without capillary breather tubes at altitudes higher than its rating will result in severe glass distortion, increased glass breakage potential and a risk of seal failure. Smaller units are most affected by altitude changes. An increase in altitude results in a decrease in atmospheric pressure. A sealed insulating glass unit attempts to combat this change by increasing its volume to reduce its pressure. One way to increase its volume is by glass deflection. A smaller unit is stiffer and does not deflect as much as a larger unit therefore, it cannot relieve the pressure as readily. Thus, the load applied to the glass is greater, resulting in a greater risk for breakage. Another way the unit tries to increase its volume is by increasing the edge area; i.e., the seal area. The increased pressure applied to the edge seal load for a smaller unit is therefore greater, increasing the chance for seal failure.

Andersen® Product	3,000		4,000			5,000		6,000		7,000		8,000		9,000		10,000		
100 Series Double-Hung Windows	1620	3026	1630	1666	3030	2040	2076	2646	3046	3050	3056	3660	3666			3666		
	1626	3620	1636	1670	3036	2046	2640	2650	3646	3650	3060	4060	3066		4066		3666	
	2020	3626	1640	1676	3630	2050	3040	2656	4040	4050	3066						4066	
	2026	4020	1646	2030	4030	2056	3636	2660	4046		3070							
	2620	4026	1650	2036		2060	3640	2666			3076							
	2626		1656	2630		2066	4036	2670			3656							
	3020		1660	2636		2070		2676			4056							

- Deflection of glass will occur on units with larger glass areas. If interior/exterior grilles are used on double-hung windows at higher altitudes without capillary breather tubes, some interference may occur, affecting operation.
- Contact your Andersen supplier for altitude limits for custom-sized windows.

Product Performance

## Center of Glass Performance Data

For current performance information, please visit [andersenwindows.com](http://andersenwindows.com).

Andersen® 100 Series Product	VT <sup>1</sup>	SC <sup>2</sup>	SHGC <sup>3</sup>	RHG <sup>4</sup>	Fading		%RH @ center <sup>7</sup>	IGST <sup>8</sup>
					Tuv <sup>5</sup>	Tdw <sup>6</sup>		
<b>Low-E</b>								
Double-Hung Windows	72%	0.48	0.41	98	16%	33%	61%	56°F
<b>Low-E With HeatLock® Technology</b>								
Double-Hung Windows	70%	0.47	0.41	96	16%	33%	44%	47°F
<b>Low-E SmartSun™</b>								
Double-Hung Windows	65%	0.31	0.27	66	5%	21%	62%	56°F
<b>Low-E SmartSun With HeatLock Technology</b>								
Double-Hung Windows	63%	0.31	0.27	64	5%	21%	46%	48°F
<b>Sun</b>								
Double-Hung Windows	40%	0.29	0.25	61	16%	24%	60%	55°F
<b>Low-E PassiveSun®</b>								
Double-Hung Windows	79%	0.79	0.69	161	29%	42%	60%	55°F
<b>Low-E PassiveSun With HeatLock Technology</b>								
Double-Hung Windows	77%	0.72	0.62	146	27%	40%	42%	46°F
<b>Clear Dual-Pane</b>								
Double-Hung Windows	82%	0.89	0.78	186	58%	61%	39%	44°F

\*Based on NFRC testing/simulation conditions using Windows v7.8.74.0 and NFRC validated spectral data. 0°F outside temperature, 70°F inside temperature and a 15 mph wind. 1) Visible Transmittance (VT) measures how much light comes through the glass. The higher the value, from 0 to 1, the more daylight the glass lets in. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum. 2) Shading Coefficient (SC) defines the amount of heat gain through the glass compared to a single lite of clear 1/8" (3) glass. 3) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 4) Relative Heat Gain (RHG) is the amount of heat gain through a glazing incorporating U-Factor and Solar Heat Gain Coefficient. 5) Transmission Ultra-Violet Energy (Tuv). The transmission of short-wave energy in the 300-380 nanometer portion of the solar spectrum. The energy can cause fabric fading. 6) Transmission Damage Function (Tdw). The transmission of UV and visible light energy in the 300-600 nanometer portion of the solar spectrum. The value includes both the UV and visible light energy that can cause fabric fading. This rating has also been referred to as the Krochmann Damage Function. This rating better predicts fading potential than UV transmission alone. The lower the Damage Function rating, the less transmission of short-wave energy through the glass that can potentially cause fabric fading. Fabric type is also a key component of fading potential. 7) Percent relative humidity before condensation occurs at the center of glass, taken using center of glass temperature. 8) Inside glass surface temperatures are taken at the center of glass.

