

# SINGLE-HUNG WINDOWS

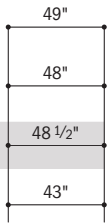
**Table of Single-Hung Window Sizes**

Scale 1/8" = 12" - 1:96

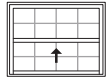
Exterior J-Channel Dimension	19"	21"	25"	29"	31"	33"	37"	39"	41"	43"	45"
Window Dimension	18"	20"	24"	28"	30"	32"	36"	38"	40"	42"	44"
<b>Minimum Rough Opening</b>	18 1/2"	20 1/2"	24 1/2"	28 1/2"	30 1/2"	32 1/2"	36 1/2"	38 1/2"	40 1/2"	42 1/2"	44 1/2"
Unobstructed Glass (lower sash only)	13"	15"	19"	23"	25"	27"	31"	33"	35"	37"	39"

		CUSTOM WIDTHS - 16" to 52"										
CUSTOM HEIGHTS - 24" to 84"	37"											
			1630	1830	2030	2430	2630	2830	3030	3230	3430	3630
	39"											
		1632	1832	2032	2432	2632	2832	3032	3232	3432	3632	3832
	45"											
		1638	1838	2038	2438	2638	2838	3038	3238	3438	3638	3838
	47"											
		16310	18310	20310	24310	26310	28310	30310	32310	34310	36310	38310
	49"											
		1640	1840	2040	2440	2640	2840	3040	3240	3440	3640	3840
	51"											
		1642	1842	2042	2442	2642	2842	3042	3242	3442	3642	3842
	53"											
		1644	1844	2044	2444	2644	2844	3044	3244	3444	3644	3844
	55"											
		1646	1846	2046	2446	2646	2846	3046	3246	3446	3646	3846
	57"											
		1648	1848	2048	2448	2648	2848	3048	3248	3448	3648	3848
	61"											
		1650	1850	2050	2450	2650	2850	3050	3250°	3450°	3650°	3850°
	63"											
		1652	1852	2052	2452	2652	2852	3052°	3252°	3452°	3652°	3852°

• "Window Dimension" always refers to inside 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.  
 ° Meet or exceed clear opening area of 5.7 sq.ft., clear opening width of 20" and clear opening height of 24".



Cottage or reverse cottage sash ratio available. Check rail is offset 6" up (cottage) or 6" down (reverse cottage) from equal sash location.

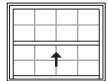


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Cottage (Reverse Oriel):

**CUSTOM WIDTHS – 16" to 52"**

**CUSTOM HEIGHTS – 42" to 72"**

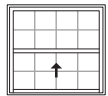


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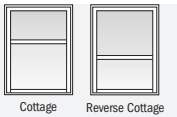
Reverse Cottage (Oriel):

**CUSTOM WIDTHS – 16" to 52"**

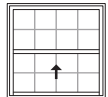
**CUSTOM HEIGHTS – 42" to 84"**



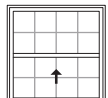
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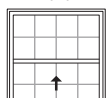
Cottage Reverse Cottage



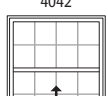
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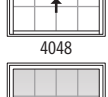
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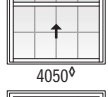
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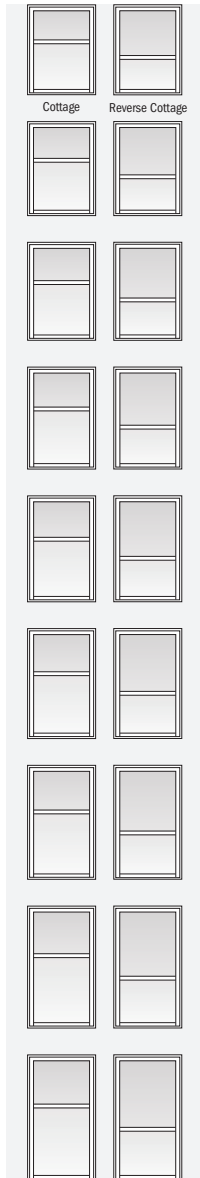
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4050<sup>o</sup>



4052<sup>o</sup>



*continued on next page*

Custom-size windows are available in 1/4" increments.

**Single-hung windows include a nailing flange and J-channel.**

For construction site convenience, an optional drywall pass-through window is available for removal and reinstallation of the upper and lower sash.

Grille pattern and number of lights varies with window size.

• "Window Dimension" always refers to inside 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.  
 ◊ Meet or exceed clear opening area of 5.7 sq.ft., clear opening width of 20" and clear opening height of 24".

