

CUSTOM SIZING
in 1/8" (3) increments



WOODWRIGHT[®] DOUBLE-HUNG INSERT WINDOWS

400 Series
Woodwright[®] Double-Hung
Insert Windows

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Dimensions in parentheses are in millimeters.



A.B.E. Doors & Windows

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www.abeddoors.com

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WOODWRIGHT® DOUBLE-HUNG INSERT WINDOWS

FEATURES

Frame

- A** Fibrex® material exterior protects the frame – beautifully. Best of all, it's low-maintenance and never needs painting.
- B** For exceptionally long-lasting* performance, sill members are constructed with a wood core and a Fibrex® material exterior.
- C** Natural wood stops are available in pine, oak, maple and prefinished White. Wood jamb liners add beauty and authenticity to the window interior.
- D** Multiple weatherstripping systems help provide a barrier against wind, rain and dust. The combination of spring tension vinyl, rigid vinyl and flexible bulb weatherstripping is efficient and effective.
- E** Exterior stop covers are specially designed to allow easy application of high-quality sealant.

3 1/4" (83) "pocket window" jamb depth allows convenient replacement without disturbing interior window trim for most double-hung replacement situations.

F For units with White exterior color, exterior jamb liner is White. For all other units, the exterior jamb liner is gray.

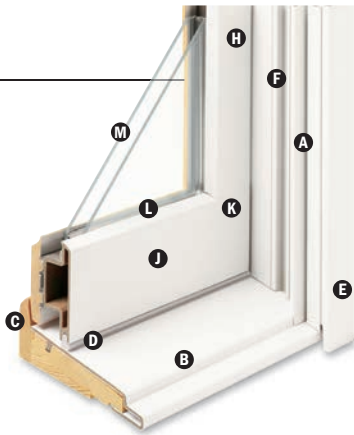
Sash

- G** Slide wash assists make it easy to tilt the sash into wash mode.
- H** Balancers in the sash enable contractors to screw through the jamb during installation without interfering with the window's operation.

Wood Jamb Liner



I Natural wood sash interior with classic chamfer detailing. Available in pine, oak, maple or prefinished White.



J Low-maintenance sash exterior provides long-lasting** protection and performance. Sash exteriors on most units include Fibrex® material.

K Sash joints simulate the look of traditional mortise-and-tenon construction inside and out.

Glass

L Silicone bed glazing provides superior weathertightness and durability.

M High-performance glass options include:

- Low-E4® glass®
- Low-E4® HeatLock™ glass
- Low-E4® Sun glass
- Low-E4® SmartSun™ glass
- Low-E4® SmartSun™ HeatLock™ glass

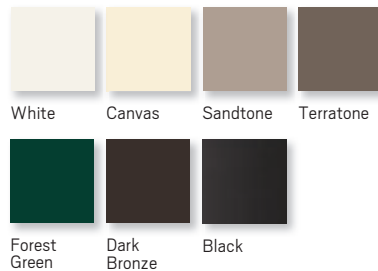
Tempered glass and other glass options are available. Contact your Andersen supplier.

A removable translucent film helps shield the glass from damage during delivery and construction and simplifies finishing at the jobsite.

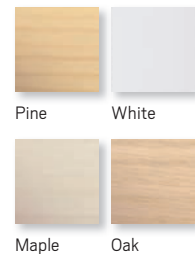
Patterned Glass

Patterned glass options are available. See page 10 for more details.

EXTERIOR

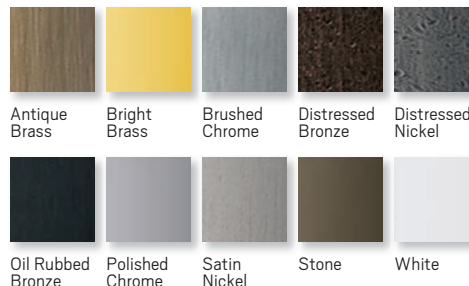


INTERIOR



Naturally occurring variations in grain, color and texture of wood make each window one-of-a-kind. All wood interiors are unfinished unless prefinished White is specified.

