ANDERSEN™
WINDOWS & DOORS

400 SERIES

*2020 Andersen brand survey of U.S. contractors.

2021-22 PRODUCT GUIDE FOR PROFESSIONALS

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400 SERIES WINDOWS

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For warranty information, visit **andersenwindows.com/warranty**.

ENERGY STAR AWARD 2021
PARTNER OF THE YEAR
Sustained Excellence

Andersen Corporation, including its subsidiaries, has been named a 2021 ENERGY STAR Partner of the Year – Sustained Excellence Award winner, the highest honor given by ENERGY STAR, for continued leadership in protecting the environment through superior energy efficiency achievements.

AMERICA'S MOST LOVED BRAND OF WINDOWS & DOORS.*

You want to give your customers a home they love, and we're here to make that easy for you. That's why we're proud to offer you products that rate #1 in quality and performance,** and to be the #1 trusted and recommended window and door brand** by pros.

400 SERIES PRODUCTS

Our most popular choice with homeowners and the windows contractors trust the most† Easy to install, low maintenance and with fewer callbacks, the 400 Series can be your go-to for pretty much any project.

*2020 Andersen brand surveys of U.S. contractors, builders and realtors.
**2020 Andersen brand surveys of U.S. contractors, builders and architects.
†2020 Andersen brand survey of U.S. contractors.

RELIABLE & ENERGY EFFICIENT

As our best-selling products, the 400 Series product line offers a distinct blend of design, reliability and trade confidence. Designed for easy installation for replacement, remodel or new construction projects, 400 Series products feature our Perma-Shield® exterior cladding that revolutionized the window industry. They're also backed by our renowned limited warranty and the largest service network in the industry.

ENERGY-SAVING GLASS FOR ANY CLIMATE

Andersen makes windows and patio doors with options that make them ENERGY STAR® v. 6.0 certified throughout the United States.

Visit **andersenwindows.com/energystar** for more information and to verify that the product with your glass option is certified in your area.

ASK ABOUT ENERGY STAR

RIGOROUSLY TESTED

The exclusive Andersen Perma-Shield system gives our windows and doors a tough, protective shell that safeguards the wood inside. It repels water, resists dents* and stays beautiful for years.

LOW MAINTENANCE, NEVER NEEDS PAINTING

The Perma-Shield exteriors on Andersen 400 Series windows and doors offer superior weather resistance and are virtually maintenance free.

OPTIONS FOR THE HARSHEST WEATHER

400 Series windows with Stormwatch® Protection meet building code requirements in coastal areas.** Products with Stormwatch Protection are energy efficient, resist the effects of salt water, and stand up to hurricane-force winds and wind-borne debris.** For details, visit **andersenwindows.com/coastal**.

StormWATCH PROTECTION

QUALITY SO SOLID, THE WARRANTY IS TRANSFERABLE*

Many other window and door warranties end when a home is sold, but our coverage – 20 years on glass, 10 years on non-glass parts – transfers from each owner to the next. And because it's not prorated, the coverage offers full benefits year after year, owner after owner. So it can add real value when you decide to sell your home.

OWNER2OWNER® LIMITED WARRANTY

BUILT FOR YEARS TO COME*

Our products are built strong to last long.* We use the right materials in the right places, including solid wood, fiberglass and our own Fibrex® composite material. These give our windows and doors superior strength, stability and long-term beauty.

KEEPS THE WEATHER OUT

Our weather-resistant construction and careful selection of weatherstrip by product type seals out drafts, wind and water whatever the weather.

*Visit andersenwindows.com/warranty for details.
**See your local code official for code requirements in your area.
"ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.

REPLACEMENT SOLUTIONS

Homeowners and realtors agree that Andersen products increase the value of a home by at least 10%*. So you're not just replacing their windows, you're upgrading their home.

INSERT WINDOWS

400 Series Woodwright® Double-Hung Insert Windows

The classic, traditional style of Woodwright full-frame windows in a time-saving insert.

400 Series Tilt-Wash Double-Hung Insert Windows

Our best-selling double-hung windows in an insert for easy replacement.

REPLACEMENT WINDOWS

400 Series Replacement Casement & Awning Windows

Available without an installation flange for easy window replacement from inside or outside. Feature predrilled, through-the-jamb installation holes for quick installation.

Our insert and replacement windows include flat self-hanging shims, backer rod, installation screws and complete instructions.

CUSTOM-SIZE FULL-FRAME WINDOWS

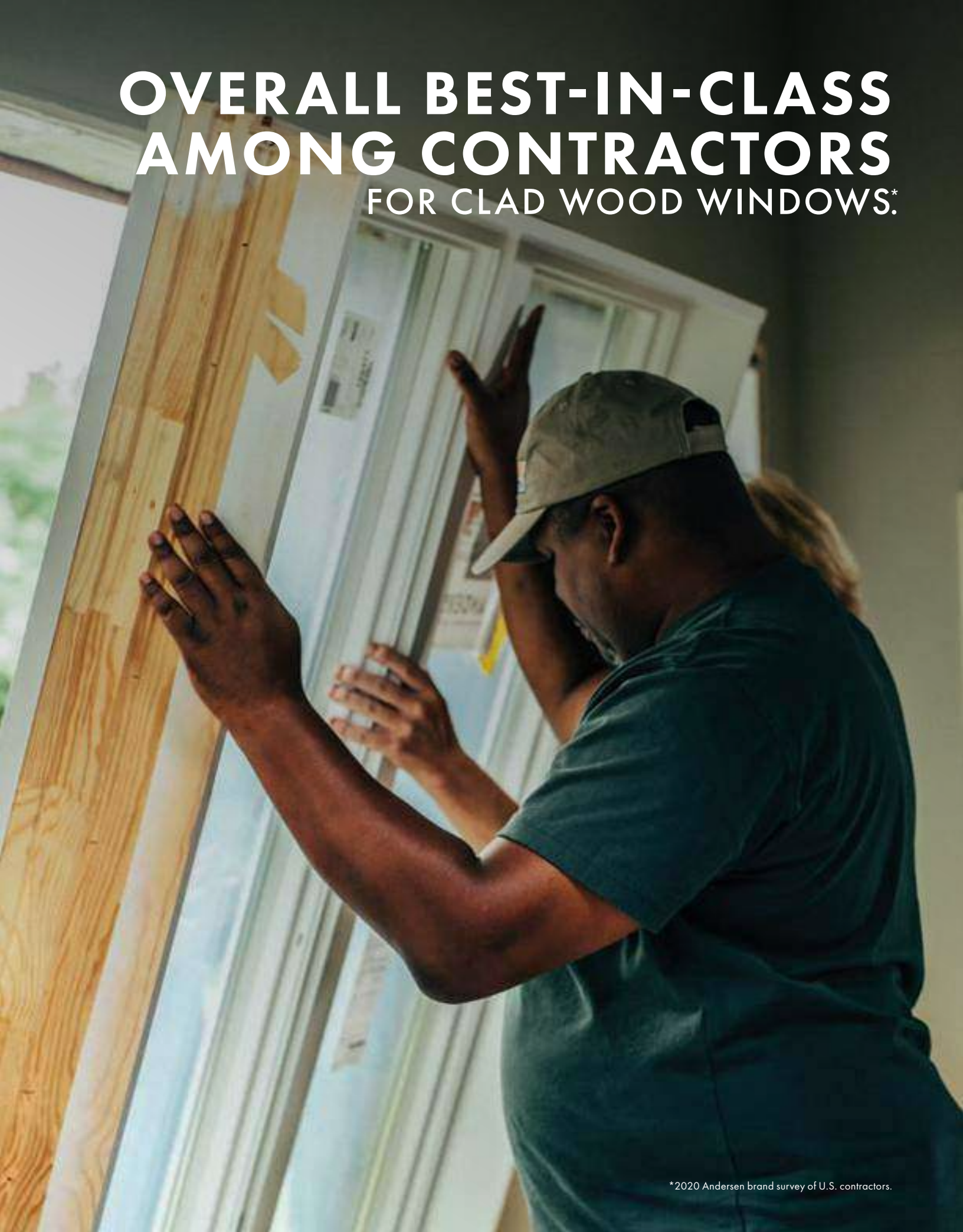
When the existing window frame is rotted or deteriorated, or you're modifying the size or shape of the existing window opening, our full-frame double-hung, casement, awning and specialty windows are available in custom sizes to fit your project.

CUSTOM-SIZE PATIO DOORS

Whether you need a hinged or gliding patio door for replacement, Andersen has a number of custom-size options to fit your project.

CUSTOM SIZES

*2020 Andersen brand surveys of U.S. realtors and homeowners.



OVERALL BEST-IN-CLASS AMONG CONTRACTORS

FOR CLAD WOOD WINDOWS.*

*2020 Andersen brand survey of U.S. contractors.

PRODUCT OVERVIEW

Double-Hung Windows

Choose Woodwright® double-hung windows that replicate the look of traditional architecture or our best-selling tilt-wash double-hung windows that are extremely energy efficient. Both are available as full-frame or insert windows, and can be part of bay window combinations. Coordinating picture and transom windows are also available.

Specialty Windows

A collection of stylish shapes to help distinguish a home's style or create a delicate accent.

Woodwright full-frame windows come in a variety of shapes.

Our **Narroline® double-hung window conversion kit** can upgrade Andersen® Narroline double-hung windows to tilt-wash windows.

Complementary specialty windows offer 35 additional shapes and custom sizes.

Casement & Awning Windows

Casement and awning windows are energy efficient, and are built with our low-maintenance Perma-Shield® cladding. Available for new construction or replacement, as integral twin or triple units, or as part of bay or bow window combinations. Coordinating picture and transom windows are also available.

Complementary casement windows come in a variety of shapes and in French casement options.

Gliding Windows

Superior energy efficiency, reliable performance and uncommon beauty. Both sash on our gliding windows open for improved ventilation.

Frenchwood® Gliding & Hinged Inswing Patio Doors

Wide wood profiles provide the authentic craftsmanship of traditional French doors, and our Perma-Shield exterior cladding protects the unit and offers low maintenance. Add blinds-between-the-glass to conveniently control light and privacy. To learn more about other traditional- and contemporary-style Andersen door options, visit **andersenwindows.com/doors**.

Frame any Frenchwood patio door with **Frenchwood patio door sidelights and transoms.**

Complementary curved top patio doors, including Springline™ and arch hinged doors, are handcrafted and complement our 400 Series products.

EXTERIOR & INTERIOR OPTIONS

Our Perma-Shield® exterior cladding system, a time-tested Andersen innovation, offers low maintenance and durability while also providing an attractive appearance. The interiors of all 400 Series windows and patio doors are available in unfinished stain-grade pine or with a long-lasting*, low-maintenance white finish. Select windows are also available with a dark bronze or black finish. 400 Series Woodwright® windows and Frenchwood® patio doors are also available with unfinished maple or oak interiors.

EXTERIOR COLORS**

White | Canvas | Sandtone | Terratone | Dark Bronze | Forest Green | Black

INTERIOR OPTIONS**

Pine | Maple | Oak | White | Dark Bronze† | Black†

Design your window at
andersenwindows.com/design-tool

*Visit andersenwindows.com/warranty for details.
**Some products are not available in all colors or wood species. See your Andersen supplier for details.
†Products with dark bronze and black interiors have matching exteriors; excludes complementary products.
Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

EXTERIOR TRIM SYSTEM

Add curb appeal with Andersen® exterior trim. Our trim is made with Fibrex® composite material, an environmentally smart composite that contains 40% pre-consumer reclaimed wood fiber by weight. For details, see page 175.

Time saving and cost effective

No nail holes, no visible fasteners, no painting

Innovative attachment strip

Sandtone window with cocoa bean trim

Independent of water management system for easy installation

Style that gets noticed

Our wide trim profiles overlap the window frame to create clean lines without visible sealant joints. Mitered brick mould corners and butt joints on flat casing profiles reflect traditional corner joints.

Visit andersenwindows.com/exteriortrim to learn more.

EXTERIOR COLORS

White | Canvas | Prairie Grass | Sandtone | Terratone | Cocoa Bean | Dark Bronze | Red Rock | Forest Green | Dove Gray | Black

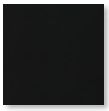
Printing limitations prevent exact duplication of colors. See your Andersen supplier for actual color samples.

WINDOW HARDWARE

Window hardware* enhances the overall design of a window and harmonizes with a home's décor. That's why we offer a broad range of hardware styles and finishes.

HARDWARE FINISHES


Antique Brass


Black


Bright Brass


Brushed Chrome


Distressed Bronze


Distressed Nickel


Gold Dust


Oil Rubbed Bronze


Polished Chrome


Satin Nickel


Stone


White

*Hardware is sold separately, except standard lock and keeper for double-hung windows.
Printing limitations prevent exact replication of finishes. See your Andersen supplier for actual finish samples.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

Casement & Awning Windows

CONTEMPORARY FOLDING

Black | Bright Brass | Gold Dust | Oil Rubbed Bronze
Satin Nickel | Stone | White

TRADITIONAL FOLDING

Antique Brass | Black | Bright Brass | **Distressed Bronze**
Distressed Nickel | Gold Dust | Oil Rubbed Bronze
Satin Nickel | Stone | White

CLASSIC SERIES™

Stone | **White**

ESTATE™

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

Folding handles avoid interference with window treatments.

Gliding Windows

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

Bold name denotes finish shown.

Woodwright® Double-Hung Windows

Standard Lock & Keeper

Antique Brass | **Black** | Bright Brass | Brushed Chrome | Distressed Bronze
Distressed Nickel | Gold Dust | Oil Rubbed Bronze | Polished Chrome
Satin Nickel | Stone | White

Tilt-Wash Double-Hung Windows

Standard Lock & Keeper

Black | **Gold Dust** | Stone | White

Stone is standard with natural interior units.
White comes with prefinished white interiors.
Other finishes optional.

Optional Lock & Keeper

ESTATE™

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

Optional Estate lock and keeper is available only for 400 Series tilt-wash double-hung windows. Estate lock and keeper reduces the clear opening height by 19/32" (15). Check with local building code officials to determine compliance with egress requirements.
Optional sash lifts shown on page 48 for Woodwright windows and page 76 for tilt-wash windows.

Hardware is sold separately, except standard lock and keeper for double-hung windows.
Dimensions in parentheses are in millimeters.
Printing limitations prevent exact replication of finishes. See your Andersen supplier for actual finish samples.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

PATIO DOOR HARDWARE

Patio door hardware* is available in a variety of designs to match virtually any style. Anvers,® Yuma,® Newbury,® Covington,™ Encino® and Whitmore® hardware options feature solid drop-forged brass for added strength, while Albany and Tribeca® hardware options are made of diecast zinc with durable powder-coated finishes. Also, look for additional hardware options such as exterior keyed locks and matching hinge finishes in the detailed product sections for each individual patio door.

ANVERS®

Bright Brass | Oil Rubbed Bronze
Satin Nickel

YUMA®

Distressed Bronze
Distressed Nickel

NEWBURY®

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

ALBANY

Black | **Gold Dust**
Stone | White

Bold name denotes finish shown.

HARDWARE FINISHES

*Hardware sold separately.
Matching hinges available for inswing patio doors; excludes FSB® hardware.
Mix-and-match interior and exterior style and finish options are available.
Bright brass and satin nickel finishes feature a 10-year limited warranty
Printing limitations prevent exact replication of finishes. See your Andersen supplier for actual finish samples.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

COVINGTON™

Antique Brass | **Bright Brass**
Oil Rubbed Bronze

ENCINO®

Distressed Bronze
Distressed Nickel

WHITMORE®

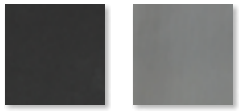
Antique Brass | Bright Brass
Oil Rubbed Bronze | Satin Nickel

TRIBECA®

Black | Stone | **White**

FSB® HINGED PATIO DOOR HARDWARE

Durable stainless steel FSB hinged door hardware* features clean lines and a sleek satin finish for a thoroughly modern look. Choose from four styles and two finishes.



Black Anodized Aluminum

Satin Stainless Steel

1035 1075 1076 1102**

*Hardware sold separately. **FSB style 1102 is not available in black anodized aluminum.
"FSB" is a registered trademark of Franz Schneider Brakel GmbH & Co.

GLASS OPTIONS

Andersen has the glass you need to get the performance you want. From SmartSun™ glass with HeatLock® coating that's ENERGY STAR® certified in all climate zones* to PassiveSun® glass that helps heat homes in northern areas, there's an option for every climate, project and customer. Check with your supplier for selections that meet ENERGY STAR requirements in your area.

		ENERGY		LIGHT	
GLASS		U-Factor How well a product prevents heat from escaping.	Solar Heat Gain Coefficient How well a product blocks heat caused by sunlight.	Visible Light Transmittance How much visible light comes through a product.	UV Protection How well a product blocks ultraviolet rays.
Low-E4®	Outstanding overall performance for climates where both heating and cooling costs are a concern.	●●●○	●●●○	●●●○	●●●○
Low-E4 with HeatLock® Coating	Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	●●●◐	●●●○	●●◐○	●●●○
SmartSun™	Thermal control similar to tinted glass, with visible light transmittance similar to Low-E4 glass.	●●●○	●●●●	●●◐○	●●●●
SmartSun with HeatLock Coating	Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	●●●◐	●●●●	●●○○	●●●●
Sun	Outstanding thermal control in southern climates where less solar heat gain is desired.	●●●○	●●●●	●○○○	●●●○
PassiveSun®	Ideal for northern, passive solar construction applications where solar heat gain is desired.	●●◐○	●○○○	●●●○	●●●○
PassiveSun with HeatLock Coating	Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	●●●○	●○○○	●●◐○	●●●○
Clear Dual-Pane	High visibility with basic thermal performance.	●○○○	○○○○	●●●●	○○○○

Center of glass performance only. Ratings based on glass options as of May 2021. Visit andersenwindows.com/energystar for ENERGY STAR map and NFRC total unit performance data.

HEATLOCK TECHNOLOGY

Applied to the room-side glass surface, HeatLock coating reflects heat back into the home for improved performance.

STORMWATCH® PROTECTION

Most Andersen 400 Series windows are available with impact-resistant glass and structural upgrades to meet the tough building codes of hurricane-prone coastal areas. See your local code official for specific requirements.

StormWATCH PROTECTION

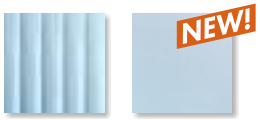
ADDITIONAL GLASS OPTIONS

Tempered safety glass is standard on patio doors and required for larger window sizes.

Laminated glass is available for added strength, enhanced security and sound control.

Patterned glass lets in light while obscuring vision and adds a unique, decorative touch. Cascade and Reed patterns can be ordered with either a vertical or horizontal orientation.

Cascade | Fern | Obscure



Reed | Satin Etch

ART GLASS

With art glass panels from Andersen, you can add interest, create focal points and make your work stand out. See page 173 or visit **andersenwindows.com/artglass** for more information.

TIME-SAVING FILM

We protect our products during delivery and construction with translucent film on the glass that peels away for a virtually spotless window.

For more details on our glass options, visit **andersenwindows.com/glass**.

ASK ABOUT ENERGY STAR

*Andersen 400 Series products only with SmartSun glass with HeatLock coating (argon gas blend), no grilles, no capillary breather tubes. Excludes patterned/textured glass.

"ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.

BLINDS-BETWEEN-THE-GLASS

Conveniently located between the panes of insulated glass, and protected from dust and damage for long-lasting protection, blinds-between-the-glass is available on 400 Series Frenchwood® gliding or hinged inswing patio doors. Available in white, and can be ordered with any exterior door color with a pine or prefinished white interior.

GLASS SPACER OPTIONS

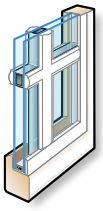
Black or white glass spacers are now available as a standard offering on select products, in addition to stainless steel glass spacers, to provide more ways to customize project designs and achieve a contemporary style. Colored glass spacers blend in with the color of the window or door for a sleek design, or serve as a shadow line.

Add full divided light grilles, and the grille spacer bar between the glass will match the selected glass spacer color.

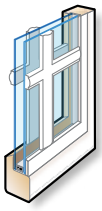
Black | White | Stainless Steel

GRILLE OPTIONS

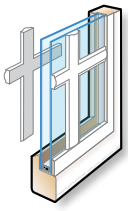
Grille patterns are available in widths and configurations to fit any architectural style or the taste of any customer. We can match virtually any existing grille pattern, and we'll even work with you and your customers to create custom patterns.



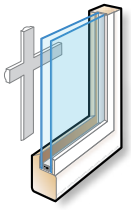
Permanent exterior
Permanent interior with spacer



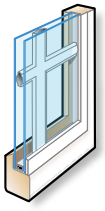
Permanent exterior
Permanent interior



Permanent exterior
Removable interior



Removable interior



Finelight grilles-between-the-glass*

FULL DIVIDED LIGHT

Permanently applied to the interior and exterior of the window, with a spacer between the glass.

SIMULATED DIVIDED LIGHT

Permanent grilles on the exterior and interior, with no spacer between the glass. We also offer permanent exterior grilles with removable interior grilles.

CONVENIENT CLEANING OPTIONS

Removable interior grilles come off for easy cleaning. Finelight™ grilles-between-the-glass are installed between the glass panes, and feature a contoured profile in 1" (25) and ¾" (19) widths.

Grille Bar Widths & Patterns

¾" (19) | ⅞" (22) | 1⅛" (29) | 2¼" (57)

Actual width shown.

Our 2¼" (57) width grille can be positioned horizontally across the center of a casement window to simulate the look of a double-hung window.

To see all of the standard patterns available for a specific window or door, refer to the detailed product sections in this product guide.

*⅞" (22), 1⅛" (29) and 2¼" (57) are not available in Finelight grilles-between-the-glass.
Dimensions in parentheses are in millimeters.

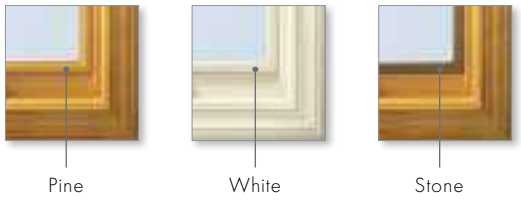
INSECT SCREEN OPTIONS

Andersen® TruScene® insect screens provide more than 50% greater clarity than conventional Andersen insect screens for a beautifully unobstructed view. They let in 25% more fresh air;* all while keeping out unwanted small insects.

