

400 SERIES

REPLACEMENT CASEMENT & AWNING WINDOWS

400 Series
Replacement Casement
& Awning Windows

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REPLACEMENT CASEMENT & AWNING WINDOWS

Features

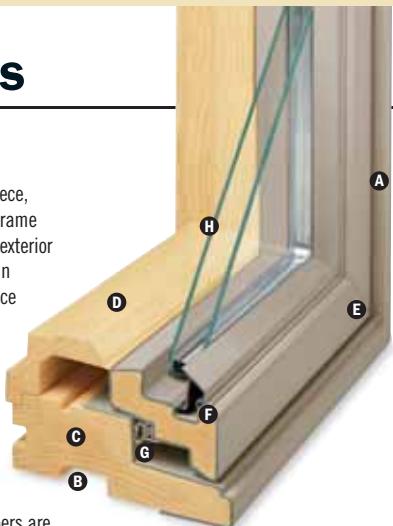
FRAME

A A seamless one-piece, pre-formed rigid vinyl frame cover is secured to the exterior of the frame to maintain an attractive appearance while minimizing maintenance.

B Pre-drilled, through-the-jamb installation holes allow for quick and easy installation.

C Wood frame members are treated with a water-repellent wood preservative for long-lasting* protection and performance.

D Interior stops are unfinished pine. Low-maintenance prefinished white interiors are also available.



SASH

E Rigid vinyl (PVC) encases the entire sash — a vinyl weld protects each sash corner for superior weathertightness to maintain an attractive appearance and minimize maintenance.

GLASS



H High-performance™ glass options include:

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

Tempered glass and other glass options are available. Contact your Andersen supplier. (Glass option must be specified.)

F Wood core members provide excellent structural stability and energy efficiency.

G Flexible bulb weatherstripping or PVC closed-cell foam weatherstripping is factory-installed on the perimeter of the sash.

HARDWARE



Smooth Control™ Hardware System

The Smooth Control™ hardware system employs a worm gear drive for easy operation. The split-arm operator moves the sash away from the frame to provide for easier glass cleaning. (Hardware option and finish must be specified.) **CXW15**, **CXW155**, **CXW16** and **CXW25** units are not available with split-arm hardware. Handle and cover sold separately.



Single-Actuation Casement Lock

A single-actuation lock releases the casement sash easily while the “reach-out” action eliminates binding when closing. The lock handle is offered in finishes that coordinate with your specified hardware option.



Awning Sash Locks

Awning sash locks provide an added measure of security and weathertightness. Hardware style and finish options are compatible with Andersen casement windows to ensure consistency in appearance when used in combination designs.

* For complete information on our limited warranties, visit andersenwindows.com or contact your Andersen supplier.

Exterior

Specify a unit exterior option and an interior option to complete your order.



White Sandstone Terratone® Forest Green

Interior



white pine

Hardware

Sold Separately.

Estate™ Hardware



Made of solid brass. Available with bright brass, **antique brass**, polished chrome, brushed chrome, satin nickel, oil rubbed bronze, distressed nickel and distressed bronze finishes.

Folding Hardware

NEW FINISHES



Contemporary

Available in bright brass, **satin nickel**, oil rubbed bronze, white, stone, gold dust or black finish.

Folding handles avoid interference with window treatments.



Traditional

Available in bright brass, antique brass, **satin nickel**, oil rubbed bronze, **distressed bronze**, white, stone, gold dust or black finish.

Classic Series™ Hardware



Available in white or **stone** finish.

Bold names denote finish shown.

Hardware Finishes



bright brass

antique brass

polished chrome

brushed chrome

satin nickel

oil rubbed bronze

distressed nickel

distressed bronze

white

stone

gold dust

black

Accessories

Sold Separately.

PATTERNEED GLASS

Patterned glass options are available. See page 12 for more details.

PERFORMANCE GRADE (PG) UPGRADE

Performance upgrades are available for select casement and awning sizes, allowing these units to achieve the following performance:

Casement - PG 70
Awning - PG 60

Performance Grade (PG) Ratings replace Design Pressure (DP) Ratings for measuring product performance. See page 269. Contact your Andersen supplier for availability.



Installation Kit

An installation kit, which includes installation screws, straight shims and backer rod, is included with each replacement casement window.