HARDWARE FINISHES



Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

DOUBLE-HUNG HARDWARE

STANDARD Lock & Keeper



Stone | White

ESTATE™ Lock & Keeper



Antique Brass | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Oil Rubbed Bronze
Polished Chrome | **Satin Nickel**

The cam-operated lock & keeper is designed for easy operation and long life* and comes standard. Stone is standard with natural interior units. White finish comes with prefinished White interiors.

Optional Estate lock & keeper reduces the clear opening height by 3/16" (14). Check with local building code officials to determine compliance with egress requirements.

OPTIONAL DOUBLE-HUNG LIFT HARDWARE**

ESTATE™

Hand Lift

Finger Lifts



Antique Brass | Bright Brass | Brushed Chrome | Distressed Bronze
Distressed Nickel | Oil Rubbed Bronze | Polished Chrome | **Satin Nickel**

TRADITIONAL

Hand Lift

Finger Lifts

Bar Lift



Antique Brass | Bright Brass | Brushed Chrome | **Oil Rubbed Bronze**
Polished Chrome | Satin Nickel | Stone | White

CLASSIC SERIES™

Hand Lift

Finger Lifts

Sash Lift



Stone | **White**

Bold name denotes finish shown.

* Visit andersenwindows.com/warranty or see your Andersen supplier for details on the 400 Series Limited Warranty.

** Hardware sold separately.

Dimensions in parentheses are in millimeters.

Printing limitations prevent exact duplication of colors and finishes. See your Andersen supplier for actual color and finish samples.

Exterior Stop Cover



An exterior stop cover provides a clean transition from new window to the existing window casing.

Sill Angles

Three sill angles are available — 0°, 8° and 14° — to closely match the existing sill in window replacement applications. See page 81 for more details.



0° Sill Angle



8° Sill Angle



14° Sill Angle

Included Installation Materials



Flat, self-hanging shims, backer rod, installation screws and complete instructions are included with each insert window. Measurement guide and worksheet at andersenwindows.com/measure.

Sash Options*



Cottage Style

Reverse Cottage Style

For more information about **glass, patterned glass, grilles and TruScene® insect screen** see pages 10-16.

For more information about **product performance, installation accessories and warranty** see pages 269-291 or visit

ACCESSORIES Sold Separately

Frame

Wood Interior Stop



Optional interior stop with matching chamfer is available.

Sash

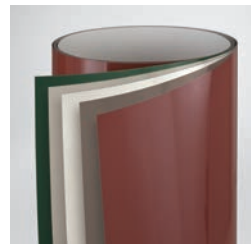
Window Opening Control Device Kit



A Window Opening Control Device Kit is available, which limits sash travel to less than 4" (102) when the window is first opened. Available in Stone and White. Device shown on a 400 Series Tilt-Wash double-hung.

Installation

Coil Stock



Andersen® aluminum coil stock can be ordered to match any of our 11 trim colors. Made from .019-gauge aluminum, Andersen coil stock is available in 24" (610) x 50' (15,240) rolls. Color-matched stainless steel trim nails 1 1/4" (32) long are also available and can be ordered in 1 lb. or 454 gram boxes.

Insect Screens

Insect Screen Frames



Choose full insect screen or half insect screen. Half insect screen (shown above) allows ventilation without affecting the view through the upper sash. Frames are available in colors to match product exteriors.

TruScene® Insect Screen

Exclusive Andersen® TruScene® insect screens provide over 50% more clarity than our conventional insect screens for a beautiful unobstructed view. They allow more fresh air and sunlight in, while doing a better job of keeping out small insects.

Conventional Insect Screen

Conventional insect screens have charcoal powder-coated aluminum screen mesh.

Grilles

Grilles are available in a variety of configurations and widths. For double-hung grille patterns see page 82.

CAUTION:

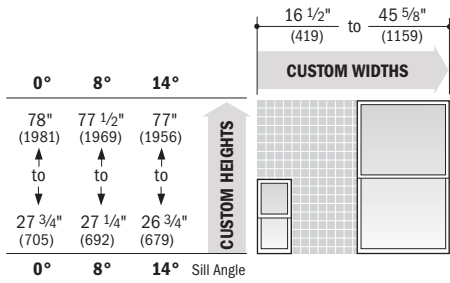
- Painting and staining may cause damage to rigid vinyl.
- 400 Series windows in Terratone color may be painted any color lighter than Terratone color using quality oil-base or latex paint. Submit color samples to Andersen for approval when painting Terratone any color darker than Terratone.
- Do not paint 400 Series windows with White, Canvas, Sandtone, Forest Green, Dark Bronze or Black exterior colors.
- Creosote-based stains should not come in contact with Andersen products.
- Do not paint weatherstripping.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.