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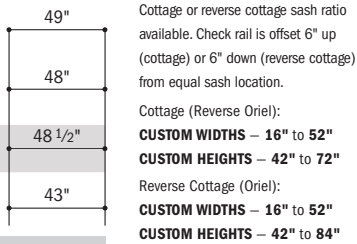
**Table of Single-Hung Window Sizes** (continued)

Scale 1/8" = 12" – 1:96

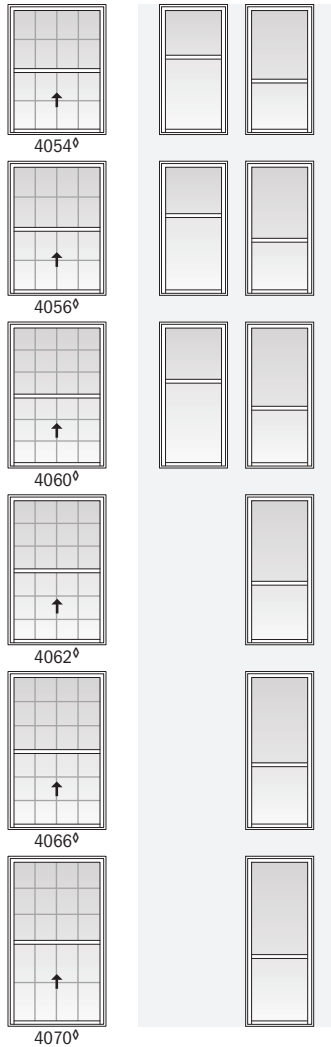
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		CUSTOM WIDTHS – 16" to 52"										
		CUSTOM HEIGHTS – 24" to 84"										
65"	64" 64 1/2" 29 1/16"	1654	1854	2054	2454	2654	2854	3054 <sup>o</sup>	3254 <sup>o</sup>	3454 <sup>o</sup>	3654 <sup>o</sup>	3854 <sup>o</sup>
67"	66" 66 1/2" 30 1/16"	1656	1856	2056	2456	2656	2856	3056 <sup>o</sup>	3256 <sup>o</sup>	3456 <sup>o</sup>	3656 <sup>o</sup>	3856 <sup>o</sup>
73"	72" 72 1/2" 33 1/16"	1660	1860	2060	2460	2660	2860 <sup>o</sup>	3060 <sup>o</sup>	3260 <sup>o</sup>	3460 <sup>o</sup>	3660 <sup>o</sup>	3860 <sup>o</sup>
75"	74" 74 1/2" 34 1/16"	1662	1862	2062	2462	2662	2862 <sup>o</sup>	3062 <sup>o</sup>	3262 <sup>o</sup>	3462 <sup>o</sup>	3662 <sup>o</sup>	3862 <sup>o</sup>
79"	78" 78 1/2" 36 1/16"	1666	1866	2066	2466	2666 <sup>o</sup>	2866 <sup>o</sup>	3066 <sup>o</sup>	3266 <sup>o</sup>	3466 <sup>o</sup>	3666 <sup>o</sup>	3866 <sup>o</sup>
85"	84" 84 1/2" 39 1/16"	1670	1870	2070	2470 <sup>o</sup>	2670 <sup>o</sup>	2870 <sup>o</sup>	3070 <sup>o</sup>	3270 <sup>o</sup>	3470 <sup>o</sup>	3670 <sup>o</sup>	3870 <sup>o</sup>

• "Window Dimension" always refers to inside 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.  
<sup>o</sup> Meet or exceed clear opening area of 5.7 sq.ft., clear opening width of 20" and clear opening height of 24".



Custom-size windows are available in 1/4" increments.



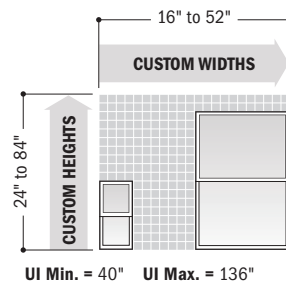
**Single-hung windows include a nailing flange and J-channel.**

For construction site convenience, an optional drywall pass-through window is available for removal and reinstallation of the upper and lower sash.

Grille pattern and number of lights varies with window size.

**Custom Sizes & Specification Formulas**

**Single-Hung Windows**



Available in 1/4" increments between minimum and maximum widths and heights shown. Some restrictions apply.

<p><b>Clear Opening</b></p>	<p>Width = window width - 5"</p> <p>Height = (window height + 2) - 4.375"</p>	<p><b>Minimum R.O.</b></p>	<p>Width = window width + 1/2"</p> <p>Height = window height + 1/2"</p>
<p><b>Vent Opening</b></p>	<p>Width = window width - 5"</p> <p>Height = (window height + 2) - 4.375"</p>	<p><b>Unobstr. Glass</b></p>	<p>Width = window width - 5"</p> <p>Height = (window height + 2) - 2.938"</p>

• **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. **Unobstr. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.