Before Measuring:

- If any rotten wood on the frame of the original window cannot be repaired or replaced, opening will not be suitable for insert window replacement.
- Existing opening must be plumb, level and square. If not, adjustments must be made to window size when ordering.
- Make sure a 3-1/4" wide pocket exists or can be created for insert window.

Measuring Information:

- Record measurements on “Measurement Worksheet”.
- Describe window locations clearly and record measurements to nearest 1/8" when recording measurements.
- Measure each window even if they appear the same size.

Joined Combinations:

- Woodwright® and tilt-wash insert windows can only be joined in 1-way combinations as shown below.

Measure from side jamb to side jamb at bottom, middle, and top of window. Record smallest width on worksheet.
Based on step 4, choose sill angle on worksheet.

**Method 1**
Use a sill angle finder.

**Method 2**
Measure rise over 4°. Find sill angle on table.

<table>
<thead>
<tr>
<th>Rise</th>
<th>1/16&quot;</th>
<th>1/8&quot;</th>
<th>3/16&quot;</th>
<th>1/4&quot;</th>
<th>3/8&quot;</th>
<th>7/16&quot;</th>
<th>1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle</td>
<td>1°</td>
<td>2°</td>
<td>3°</td>
<td>4°</td>
<td>5°</td>
<td>6°</td>
<td>7°</td>
</tr>
<tr>
<td>9/16&quot;</td>
<td>5/8°</td>
<td>11/16&quot;</td>
<td>3/4&quot;</td>
<td>7/8&quot;</td>
<td>15/16&quot;</td>
<td>1°</td>
<td>1-1/16&quot;</td>
</tr>
<tr>
<td>8°</td>
<td>9°</td>
<td>10°</td>
<td>11°</td>
<td>12°</td>
<td>13°</td>
<td>14°</td>
<td>15°</td>
</tr>
</tbody>
</table>

Measure angle of existing sill using Method 1 or Method 2. Record angle rounded to the nearest degree on worksheet.

**For square opening:**
(diagonals within 1/8")

Select on worksheet:

- **Standard deduction**

Insert window will be built 3/8" narrower than opening width in X and 1/4" shorter than opening height in Z to provide installation clearance.

**For out-of-square opening:**
(diagonals not within 1/8")

Size insert window to provide clearance for level and square installation.

Select on worksheet:

- **Non-standard deduction**

Record desired insert unit dimensions on worksheet.

Measure from top of sill, just behind stool, to underside of head jamb at sides and middle. Record smallest height on worksheet.

**Double-Hung Window**

Measure from wood head jamb to top of stool (A).
Slide thin ruler behind stool (cut paint if needed) to measure stool height (B).

**Height = A + B**

**Picture Window**

Measure from corner to corner. Square openings use standard deductions and out-of-square use non-standard deductions (determined by you) to provide clearance during installation.

**Picture Window**

Measure directly behind stool.

**Interior**

Measure from head jamb to sill.

**Exterior**

Measure from head jamb to sill.

**Andersen Sill Angle Finder**

14° Steep

11°, 15°

0° Flat

0°, 4°

8° Moderate

5°, 10°
## Measurement Worksheet

for Andersen® 400 Series Woodwright® and Tilt-Wash Double-Hung and Picture Insert Window

<table>
<thead>
<tr>
<th>Window Location</th>
<th>Existing Opening &amp; window size</th>
<th>Window #</th>
<th>Measurement Worksheet</th>
<th>Notes and sketches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single window</td>
<td>_______ of _______</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part of joined combination</td>
<td>_______ of _______</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Existing Opening & window size

- Single window
- Part of joined combination

<table>
<thead>
<tr>
<th>Sill Angle</th>
<th>double-hung and picture only</th>
<th>double-hung</th>
<th>picture</th>
<th>transom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured sill angle:</td>
<td></td>
<td>(height)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Window Style & Sash Ratio

- Woodwright®
- Tilt-Wash

### Color & Finish

- white
- sandtone
- Terratone®
- forest green
- Low-E4® glass
- Low-E4® SmartSun™ glass
- Low-E4® Sun glass