ANDERSEN INNOVATION

TRUSCENE INSECT SCREENS

For casement and awning windows, TruScene insect screen frames are available in stone, white, dark bronze, black and natural pine veneer that can be stained to match the window. Insect screen frames for all other windows are installed on the exterior of the window and match the unit's exterior color.



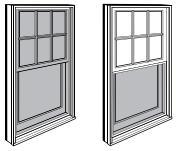
Pine | White | Stone | Dark Bronze | Black

CONVENTIONAL INSECT SCREENS

Conventional insect screen frames are available in white, stone, dark bronze and black for casement and awning windows. Insect screen frames for all other windows and doors are installed on the exterior of the window or door and match the unit's exterior color.

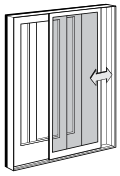
INSECT SCREEN CONFIGURATIONS

Windows

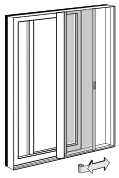


Full insect screens are available for Andersen venting windows. **Half insect screens** are also available for the lower sash of our Woodwright® and tilt-wash double-hung windows.

Gliding Patio Doors

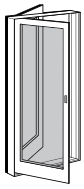


Gliding insect screens are available for two- and four-panel doors.

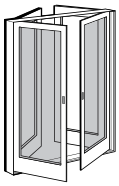


Retractable insect screens are installed on the exterior and opens side to side across the width of the opening. When not in use, it neatly retracts into a small canister. Available for two-panel doors.

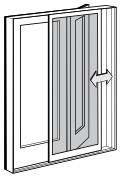
Hinged Inswing Patio Doors



Hinged insect screens are available for single-panel doors.



Double-hinged insect screens are available for two-panel active-passive doors.



Gliding insect screens are available for all two- and three-panel doors.

*TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.

THE CLAD WOOD WINDOWS

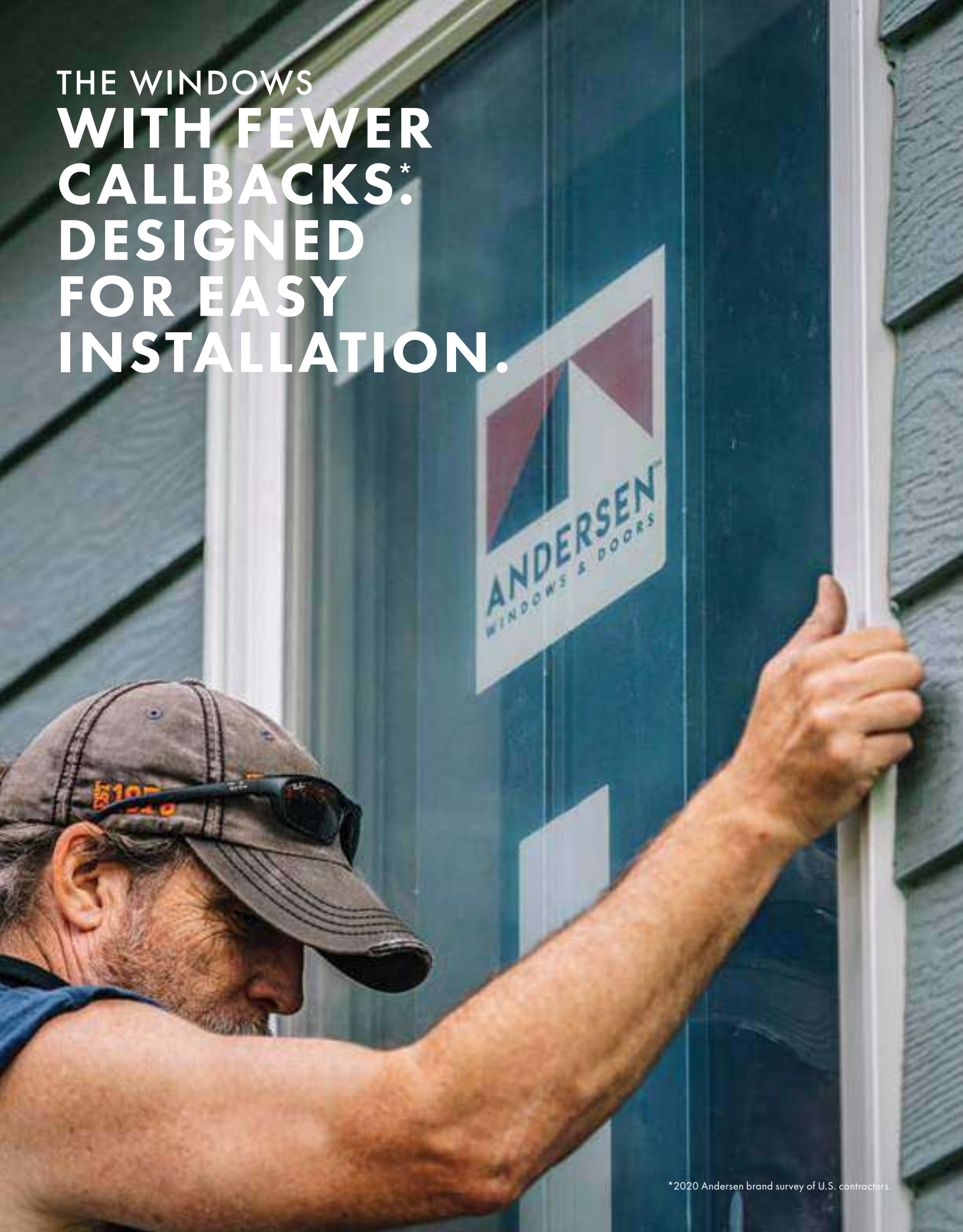
MORE CONTRACTORS WOULD CHOOSE FOR THEIR OWN HOME.*

*2020 Andersen brand survey of U.S. contractors.

COMPARISON CHART

Use the quick reference chart below to decide which Andersen® 400 Series products best fit your project needs.

	WINDOWS								PATIO DOORS	
FEATURES	Woodwright® Double-Hung Full-Frame	Woodwright Double-Hung Insert	Tilt-Wash Double-Hung Full-Frame	Tilt-Wash Double-Hung Insert	Narroline® Double-Hung Conversion Kit	Casement	Awning	Gliding	Frenchwood® Gliding	Frenchwood Hinged Inswing
Low-Maintenance Exteriors										
White	●	●	●	●	●	●	●	●	●	●
Canvas	●	●	●	●		●	●	●		
Sandtone	●	●	●	●	●	●	●	●	●	●
Terratone	●	●	●	●	●	●	●	●	●	●
Dark Bronze	●	●	●	●		●	●	●		
Forest Green	●	●	●	●		●	●	●	●	●
Black	●	●	●	●		●	●	●		
Interiors										
Pine	●	●	●	●	●	●	●	●	●	●
Maple	●	●							●	●
Oak	●	●							●	●
White	●	●	●	●	●	●	●	●	●	●
Sandtone								●		
Dark Bronze			●	●		●	●	●		
Black			●	●		●	●	●		
Easy Cleaning										
Tilt-to-Clean Sash	●	●	●	●	●					
Grilles & Blinds										
Full Divided Light	●	●	●	●	●	●	●	●	●	●
Simulated Divided Light	●	●	●	●	●	●	●	●	●	●
Finelight™ Grilles-Between-the-Glass	●	●	●	●	●	●	●	●	●	●
Removable Interior Grilles	●	●	●	●	●	●	●	●	●	●
Blinds-Between-the-Glass									●	●
High-Performance Glass Additional glass options are available. See page 12 for details. For patio doors, all glass options are tempered.										
Low-E4®	●	●	●	●	●	●	●	●	●	●
Low-E4 SmartSun™	●	●	●	●	●	●	●	●	●	●
Low-E4 Sun	●	●	●	●	●	●	●	●	●	●
Low-E4 PassiveSun	●	●	●	●	●	●	●	●	●	●
Clear Dual-Pane						●	●			
HeatLock® Coating	●	●	●	●	●	●	●	●	●	●
Performance Option										
Stormwatch® Protection	PG upgrade		●			●	●			
Glass Spacers										
Stainless Steel	●	●	●	●	●	●	●	●	●	●
Black or White	●	●	●	●	●	●	●	●	●	●
Standard Sizes										
Minimum Width	1'-9 5/8"	1'-4 1/2"	1'-9 5/8"	1'-9 1/4"	Fits Narroline double-hung windows made after 1967	1'-5"	2'-0 1/8"	2'-11 1/4"	4'-11 1/4"	2'-6 1/8"
Maximum Width	3'-9 5/8"	3'-9 5/8"	3'-9 5/8"	3'-8 7/8"		2'-11 15/16"	5'-11 7/8"	5'-11 1/4"	15'-9"	8'-11 1/8"
Minimum Height	3'-0 7/8"	2'-3 3/4"	3'-0 7/8"	3'-0 3/8"		2'-0 1/8"	1'-5"	1'-10 1/4"	6'-7 1/2"	6'-7 1/2"
Maximum Height	6'-4 7/8"	6'-5"	7'-8 7/8"	7'-6 5/8"		5'-11 7/8"	4'-0"	4'-11 1/4"	7'-11 1/2"	7'-11 1/2"
Custom Sizes	●	●	●	●		●	●		●	●



THE WINDOWS
WITH FEWER CALLBACKS*. DESIGNED FOR EASY INSTALLATION.

*2020 Andersen brand survey of U.S. contractors.

CASEMENT & AWNING WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FEATURES

FRAME

A A seamless one-piece, rigid vinyl frame cover is secured to the exterior of the frame to protect the wood frame from moisture and maintain an attractive appearance while minimizing maintenance.

B The seamless rigid vinyl cover extends 1 3/8" (35) around the perimeter of the unit, creating a flange to help seal the unit to the structure.

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

D Interior stops are unfinished pine. Low-maintenance prefinished white, dark bronze and black** interiors are also available.

SASH

E Rigid vinyl encases the entire sash – a vinyl weld protects each sash corner for superior weathertightness. It maintains an attractive appearance and minimizes maintenance.

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

G Vinyl closed-cell foam weatherstrip is factory installed on the perimeter of the sash.

GLASS

H In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

I A glazing bead and silicone provide superior weathertightness and durability.

J High-Performance options include:

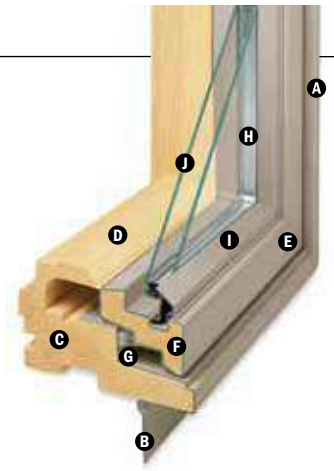
- Low-E4® glass
- Low-E4 HeatLock® glass
- Low-E4 SmartSun™ glass
- Low-E4 SmartSun HeatLock glass
- Low-E4 Sun glass

Tempered 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 job site.

Patterned Glass

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



HARDWARE

Smooth Control Hardware System

The smooth control hardware system employs a worm gear drive for easy operation. Units with a wash mode have hinges that move the sash away from the frame to provide easier glass cleaning. CXW15, CXW155, CXW16 and CXW25 sizes not available with wash mode. Hardware option and finish must be specified. Operator handle and cover sold separately.

Single-Actuation Casement Lock

On casement windows, a single-actuation lock easily releases all locking points on the casement sash 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 window combination designs.

*Visit andersenwindows.com/warranty for details.

**Products with dark bronze and black interiors have matching exteriors.

Dimensions in parentheses are in millimeters.

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

StormWATCH PROTECTION

400 Series casement and awning windows are available with Stormwatch® Protection. For more details, visit **andersenwindows.com/coastal**.

Performance Grade (PG) Upgrades

Performance upgrades are available for select sizes of standard, non-impact casement and awning windows, allowing these units to achieve higher performance ratings. Performance Grade (PG) ratings are more comprehensive than Design Pressure (DP) ratings for measuring product performance. Visit **andersenwindows.com** for up-to-date performance information of individual products. Contact your Andersen supplier for availability.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | White

Dark Bronze** | Black**

HARDWARE OPTIONS Sold Separately

CONTEMPORARY FOLDING

Black | Bright Brass | Gold Dust
Oil Rubbed Bronze | **Satin Nickel**
Stone | White

TRADITIONAL FOLDING

Antique Brass | Black | Bright Brass
Distressed Bronze | Distressed Nickel
Gold Dust | Oil Rubbed Bronze
Satin Nickel | Stone | White

Folding handles avoid interference with window treatments.

CLASSIC SERIES™

Stone | **White**

ESTATE™

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

Bold name denotes finish shown.

HARDWARE FINISHES

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

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

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Standard jamb depth is 2 7/8" (73). Extension jambs are available in unfinished pine or prefinished white, dark bronze and black. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Extension jambs can be factory applied to either three sides (stool and apron application) or four sides (picture frame casing).

Thick Replacement Extension Jambs

To help preserve original alignment of trim and paint lines in replacement situations, special 1 1/8" (29) thick replacement extension jambs are available. Factory-applied and non-applied extension jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Non-applied extension jambs are available in 12' (3658) lineals. Detail on page 34.

Drywall Return Bead

A drywall return bead is available in a narrow or wide dimension with unfinished pine or prefinished white, dark bronze and black interiors. Can be ordered factory applied or in non-applied lineals. Detail on page 34.

HARDWARE

Corrosion-Resistant Components

Corrosion-resistant hinge and operator arm hardware is designed for applications in harsh and corrosive environments such as heavy industrial or coastal areas.*

Window Opening Control Device

A window opening control device is available, which limits sash travel to less than 4" (102) when the window is first opened. Available factory applied, or as a field-applied kit in white, stone and black.

Power Operator for Awning Windows

Awning windows can be ordered with an operator enhanced by PowerAssist™ technology that opens and closes the window with the touch of a button. Easy to install, the 24-volt system features a concealed window power drive, battery backup in case of a power outage and a moisture sensor that automatically closes the window when it rains. A wireless remote control is available (sold separately).

The PowerAssist system is controlled by a wall-mounted console, which includes a power box, battery, touch pad and mounting bracket. Windows can be ordered factory prepped to save time, or they can be ordered as a field kit. Power driver requires field installation. PowerAssist technology eliminates the need for sash locks. Available for windows up to 5' (1524) wide. Not available for units with Stormwatch® Protection or performance upgrades.

SPECIAL USE OPERATOR HANDLES

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.

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. The 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.

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 **800-313-8889** or email
lofk@andersencorp.com.

GLASS

Andersen® Art Glass

Andersen art glass panels come in a variety of original patterns. See art glass section starting on page 173 for more information or visit **andersenwindows.com/artglass**.

INSECT SCREENS

TruScene® Insect Screens

Andersen TruScene insect screens let in over 25% more fresh air** and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. For casement and awning windows, frames are available in white, stone, dark bronze and black, or with pine veneer frame interiors to blend with the wood interior of the window.

Conventional Insect Screens

Conventional insect screens have charcoal powder-coated aluminum screen mesh. Available with frames in white, stone, dark bronze and black.

GRILLES

Grilles are available in a variety of configurations and widths. For casement and awning window grille patterns, see page 34.

EXTERIOR TRIM

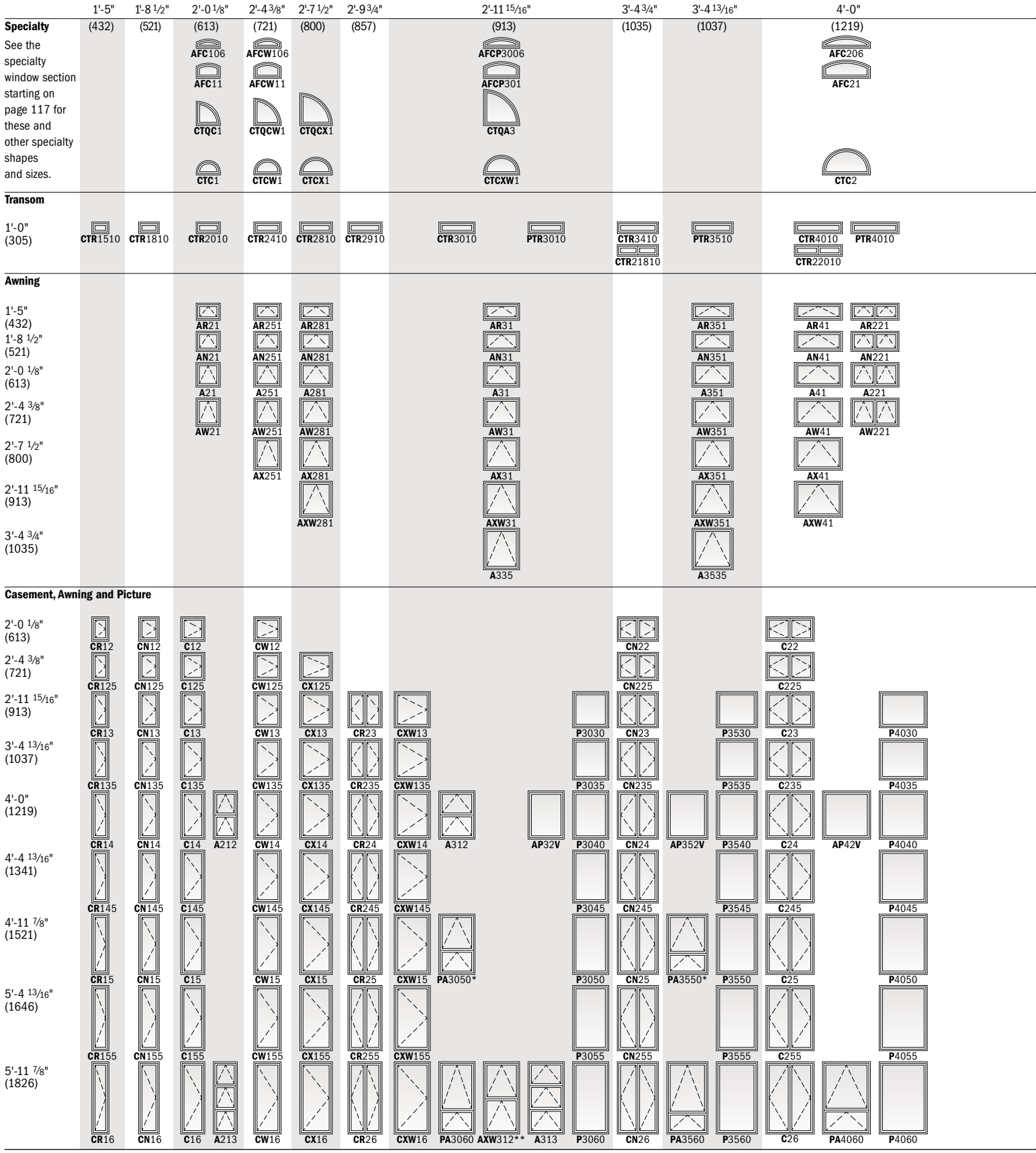
Available with Andersen exterior trim. See exterior trim section starting on page 175.

CAUTION:

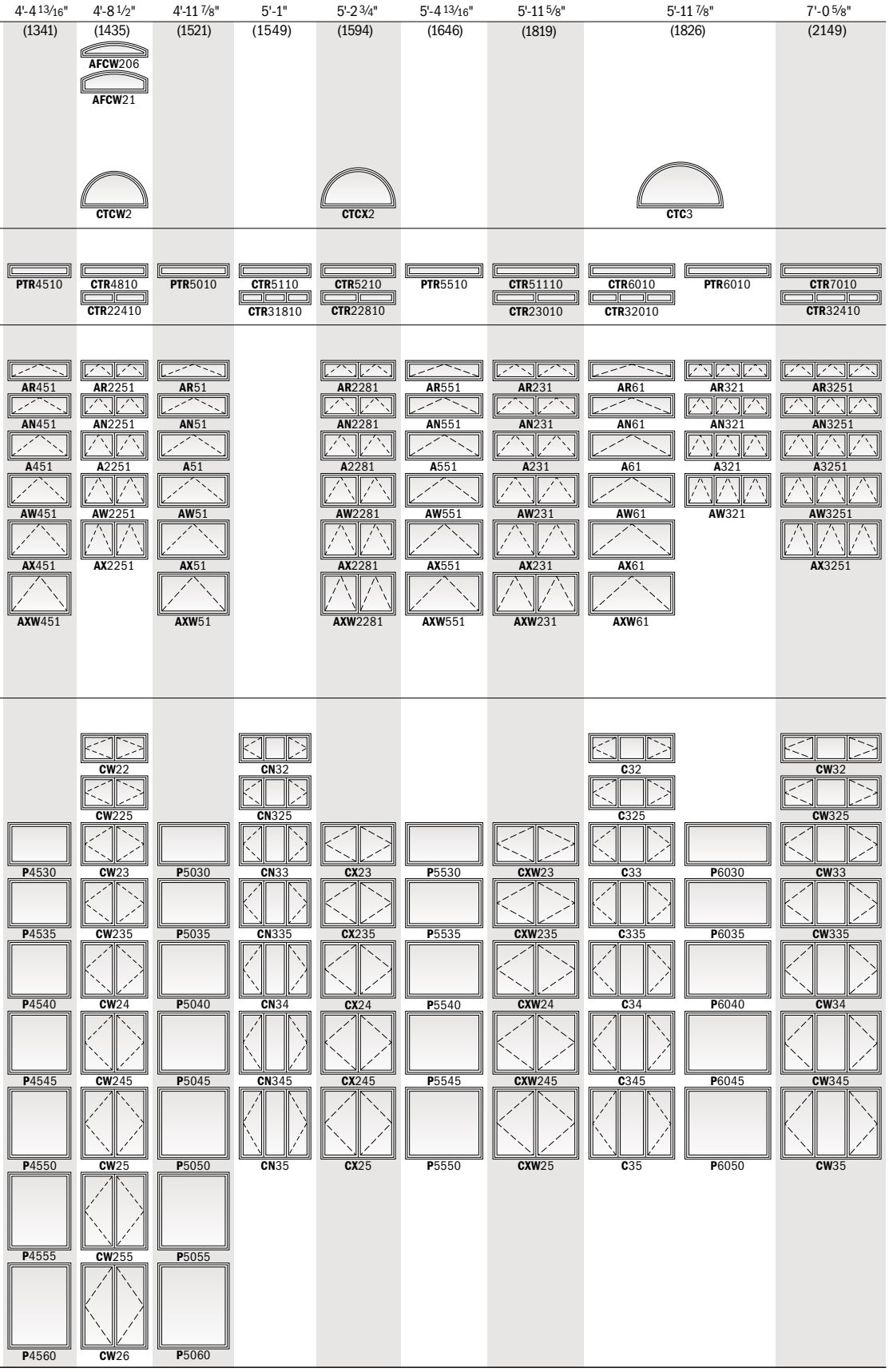
- Painting and staining may cause damage to rigid vinyl.
- 400 Series windows in Terratone color may be painted any color lighter than Terratone color using quality oil-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Visit andersenwindows.com/warranty for details.
**TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.
Dimensions in parentheses are in millimeters.

