Table of Single-Hung Window Sizes
Scale 1/8” = 12” — 1:96

<table>
<thead>
<tr>
<th>Window Dimension</th>
<th>19”</th>
<th>21”</th>
<th>25”</th>
<th>29”</th>
<th>31”</th>
<th>33”</th>
<th>37”</th>
<th>39”</th>
<th>41”</th>
<th>43”</th>
<th>45”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Rough Opening</td>
<td>18 1/2”</td>
<td>20 1/2”</td>
<td>24 1/2”</td>
<td>28 1/2”</td>
<td>30 1/2”</td>
<td>32 1/2”</td>
<td>36 1/2”</td>
<td>38 1/2”</td>
<td>40 1/2”</td>
<td>42 1/2”</td>
<td>44 1/2”</td>
</tr>
</tbody>
</table>

Unobstructed Glass

CUSTOM HEIGHTS — 24” to 84”

1630 1830 2030 2430 2630 2830 3030 3230 3430 3630 3830
1632 1832 2032 2432 2632 2832 3032 3232 3432 3632 3832
1638 1838 2038 2438 2638 2838 3038 3238 3438 3638 3838
1640 1840 2040 2440 2640 2840 3040 3240 3440 3640 3840
1642 1842 2042 2442 2642 2842 3042 3242 3442 3642 3842
1644 1844 2044 2444 2644 2844 3044 3244 3444 3644 3844
1646 1846 2046 2446 2646 2846 3046 3246 3446 3646 3846
1648 1848 2048 2448 2648 2848 3048 3248 3448 3648 3848
1650 1850 2050 2450 2650 2850 3050 3250 3450 3650 3850

CUSTOM WIDTHS — 16” to 52”

16310 18310 20310 24310 26310 28310 30310 32310 34310 36310 38310
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, sills, 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”.

CUSTOM WIDTHS — 16” to 52”
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".
### Table of Single-Hung Window Sizes (continued)

<table>
<thead>
<tr>
<th>Scale ( \frac{1}{8}'' = 12'' - 1:96 )</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exterior J-Channel</strong></td>
</tr>
<tr>
<td>Dimension</td>
</tr>
<tr>
<td>18''</td>
</tr>
<tr>
<td>13''</td>
</tr>
</tbody>
</table>

**CUSTOM WIDTHS – 16'' to 52''**

<table>
<thead>
<tr>
<th>CUSTOM HEIGHTS – 24'' to 84''</th>
</tr>
</thead>
</table>

* "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 paning, 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".
Single-Hung Windows

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

**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.

**Custom Sizes & Specification Formulas**

**Single-Hung Windows**

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

<table>
<thead>
<tr>
<th>Clear Opening</th>
<th>Minimum R.O.</th>
<th>Unobstr. Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width = window width - 5&quot;</td>
<td>Width = window width + 1/2&quot;</td>
<td>Width = window width - 5&quot;</td>
</tr>
<tr>
<td>Height = (window height + 2) - 4.375&quot;</td>
<td>Height = window height + 1/2&quot;</td>
<td>Height = (window height + 2) - 2.938&quot;</td>
</tr>
</tbody>
</table>

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

Cottage (Reverse Oriel):
- **CUSTOM WIDTHS** – 16” to 52”
- **CUSTOM HEIGHTS** – 42” to 72”

Reverse Cottage (Oriel):
- **CUSTOM WIDTHS** – 16” to 52”
- **CUSTOM HEIGHTS** – 42” to 84”

Grille pattern and number of lights varies with window size.

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.

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Grille pattern and number of lights varies with window size.

**Cottage (Reverse Oriel):**
- **CUSTOM WIDTHS** — 16” to 52”
- **CUSTOM HEIGHTS** — 42” to 72”

**Reverse Cottage (Oriel):**
- **CUSTOM WIDTHS** — 16” to 52”
- **CUSTOM HEIGHTS** — 42” to 84”