\*This data is accurate as of October 2025. Due to ongoing product changes, updated test results or new industry standards, this data may change over time. Contact your Andersen supplier for current performance information or upgrade options.

\*Contact your Andersen supplier for center of glass performance data on windows with patterned glass, tempered glass and products ordered with capillary breather tubes.

## NFRC Certified Total Unit Performance for Products With Dual-Pane Glass

This information is for reference only. Performance values vary based on unit size, configurations and options. Contact your Andersen supplier for specific unit data.

Andersen® Product	High-Performance Dual-Pane Glass Type	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	VT <sup>3</sup>	
<b>100 Series Double-Hung Windows</b> AND-N-80 2.2 mm glass	Low-E	Without Grilles	0.30	0.31	0.53
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	0.30	0.28	0.47
		Finelight With Exterior Applied Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E w/HeatLock®	Without Grilles	0.26	0.30	0.52
		Simulated Divided Light Grilles	-	-	-
		Finelight Grilles	0.26	0.27	0.46
		Finelight With Exterior Applied Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E SmartSun™	Without Grilles	0.29	0.20	0.48
		Simulated Divided Light Grilles	-	-	-
		Finelight Grilles	0.29	0.18	0.43
		Finelight With Exterior Applied Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E SmartSun w/HeatLock	Without Grilles	0.25	0.20	0.47
		Simulated Divided Light Grilles	-	-	-
		Finelight Grilles	0.25	0.18	0.42
		Finelight With Exterior Applied Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E Sun	Without Grilles	0.30	0.19	0.30
		Simulated Divided Light Grilles	-	-	-
		Finelight Grilles	0.30	0.17	0.26
		Finelight With Exterior Applied Grilles	-	-	-
Full Divided Light Grilles		-	-	-	
Low-E PassiveSun®	Without Grilles	0.31	0.52	0.59	
	Simulated Divided Light Grilles	-	-	-	
	Finelight Grilles	0.31	0.46	0.52	
	Finelight With Exterior Applied Grilles	-	-	-	
	Full Divided Light Grilles	-	-	-	
Clear Dual-Pane	Without Grilles	0.46	0.59	0.61	
	Simulated Divided Light Grilles	-	-	-	
	Finelight Grilles	0.46	0.52	0.54	
	Finelight With Exterior Applied Grilles	-	-	-	
	Full Divided Light Grilles	-	-	-	

\*"Low-E," "Low-E SmartSun," "Low-E Sun," "Low-E PassiveSun" and "HeatLock" are Andersen trademarks for "Low-E" glass.

1) U-Factor defines the amount of heat loss through the total unit in BTU/hr-ft<sup>2</sup>-°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass. Use of tempered glass can increase U-Factor ratings. See [nrc.org](http://nrc.org) for specific performance values. 2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 3) Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible light transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

\*NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

\*This data is accurate as of October 2025. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on unit size, use of tempered glass, different grille options, glass for high altitudes, etc.

\*Values are for single units with given pane thickness and 3/4" (19 mm) grilles.

# 100 SERIES DOUBLE-HUNG WINDOWS



## About the Label

Look for this certification label on every window and patio door you buy. The NFRC section was designed by the National Fenestration Rating Council to provide accurate information that helps you promote the energy efficiency of the homes you build. These ratings allow you – and your customers – to measure and compare the energy performance of similar products. If the product does not have this label, the NFRC has not verified its claims.

## About the NFRC

The National Fenestration Rating Council (NFRC) is a nonpartisan coalition of professionals whose purpose is to provide fair, accurate and credible energy performance ratings for fenestration products. NFRC's membership includes manufacturers, suppliers, designers, specifiers, utility companies, government agencies and other building industry representatives.