Alignment Grid for Standard-Size Casement, Awning, Picture, Transom, Half Circle, Quarter Circle and Arch Windows



*Dimensions in parentheses are in millimeters.
*Actual height of 4'-11 13/16" (1519).
**Actual height of 5'-11 5/8" (1819).



Similar jamb profiles enable these standard-size windows to be combined in multiple combinations. Custom-size windows are also available.

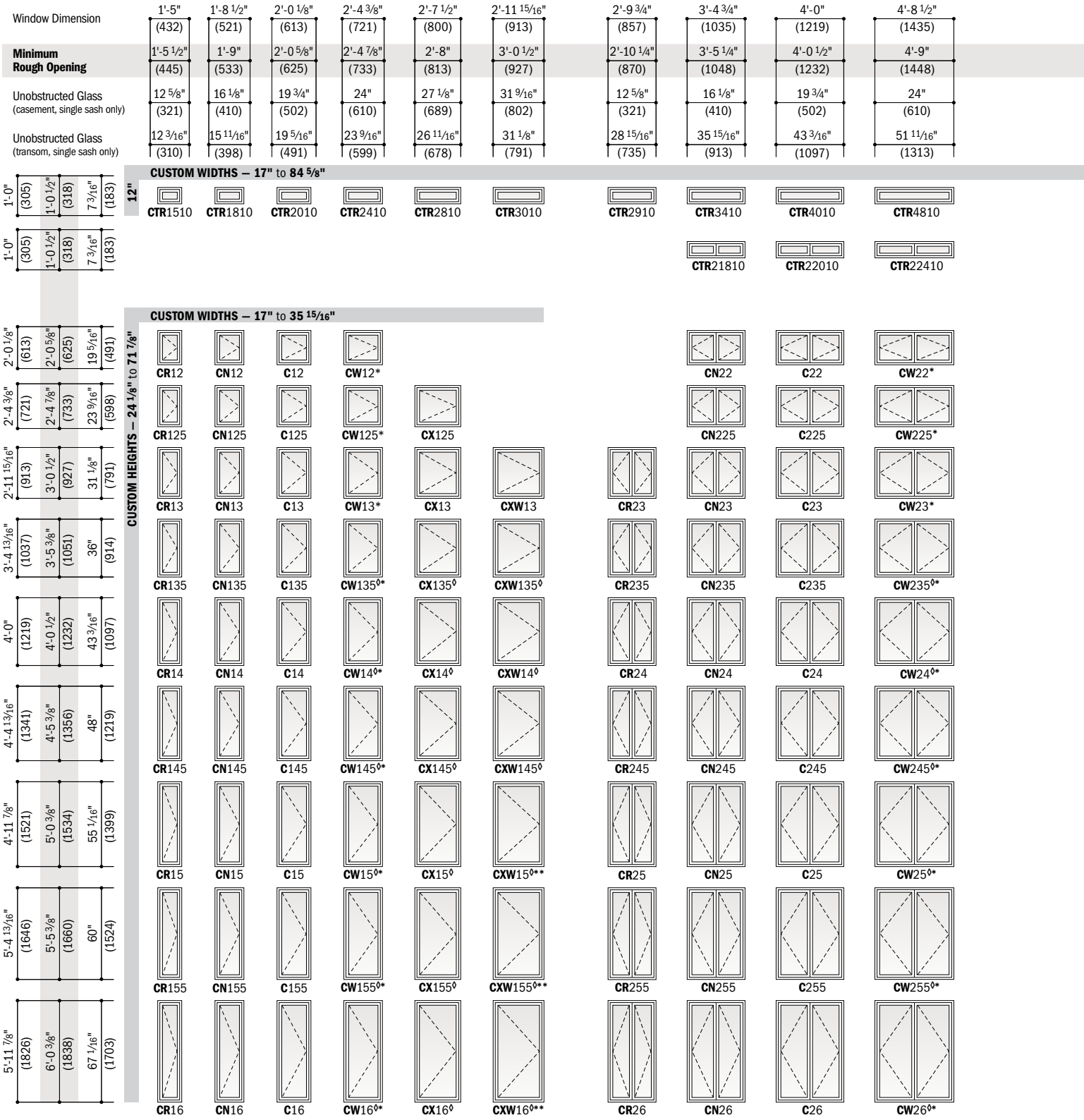
Window widths and heights shown. See individual size charts for additional dimensions.

In addition to venting configurations shown, other standard configurations are available.

• Dimensions in parentheses are in millimeters.

Table of Casement and Transom Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

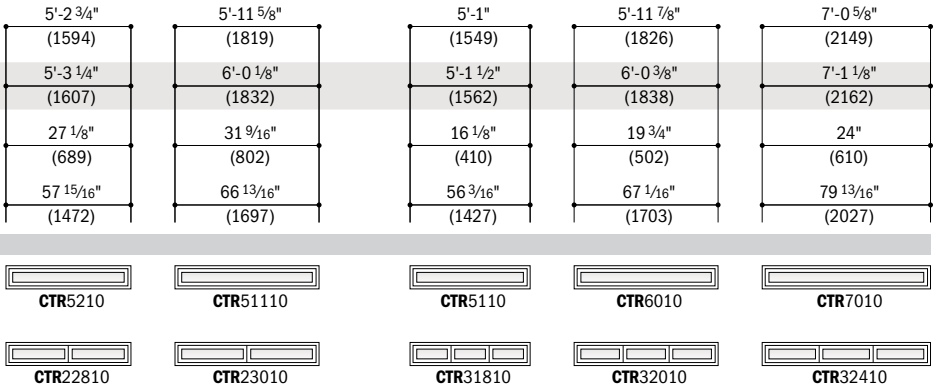


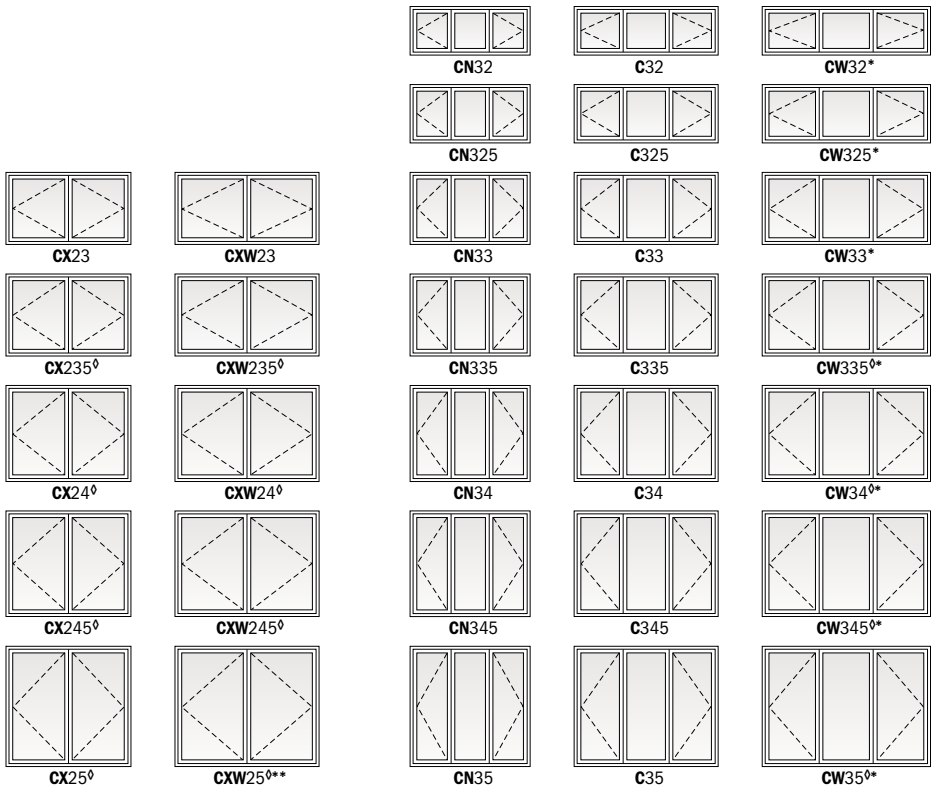
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

◊Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610) with appropriate hinge specified. See tables on pages 29-30.

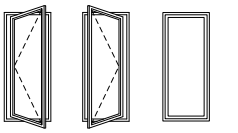
*Meet clear opening width of 20" (508) using hinge with wash mode and control bracket (bracket can be pivoted for cleaning position) and meet clear opening width of 22" (559) using hinge for widest clear opening.

**Available with straight-arm operators (hinged for widest clear opening) only.





Custom-size windows are available in 1/8" (3) increments. Windows can also be custom sized to match standard sizes ending in a sixteenth of an inch. **Single windows only.** See page 33 for custom sizes and specifications.



Choose left, right or stationary as viewed from the exterior. In addition to venting shown in table, other standard configurations are available for single, twin and triple windows. Transom (**CTR**) windows are stationary only.

Twin and triple windows shown have one continuous outer frame.

Transom (CTR) windows can be used over casement or awning windows, and may be rotated 90° and used as a sidelight with casement, awning or picture windows.

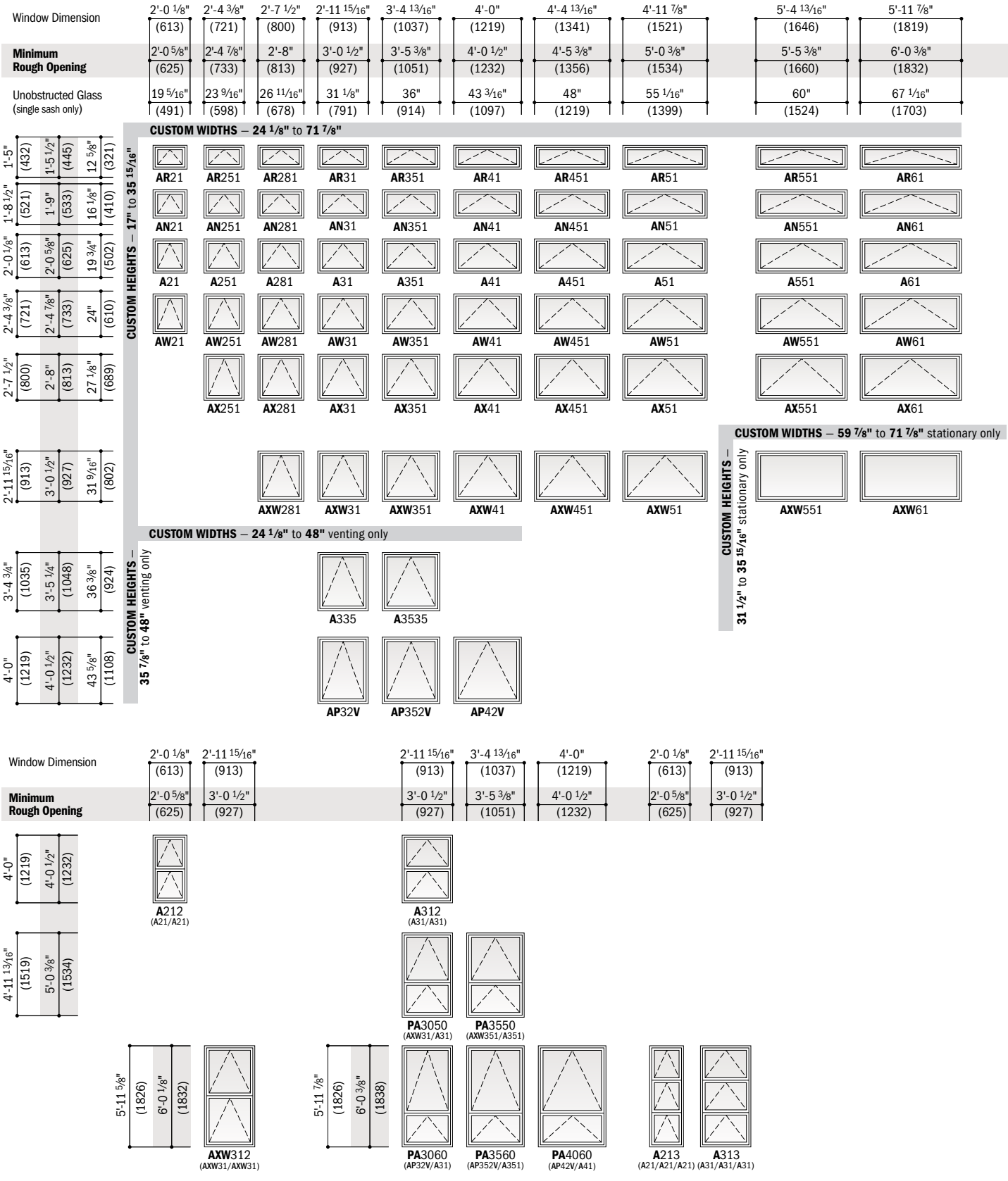
Grille patterns shown on page 34.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

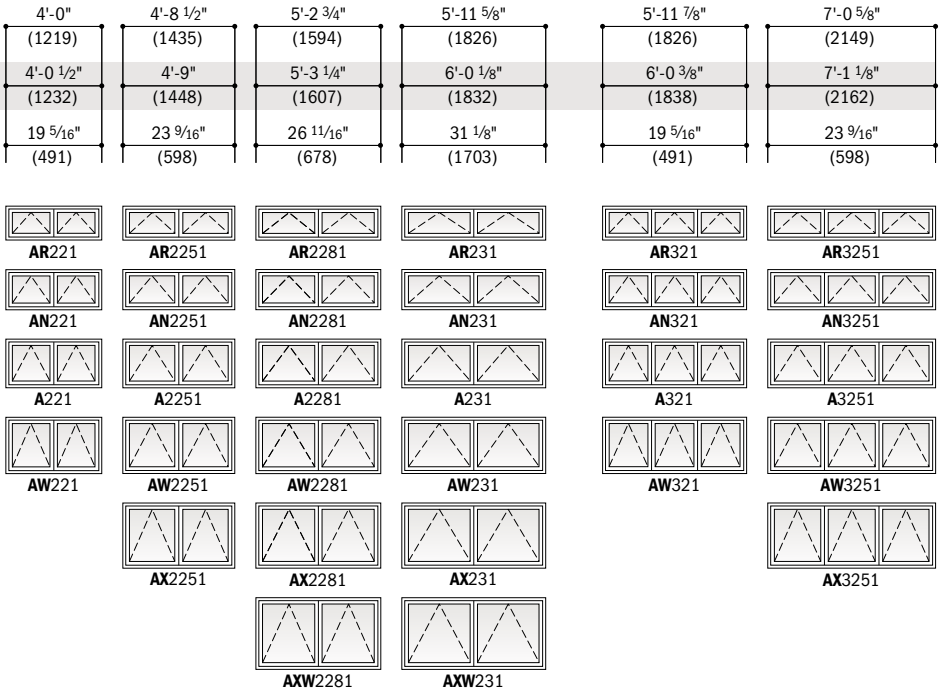
◊Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610) with appropriate hinge specified. See tables on pages 29-30.
*Meet clear opening width of 20" (508) using hinge with wash mode and control bracket (bracket can be pivoted for cleaning position) and meet clear opening width of 22" (559) using hinge for widest clear opening.
**Available with straight-arm operators (hinged for widest clear opening) only.

Table of Awning Window Sizes

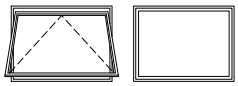
Scale 1/8" (3) = 1'-0" (305) – 1:96



- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.



Custom-size windows are available in 1/8" (3) increments. Windows can also be custom sized to match standard sizes ending in a sixteenth of an inch. **Single windows only.** See page 33 for custom sizes and specifications.



Venting Stationary

Choose venting or stationary. **AXW**551 and **AXW**61 windows are stationary only. In addition to venting shown in table, other standard configurations are available for twin, triple and stacked windows.

Twin, triple and stacked windows shown have one continuous outer frame.

Awning windows must be installed to vent as shown, and should not be rotated and used as a hopper.

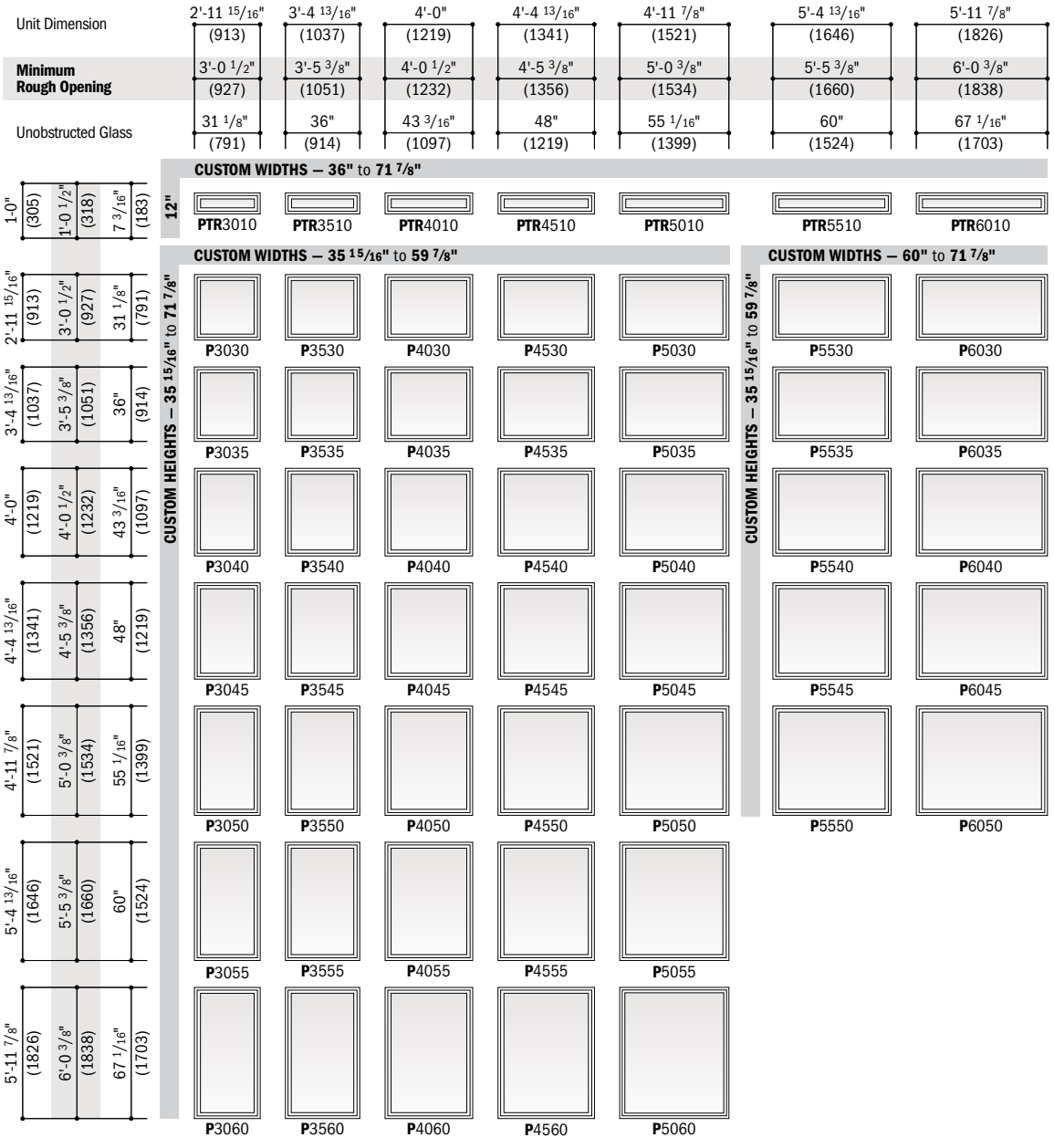
Transom (CTR) windows (shown on pages 24-25) can be used over casement or awning windows, and may be rotated 90° and used as a sidelight with casement, awning or picture windows.

Grille patterns shown on page 34.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Table of Picture and Transom Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96



Custom-size windows are available in 1/8" (3)increments. Windows can also be custom sized to match standard sizes ending in a sixteenth of an inch. See page 33 for custom sizes and specifications.

Picture (P) and transom (PTR) windows may be rotated 90° to align with casement or awning windows.