* Shown on 400 Series Tilt-Wash double-hung full-frame windows. Dimensions in parentheses are in millimeters.

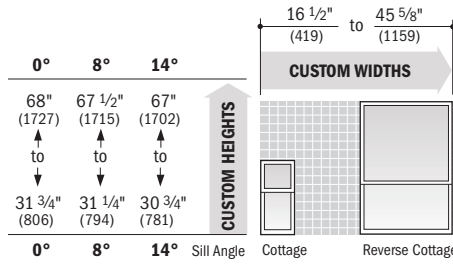
WOODWRIGHT® DOUBLE-HUNG INSERT WINDOWS

Woodwright® Double-Hung Insert Window Sizes

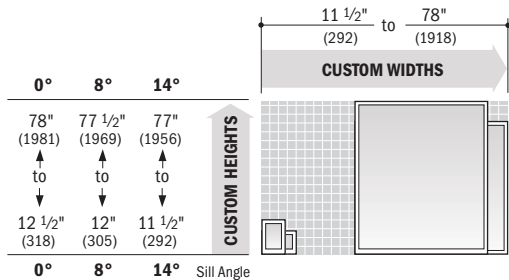
Double-Hung - Equal Sash



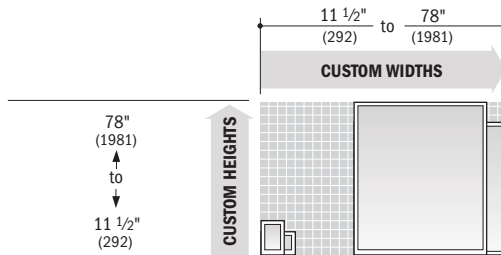
Double-Hung - 2:3 Cottage & 3:2 Reverse Cottage Sash



Picture



Transom



Available in 1/8" (3) increments between minimum and maximum widths and heights. 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" (1727) or less and height plus width cannot be less than 28" (711).

Woodwright® Double-Hung Insert Window Specification Formulas

Clear Opening	Width = window width - 3.4375" (87)				
	Height = Depends on sash ratio and specific sill angle of insert window, see below.				
	sash ratio	clear opening height	sill angle deduction		
			14°	8°	0°
	1:1 Equal	= (window height + 2) - sill angle deduction	3.1875" (81)	3.4375" (87)	3.75" (95)
	2:3 Cottage	= (window height x 2) + 5 - sill angle deduction	2.875" (73)	3.0625" (78)	3.25" (83)
3:2 Reverse Cottage	= (window height x 2) + 5 - sill angle deduction	2.375" (60)	2.5625" (65)	2.8125" (71)	
Vent Opening	Width = window width - 3.4375" (87)				
	Height = Depends on sash ratio and specific sill angle of insert window, see below.				
	sash ratio	vent opening height	sill angle deduction		
			14°	8°	0°
	Equal, Height < 48" (1219)	= ((window height + 2) - sill angle deduction) - 6.5" (165)	2.75" (70)	2.9375" (75)	3.25" (83)
	Equal, Height > 48" (1219)	= ((window height + 2) - sill angle deduction) - 11.5" (292)			
	Cottage, Height < 48" (1219)	= ((window height x 2) + 5 - sill angle deduction) - 6.5" (165)	1.9375" (49)	2.125" (54)	2.375" (60)
	Cottage, Height > 48" (1219)	= ((window height x 2) + 5 - sill angle deduction) - 11.5" (292)			
	Reverse Cottage, Height < 48" (1219)	= ((window height x 2) + 5 - sill angle deduction) - 6.5" (165)	3.5625" (90)	3.8125" (97)	4.8125" (122)
Reverse Cottage, Height > 48" (1219)	= ((window height x 2) + 5 - sill angle deduction) - 11.5" (292)				
Unobstr. Glass	Width = window width - 6.0" (152)				
	Height = Depends on sash ratio and specific sill angle of insert window, see below.				
	sash ratio	unobstructed glass height	sill angle deduction		
			14°	8°	0°
	Equal - Upper and Lower Sash	= window height - sill angle deduction	7.875" (200)	8.375" (213)	9.0" (229)
	Cottage - Upper Sash or Reverse Cottage - Lower Sash	= (window height x 2) + 5 - sill angle deduction	3.1875" (81)	3.375" (86)	3.625" (92)
Cottage - Lower Sash or Reverse Cottage - Upper Sash	= (window height x 2) + 5 - sill angle deduction	4.75" (121)	5.0625" (129)	5.4375" (138)	