Andersen Corporation is a founding member of the NFRC and continues to support its work by providing fair, accurate and credible energy performance ratings to consumers and the building industry. If you have any questions about the NFRC, its program or energy performance ratings, write them at: NFRC, 6305 Ivy Lane, Suite 410, Greenbelt, MD 20770. Phone: 301-589-1776. Website: [nfrf.org](http://nfrf.org)

Do not remove until final code inspection. Save label for future reference.

**ENERGY STAR® Certified in Highlighted Regions**  
Certifié ENERGY STAR dans les régions en surbrillance

**Canada**  
energystar.gc.ca

**U.S. / É.U.**  
energystar.gov

**ER/RE 14**

**DO NOT REMOVE UNTIL FINAL INSPECTION / NE PAS RETIRER AVANT L'INSPECTION FINALE**

**ANDERSEN**  
WINDOWS & DOORS

**100 Series Double-Hung Window**  
AND-N-239-00826-00001  
Fibrex Composite Frame, Low-E SmartSun  
Product Type: Double-Hung

**ENERGY PERFORMANCE RATINGS**

<b>U-Factor</b>	<b>Solar Heat Gain Coefficient</b>
<b>0.29</b> (U.S./IP)	<b>0.20</b>
<b>1.64</b> (Metric/SI)	

**ADDITIONAL PERFORMANCE RATINGS**

<b>Visible Transmittance</b>	
<b>0.48</b>	

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information.  
[www.nfrc.org](http://www.nfrc.org)

**WDMA**  
Hallmark Certified  
www.wdma.com

**Licensee: 129-H-1064**  
**Andersen Corporation**  
**100 Series Double-Hung Window**  
Manufacturer stipulates Hallmark Certification as indicated below.

STANDARD	RATING
AAMA/WDMA/CSA 1011.S.2/A440-22	Class LC-PG30 Size Tested 47.5" x 77.5" DP+30/30
AAMA/WDMA/CSA 1011.S.2/A440-17	Class LC-PG30 Size Tested 47.5" x 77.5" DP+30/30
AAMA/WDMA/CSA 1011.S.2/A440-08 A440S1-19	Class LC-PG30 - 1270mm x 1969mm Positive/Negative Design Pressure (DP) = +1920/-1920 Pa Water Penetration Resistance Test Pressure = 220 Pa Canadian Air Infiltration/Exfiltration = A2

Complies with HUD UM Bulletin No. 111.

Glazing: 3.0mm AN outer/3.0mm AN inner

**WARNING**  
This product can expose you to chemicals including titanium dioxide, which is known in the state of California to cause cancer, and methanol, which is known to the state of California to cause birth defects or other reproductive harm.  
For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Meets or exceeds CEC & IECC Air Infiltration Requirements of 0.2 CFM/sq.ft. or lower.  
WDMA Hallmark Certification Program.

**U-Factor** indicates how well a product prevents heat from escaping (the lower the number, the better).

**Visible Transmittance** refers to how much visible light comes through a product (the closer to 1.0, the more light is transmitted).

**WDMA Hallmark Certification** verifies the performance ratings of this product were tested by an independent testing laboratory and verified by a third-party certification program.

### Test Standards

**Energy Rating (ER)** represents "Energy Rating" and is a rating used in Canada for product comparison purposes (the higher the ER number, the more energy saved during the heating season).

**ENERGY STAR® Climate Zone Map** is based on U-Factor and solar heat gain coefficient criteria for specific ENERGY STAR climate zones within the United States and Canada. The shading of the map shows which climate zone(s) a particular product and glass type is ENERGY STAR Version 7.0 certified in. Visit [andersenwindows.com/energystar](http://andersenwindows.com/energystar) for more details.

**Solar Heat Gain Coefficient** measures how well a product blocks heat caused by sunlight (the lower the number, the more it will help reduce the use of air conditioning and as a result, reduce electrical bills and energy use).

**Performance Grade (PG) and Design Pressure (DP) Ratings**

**Glass Construction** used with this product type.

\* NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.  
\* "ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.



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