Grille patterns shown on page 34.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Casement Window Opening and Area Specifications

Window Number	Clear Opening Area		Clear Opening in Full Open Position			Glass Area	Vent Area		Top of Subfloor to Top of Inside Sill Stop	Overall Window Area
	Hinge for Widest Clear Opening Sq. Ft./(m²)	Hinge with Wash Mode Sq. Ft./(m²)	Hinge for Widest Clear Opening Inches/(mm)	Hinge with Wash Mode Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m²)	Hinge for Widest Clear Opening Sq. Ft./(m²)	Hinge with Wash Mode Sq. Ft./(m²)	Inches/(mm)	Sq. Ft./(m²)
CR12	–	1.0 (0.09)	–	7 5/16" (186)	19 1/4" (489)	1.7 (0.16)	–	1.5 (0.14)	60 9/16" (1538)	2.8 (0.26)
CR125	–	1.2 (0.11)	–	7 5/16" (186)	23 7/16" (595)	2.0 (0.19)	–	1.8 (0.17)	56 3/8" (1432)	3.3 (0.31)
CR13	–	1.6 (0.15)	–	7 5/16" (186)	31 1/16" (789)	2.7 (0.25)	–	2.4 (0.22)	48 3/4" (1238)	4.2 (0.39)
CR135	–	1.8 (0.17)	–	7 5/16" (186)	35 15/16" (913)	3.1 (0.29)	–	2.7 (0.25)	43 7/8" (1114)	4.8 (0.45)
CR14	–	2.2 (0.20)	–	7 5/16" (186)	43 1/8" (1095)	3.8 (0.35)	–	3.3 (0.31)	36 11/16" (932)	5.7 (0.53)
CR145	–	2.4 (0.22)	–	7 5/16" (186)	47 15/16" (1218)	4.2 (0.39)	–	3.6 (0.33)	31 7/8" (810)	6.2 (0.58)
CR15	–	2.8 (0.26)	–	7 5/16" (186)	55" (1397)	4.8 (0.45)	–	4.2 (0.39)	24 13/16" (630)	7.1 (0.66)
CR155	–	3.1 (0.29)	–	7 5/16" (186)	59 15/16" (1522)	5.2 (0.48)	–	4.5 (0.42)	19 7/8" (505)	7.7 (0.72)
CR16	–	3.4 (0.32)	–	7 5/16" (186)	67" (1702)	5.9 (0.55)	–	5.1 (0.47)	12 13/16" (325)	8.5 (0.79)
CR23	–	1.6 (0.15)	–	7 5/16" (186)	31 1/16" (789)	5.4 (0.50)	–	4.7 (0.44)	48 3/4" (1238)	8.4 (0.78)
CR235	–	1.8 (0.17)	–	7 5/16" (186)	35 15/16" (913)	6.3 (0.59)	–	5.4 (0.50)	43 7/8" (1114)	9.6 (0.89)
CR24	–	2.2 (0.20)	–	7 5/16" (186)	43 1/8" (1095)	7.6 (0.71)	–	6.5 (0.60)	36 11/16" (932)	11.3 (1.05)
CR245	–	2.4 (0.22)	–	7 5/16" (186)	47 15/16" (1218)	8.4 (0.78)	–	7.3 (0.68)	31 7/8" (810)	12.4 (1.15)
CR25	–	2.8 (0.26)	–	7 5/16" (186)	55" (1397)	9.6 (0.89)	–	8.3 (0.77)	24 13/16" (630)	14.2 (1.32)
CR255	–	3.1 (0.29)	–	7 5/16" (186)	59 15/16" (1522)	10.5 (0.98)	–	9.1 (0.85)	19 7/8" (505)	15.4 (1.43)
CR26	–	3.4 (0.32)	–	7 5/16" (186)	67" (1702)	11.7 (1.09)	–	10.2 (0.95)	12 13/16" (325)	17.0 (1.58)
CN12	–	1.5 (0.14)	–	10 13/16" (275)	19 1/4" (489)	2.2 (0.20)	–	1.9 (0.18)	60 9/16" (1538)	3.4 (0.32)
CN125	–	1.8 (0.17)	–	10 13/16" (275)	23 7/16" (595)	2.6 (0.24)	–	2.3 (0.21)	56 3/8" (1432)	4.0 (0.37)
CN13	–	2.3 (0.21)	–	10 13/16" (275)	31 1/16" (789)	3.5 (0.33)	–	3.1 (0.29)	48 3/4" (1238)	5.1 (0.47)
CN135	–	2.7 (0.25)	–	10 13/16" (275)	35 15/16" (913)	4.0 (0.37)	–	3.6 (0.33)	43 7/8" (1114)	5.8 (0.54)
CN14	–	3.2 (0.30)	–	10 13/16" (275)	43 1/8" (1095)	4.8 (0.45)	–	4.3 (0.40)	36 11/16" (932)	6.8 (0.63)
CN145	–	3.6 (0.33)	–	10 13/16" (275)	47 15/16" (1218)	5.4 (0.50)	–	4.8 (0.45)	31 7/8" (810)	7.5 (0.70)
CN15	–	4.1 (0.38)	–	10 13/16" (275)	55" (1397)	6.2 (0.58)	–	5.5 (0.51)	24 13/16" (630)	8.5 (0.79)
CN155	–	4.5 (0.42)	–	10 13/16" (275)	59 15/16" (1522)	6.7 (0.62)	–	6.0 (0.56)	19 7/8" (505)	9.2 (0.86)
CN16	–	5.0 (0.47)	–	10 13/16" (275)	67" (1702)	7.5 (0.70)	–	6.7 (0.62)	12 13/16" (325)	10.2 (0.95)
CN22	–	1.5 (0.14)	–	10 13/16" (275)	19 1/4" (489)	4.4 (0.41)	–	3.8 (0.35)	60 9/16" (1538)	6.8 (0.63)
CN225	–	1.8 (0.17)	–	10 13/16" (275)	23 7/16" (595)	5.2 (0.48)	–	4.6 (0.43)	56 6/16" (1432)	8.0 (0.74)
CN23	–	2.3 (0.21)	–	10 13/16" (275)	31 1/16" (789)	7.0 (0.65)	–	6.2 (0.58)	48 3/4" (1238)	10.2 (0.95)
CN235	–	2.7 (0.25)	–	10 13/16" (275)	35 15/16" (913)	8.0 (0.74)	–	7.2 (0.67)	43 7/8" (1114)	11.5 (1.07)
CN24	–	3.2 (0.30)	–	10 13/16" (275)	43 1/8" (1095)	9.7 (0.90)	–	8.6 (0.80)	36 11/16" (932)	13.6 (1.26)
CN245	–	3.6 (0.33)	–	10 13/16" (275)	47 15/16" (1218)	10.7 (0.99)	–	9.6 (0.89)	31 7/8" (810)	15.0 (1.39)
CN25	–	4.1 (0.38)	–	10 13/16" (275)	55" (1397)	12.3 (1.14)	–	11.0 (1.02)	24 13/16" (630)	16.9 (1.57)
CN255	–	4.5 (0.42)	–	10 13/16" (275)	59 15/16" (1522)	13.4 (1.25)	–	12.0 (1.12)	19 7/8" (505)	18.4 (1.71)
CN26	–	5.0 (0.47)	–	10 13/16" (275)	67" (1702)	15.0 (1.39)	–	13.4 (1.25)	12 13/16" (325)	20.3 (1.89)
CN32	–	1.5 (0.14)	–	10 13/16" (275)	19 1/4" (489)	6.6 (0.61)	–	3.8 (0.35)	60 9/16" (1538)	10.2 (0.95)
CN325	–	1.8 (0.17)	–	10 13/16" (275)	23 7/16" (595)	7.8 (0.73)	–	4.6 (0.43)	56 3/8" (1432)	12.0 (1.12)
CN33	–	2.3 (0.21)	–	10 13/16" (275)	31 1/16" (789)	10.5 (0.98)	–	6.2 (0.58)	48 3/4" (1238)	15.3 (1.42)
CN335	–	2.7 (0.25)	–	10 13/16" (275)	35 15/16" (913)	12.0 (1.12)	–	7.2 (0.67)	43 7/8" (1114)	17.4 (1.62)
CN34	–	3.2 (0.30)	–	10 13/16" (275)	43 1/8" (1095)	14.4 (1.34)	–	8.6 (0.80)	36 11/16" (932)	20.4 (1.90)
CN345	–	3.6 (0.33)	–	10 13/16" (275)	47 15/16" (1218)	16.2 (1.51)	–	9.6 (0.89)	31 7/8" (810)	22.5 (2.09)
CN35	–	4.1 (0.38)	–	10 13/16" (275)	55" (1397)	18.6 (1.73)	–	11.0 (1.02)	24 13/16" (630)	25.5 (2.37)
CN355	–	4.5 (0.42)	–	10 13/16" (275)	59 15/16" (1522)	20.1 (1.87)	–	12.0 (1.11)	19 7/8" (505)	27.6 (2.57)
CN36	–	5.0 (0.47)	–	10 13/16" (275)	67" (1702)	22.5 (2.09)	–	13.4 (1.24)	12 13/16" (325)	30.6 (2.84)
C12	2.5 (0.23)	1.9 (0.18)	18 5/16" (465)	14 7/16" (367)	19 1/4" (489)	2.6 (0.24)	2.5 (0.23)	2.4 (0.22)	60 9/16" (1538)	4.0 (0.37)
C125	3.0 (0.28)	2.4 (0.22)	18 5/16" (465)	14 7/16" (367)	23 7/16" (595)	3.2 (0.30)	3.0 (0.28)	2.9 (0.27)	56 3/8" (1432)	4.7 (0.44)
C13	4.0 (0.37)	3.1 (0.29)	18 5/16" (465)	14 7/16" (367)	31 1/16" (789)	4.3 (0.40)	4.0 (0.37)	3.9 (0.36)	48 3/4" (1238)	6.0 (0.56)
C135	4.6 (0.43)	3.6 (0.33)	18 5/16" (465)	14 7/16" (367)	35 15/16" (913)	4.9 (0.46)	4.6 (0.43)	4.5 (0.42)	43 7/8" (1114)	6.8 (0.63)
C14	5.5 (0.51)	4.3 (0.40)	18 5/16" (465)	14 7/16" (367)	43 1/8" (1095)	5.9 (0.55)	5.5 (0.51)	5.4 (0.50)	36 11/16" (932)	8.0 (0.74)
C145	6.1 (0.57)	4.8 (0.45)	18 5/16" (465)	14 7/16" (367)	47 15/16" (1218)	6.6 (0.61)	6.1 (0.57)	6.0 (0.56)	31 7/8" (810)	8.8 (0.82)
C15	7.0 (0.65)	5.5 (0.51)	18 5/16" (465)	14 7/16" (367)	55" (1397)	7.5 (0.70)	7.0 (0.65)	6.9 (0.64)	24 13/16" (630)	10.0 (0.93)
C155	7.6 (0.71)	6.0 (0.56)	18 5/16" (465)	14 7/16" (367)	59 15/16" (1522)	8.2 (0.76)	7.6 (0.71)	7.5 (0.70)	19 7/8" (505)	10.9 (1.01)
C16	8.5 (0.79)	6.7 (0.62)	18 5/16" (465)	14 7/16" (367)	67" (1702)	9.2 (0.86)	8.5 (0.79)	8.4 (0.78)	12 13/16" (325)	12.0 (1.12)
C22	2.5 (0.23)	1.9 (0.18)	18 5/16" (465)	14 7/16" (367)	19 1/4" (489)	5.2 (0.48)	5.0 (0.46)	4.8 (0.45)	60 9/16" (1538)	8.0 (0.74)
C225	3.0 (0.28)	2.4 (0.22)	18 5/16" (465)	14 7/16" (367)	23 7/16" (595)	6.4 (0.59)	6.0 (0.56)	5.8 (0.54)	56 3/8" (1432)	9.4 (0.87)
C23	4.0 (0.37)	3.1 (0.29)	18 5/16" (465)	14 7/16" (367)	31 1/16" (789)	8.5 (0.79)	7.9 (0.73)	7.8 (0.73)	48 3/4" (1238)	12.0 (1.12)
C235	4.6 (0.43)	3.6 (0.33)	18 5/16" (465)	14 7/16" (367)	35 15/16" (913)	9.9 (0.92)	9.2 (0.86)	9.0 (0.84)	43 7/8" (1114)	13.6 (1.26)
C24	5.5 (0.51)	4.3 (0.40)	18 5/16" (465)	14 7/16" (367)	43 1/8" (1095)	11.8 (1.10)	11.0 (1.02)	10.8 (1.00)	36 11/16" (932)	16.0 (1.49)
C245	6.1 (0.57)	4.8 (0.45)	18 5/16" (465)	14 7/16" (367)	47 15/16" (1218)	13.1 (1.22)	12.2 (1.13)	12.0 (1.12)	31 7/8" (810)	17.6 (1.64)
C25	7.0 (0.65)	5.5 (0.51)	18 5/16" (465)	14 7/16" (367)	55" (1397)	15.1 (1.40)	14.0 (1.30)	13.8 (1.28)	24 13/16" (630)	20.0 (1.86)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.

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Casement Window Opening and Area Specifications *(continued)*

Window Number	Clear Opening Area: Hinge for Widest Clear Opening Sq. Ft./(m²)	Clear Opening Area: Hinge with Wash Mode Sq. Ft./(m²)	Clear Opening in Full Open Position: Hinge for Widest Clear Opening Inches/(mm)	Clear Opening in Full Open Position: Hinge with Wash Mode Inches/(mm)	Clear Opening in Full Open Position: Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area: Hinge for Widest Clear Opening Sq. Ft./(m²)	Vent Area: Hinge with Wash Mode Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
C255	7.6 (0.71)	6.0 (0.56)	18 5/16" (465)	14 7/16" (367)	59 15/16" (1522)	16.4 (1.52)	15.3 (1.42)	15.0 (1.39)	19 7/8" (505)	21.6 (2.01)
C26	8.5 (0.79)	6.7 (0.62)	18 5/16" (465)	14 7/16" (367)	67" (1702)	18.4 (1.71)	17.1 (1.59)	16.8 (1.56)	12 13/16" (325)	24.0 (2.23)
C32	2.5 (0.23)	1.9 (0.18)	18 5/16" (465)	14 7/16" (367)	19 1/4" (489)	7.8 (0.73)	5.0 (0.46)	4.8 (0.45)	60 9/16" (1538)	12.0 (1.12)
C325	3.0 (0.28)	2.4 (0.22)	18 5/16" (465)	14 7/16" (367)	23 7/16" (595)	9.6 (0.89)	6.0 (0.56)	5.8 (0.54)	56 3/8" (1432)	14.1 (1.31)
C33	4.0 (0.37)	3.1 (0.29)	18 5/16" (465)	14 7/16" (367)	31 1/16" (789)	12.8 (1.19)	7.9 (0.73)	7.8 (0.73)	48 3/4" (1238)	17.9 (1.66)
C335	4.6 (0.43)	3.6 (0.33)	18 5/16" (465)	14 7/16" (367)	35 15/16" (913)	14.8 (1.38)	9.2 (0.86)	9.0 (0.84)	43 7/8" (1114)	20.4 (1.90)
C34	5.5 (0.51)	4.3 (0.40)	18 5/16" (465)	14 7/16" (367)	43 1/8" (1095)	17.7 (1.64)	11.0 (1.02)	10.8 (1.00)	36 11/16" (932)	24.0 (2.23)
C345	6.1 (0.57)	4.8 (0.45)	18 5/16" (465)	14 7/16" (367)	47 15/16" (1218)	19.7 (1.83)	12.2 (1.13)	12.0 (1.12)	31 7/8" (810)	26.4 (2.45)
C35	7.0 (0.65)	5.5 (0.51)	18 5/16" (465)	14 7/16" (367)	55" (1397)	22.6 (2.10)	14.0 (1.30)	13.8 (1.28)	24 13/16" (630)	29.9 (2.78)
CW12*	3.0 (0.28)	2.5 (0.23)	22 9/16" (573)	18 11/16" (475)	19 1/4" (489)	3.2 (0.30)	3.0 (0.28)	3.0 (0.28)	60 9/16" (1538)	4.8 (0.45)
CW125*	3.7 (0.34)	3.0 (0.28)	22 9/16" (573)	18 11/16" (475)	23 7/16" (595)	3.9 (0.36)	3.7 (0.34)	3.6 (0.33)	56 3/8" (1432)	5.6 (0.52)
CW13*	4.9 (0.46)	4.0 (0.37)	22 9/16" (573)	18 11/16" (475)	31 1/16" (789)	5.2 (0.48)	4.9 (0.46)	4.8 (0.45)	48 3/4" (1238)	7.1 (0.66)
CW135 ◊*	5.7 (0.53)	5.1 (0.47)	22 9/16" (573)	20" (508)	36 3/8" (924)	6.0 (0.56)	5.7 (0.53)	5.5 (0.51)	43 7/8" (1114)	8.0 (0.74)
CW14 ◊*	6.8 (0.63)	6.0 (0.56)	22 9/16" (573)	20" (508)	43 1/8" (1095)	7.2 (0.67)	6.8 (0.63)	6.6 (0.61)	36 11/16" (932)	9.5 (0.88)
CW145 ◊*	7.5 (0.70)	6.7 (0.62)	22 9/16" (573)	20" (508)	47 15/16" (1218)	8.0 (0.74)	7.5 (0.70)	7.3 (0.68)	31 7/8" (810)	10.4 (0.97)
CW15 ◊*	8.6 (0.80)	7.6 (0.71)	22 9/16" (573)	20" (508)	55" (1397)	9.2 (0.86)	8.6 (0.80)	8.4 (0.78)	24 13/16" (630)	11.8 (1.10)
CW155 ◊*	9.4 (0.87)	8.3 (0.77)	22 9/16" (573)	20" 508)	59 15/16" (1522)	10.0 (0.93)	9.4 (0.87)	9.1 (0.85)	19 7/8" (505)	12.8 (1.19)
CW16 ◊*	10.5 (0.98)	9.3 (0.86)	22 9/16" (573)	20" (508)	67" (1702)	11.2 (1.04)	10.5 (0.98)	10.2 (0.95)	12 13/16" (325)	14.2 (1.32)
CW22*	3.0 (0.28)	2.5 (0.23)	22 9/16" (573)	18 11/16" (475)	19 1/4" (489)	6.4 (0.59)	6.0 (0.56)	6.0 (0.56)	60 9/16" (1538)	9.6 (0.89)
CW225*	3.7 (0.34)	3.0 (0.28)	22 9/16" (573)	18 11/16" (475)	23 7/16" (595)	7.8 (0.72)	7.4 (0.69)	7.2 (0.67)	56 3/8" (1432)	11.2 (1.04)
CW23*	4.9 (0.46)	4.0 (0.37)	22 9/16" (573)	18 11/16" (475)	31 1/16" (789)	10.4 (0.97)	9.8 (0.91)	9.6 (0.89)	48 3/4" (1238)	14.1 (1.31)
CW235 ◊*	5.7 (0.53)	5.1 (0.47)	22 9/16" (573)	20" (508)	36 3/8" (924)	12.0 (1.12)	11.4 (1.06)	11.1 (1.03)	43 7/8" (1114)	16.0 (1.49)
CW24 ◊*	6.8 (0.63)	6.0 (0.56)	22 9/16" (573)	20" (508)	43 1/8" (1095)	14.4 (1.34)	13.5 (1.25)	13.1 (1.22)	36 11/16" (932)	18.8 (1.75)
CW245 ◊*	7.5 (0.70)	6.7 (0.62)	22 9/16" (573)	20" (508)	47 15/16" (1218)	16.0 (1.49)	15.0 (1.39)	14.6 (1.36)	31 7/8" (810)	20.8 (1.93)
CW25 ◊*	8.6 (0.80)	7.6 (0.71)	22 9/16" (573)	20" (508)	55" (1397)	18.3 (1.70)	17.3 (1.61)	16.7 (1.55)	24 13/16" (630)	23.5 (2.18)
CW255 ◊*	9.4 (0.87)	8.3 (0.77)	22 9/16" (573)	20" (508)	59 15/16" (1522)	20.0 (1.86)	18.8 (1.75)	18.2 (1.69)	19 7/8" (505)	25.6 (2.38)
CW26 ◊*	10.5 (0.98)	9.3 (0.86)	22 9/16" (573)	20" (508)	67" (1702)	22.3 (2.07)	21.0 (1.95)	20.4 (1.90)	12 13/16" (325)	28.2 (2.62)
CW32*	3.0 (0.28)	2.5 (0.23)	22 9/16" (573)	18 11/16" (475)	19 1/4" (489)	9.6 (0.89)	6.0 (0.56)	6.0 (0.56)	60 9/16" (1538)	14.4 (1.34)
CW325*	3.7 (0.34)	3.0 (0.28)	22 9/16" (573)	18 11/16" (475)	23 7/16" (595)	11.7 (1.09)	7.4 (0.69)	7.2 (0.67)	56 3/8" (1432)	16.8 (1.56)
CW33*	4.9 (0.46)	4.0 (0.37)	22 9/16" (567)	18 11/16" (475)	31 1/16" (789)	15.6 (1.45)	9.8 (0.91)	9.6 (0.89)	48 3/4" (1238)	21.1 (1.96)
CW335 ◊*	5.7 (0.53)	5.1 (0.47)	22 9/16" (567)	20" (508)	36 3/8" (924)	18.0 (1.67)	11.4 (1.06)	11.1 (1.03)	43 7/8" (1114)	24.0 (2.23)
CW34 ◊*	6.8 (0.63)	6.0 (0.56)	22 9/16" (567)	20" (508)	43 1/8" (1095)	21.6 (2.01)	13.6 (1.26)	13.1 (1.22)	36 11/16" (932)	28.2 (2.62)
CW345 ◊*	7.5 (0.70)	6.7 (0.62)	22 9/16" (567)	20" (508)	47 15/16" (1218)	24.0 (2.23)	15.0 (1.39)	14.6 (1.36)	31 7/8" (810)	31.0 (2.88)
CW35 ◊*	8.6 (0.80)	7.6 (0.71)	22 9/16" (567)	20" (508)	55" (1397)	27.6 (2.56)	17.2 (1.60)	16.7 (1.55)	24 13/16" (630)	35.2 (3.27)
CX125	4.2 (0.39)	3.5 (0.33)	25 11/16" (653)	21 13/16" (554)	23 7/16" (595)	4.4 (0.41)	4.2 (0.39)	4.1 (0.38)	56 3/8" (1432)	6.2 (0.58)
CX13	5.5 (0.52)	4.7 (0.44)	25 11/16" (653)	21 13/16" (554)	31 1/16" (789)	5.9 (0.54)	5.5 (0.52)	5.4 (0.51)	48 3/4" (1238)	7.9 (0.73)
CX135 ◊	6.4 (0.60)	5.4 (0.51)	25 11/16" (653)	21 13/16" (554)	35 15/16" (913)	6.8 (0.63)	6.4 (0.60)	6.3 (0.59)	43 7/8" (1114)	8.9 (0.83)
CX14 ◊	7.7 (0.72)	6.5 (0.61)	25 11/16" (653)	21 13/16" (554)	43 1/8" (1095)	8.1 (0.76)	7.7 (0.72)	7.6 (0.70)	36 11/16" (932)	10.5 (0.98)
CX145 ◊	8.6 (0.80)	7.3 (0.67)	25 11/16" (653)	21 13/16" (554)	47 15/16" (1218)	9.0 (0.84)	8.6 (0.80)	8.4 (0.78)	31 7/8" (810)	11.6 (1.07)
CX15 ◊	9.8 (0.91)	8.3 (0.77)	25 11/16" (653)	21 13/16" (554)	55" (1397)	10.4 (0.96)	9.8 (0.91)	9.7 (0.90)	24 13/16" (630)	13.1 (1.22)
CX155 ◊	10.7 (0.99)	9.1 (0.84)	25 11/16" (653)	21 13/16" (554)	59 15/16" (1522)	11.3 (1.05)	10.7 (0.99)	10.5 (0.98)	19 7/8" (505)	14.2 (1.32)
CX16 ◊	12.0 (1.11)	10.1 (0.94)	25 11/16" (653)	21 13/16" (554)	67" (1702)	12.6 (1.17)	12.0 (1.11)	11.8 (1.09)	12 13/16" (325)	15.7 (1.46)
CX23	5.5 (0.52)	4.7 (0.44)	25 11/16" (653)	21 13/16" (554)	31 1/16" (789)	11.7 (1.09)	11.1 (1.03)	10.9 (1.01)	48 3/4" (1238)	15.7 (1.46)
CX235 ◊	6.4 (0.60)	5.4 (0.51)	25 11/16" (653)	21 13/16" (554)	35 15/16" (913)	13.6 (1.26)	12.8 (1.19)	12.6 (1.17)	43 7/8" (1114)	17.8 (1.65)
CX24 ◊	7.7 (0.72)	6.5 (0.61)	25 11/16" (653)	21 13/16" (554)	43 1/8" (1095)	16.3 (1.51)	15.4 (1.43)	15.1 (1.41)	36 11/16" (932)	20.9 (1.94)
CX245 ◊	8.6 (0.80)	7.3 (0.67)	25 11/16" (653)	21 13/16" (554)	47 15/16" (1218)	18.1 (1.68)	17.1 (1.59)	16.8 (1.56)	31 7/8" (810)	23.0 (2.14)
CX25 ◊	9.8 (0.91)	8.3 (0.77)	25 11/16" (653)	21 13/16" (554)	55" (1397)	20.7 (1.93)	19.6 (1.82)	19.3 (1.79)	24 13/16" (630)	26.1 (2.42)
CXW13 ◊	6.5 (0.60)	5.6 (0.53)	30 1/8" (765)	26 1/4" (667)	31 1/16" (789)	6.8 (0.63)	6.5 (0.60)	6.1 (0.57)	48 3/4" (1238)	9.0 (0.84)
CXW135 ◊	7.5 (0.70)	6.6 (0.61)	30 1/8" (765)	26 1/4" (667)	35 15/16" (913)	7.9 (0.73)	7.5 (0.70)	7.0 (0.65)	43 7/8" (1114)	10.2 (0.95)
CXW14 ◊	9.0 (0.84)	7.9 (0.73)	30 1/8" (765)	26 1/4" (667)	43 1/8" (1095)	9.5 (0.88)	9.0 (0.84)	8.4 (0.78)	36 11/16" (932)	12.0 (1.12)
CXW145 ◊	10.0 (0.93)	8.8 (0.82)	30 1/8" (765)	26 1/4" (667)	47 15/16" (1218)	10.5 (0.98)	10.0 (0.93)	9.4 (0.87)	31 7/8" (810)	13.2 (1.23)
CXW15 ◊**	11.5 (1.07)	–	30 1/8" (765)	–	55" (1397)	12.1 (1.12)	11.5 (1.07)	–	24 13/16" (630)	14.9 (1.38)
CXW155 ◊**	12.6 (1.17)	–	30 1/8" (765)	–	59 15/16" (1522)	13.1 (1.22)	12.6 (1.17)	–	19 7/8" (505)	16.2 (1.51)
CXW16 ◊**	14.0 (1.30)	–	30 1/8" (765)	–	67" (1702)	14.7 (1.37)	14.0 (1.30)	–	12 13/16" (325)	17.9 (1.66)
CXW23	6.5 (0.60)	5.6 (0.53)	30 1/8" (765)	26 1/4" (667)	31 1/16" (789)	13.6 (1.26)	13.0 (1.21)	12.2 (0.57)	48 3/4" (1238)	17.9 (1.66)
CXW235 ◊	7.5 (0.70)	6.5 (0.61)	30 1/8" (765)	26 1/4" (667)	35 5/16" (913)	15.8 (1.47)	15.0 (1.39)	14.0 (0.57)	43 7/8" (1114)	20.3 (1.89)
CXW24 ◊	9.0 (0.84)	7.9 (0.73)	30 1/8" (765)	26 1/4" (667)	43 1/8" (1059)	19.0 (1.77)	18.0 (1.67)	16.8 (0.57)	36 11/16" (932)	23.9 (2.22)
CXW245 ◊	10.0 (0.93)	8.7 (0.81)	30 1/8" (765)	26 1/4" (667)	47 15/16" (1218)	21.0 (1.95)	20.0 (1.86)	18.8 (0.57)	31 7/8" (810)	26.3 (2.44)
CXW25 ◊**	11.5 (1.07)	–	30 1/8" (765)	–	55" (1397)	24.2 (2.25)	23.0 (2.14)	–	24 13/16" (630)	29.8 (2.77)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
◊Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610) with appropriate hinge specified.
*Meet clear opening width of 20" (508) using hinge with wash mode and control bracket (bracket can be pivoted for cleaning position) and meet clear opening width of 22" (559) using hinge for widest clear opening.
**Available with straight-arm operators (hinged for widest clear opening) only.