Measurement guide and worksheet at andersenwindows.com/400seriescasement

For more information about glass, patterned glass, art glass, grilles, TruScene® insect screen and installation accessories, see pages 12–32 or visit

andersenwindows.com

FRAME



Extension Jambs

Standard jamb depth is 2 7/8". Extension jambs are available in unfinished pine or prefinished white. Some sizes may be veneered.

Factory-Applied Extension Jambs

Available in 4 9/16" and 6 9/16" sizes. Extension jambs can be factory-applied to either three sides (stool and apron application) or four sides (picture frame casing).

Non-Applied Extension Jambs

Non-applied extension jambs are available for the following wall depths:

- 4 9/16"
- 5 1/4"
- 6 9/16"
- 7 1/4"



Narrow Drywall Return Bead

A narrow drywall return bead is available for units ordered with prefinished white interiors. Can be ordered factory-applied or in non-applied lineals.



Thick Replacement Extension Jamb Options

To help preserve original alignment of trim and paint lines, special 1 1/8" thick replacement extension jamb options are available. Factory-applied options available in 4 9/16" and 6 9/16" sizes. Also available in 12' lineals for non-applied applications in the following widths:

- 4 9/16"
- 5 1/4"
- 6 9/16"
- 7 1/4"

HARDWARE



Corrosion-Resistant Components

Corrosion-resistant hinge and operator arm hardware kit made with high-quality stainless steel. For harsh and corrosive environment applications such as heavy industrial or coastal areas.*

SPECIAL USE OPERATORS

Available in Classic Series™ design only.



Compact Operator Handle

Specially designed for use in situations where blinds or other window treatments interfere with standard operator handle. Available in white or stone finish.



Easy-Grip Handle

Larger knob makes it easier to grip and operate. Available in white or stone finish.



Metal T-Handle

Our smallest operator handle, the Metal T-handle, may make it more difficult for young children (5 and under) to open the window.

For more information on child safety, write:

Andersen Corporation
LookOut for Kids® Program
100 Fourth Avenue North
Bayport, MN 55003

Call 1-800-313-8889 or email us at: lkf@andersencorp.com



Operator Spline Cover

An operator spline cover is an attractive cap that covers the roto operator stud when the handle has been removed to control access or operation of the window. Operator spline cover should not be used on any window designated or intended for emergency escape or rescue. Please consult your local building code official for local egress code requirements.



Awning Electric Operator

The electric operator opens and closes the window automatically. Commonly used in clerestory or hard-to-reach installations.

When ordered with the unit, correct hardware is factory installed for easy application of the operator.

Kits are also available for field application of electric operator. Field application kits contain the following: modified operator, sill stop, wood filler piece, sash bracket, screws and installation guidelines.

GLASS

Andersen® Art Glass

Andersen art glass panels come in eleven original patterns, including four *Frank Lloyd Wright® Series* designs. See page 139 for details on Andersen art glass or visit andersenwindows.com/artglass for pattern information.

"Frank Lloyd Wright" is a registered trademark of the Frank Lloyd Wright Foundation and is used with permission.

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INSECT SCREENS



EXCLUSIVE

TruScene® Insect Screen

TruScene insect screens are made with a micro-fine stainless steel mesh that's one-third the diameter of our aluminum screen wire. They provide over 50% more clarity than our conventional insect screens. They also let more sunlight and fresh air into the home. For casement and awning windows, they are available with stone- or white-colored frames or with pine screen frame interiors to blend with the wood interior of the window.

Conventional Insect Screen

Conventional insect screens have charcoal powder-coated aluminum screen cloth. Available with frames in white or stone.

* For complete information on our limited warranties, visit andersenwindows.com or contact your Andersen supplier.

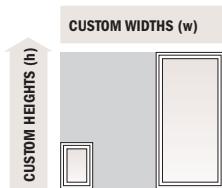
CAUTION:

- Painting and staining may cause damage to rigid vinyl.
- Products in Sandtone or Terratone® color may be painted any color lighter than Terratone using quality oil-base or latex paint. Submit color samples to Andersen for approval when painting White. Submit color samples to Andersen for approval when painting Sandtone or Terratone any color darker than Terratone.
- Do not paint Forest Green exteriors.
- 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 of paint to vinyl.

REPLACEMENT CASEMENT & AWNING WINDOWS

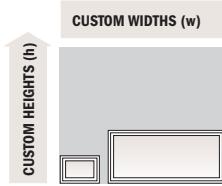
Replacement Window Size Range

Minimum and maximum widths and heights.