Woodwright® Picture and Transom Insert Window Specification Formulas

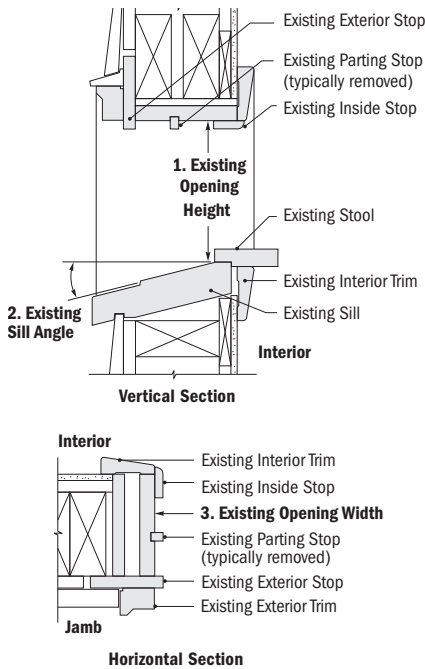
Unobstr. Glass	Picture Insert	Width = window width - 6.0" (152)		
		Height = Depends on sash ratio and specific sill angle of insert window, see below.		
unobstructed glass height		sill angle deductions		
		14°	8°	0°
	= window height - sill angle deduction	5.816" (148)	6.285" (160)	6.890" (175)
Unobstr. Glass	Transom Insert	Width = window width - 6.0" (152)		
		Height = window width - 6.0" (152)		

- Dimensions in parentheses are in millimeters.
- **Clear Opening** formulas provide dimensions for determining area available for egress. **Vent Opening** formulas provide dimensions for determining area available for passage of air. **Unobstr. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.
- Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for insert windows.

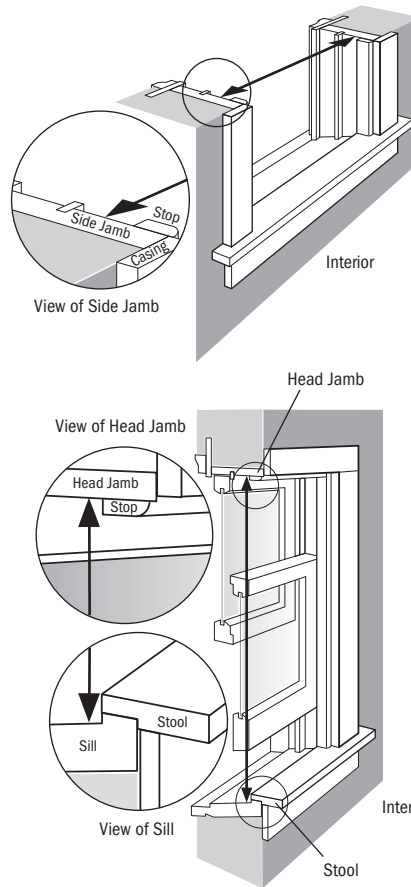
Existing Window Measurements

Required measurements:

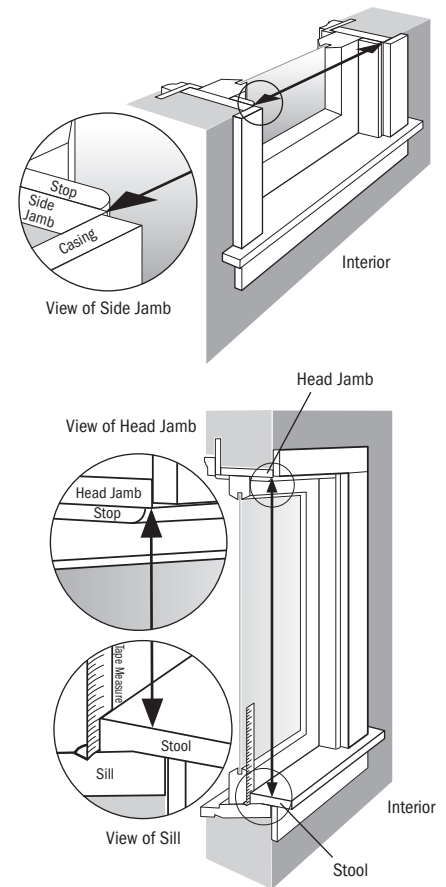
1. Existing Opening Height
2. Existing Sill Angle
3. Existing Opening Width



Existing Double-Hung Window



Existing Picture Window

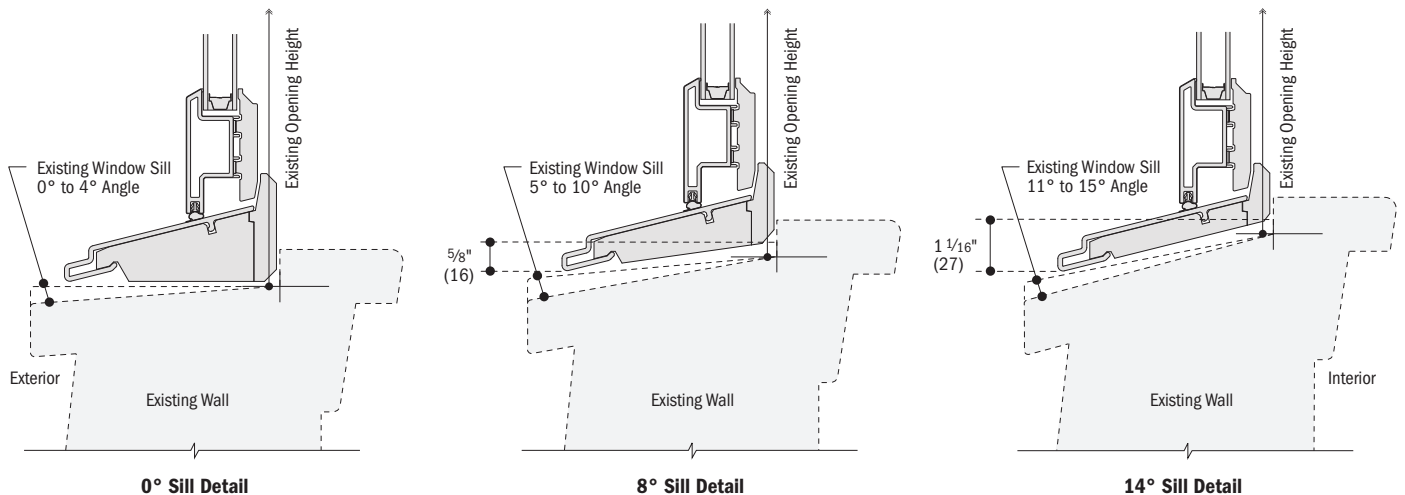


Sill Angle Details

Scale 3" (76) = 1'-0" (305) – 1:4

Select a sill angle that most closely matches your existing sill angle.

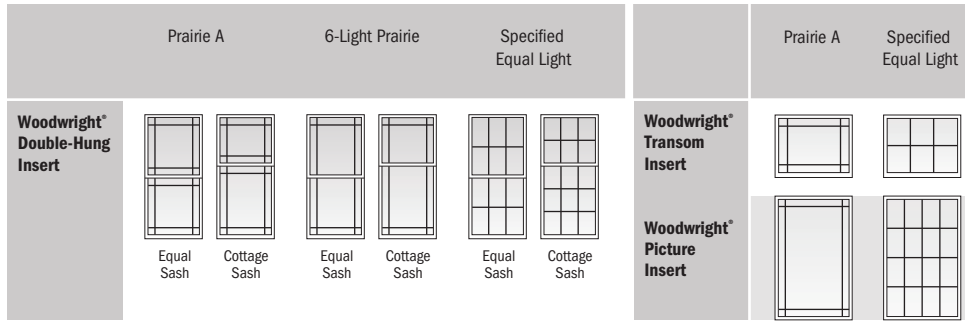
Windows with a smaller sill angle will have a larger maximum height.



- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.
- Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for insert windows.

WOODWRIGHT® DOUBLE-HUNG INSERT WINDOWS

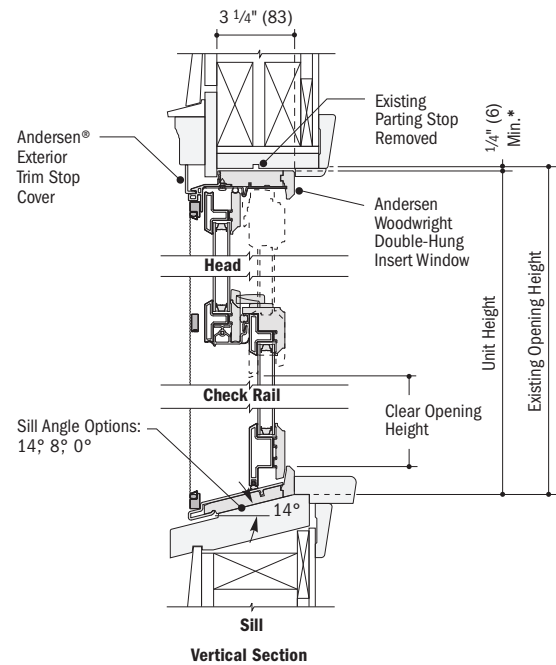
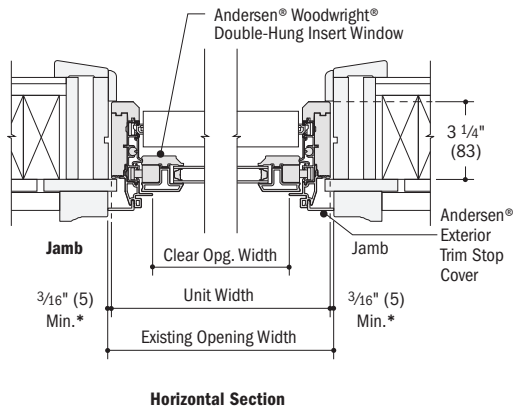
Grille Patterns



Double-hung patterns are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double-hung patterns, identify the sash style (equal, cottage, reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns are not available in all configurations.** For more information on divided light see page 11 or visit andersenwindows.com/grilles.

Woodwright® Double-Hung Insert Window Details

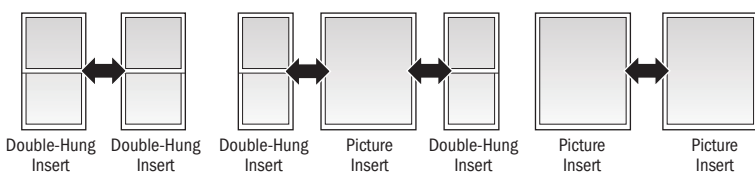
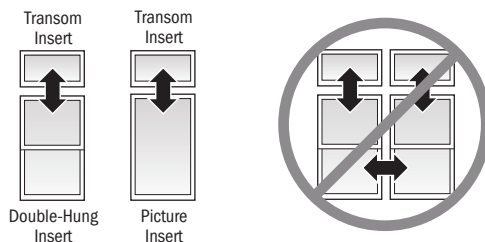
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Joining Combinations

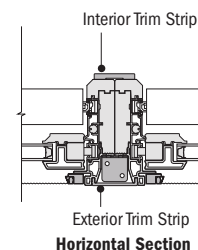
Join insert windows in 1-way horizontal (stack) or vertical (ribbon) combinations.

Do not join insert windows in 2-way combinations.



Vertical (ribbon) Joining Detail

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Woodwright® Double-Hung Insert to Woodwright® Double-Hung Insert

For more joining information see the combination designs section starting on page 255.

• Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
 • Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
 • Dimensions in parentheses are in millimeters.
 *Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for insert windows.