Awning Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Depth Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
AR21	0.9 (0.08)	19 1/2" (495)	6 3/8" (162)	1.7 (0.16)	0.9 (0.08)	67 7/16" (1713)	2.8 (0.26)
AR251	1.1 (0.10)	23 3/4" (603)	6 3/8" (162)	2.0 (0.19)	1.1 (0.10)	67 7/16" (1713)	3.3 (0.31)
AR281	1.2 (0.11)	26 7/8" (683)	6 3/8" (162)	2.3 (0.21)	1.2 (0.11)	67 7/16" (1713)	3.7 (0.34)
AR31	1.4 (0.13)	31 5/16" (795)	6 3/8" (162)	2.7 (0.25)	1.4 (0.13)	67 7/16" (1713)	4.2 (0.39)
AR351	1.6 (0.15)	36 3/16" (919)	6 3/8" (162)	3.1 (0.29)	1.6 (0.15)	67 7/16" (1713)	4.8 (0.45)
AR41	1.9 (0.18)	43 3/8" (1102)	6 3/8" (162)	3.8 (0.35)	1.9 (0.18)	67 7/16" (1713)	5.7 (0.53)
AR451	2.1 (0.20)	48 3/16" (1224)	6 3/8" (162)	4.2 (0.39)	2.1 (0.20)	67 7/16" (1713)	6.2 (0.58)
AR51	2.5 (0.23)	55 1/2" (1410)	6 3/8" (162)	4.8 (0.45)	2.5 (0.23)	67 7/16" (1713)	7.1 (0.66)
AR551	2.7 (0.25)	60 3/16" (1529)	6 3/8" (162)	5.2 (0.48)	2.7 (0.25)	67 7/16" (1713)	7.7 (0.72)
AR61	3.0 (0.28)	67 1/2" (1715)	6 3/8" (162)	5.9 (0.55)	3.0 (0.28)	67 7/16" (1713)	8.5 (0.79)
AR221	0.9 (0.08)	19 1/2" (495)	6 3/8" (162)	3.4 (0.32)	1.7 (0.16)	67 7/16" (1713)	5.6 (0.52)
AR2251	1.1 (0.10)	23 3/4" (603)	6 3/8" (162)	4.0 (0.37)	2.1 (0.20)	67 7/16" (1713)	6.6 (0.61)
AR2281	1.2 (0.11)	26 7/8" (683)	6 3/8" (162)	4.6 (0.43)	2.4 (0.22)	67 7/16" (1713)	7.4 (0.69)
AR231	1.4 (0.13)	31 5/16" (795)	6 3/8" (162)	5.4 (0.50)	2.8 (0.26)	67 7/16" (1713)	8.4 (0.78)
AR321	0.9 (0.08)	19 1/2" (495)	6 3/8" (162)	5.1 (0.47)	2.6 (0.24)	67 7/16" (1713)	8.4 (0.78)
AR3251	1.1 (0.10)	23 3/4" (603)	6 3/8" (162)	6.0 (0.56)	3.2 (0.29)	67 7/16" (1713)	9.9 (0.92)
AN21	0.9 (0.08)	19 1/2" (495)	6 7/16" (164)	2.2 (0.20)	0.9 (0.08)	63 15/16" (1624)	3.4 (0.32)
AN251	1.1 (0.10)	23 3/4" (603)	6 7/16" (164)	2.6 (0.24)	1.1 (0.10)	63 15/16" (1624)	4.0 (0.37)
AN281	1.2 (0.11)	26 7/8" (683)	6 7/16" (164)	3.0 (0.28)	1.2 (0.11)	63 15/16" (1624)	4.5 (0.42)
AN31	1.4 (0.13)	31 5/16" (795)	6 7/16" (164)	3.5 (0.33)	1.4 (0.13)	63 15/16" (1624)	5.1 (0.47)
AN351	1.6 (0.15)	36 3/16" (919)	6 7/16" (164)	4.0 (0.37)	1.6 (0.15)	63 15/16" (1624)	5.8 (0.54)
AN41	1.9 (0.18)	43 3/8" (1102)	6 7/16" (164)	4.8 (0.45)	1.9 (0.18)	63 15/16" (1624)	6.8 (0.63)
AN451	2.2 (0.20)	48 3/16" (1224)	6 7/16" (164)	5.4 (0.50)	2.2 (0.20)	63 15/16" (1624)	7.5 (0.70)
AN51	2.5 (0.23)	55 1/2" (1410)	6 7/16" (164)	6.2 (0.58)	2.5 (0.23)	63 15/16" (1624)	8.5 (0.79)
AN551	2.7 (0.25)	60 3/16" (1529)	6 7/16" (164)	6.7 (0.62)	2.7 (0.25)	63 15/16" (1624)	9.2 (0.86)
AN61	3.0 (0.28)	67 1/2" (1715)	6 7/16" (164)	7.5 (0.70)	3.0 (0.28)	63 15/16" (1624)	10.2 (0.95)
AN221	0.9 (0.08)	19 1/2" (495)	6 7/16" (164)	4.4 (0.41)	1.7 (0.16)	63 15/16" (1624)	6.8 (0.63)
AN2251	1.1 (0.10)	23 3/4" (603)	6 7/16" (164)	5.2 (0.48)	2.1 (0.20)	63 15/16" (1624)	8.0 (0.74)
AN2281	1.2 (0.11)	26 7/8" (683)	6 7/16" (164)	6.0 (0.56)	2.4 (0.22)	63 15/16" (1624)	9.0 (0.84)
AN231	1.4 (0.13)	31 5/16" (795)	6 7/16" (164)	7.0 (0.65)	2.8 (0.26)	63 15/16" (1624)	10.2 (0.95)
AN321	0.9 (0.08)	19 1/2" (495)	6 7/16" (164)	6.6 (0.61)	2.6 (0.24)	63 15/16" (1624)	10.2 (0.95)
AN3251	1.1 (0.10)	23 3/4" (603)	6 7/16" (164)	7.8 (0.73)	3.2 (0.30)	63 15/16" (1624)	12.0 (1.12)
A21	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	2.6 (0.24)	0.9 (0.08)	60 5/16" (1532)	4.0 (0.37)
A251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	3.2 (0.30)	1.1 (0.10)	60 5/16" (1532)	4.8 (0.45)
A281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	3.7 (0.34)	1.2 (0.11)	60 5/16" (1532)	5.3 (0.49)
A31	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	4.3 (0.40)	1.4 (0.13)	60 5/16" (1532)	6.0 (0.56)
A351	1.6 (0.15)	36 3/16" (919)	6 1/2" (165)	4.9 (0.46)	1.6 (0.15)	60 5/16" (1532)	6.8 (0.63)
A41	2.0 (0.18)	43 3/8" (1102)	6 1/2" (165)	5.9 (0.55)	2.0 (0.18)	60 5/16" (1532)	8.0 (0.74)
A451	2.2 (0.20)	48 3/16" (1224)	6 1/2" (165)	6.6 (0.61)	2.2 (0.20)	60 5/16" (1532)	8.8 (0.82)
A51	2.5 (0.23)	55 1/2" (1410)	6 1/2" (165)	7.5 (0.70)	2.5 (0.23)	60 5/16" (1532)	10.0 (0.93)
A551	2.7 (0.25)	60 3/16" (1529)	6 1/2" (165)	8.2 (0.76)	2.7 (0.25)	60 5/16" (1532)	10.9 (1.01)
A61	3.0 (0.28)	67 1/2" (1715)	6 1/2" (165)	9.2 (0.86)	3.0 (0.28)	60 5/16" (1532)	12.0 (1.12)
A221	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	5.2 (0.48)	1.8 (0.16)	60 5/16" (1532)	8.0 (0.74)
A2251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	6.4 (0.60)	2.1 (0.20)	60 5/16" (1532)	9.6 (0.89)
A2281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	7.4 (0.69)	2.4 (0.23)	60 5/16" (1532)	10.6 (0.99)
A231	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	8.6 (0.80)	2.8 (0.26)	60 5/16" (1532)	12.0 (1.12)
A321	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	7.8 (0.73)	2.6 (0.25)	60 5/16" (1532)	12.0 (1.12)
A3251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	9.6 (0.89)	3.2 (0.30)	60 5/16" (1532)	14.4 (1.34)
AW21	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	3.2 (0.30)	0.9 (0.08)	56 1/16" (1424)	4.8 (0.45)
AW251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	3.9 (0.36)	1.1 (0.10)	56 1/16" (1424)	5.6 (0.52)
AW281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	4.4 (0.41)	1.2 (0.11)	56 1/16" (1424)	6.2 (0.58)
AW31	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	5.2 (0.48)	1.4 (0.13)	56 1/16" (1424)	7.1 (0.66)
AW351	1.6 (0.15)	36 3/16" (919)	6 1/2" (165)	6.0 (0.56)	1.6 (0.15)	56 1/16" (1424)	8.0 (0.74)
AW41	2.0 (0.18)	43 3/8" (1102)	6 1/2" (165)	7.2 (0.67)	2.0 (0.18)	56 1/16" (1424)	9.5 (0.88)
AW451	2.2 (0.20)	48 3/16" (1224)	6 1/2" (165)	8.0 (0.74)	2.2 (0.20)	56 1/16" (1424)	10.4 (0.97)
AW51	2.5 (0.23)	55 1/2" (1410)	6 1/2" (165)	9.2 (0.86)	2.5 (0.23)	56 1/16" (1424)	11.8 (1.10)
AW551	2.7 (0.25)	60 3/16" (1529)	6 1/2" (165)	10.0 (0.93)	2.7 (0.25)	56 1/16" (1424)	12.8 (1.19)
AW61	3.0 (0.28)	67 1/2" (1715)	6 1/2" (165)	11.2 (1.04)	3.0 (0.28)	56 1/16" (1424)	14.2 (1.32)
AW221	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	6.4 (0.60)	1.8 (0.16)	56 1/16" (1424)	9.6 (0.89)
AW2251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	7.8 (0.73)	2.1 (0.20)	56 1/16" (1424)	11.2 (1.04)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.

continued on next page

Picture Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	Overall Window Area Sq. Ft./(m²)
P3030	6.8 (0.63)	9.0 (0.84)
P3035	7.8 (0.73)	10.2 (0.95)
P3040	9.4 (0.87)	12.0 (1.12)
P3045	10.4 (0.97)	13.2 (1.23)
P3050	12.0 (1.12)	14.9 (1.38)
P3055	13.0 (1.21)	16.2 (1.51)
P3060	14.6 (1.36)	17.9 (1.66)
P3530	7.8 (0.73)	10.2 (0.95)
P3535	9.0 (0.84)	11.6 (1.08)
P3540	10.8 (1.00)	13.6 (1.26)
P3545	12.1 (1.12)	15.0 (1.39)
P3550	13.8 (1.28)	17.0 (1.58)
P3555	15.1 (1.40)	18.4 (1.71)
P3560	16.8 (1.56)	20.4 (1.90)
P4030	9.4 (0.87)	12.0 (1.12)
P4035	10.8 (1.00)	13.6 (1.26)
P4040	13.0 (1.21)	16.0 (1.49)
P4045	14.5 (1.35)	17.6 (1.64)
P4050	16.6 (1.54)	20.0 (1.86)
P4055	18.1 (1.68)	21.6 (2.01)
P4060	20.2 (1.88)	24.0 (2.23)
P4530	10.4 (0.97)	13.2 (1.23)
P4535	12.1 (1.12)	15.0 (1.39)
P4540	14.5 (1.35)	17.6 (1.64)
P4545	16.1 (1.50)	19.4 (1.80)
P4550	18.4 (1.71)	22.0 (2.04)
P4555	20.1 (1.87)	23.8 (2.21)
P4560	22.4 (2.08)	26.4 (2.45)
P5030	12.0 (1.12)	14.9 (1.38)
P5035	13.8 (1.28)	17.0 (1.58)
P5040	16.6 (1.54)	20.0 (1.86)
P5045	18.4 (1.71)	22.0 (2.04)
P5050	21.1 (1.96)	24.9 (2.31)
P5055	23.0 (2.14)	26.9 (2.50)
P5060	25.7 (2.39)	29.9 (2.78)
P5530	13.0 (1.21)	16.2 (1.51)
P5535	15.1 (1.40)	18.4 (1.71)
P5540	18.1 (1.68)	21.6 (2.01)
P5545	20.1 (1.87)	23.8 (2.21)
P5550	23.0 (2.14)	26.9 (2.50)
P6030	14.6 (1.36)	17.9 (1.66)
P6035	16.8 (1.56)	20.4 (1.90)
P6040	20.2 (1.88)	24.0 (2.23)
P6045	22.4 (2.08)	26.4 (2.45)
P6050	25.7 (2.39)	29.9 (2.78)

• Dimensions in parentheses are in square meters.

Awning Window Opening and Area Specifications *(continued)*

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Depth Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
AW2281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	8.8 (0.82)	2.4 (0.23)	56 1/16" (1424)	12.4 (1.15)
AW231	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	10.4 (0.97)	2.8 (0.26)	56 1/16" (1424)	14.2 (1.32)
AW321	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	9.6 (0.89)	2.6 (0.25)	56 1/16" (1424)	14.4 (1.34)
AW3251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	11.7 (1.09)	3.2 (0.30)	56 1/16" (1424)	16.8 (1.56)
AX251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	4.4 (0.41)	1.1 (0.10)	53 15/16" (1370)	6.2 (0.58)
AX281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	5.0 (0.47)	1.2 (0.11)	53 15/16" (1370)	6.9 (0.64)
AX31	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	5.9 (0.54)	1.4 (0.13)	53 15/16" (1370)	7.9 (0.73)
AX351	1.6 (0.15)	36 3/16" (919)	6 1/2" (165)	6.8 (0.63)	1.6 (0.15)	53 15/16" (1370)	8.9 (0.83)
AX41	2.0 (0.18)	43 3/8" (1102)	6 1/2" (165)	8.1 (0.76)	2.0 (0.18)	53 15/16" (1370)	10.5 (0.98)
AX451	2.2 (0.20)	48 3/16" (1224)	6 1/2" (165)	9.0 (0.84)	2.2 (0.20)	53 15/16" (1370)	11.6 (1.07)
AX51	2.5 (0.23)	55 1/2" (1410)	6 1/2" (165)	10.4 (0.96)	2.5 (0.23)	53 15/16" (1370)	13.1 (1.22)
AX551	2.7 (0.25)	60 3/16" (1529)	6 1/2" (165)	11.3 (1.05)	2.7 (0.25)	53 15/16" (1370)	14.2 (1.32)
AX61	3.0 (0.28)	67 1/2" (1715)	6 1/2" (165)	12.6 (1.17)	3.0 (0.28)	53 15/16" (1370)	15.7 (1.46)
AX2251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	8.9 (0.82)	2.1 (0.20)	53 15/16" (1370)	12.4 (1.15)
AX2281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	10.0 (0.93)	2.4 (0.23)	53 15/16" (1370)	13.8 (1.28)
AX231	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	11.7 (1.09)	2.8 (0.26)	53 15/16" (1370)	15.7 (1.46)
AX3251	1.1 (0.10)	23 3/4" (603)	6 1/2" (165)	13.3 (1.24)	3.2 (0.30)	53 15/16" (1370)	18.6 (1.73)
AXW281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	5.8 (0.54)	1.2 (0.11)	48 1/2" (1232)	7.9 (0.73)
AXW31	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	6.8 (0.63)	1.4 (0.13)	48 1/2" (1232)	9.0 (0.84)
AXW351	1.6 (0.15)	36 3/16" (919)	6 1/2" (165)	7.9 (0.73)	1.6 (0.15)	48 1/2" (1232)	10.2 (0.95)
AXW41	2.0 (0.18)	43 3/8" (1102)	6 1/2" (165)	9.5 (0.88)	2.0 (0.18)	48 1/2" (1232)	12.0 (1.12)
AXW451	2.2 (0.20)	48 3/16" (1224)	6 1/2" (165)	10.5 (0.98)	2.2 (0.20)	48 1/2" (1232)	13.2 (1.23)
AXW51	2.5 (0.23)	55 1/2" (1410)	6 1/2" (165)	12.1 (1.12)	2.5 (0.23)	48 1/2" (1232)	14.9 (1.38)
AXW551	2.7 (0.25)	60 3/16" (1529)	6 1/2" (165)	13.1 (1.22)	2.7 (0.25)	48 1/2" (1232)	16.2 (1.51)
AXW61	3.0 (0.28)	67 1/2" (1715)	6 1/2" (165)	14.7 (1.37)	3.0 (0.28)	48 1/2" (1232)	17.9 (1.66)
AXW2281	1.2 (0.11)	26 7/8" (683)	6 1/2" (165)	11.6 (1.08)	2.4 (0.23)	48 1/2" (1232)	15.8 (1.47)
AXW231	1.4 (0.13)	31 3/8" (795)	6 1/2" (165)	13.6 (1.26)	2.8 (0.26)	48 1/2" (1232)	18.0 (1.67)
A335*	1.4 (0.13)	31 5/16" (795)	6 1/2" (676)	7.0 (0.65)	1.3 (0.12)	43 11/16" (1110)	10.2 (0.95)
A3535	1.6 (0.14)	36 3/16" (943)	6 1/2" (165)	8.1 (0.75)	1.6 (0.15)	43 11/16" (1110)	11.5 (1.07)
AP32**V**	1.4 (0.12)	31 5/16" (795)	6 1/2" (165)	9.4 (0.87)	1.4 (0.13)	36 7/16" (926)	12.0 (1.12)
AP352**V**	1.6 (0.14)	36 3/16" (919)	6 1/2" (165)	10.9 (1.01)	1.6 (0.15)	36 7/16" (926)	13.6 (1.26)
AP42**V**	2.0 (0.17)	43 3/8" (1102)	6 1/2" (165)	13.1 (1.22)	2.0 (0.18)	36 7/16" (926)	16.0 (1.49)
A212	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	5.2 (0.48)	1.8 (0.16)	60 5/16" (1532)	8.0 (0.74)
A213	0.9 (0.08)	19 1/2" (495)	6 1/2" (165)	7.8 (0.73)	2.6 (0.25)	60 5/16" (1532)	12.0 (1.12)
A312	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	8.6 (0.80)	2.8 (0.26)	60 5/16" (1532)	12.0 (1.12)
A313	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	12.9 (1.20)	4.2 (0.39)	60 5/16" (1532)	18.0 (1.67)
PA3050**	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	4.3 (0.40)	1.4 (0.13)	60 5/16" (1532)	6.0 (0.56)
PA3060**	1.4 (0.13)	31 5/16" (795)	6 1/2" (165)	4.3 (0.40)	1.4 (0.13)	60 5/16" (1532)	6.0 (0.56)
PA3550**	1.6 (0.15)	36 3/16" (919)	6 1/2" (165)	4.9 (0.46)	1.6 (0.15)	60 5/16" (1532)	6.8 (0.63)
PA3560**	1.6 (0.15)	36 3/16" (919)	6 1/2" (165)	4.9 (0.46)	1.6 (0.15)	60 5/16" (1532)	6.8 (0.63)
PA4060**	2.0 (0.18)	43 3/8" (1102)	6 1/2" (165)	5.9 (0.55)	2.0 (0.18)	60 5/16" (1532)	8.0 (0.74)
AXW312	1.4 (0.13)	31 1/3" (795)	6 1/2" (165)	13.6 (1.26)	2.8 (0.26)	48 1/2" (1232)	18.0 (1.67)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
*Clear opening area of 5.8 sq. ft. or 0.54 m² and clear opening height of 26 1/2" (673) can be obtained by detaching operator from sash.
**Dimensions and calculations are for bottom venting sash.