Casement Stationary/Venting
(w) 1'-5" to 2'-11 7/8" X (h) 2'-0 1/8" to 5'-11 7/8"

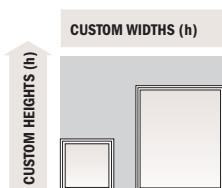
Casement/Awning Transom (CTR)
(w) 1'-5" to 7'-0 5/8" X (h) 1'-0"



Awning Stationary
(w) 2'-0 1/8" to 5'-11 7/8" X (h) 1'-5" to 2'-11 7/8"

Awning Venting
(w) 2'-0 1/8" to 4'-0" X (h) 1'-5" to 4'-0"
(w) 4'-0 1/8" to 5'-11 7/8" X (h) 1'-5" to 2'-11 7/8"

Custom-size awning windows wider than 4'-11 7/8" and taller than 2'-7 1/2" must be stationary only.



Casement/Awning Picture Window
(w) 3'-0" to 4'-11 7/8" X (h) 3'-0" to 5'-11 7/8"
(w) 5'-0" to 5'-11 7/8" X (h) 3'-0" to 4'-11 7/8"

Picture Transom (PTR)
(w) 3'-0" to 5'-11 7/8" X (h) 1'-0"

Available in 1/8" increments.



Replacement windows can also be custom sized to match standard sizes ending in a sixteenth of an inch.

Available for single windows only. To achieve double or triple combinations, join single replacement windows together.

Thick replacement extension jambs are available to preserve original alignment of trim and paint lines. See page 50.

Custom Measurement Guide & Worksheet

Go to andersenwindows.com/400seriescasement.

Guide and worksheet are listed under the "Installation and Warranty" tab.

Clear Opening Calculator

Go to andersenwindows.com/400seriescasement.

Calculator is found by selecting "Egress & Opening Specifications" under the "Sizes and Shapes" tab.

Replacement Casement Window Opening Specifications

Clear Opening	Width = window width - 5.809 $= (\text{window width} - 9.665) \times 1.07$ $= \text{window width} - 9.702$ Height = window height - 4.432 $= \text{window height} - 4.852$	Window width $\geq 24\frac{1}{8}"$ with straight arm operator $\geq 28\frac{3}{8}"$ with straight arm operator and control bracket $\geq 17"$ with split arm operator Window height $\geq 40\frac{13}{16}"$ and $< 48"$, width $\geq 28\frac{3}{8}"$ and $< 31\frac{1}{2}"$ <i>All other window heights</i>	Unobstr. Glass	Width = window width - 4.852 Height = window height - 4.326
Vent Opening	Width = window width - 5.809 $= \text{window width} - 6.102$ Height = window height - 4.432 $= \text{window height} - 4.852$	Window width $\geq 24\frac{1}{8}"$ with straight arm operator $\geq 17"$ with split arm operator Window height $\geq 40\frac{13}{16}"$ and $< 48"$, width $\geq 28\frac{3}{8}"$ and $< 31\frac{1}{2}"$ <i>All other window heights</i>	Minimum R.O.	Width = window width + 1/2" Height = window height + 1/2"

Replacement Awning Window Opening Specifications

Clear Opening	Width = window width - 4.532 Height = 6.38 $\text{Window height} \geq 17"$ and $\leq 20\frac{1}{2}"$ $= 6.44$ $\text{Window height} \geq 20\frac{1}{2}"$ and $\leq 24\frac{1}{8}"$ $= 6.50$ <i>All other window heights</i>	Unobstr. Glass	Width = window width - 4.35 Height = window height - 4.732
Vent Opening	Width = window width - 4.532 Height = 6.38 $\text{Window height} \geq 17"$ and $\leq 20\frac{1}{2}"$ $= 6.44$ $\text{Window height} \geq 20\frac{1}{2}"$ and $\leq 24\frac{1}{8}"$ $= 6.50$ <i>All other window heights</i>	Minimum R.O.	Width = window width + 1/2" Height = window height + 1/2"

Replacement Picture and Transom Window Specifications

Unobstr. Glass	Width = window width - 4.8 Height = window height - 4.8	Minimum R.O.	Width = window width + 1/2" Height = window height + 1/2"
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