### Glass Options

- non-tempered
- tempered

### Grille Style & Size

- Divided Light
  - with spacer
  - no spacer
  - removable interior
- removable interior only
- between glass

### Grille Pattern

- specified equal light
- 9-lite prairie A
- 6-lite prairie
- custom
- none

### Insect Screens

- TruScene®
- conventional

### Hardware

- Classic Series®
- Estate®
- Traditional
- Classic Series™

### Notes and sketches

(eight grille pattern)

- Standard deduction
- Insert window will be 3/8" less in width and 1/4" less in height than recorded in Line A & B.
- Non-standard deduction
- Record desired insert unit dimension below to the nearest 1/8".

### Hardware

- double-hung sash lift(s) (optional)
- lock & keeper
- Estate™
- Traditional
- Classic Series™

### Measurement Worksheet

- Customer NAME
- ORDER DATE
- Measurement Worksheet
- Width & height (to nearest 1/8")
- Sill angle:
- Choose sill angle:
- Quantity needed of this window type:

### Insert window will be 3/8" less in width and 1/4" less in height than recorded in Line A & B.

### Standard deduction
- Insert window will be 3/8" less in width and 1/4" less in height than recorded in Line A & B.

### Non-standard deduction
- Record desired insert unit dimension below to the nearest 1/8".

### See back side of worksheet for custom sizing tables.

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Woodwright* Insert Window Size Ranges

Double-Hung - Equal Sash

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Sill Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>8°</td>
<td>14°</td>
</tr>
<tr>
<td>78&quot;</td>
<td>77 1/2&quot;</td>
<td>77&quot;</td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>27 3/4&quot;</td>
<td>27 1/4&quot;</td>
<td>26 3/4&quot;</td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Double-Hung - Cottage & Reverse Cottage Sash

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Sill Angle</th>
<th>Cottage</th>
<th>Reverse Cottage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>8°</td>
<td>14°</td>
<td>16 1/2&quot;</td>
<td>45 3/8&quot;</td>
</tr>
<tr>
<td>68&quot;</td>
<td>67 1/2&quot;</td>
<td>67&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31 3/4&quot;</td>
<td>31 1/4&quot;</td>
<td>30 3/4&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Picture

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Sill Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>8°</td>
<td>14°</td>
</tr>
<tr>
<td>78&quot;</td>
<td>77 1/2&quot;</td>
<td>77&quot;</td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>12 1/2&quot;</td>
<td>12&quot;</td>
<td>11 1/2&quot;</td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Transom

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Sill Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 1/2&quot;</td>
<td>78&quot;</td>
<td></td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Tilt-Wash Insert Window Size Ranges

Double-Hung - Equal Sash

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Sill Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>8°</td>
<td>14°</td>
</tr>
<tr>
<td>91 1/4&quot;</td>
<td>91 1/4&quot;</td>
<td>90 3/4&quot;</td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>36 1/4&quot;</td>
<td>35 1/4&quot;</td>
<td>35 3/8&quot;</td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Double-Hung - Cottage & Reverse Cottage Sash

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Sill Angle</th>
<th>Cottage</th>
<th>Reverse Cottage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>8°</td>
<td>14°</td>
<td>21 1/4&quot;</td>
<td>44 3/8&quot;</td>
</tr>
<tr>
<td>77 1/4&quot;</td>
<td>77 1/4&quot;</td>
<td>76 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43 3/8&quot;</td>
<td>42 3/4&quot;</td>
<td>42 1/4&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Picture

<table>
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<tr>
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<td>to</td>
</tr>
<tr>
<td>12 1/2&quot;</td>
<td>12&quot;</td>
<td>11 1/2&quot;</td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Transom

<table>
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<th>Height</th>
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<th>Sill Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 1/2&quot;</td>
<td>78&quot;</td>
<td></td>
</tr>
</tbody>
</table>

CUSTOM WIDTHS

CUSTOM HEIGHTS

Custom size windows are available in 1/8" increments.

Height limits for double-hung and picture insert windows depend on new insert window sill angle.

For picture and transom insert windows, either height or width must be 68" or less and height plus width cannot be less then 28°.