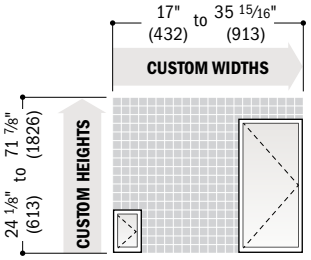
Transom Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	Overall Window Area Sq. Ft./(m²)
CTR1510	0.7 (0.07)	1.4 (0.13)
CTR1810	0.8 (0.07)	1.7 (0.16)
CTR21810	1.7 (0.16)	3.4 (0.32)
CTR31810	2.6 (0.24)	5.1 (0.47)
CTR2010	1.0 (0.09)	2.0 (0.19)
CTR22010	2.1 (0.19)	4.0 (0.37)
CTR32010	3.1 (0.29)	6.0 (0.56)
CTR2410	1.2 (0.11)	2.4 (0.22)
CTR22410	2.5 (0.24)	4.7 (0.44)
CTR32410	3.8 (0.35)	7.1 (0.66)
CTR2810	1.4 (0.13)	2.6 (0.24)
CTR22810	2.9 (0.27)	5.2 (0.49)
CTR3010	1.6 (0.15)	3.0 (0.28)
CTR23010	3.3 (0.31)	6.0 (0.55)
CTR5110	2.8 (0.26)	5.1 (0.47)
CTR2910	1.5 (0.14)	2.8 (0.26)
CTR3410	1.8 (0.17)	3.4 (0.32)
CTR4010	2.2 (0.20)	4.0 (0.37)
CTR4810	2.6 (0.24)	4.7 (0.44)
CTR5210	2.9 (0.27)	5.2 (0.48)
CTR51110	3.4 (0.32)	6.0 (0.56)
CTR6010	3.4 (0.32)	6.0 (0.56)
CTR7010	4.0 (0.37)	7.1 (0.66)
PTR3010	1.6 (0.15)	3.0 (0.28)
PTR3510	1.8 (0.17)	3.4 (0.32)
PTR4010	2.2 (0.20)	4.0 (0.37)
PTR4510	2.4 (0.22)	4.4 (0.41)
PTR5010	2.8 (0.26)	5.0 (0.47)
PTR5510	3.0 (0.28)	5.4 (0.50)
PTR6010	3.4 (0.32)	6.0 (0.56)

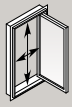
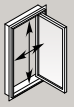
• Dimensions in parentheses are in square meters.

Custom Sizes and Specification Formulas

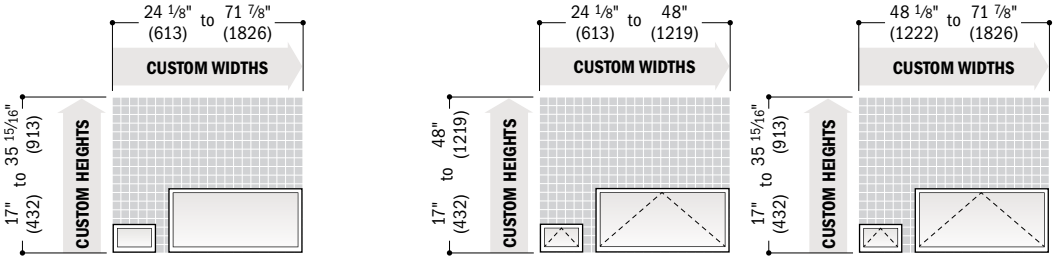
Casement Windows (stationary and venting)

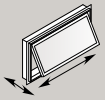
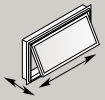


Available in 1/8" (3) increments between minimum and maximum widths and heights. Windows can also be custom sized to match standard sizes ending in a sixteenth of an inch. Some restrictions apply; contact your Andersen supplier. Custom sizing is available for single windows only. To achieve custom-size 2- or 3-wide combinations, join custom-size single windows. For minimum rough opening dimensions for joined windows, see specific joining instruction guides. Measurement guide for custom-size windows can be found at **andersenwindows.com/measure**.

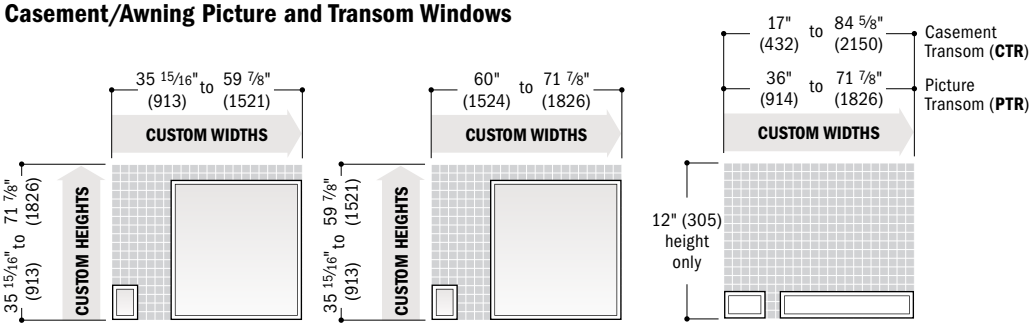
Clear Opening 	**Width** = window width – 5.81" (148) = (window width – 9.66" (245)) x 1.07 = window width – 9.70" (246)	*Width ≥ 24 1/8" (613) (hinge for widest clear opening)* *Width ≥ 28 3/8" (721) (hinge with wash mode and control bracket)* *Width ≥ 17" (432) (hinge with wash mode)*	**Min. R.O.** 	**Width** = window width + 1/2" (13) **Height** = window height + 1/2" (13)
	Height = window height – 4.43" (113) = window height – 4.85" (123)	*Height ≥ 40 13/16" (1037) and < 48" (1219); Width ≥ 28 3/8" (721) and < 31 1/2" (800)* *All other window heights*		
Vent Opening 	**Width** = window width – 5.81" (148) = window width – 6.10" (155)	*Width ≥ 24 1/8" (613) (hinge for widest clear opening)* *Width ≥ 17" (432) (hinge with wash mode)*	**Unobst. Gls.** 	**Width** = window width – 4.40" (112) **Height** = window height – 4.95" (126)
	Height = window height – 4.43" (113) = window height – 4.85" (123)	*Height ≥ 40 13/16" (1037) and < 48" (1219); Width ≥ 28 3/8" (721) and < 31 1/2" (800)* *All other window heights*		

Awning Windows (stationary and venting)



Clear Opening 	**Width** = window width – 4.53" (115)		**Min. R.O.** 	**Width** = window width + 1/2" (13) **Height** = window height + 1/2" (13)
	Depth = 6.38" (162) = 6.44" (164) = 6.50" (165)	*Height ≥ 17" (432) and < 20 1/2" (521)* *Height ≥ 20 1/2" (521) and < 24 1/8" (613)* *All other window heights*		
Vent Opening 	**Width** = window width – 4.53" (115)		**Unobst. Gls.** 	**Width** = window width – 4.81" (122) **Height** = window height – 4.51" (115)
	Depth = 6.38" (162) = 6.44" (164) = 6.50" (165)	*Height ≥ 17" (432) and < 20 1/2" (521)* *Height ≥ 20 1/2" (521) and < 24 1/8" (613)* *All other window heights*		

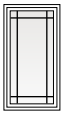
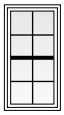
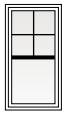
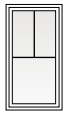
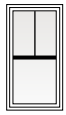
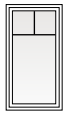
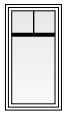
Casement/Awning Picture and Transom Windows



Min. R.O. 	**Width** = window width – 1/2" (13) **Height** = window height – 1/2" (13)
Unobst. Gls. 	**Width** = window width – 4.80" (122) **Height** = window height – 4.80" (122)

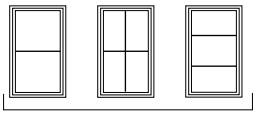
- Dimensions in parentheses are in millimeters.
- **Clear Opening** formulas provide dimensions for determining area available for egress. **Vent Opening** formulas provide dimensions for determining area available for passage of air. **Min. R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Gls.** (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 custom-size windows.

Grille Patterns

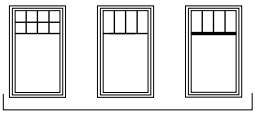
	Diamond*	Prairie A	Specified Equal Light with Simulated Meeting Rail	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail	Victorian
Casement											
Awning											
Picture											
Transom											

*Available only in Simulated Divided Light (SDL) configuration and only in 3/4" (19) and 7/8" (22) widths.

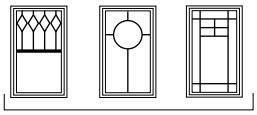
Number of lights and overall pattern varies with window size. Patterns not available in all configurations. Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.



Specified Equal Light Examples



Specified Equal Light Fractional** Examples

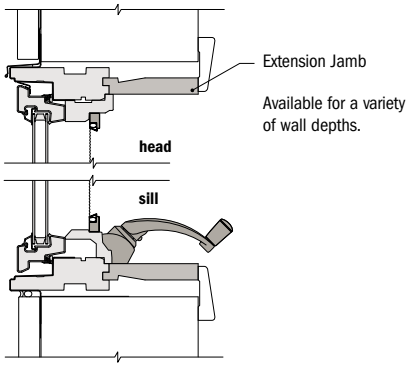


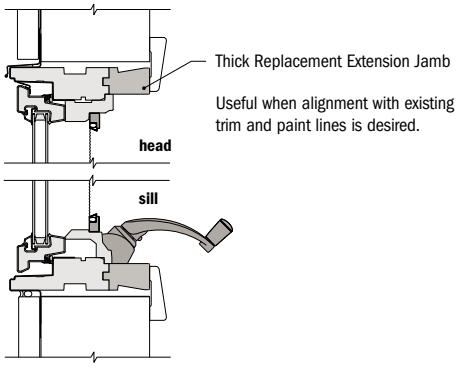
Custom Pattern Examples

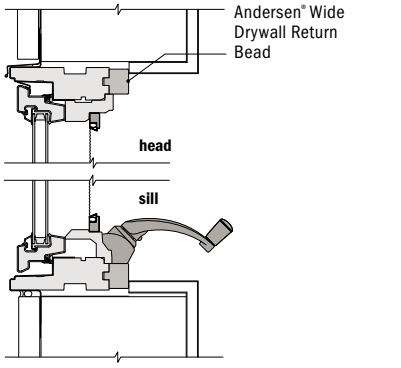
**Daylight opening dimensions are available at 8" (203), 10" (254), 12" (305), center and custom dimensions.

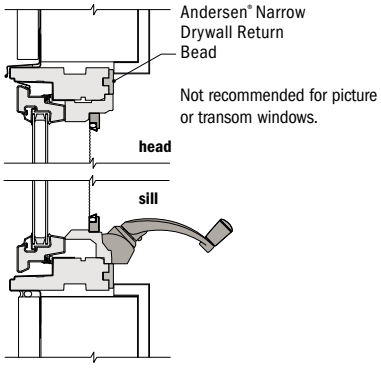
Interior Trim Options

Extension jamb and drywall return bead applications shown. See page 21 for more information.





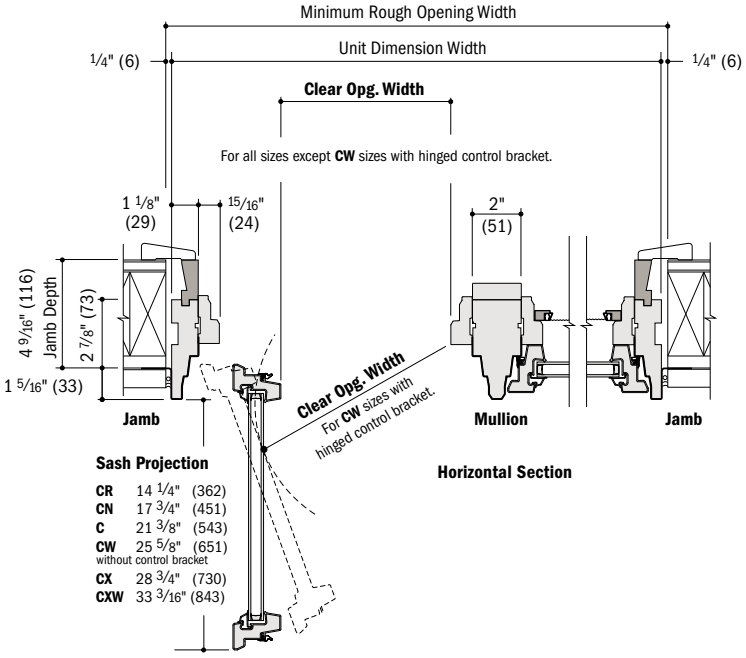


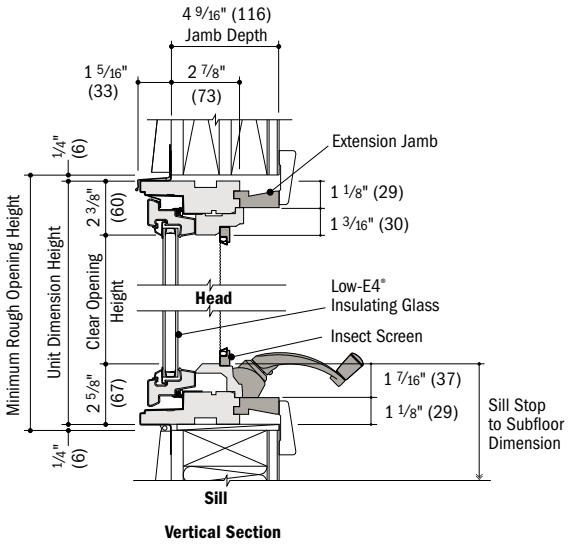


- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- Dimensions in parentheses are in millimeters.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.

Casement Window Details

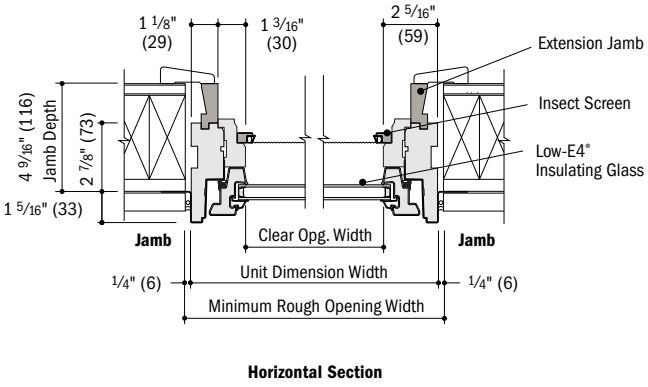
Scale 1½" (38) = 1'-0" (305) – 1:8

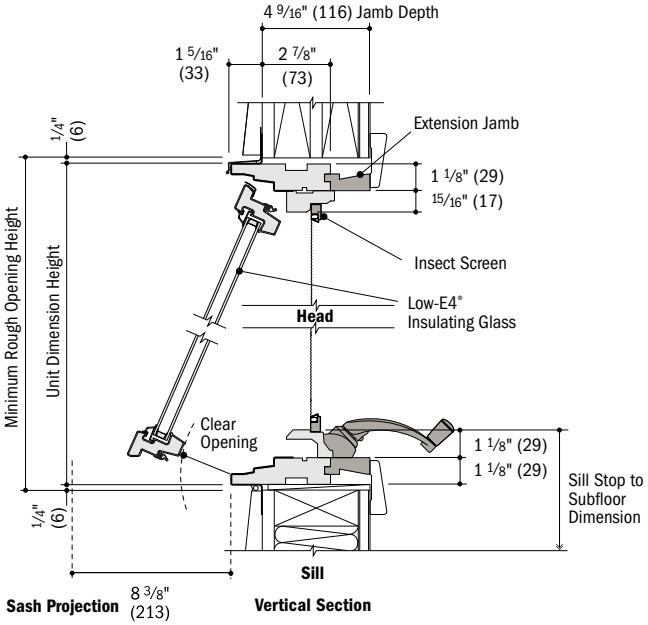




Awning Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8

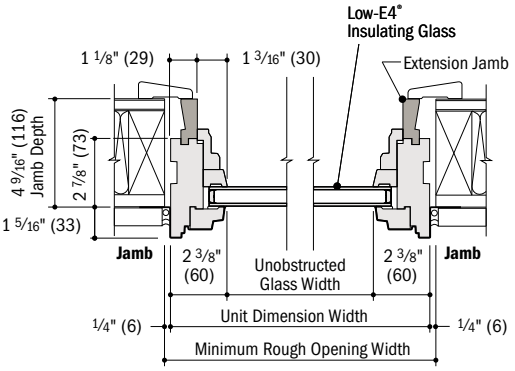




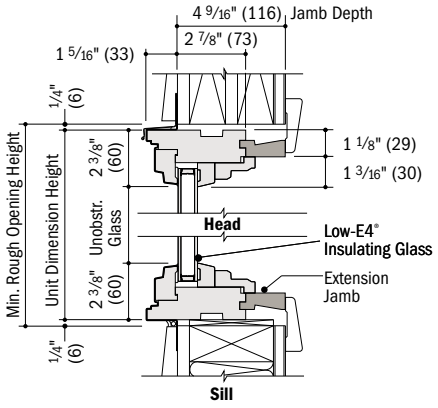
- 4 9/16" (116) overall jamb depth and 2 7/8" (73) base jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- Dimensions in parentheses are in millimeters.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.

Picture and Transom Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section



Vertical Section

Horizontal (stack) Joining Detail

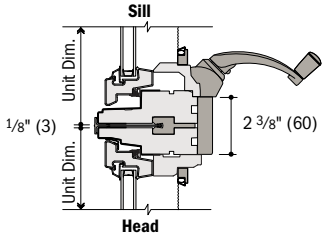
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Height

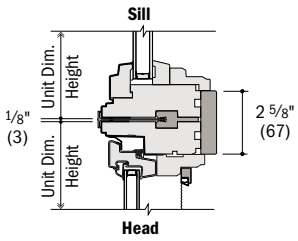
Sum of individual window heights plus 1/8" (3) for each join.

Overall Rough Opening Height

Overall window dimension height plus 1/2" (13).



Vertical Section
Casement over Awning

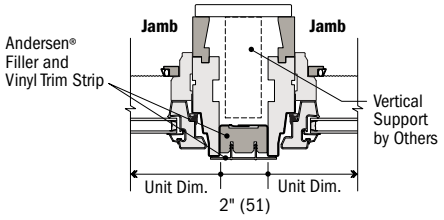


Vertical Section
Picture over Casement

Separate Rough Openings Detail

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Horizontal Section
Casement and Casement

Vertical (ribbon) Joining Detail

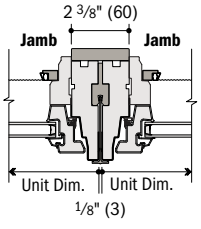
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Width

Sum of individual window widths plus 1/8" (3) for each join.

Overall Rough Opening Width

Overall window dimension width plus 1/2" (13).



Horizontal Section
Casement to Casement

For more joining information, see the combination designs section starting on page 181.

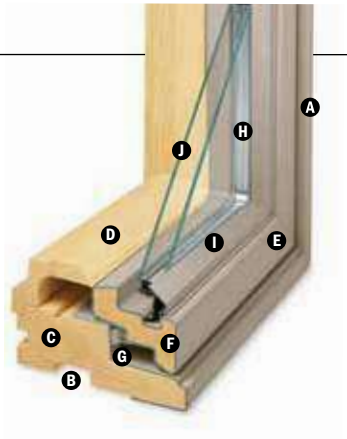
- 4 9/16" (116) overall jamb depth and 2 7/8" (73) base jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- Dimensions in parentheses are in millimeters.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.

REPLACEMENT CASEMENT & AWNING WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

Dimensions in parentheses are in millimeters.

FEATURES



FRAME

A A seamless one-piece, rigid vinyl frame cover is secured to the exterior of the frame to protect the wood frame from moisture and 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 preservative for long-lasting* protection and performance.

D Interior stops are unfinished pine. Low-maintenance prefinished white, dark bronze and black** interiors are also available.

SASH

E Rigid vinyl encases the entire sash – a vinyl weld protects each sash corner for superior weathertightness. It maintains an attractive appearance and minimizes maintenance.

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

G Vinyl closed-cell foam weatherstrip is factory installed on the perimeter of the sash.

GLASS

H In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

I A glazing bead and silicone provide superior weathertightness and durability.

J High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

HARDWARE

Smooth Control Hardware System

The smooth control hardware system employs a worm gear drive for easy operation. Units with a wash mode have hinges that move the sash away from the frame to provide easier glass cleaning. CXW15, CXW155, CXW16 and CXW25 sizes not available with wash mode. Hardware option and finish must be specified. Operator handle and cover sold separately.

Single-Actuation Casement Lock

On casement windows, a single-actuation lock easily releases all locking points on the casement sash 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 window combination designs.

INSTALLATION

Included Installation Materials

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

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | White

Dark Bronze** | Black**

HARDWARE OPTIONS Sold Separately

CONTEMPORARY FOLDING

Black | Bright Brass | Gold Dust
Oil Rubbed Bronze | **Satin Nickel**
Stone | White

TRADITIONAL FOLDING

Antique Brass | Black | Bright Brass
Distressed Bronze | Distressed Nickel
Gold Dust | Oil Rubbed Bronze
Satin Nickel | Stone | White

Folding handles avoid interference with window treatments.

CLASSIC SERIES™

Stone | **White**

ESTATE™

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

Bold name denotes finish shown.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

*Visit andersenwindows.com/warranty for details.

**Products with dark bronze and black interiors have matching exteriors.

Dimensions in parentheses are in millimeters.

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

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

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

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Standard jamb depth is 2⅞" (73). Extension jambs are available in unfinished pine or prefinished white, dark bronze and black. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Extension jambs can be factory applied to either three sides (stool and apron application) or four sides (picture frame casing).

Thick Replacement Extension Jambs

To help preserve original alignment of trim and paint lines in replacement situations, special 1⅛" (29) thick replacement extension jambs are available. Factory-applied and non-applied extension jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Non-applied extension jambs are available in 12' (3658) lineals. Detail on page 34.

Drywall Return Bead

A drywall return bead is available in a narrow or wide dimension with unfinished pine or prefinished white, dark bronze and black interiors. Can be ordered factory applied or in non-applied lineals. Detail on page 34.

HARDWARE

Corrosion-Resistant Components

Corrosion-resistant hinge and operator arm hardware is designed for applications in harsh and corrosive environments such as heavy industrial or coastal areas.*

Window Opening Control Device

A window opening control device is available, which limits sash travel to less than 4" (102) when the window is first opened. Available factory applied, or as a field-applied kit in stone, white and black.

Power Operator for Awning Windows

Awning windows can be ordered with an operator enhanced by PowerAssist™ technology that opens and closes the window with the touch of a button. Easy to install, the 24-volt system features a concealed window power drive, battery backup in case of a power outage and a moisture sensor that automatically closes the window when it rains. A wireless remote control is available (sold separately).

The PowerAssist system is controlled by a wall-mounted console, which includes a power box, battery, touch pad and mounting bracket. Windows can be ordered factory prepped to save time, or they can be ordered as a field kit. Power driver requires field installation. PowerAssist technology eliminates the need for sash locks. Available for windows up to 5' (1524) wide. Not available for units with Stormwatch® Protection or performance upgrades.

SPECIAL USE OPERATOR HANDLES

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.

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. The 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.

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 800-313-8889 or email
lofk@andersencorp.com.

GLASS

Andersen® Art Glass

Andersen art glass panels come in a variety of original patterns. See art glass section starting on page 173 for more information or visit andersenwindows.com/artglass.

INSECT SCREENS

TruScene® Insect Screens

Andersen TruScene insect screens let in over 25% more fresh air** and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. For casement and awning windows, frames are available in white, stone, dark bronze and black, or with pine veneer frame interiors to blend with the wood interior of the window.

Conventional Insect Screens

Conventional insect screens have charcoal powder-coated aluminum screen mesh. Available with frames in white, stone, dark bronze and black.

GRILLES

Grilles are available in a variety of configurations and widths. For casement and awning window grille patterns, see page 34.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

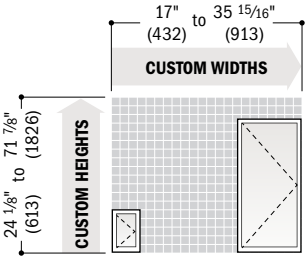
CAUTION:

- 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-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Visit andersenwindows.com/warranty for details.
**TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.
Dimensions in parentheses are in millimeters.

Replacement Sizes and Specification Formulas

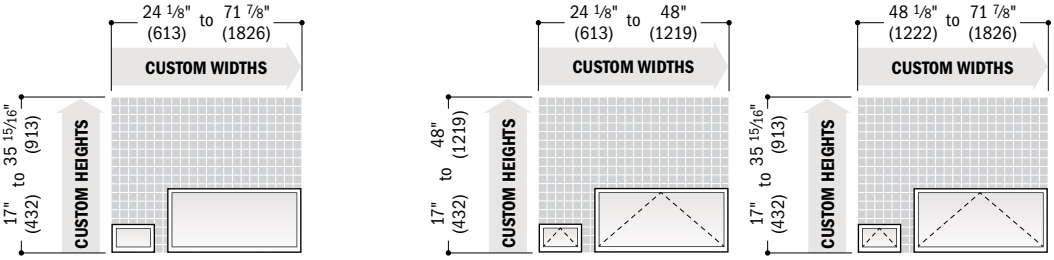
Casement Windows (stationary and venting)



Available in 1/8" (3) increments between minimum and maximum widths and heights. Windows can also be custom sized to match standard sizes ending in a sixteenth of an inch. Some restrictions apply; contact your Andersen supplier. Custom sizing is available for single windows only. To achieve custom-size 2- or 3-wide combinations, join custom-size single windows. For minimum rough opening dimensions for joined windows, see specific joining instruction guides. Measurement guide for custom-size windows can be found at **andersenwindows.com/measure**. Thick replacement extension jambs are available to preserve original alignment of trim and paint lines. Shown on page 39; see page 34 for detail.

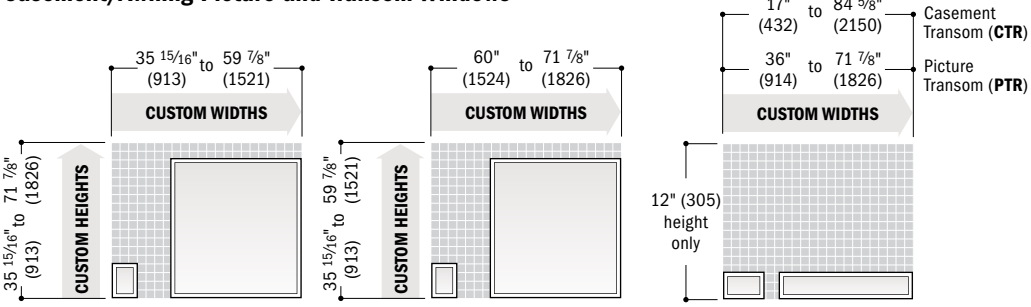
Clear Opening	**Width** = window width – 5.81" (148) = (window width – 9.66" (245)) x 1.07 = window width – 9.70" (246)	*Width ≥ 24 1/8"* (613) *(hinge for widest clear opening)* *Width ≥ 28 3/8"* (721) *(hinge with wash mode and control bracket)* *Width ≥ 17"* (432) *(hinge with wash mode)*	**Min. R.O.**	**Width** = window width + 1/2" (13) **Height** = window height + 1/2" (13)
	Height = window height – 4.43" (113) = window height – 4.85" (123)	*Height ≥ 40 13/16"* (1037) *and < 48"* (1219)*; Width ≥ 28 3/8"* (721) *and < 31 1/2"* (800) *All other window heights*		
Vent Opening	**Width** = window width – 5.81" (148) = window width – 6.10" (155)	*Width ≥ 24 1/8"* (613) *(hinge for widest clear opening)* *Width ≥ 17"* (432) *(hinge with wash mode)*	**Unobst. Gls.**	**Width** = window width – 4.40" (112) **Height** = window height – 4.95" (126)
	Height = window height – 4.43" (113) = window height – 4.85" (123)	*Height ≥ 40 13/16"* (1037) *and < 48"* (1219)*; Width ≥ 28 3/8"* (721) *and < 31 1/2"* (800) *All other window heights*		

Awning Windows (stationary and venting)



Clear Opening	**Width** = window width – 4.53" (115)		**Min. R.O.**	**Width** = window width + 1/2" (13) **Height** = window height + 1/2" (13)
	Depth = 6.38" (162) = 6.44" (164) = 6.50" (165)	*Height ≥ 17"* (432) *and < 20 1/2"* (521) *Height ≥ 20 1/2"* (521) *and < 24 1/8"* (613) *All other window heights*		
Vent Opening	**Width** = window width – 4.53" (115)		**Unobst. Gls.**	**Width** = window width – 4.81" (122) **Height** = window height – 4.51" (115)
	Depth = 6.38" (162) = 6.44" (164) = 6.50" (165)	*Height ≥ 17"* (432) *and < 20 1/2"* (521) *Height ≥ 20 1/2"* (521) *and < 24 1/8"* (613) *All other window heights*		

Casement/Awning Picture and Transom Windows



Min. R.O.	**Width** = window width – 1/2" (13) **Height** = window height – 1/2" (13)
Unobst. Gls.	**Width** = window width – 4.80" (122) **Height** = window height – 4.80" (122)

• 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. **Min. R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Gls.** (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 custom-size windows.

COMPLEMENTARY CASEMENT WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

COMPLEMENTARY CASEMENT WINDOWS

FEATURES

FRAME

Ⓐ Heavy-duty extruded aluminum cladding protects the frame exterior, providing low-maintenance durability. Standard cladding finish meets AAMA 2604. An optional finish that meets the AAMA 2605 standard is also available.

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

Ⓒ Interior stops are unfinished. Low-maintenance prefinished white, dark bronze and black interiors are also available.

Installation flange extends 1 ½" (38) around the perimeter of the unit for positioning and locating. Installation clips are standard for increased structural anchoring to building members. Mounted around the frame perimeter, the clips rotate into position and can be bent into place against the framing members to suit all jamb conditions.

SASH

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

Ⓔ Heavy-duty extruded aluminum cladding protects the sash exterior, providing low-maintenance durability.

Ⓕ Weatherstrip throughout the unit provides a long-lasting,* energy-efficient seal. Rain skirt is factory installed on the perimeter of the sash.

GLASS

Ⓖ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓗ Silicone glazing bead combined with two-sided silicone tape provide superior weathertightness.

Ⓘ High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

HARDWARE

Smooth Control Hardware System

The smooth control hardware system employs a worm gear drive for easy operation. Units with a wash mode have hinges that move the sash away from the frame to provide easier glass cleaning on rectangular units. Arch and Springline™ casement units use the same smooth control hardware system with stainless steel butt hinges for smooth operation. Hardware option and finish must be specified. Operator handle and cover sold separately.

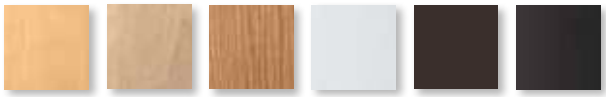
Single-Actuation Casement Lock

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

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

INTERIOR OPTIONS



HARDWARE OPTIONS Sold Separately

CONTEMPORARY FOLDING

Black | Bright Brass | Gold Dust
Oil Rubbed Bronze | **Satin Nickel**
Stone | White

TRADIENTIONAL FOLDING

Antique Brass | Black | Bright Brass
Distressed Bronze | Distressed Nickel
Gold Dust | Oil Rubbed Bronze
Satin Nickel | Stone | White

Folding handles avoid interference with window treatments.

CLASSIC SERIES™

Stone | **White**

ESTATE™

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

Bold name denotes finish shown.

HARDWARE FINISHES

*Visit andersenwindows.com/warranty for details.

Dimensions in parentheses are in millimeters.

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

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

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

FRENCH CASEMENT

Andersen® complementary French casements allow both sash to swing outward from the center, eliminating a center mullion post. They offer smooth operating multi-point locking mechanisms and hinges. The multi-point lock is activated with a single turn of a handle that simultaneously secures both sash. French casement windows have a unique locking handle that's available in antique brass, black, bright brass, brushed chrome, oil rubbed bronze, polished chrome, satin nickel, stone and white finishes.

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Complementary casement jamb depth is 3 3/8" (86). Extension base jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Additional dimensions are available. Contact your Andersen supplier for more information. Extension jambs are available in unfinished pine or prefinished white, dark bronze and black. Available for job site application or can be factory applied.

HARDWARE

Corrosion-Resistant Components

Corrosion-resistant hinge and operator arm hardware is designed for applications in harsh and corrosive environments such as heavy industrial or coastal areas.* Shown above on a 400 Series casement window.

Window Opening Control Device

A window opening control device is available, which limits sash travel to less than 4" (102) when the window is first opened. Available factory applied, or as a field-applied kit in stone, white and black. Not available for French casement windows.

SPECIAL USE OPERATOR HANDLES

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.

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. The 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.

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 800-313-8889 or email
lofk@andersencorp.com.

INSECT SCREENS

TruScene® Insect Screens

Andersen TruScene insect screens let in over 25% more fresh air** and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. For complementary casement windows, TruScene frames are available in white, stone, dark bronze and black as well as pine, maple and oak wood veneers.

Conventional Insect Screens

Conventional insect screens have black fiberglass screen mesh. Optional charcoal powder-coated aluminum screen mesh is available. Frames are available in white, stone, dark bronze and black.

CAUTION:

- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Visit andersenwindows.com/warranty for details.
**TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.
Dimensions in parentheses are in millimeters.

COMPLEMENTARY CASEMENT WINDOWS

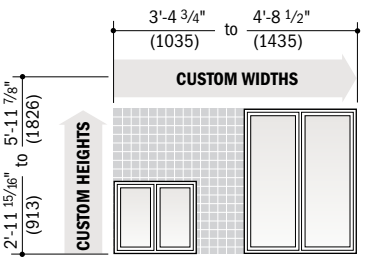
Shapes and Sizes

Standard sizes are available for French, Springline™ French and Arch French casement windows. Springline, Springline flanker, twin Springline, arch, twin and triple arch, trapezoid, unequal leg arch and rectangular casement window standard sizes are also available. For casement picture and transom window sizes, contact your Andersen supplier.

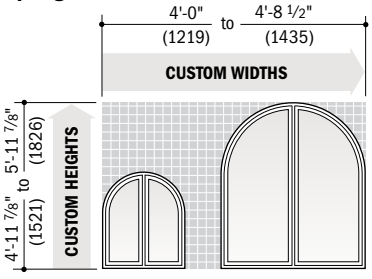
Custom Sizes

Choose left, right or stationary as viewed from the exterior. Custom-size windows are available in 1/8" (3) increments between minimum and maximum widths and heights.

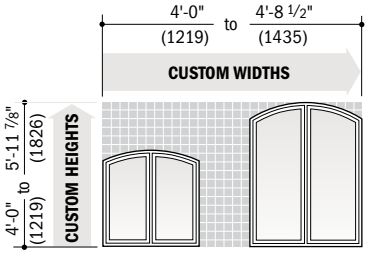
French Casement



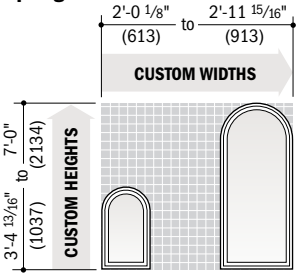
Springline™ French Casement



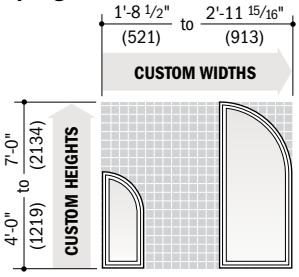
Arch French Casement



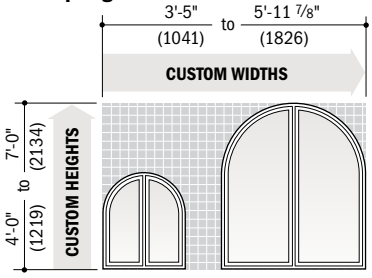
Springline™ Casement*



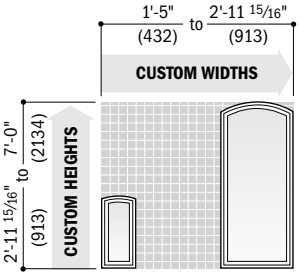
Springline™ Flanker Casement*



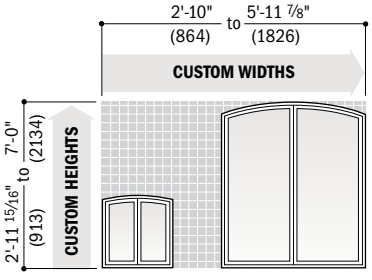
Twin Springline™ Casement*



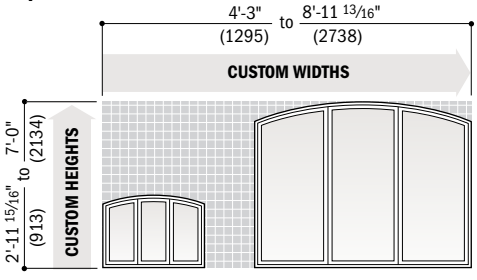
Arch Casement*



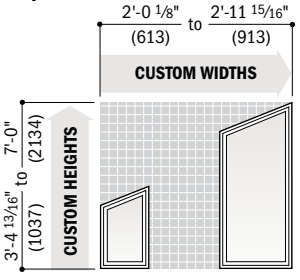
Twin Arch Casement*



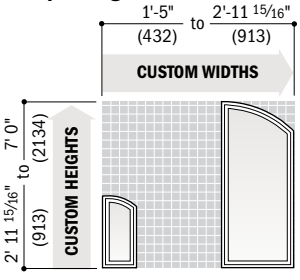
Triple Arch Casement*



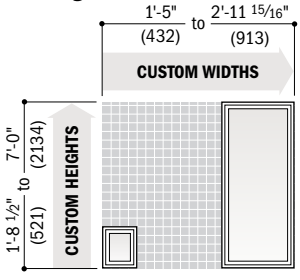
Trapezoid Casement*



Unequal Leg Arch Casement



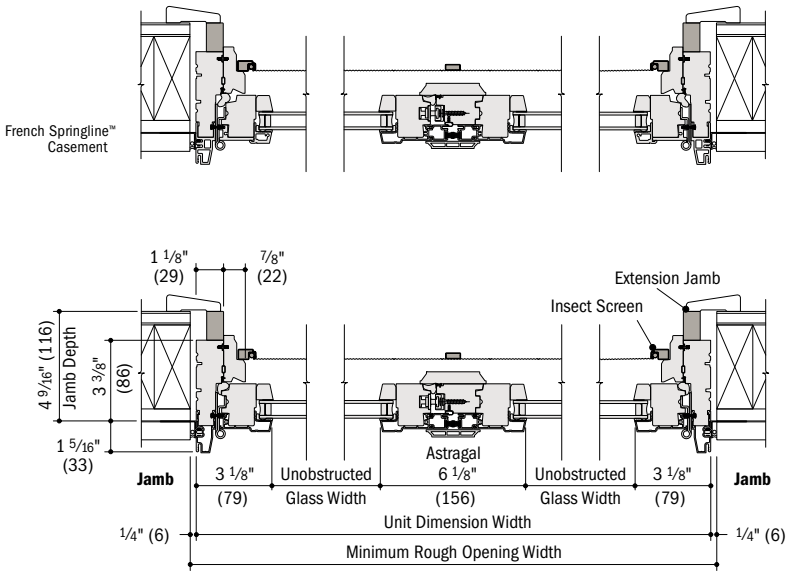
Rectangular Casement



• Rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.
• Dimensions in parentheses are in millimeters.
*For exterior wall cladding that extends beyond the face of the window, there may be a reduction in the amount of opening "swing" when the top of the sash touches the wall cladding.

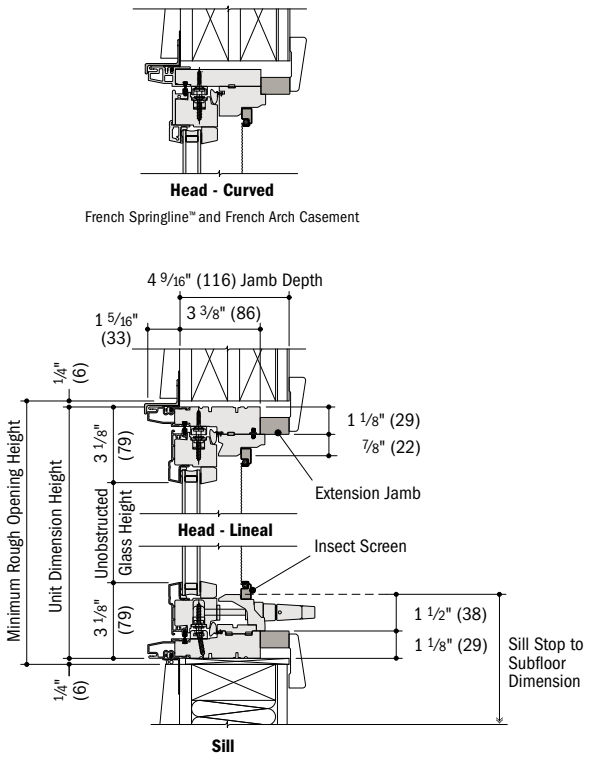
Clad Complementary Venting French Casement Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

French Casement and French Arch Casement

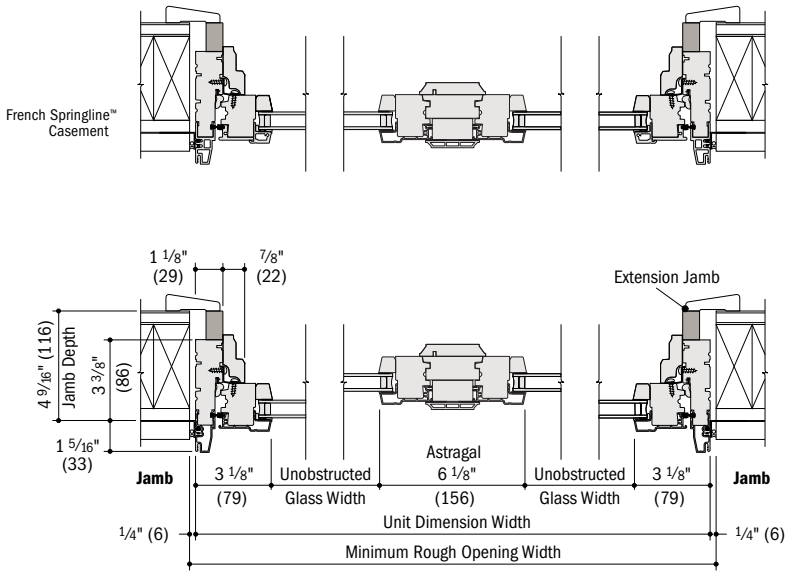


Vertical Section

French Casement and French Arch Casement

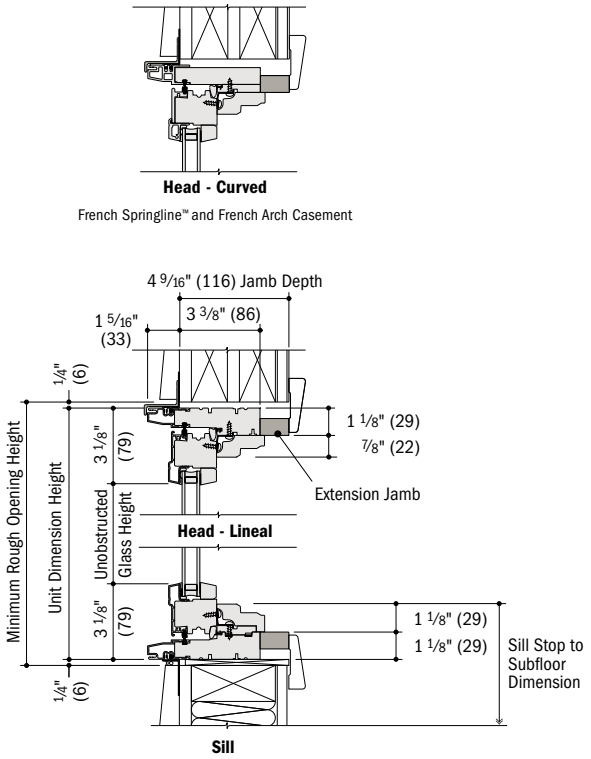
Clad Complementary Stationary French Casement Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

French Casement and French Arch Casement



Vertical Section

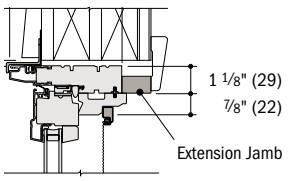
French Casement and French Arch Casement

- 4 9/16" (116) overall jamb depth and 3 3/8" (86) base jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- Dimensions in parentheses are in millimeters.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to unit installation guides at andersenwindows.com.

COMPLEMENTARY CASEMENT WINDOWS

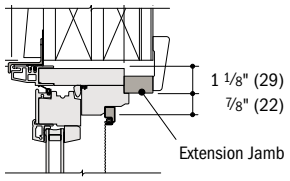
Clad Complementary Venting Casement Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



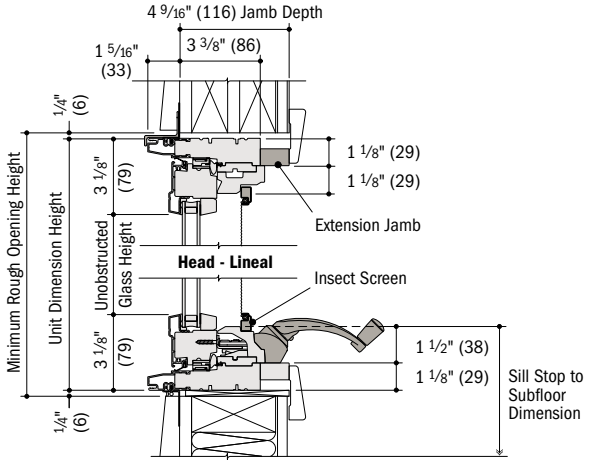
Head - Lineal

Trapezoid Casement



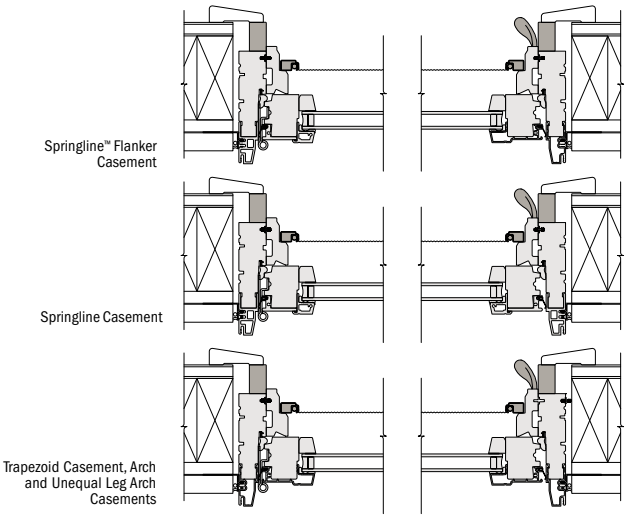
Head - Curved

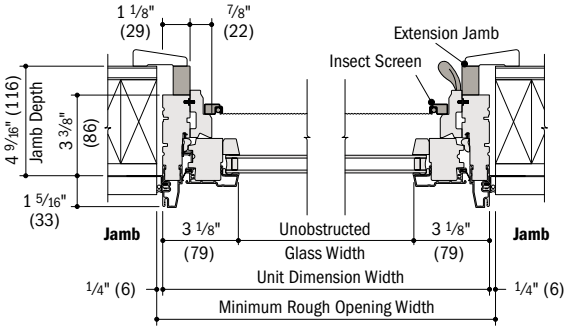
Arch Casement, Unequal Leg Arch Casement, Springline™ and Springline Flanker Casements



Vertical Section

Casement



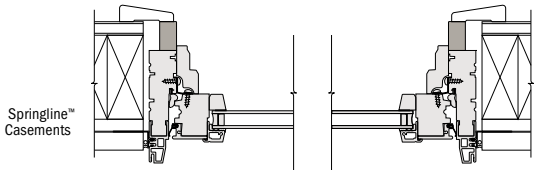


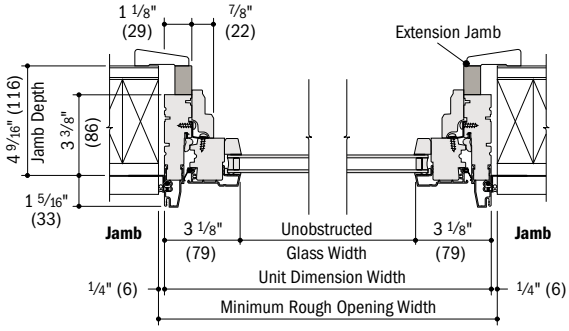
Horizontal Section

Casement

Clad Complementary Stationary Casement Window Details

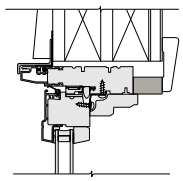
Scale 1½" (38) = 1'-0" (305) – 1:8





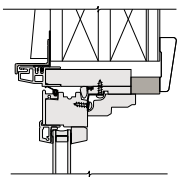
Horizontal Section

Casement, Trapezoid Casement, Arch and Unequal Leg Arch Casements



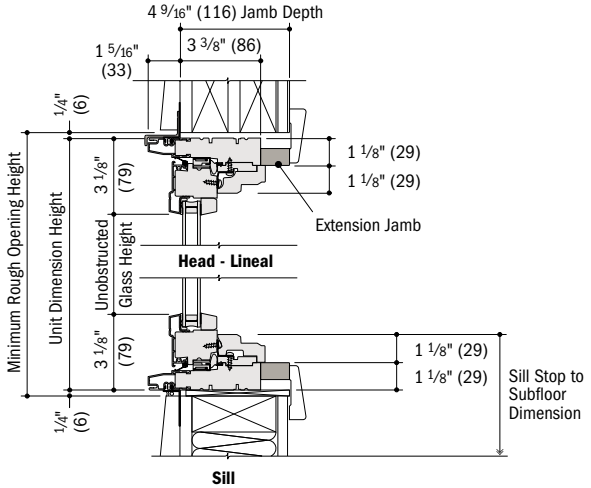
Head - Lineal

Trapezoid Casement



Head - Curved

Arch Casement, Unequal Leg Arch Casement, Springline™ and Springline Flanker Casements



Vertical Section

Casement

- 4 9/16" (116) overall jamb depth and 3 3/8" (86) base jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- Dimensions in parentheses are in millimeters.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to unit installation guides at andersenwindows.com.

WOODWRIGHT® DOUBLE-HUNG FULL-FRAME WINDOWS

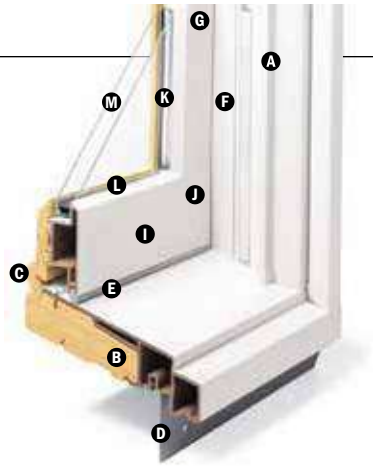
CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

WOODWRIGHT® DOUBLE-HUNG FULL-FRAME WINDOWS

FEATURES



FRAME

Ⓐ Perma-Shield® exterior cladding protects the frame – beautifully. Best of all, it's low maintenance and never needs painting.*

Ⓑ For exceptional long-lasting* performance, sill members are constructed with a wood core and a Fibrex® material exterior.

Ⓒ Natural wood stops are available in pine, maple, oak and prefinished white. Wood jamb liners add beauty and authenticity to the window interior.

Ⓓ A factory-applied rigid vinyl flange on the head, sill and sides of the outer frame helps secure the unit to the structure.

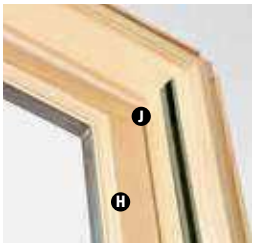
Ⓔ Multiple weatherstrip systems help provide a barrier against wind, rain and dust. The combination of spring-tension vinyl, rigid vinyl and flexible bulb weatherstrip is efficient and effective.

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

SASH

Ⓖ Balancers in the sash enable contractors to screw through the jamb during installation without interfering with the window's operation.

Wood Jamb Liner



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

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

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

GLASS

Ⓚ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓛ Silicone bed glazing provides superior weathertightness and durability.

Ⓜ High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

HARDWARE

Standard lock and keeper design provides an easy tilt-to-clean feature integrated into the lock.

*Visit andersenwindows.com/warranty for details.

Dimensions in parentheses are in millimeters.

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

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

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

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | Maple

Oak | White

HARDWARE

Standard Lock & Keeper

Antique Brass | **Black** | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Gold Dust
Oil Rubbed Bronze | Polished Chrome
Satin Nickel | Stone | White

OPTIONAL HARDWARE Sold Separately

CONTEMPORARY

Bar Lift

Available in all hardware finishes. Shown in **Distressed Nickel**.

ESTATE™

Hand Lift | Finger Lifts

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

TRADITIONAL

Bar Lift | Hand Lift | Finger Lifts

Antique Brass | Black | Bright Brass | Brushed Chrome
Distressed Bronze | Distressed Nickel | Gold Dust | **Oil Rubbed Bronze**
Polished Chrome | Satin Nickel | Stone | White

CLASSIC SERIES™

Bar Lift | Hand Lift | Finger Lifts

Stone | **White**

Bold name denotes finish shown.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

StormWATCH PROTECTION

Performance Grade (PG) Upgrades

Performance upgrades are available for select sizes of standard, non-impact Woodwright® windows allowing these units to achieve higher performance ratings. Performance Grade (PG) ratings are more comprehensive than Design Pressure (DP) ratings for measuring product performance. For up-to-date performance information of individual products, visit **andersenwindows.com**. Use of this option will subtract 5/8" (16) from clear opening height. Contact your Andersen supplier for availability.

Visit **andersenwindows.com/coastal** for more information on Stormwatch® Protection.

SHAPES

Woodwright windows are available in the following shapes.

Double-Hung

Springline™ Single-Hung

Arch Double-Hung

Unequal Leg Arch Double-Hung

SASH OPTIONS*

Cottage

Reverse Cottage

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Standard jamb depth is 4 1/2" (114). Extension jambs are available in unfinished pine or prefinished white. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/16" (1.5) increments between 5 1/4" (133) and 7 1/8" (181). Extension jambs can be factory applied to either three sides (stool and apron application) or four sides (picture frame casing).

Pine Stool

A clear pine stool is available and ready for finishing. The Woodwright stool is available in 4 9/16" (116) for use in wall depths up to 5 1/4" (133) and 6 9/16" (167) for use in wall depths up to 7 1/8" (181). Works with 2 1/4" (57) and 2 1/2" (64) casing widths. Shown above on a 400 Series tilt-wash double-hung window.

HARDWARE

Window Opening Control Device

A window opening control device is available, which limits sash travel to less than 4" (102) when the window is first opened. Available factory applied, or as a field-applied kit in stone or white.

STORM/INSECT SCREEN COMBINATION UNIT**

A self-storing storm window combined with an insect screen provides greater energy efficiency, while allowing ventilation when needed.

Constructed with an aluminum frame, single-pane upper and lower glass panels, and charcoal powder-coated aluminum screen mesh. Available in white, Sandtone and Terratone to match product exteriors. Canvas, dark bronze, forest green and black are available by special order.

Combination units can improve Sound Transmission Class (STC) and Outdoor Indoor Transmission Class (OITC) ratings. Ideal for projects near airports, busy roadways or other noisy environments. For example, adding a combination unit to a 400 Series tilt-wash double-hung (3862) unit with Low-E4® glass will improve its STC rating from 26 to 32. Contact your Andersen supplier for additional STC and OITC rating information.

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 Screens

Andersen TruScene insect screens let in over 25% more fresh air† and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

Conventional Insect Screens

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 63.

EXTERIOR TRIM

Available with Andersen® exterior trim. See exterior trim section starting on page 175.

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-based or latex paint.
- Do not paint 400 Series windows with white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Shown on 400 Series tilt-wash double-hung windows.

**Do not add combination units to windows with Low-E4 Sun glass unless window glass is tempered. Combination units may also reduce the overall clear operable area of the window. See your local code official for egress requirements in your area.

†TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.

Dimensions in parentheses are in millimeters.

Table of Woodwright® Double-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Notes on the next page also apply to this page.

Window Dimension	1'-9 5/8" (549)	2'-1 5/8" (651)	2'-5 5/8" (752)	2'-7 5/8" (803)	2'-9 5/8" (854)	2'-11 5/8" (905)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-9 5/8" (1159)
Minimum Rough Opening	1'-10 1/8" (562)	2'-2 1/8" (664)	2'-6 1/8" (765)	2'-8 1/8" (816)	2'-10 1/8" (867)	3'-0 1/8" (917)	3'-2 1/8" (968)	3'-6 1/8" (1070)	3'-10 1/8" (1172)
Unobstructed Glass (lower sash only)	15 5/8" (397)	19 5/8" (498)	23 5/8" (600)	25 5/8" (651)	27 5/8" (702)	29 5/8" (752)	31 5/8" (803)	35 5/8" (905)	39 5/8" (1006)

CUSTOM WIDTHS — 16 1/2" to **45 5/8"**

CUSTOM HEIGHTS — 32" to **76 7/8"**

3'-0 7/8" (937) / 3'-0 7/8" (937) / 13 3/8" (340)	**WDH**18210	**WDH**20210	**WDH**24210	**WDH**26210	**WDH**28210	**WDH**210210	**WDH**30210	**WDH**34210	**WDH**38210
3'-4 7/8" (1038) / 3'-4 7/8" (1038) / 15 3/8" (391)	**WDH**1832	**WDH**2032	**WDH**2432	**WDH**2632	**WDH**2832	**WDH**21032	**WDH**3032	**WDH**3432	**WDH**3832
3'-8 7/8" (1140) / 3'-8 7/8" (1140) / 17 3/8" (441)	**WDH**1836	**WDH**2036	**WDH**2436	**WDH**2636	**WDH**2836	**WDH**21036	**WDH**3036	**WDH**3436	**WDH**3836
4'-0 7/8" (1241) / 4'-0 7/8" (1241) / 19 3/8" (492)	**WDH**18310	**WDH**20310	**WDH**24310	**WDH**26310	**WDH**28310	**WDH**210310	**WDH**30310	**WDH**34310	**WDH**38310
4'-4 7/8" (1343) / 4'-4 7/8" (1343) / 21 3/8" (543)	**WDH**1842	**WDH**2042	**WDH**2442	**WDH**2642	**WDH**2842	**WDH**21042	**WDH**3042	**WDH**3442	**WDH**3842
4'-8 7/8" (1445) / 4'-8 7/8" (1445) / 22 3/4" (577)	**WDH**1846	**WDH**2046	**WDH**2446	**WDH**2646	**WDH**2846	**WDH**21046	**WDH**3046◊	**WDH**3446◊	**WDH**3846◊
5'-0 7/8" (1546) / 5'-0 7/8" (1546) / 25 3/8" (645)	**WDH**18410	**WDH**20410	**WDH**24410	**WDH**26410	**WDH**28410	**WDH**210410◊	**WDH**30410◊	**WDH**34410◊	**WDH**38410◊
5'-4 7/8" (1648) / 5'-4 7/8" (1648) / 27 3/8" (695)	**WDH**1852	**WDH**2052	**WDH**2452	**WDH**2652	**WDH**2852◊	**WDH**21052◊	**WDH**3052◊	**WDH**3452◊	**WDH**3852◊
5'-8 7/8" (1749) / 5'-8 7/8" (1749) / 29 3/8" (746)	**WDH**1856	**WDH**2056	**WDH**2456	**WDH**2656◊	**WDH**2856◊	**WDH**21056◊	**WDH**3056◊	**WDH**3456◊	**WDH**3856◊
6'-0 7/8" (1851) / 6'-0 7/8" (1851) / 31 3/8" (797)	**WDH**18510	**WDH**20510	**WDH**24510◊	**WDH**26510◊	**WDH**28510◊	**WDH**210510◊	**WDH**30510◊	**WDH**34510◊	**WDH**38510◊
6'-4 7/8" (1953) / 6'-4 7/8" (1953) / 33 3/8" (848)	**WDH**1862	**WDH**2062	**WDH**2462◊	**WDH**2662◊	**WDH**2862◊	**WDH**21062◊	**WDH**3062◊	**WDH**3462◊	**WDH**3862◊

Cottage | Reverse Cottage

2:3 cottage or 3:2 reverse cottage sash ratio available for all widths and heights. Size tables for windows with cottage or reverse cottage sash are available at **andersenwindow.com/sizing**.

CUSTOM WIDTHS —
1'-4 1/2" (419) **to 3'-9 5/8"** (1159)

CUSTOM HEIGHTS —
3'-0 7/8" (937) **to 6'-4 7/8"** (1953)

Table of Woodwright® Springline™ Single-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-1 5/8" (651)	2'-5 5/8" (752)	2'-7 5/8" (803)	2'-9 5/8" (854)	2'-11 5/8" (905)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-9 5/8" (1159)
Minimum Rough Opening	2'-2 1/8" (664)	2'-6 1/8" (765)	2'-8 1/8" (816)	2'-10 1/8" (867)	3'-0 1/8" (917)	3'-2 1/8" (968)	3'-6 1/8" (1070)	3'-10 1/8" (1172)
Unobstructed Glass (lower sash only)	19 5/8" (498)	23 5/8" (600)	25 5/8" (651)	27 5/8" (702)	29 5/8" (752)	31 5/8" (803)	35 5/8" (905)	39 5/8" (1006)

CUSTOM WIDTHS – 25 5/8" to **45 5/8"**

CUSTOM HEIGHTS – 52 13/16" to **76 1/2"**

Unobstructed Glass (lower sash only) / Side Height

Unobstructed Glass	Side Height	12 13/16" (325)	14 13/16" (376)	15 13/16" (402)	16 13/16" (427)	17 13/16" (452)	18 13/16" (478)	20 13/16" (529)	22 13/16" (579)
		Radius and Chord Height							
21 3/8" (543)	3'-4" (1016)	4'-4 13/16" (1341) WS2042	4'-6 13/16" (1392) WS2442	4'-7 13/16" (1418) WS2642	4'-8 13/16" (1443) WS2842	4'-9 13/16" (1468) WS21042	4'-10 13/16" (1494) WS3042	5'-0 13/16" (1545) WS3442	5'-2 13/16" (1595) WS3842
23 3/8" (594)	3'-7" (1092)	4'-7 13/16" (1418) WS2046	4'-9 13/16" (1468) WS2446	4'-10 13/16" (1494) WS2646	4'-11 13/16" (1519) WS2846	5'-0 13/16" (1545) WS21046	5'-1 13/16" (1570) WS3046	5'-3 13/16" (1621) WS3446	5'-5 13/16" (1672) WS3846
25 3/8" (645)	3'-10" (1168)	4'-10 13/16" (1494) WS20410	5'-0 13/16" (1545) WS24410	5'-1 13/16" (1570) WS26410	5'-2 13/16" (1595) WS28410	5'-3 13/16" (1621) WS210410	5'-4 13/16" (1646) WS30410	5'-6 13/16" (1697) WS34410	5'-8 13/16" (1748) WS38410
27 3/8" (695)	4'-1" (1245)	5'-1 13/16" (1570) WS2052	5'-3 13/16" (1621) WS2452	5'-4 13/16" (1646) WS2652	5'-5 13/16" (1672) WS2852	5'-6 13/16" (1697) WS21052	5'-7 13/16" (1722) WS3052	5'-9 13/16" (1773) WS3452	5'-11 13/16" (1824) WS3852
29 3/8" (746)	4'-9" (1449)	5'-9 13/16" (1774) WS2056	5'-11 13/16" (1825) WS2456	6'-0 13/16" (1850) WS2656	6'-1 13/16" (1875) WS2856	6'-2 13/16" (1901) WS21056	6'-3 13/16" (1926) WS3056	6'-5 13/16" (1977) WS3456	6'-7 13/16" (2028) WS3856
31 3/8" (797)	5'-0 3/8" (1534)	6'-1 3/16" (1859) WS20510	6'-3 3/16" (1910) WS24510	6'-4 3/16" (1935) WS26510	6'-5 3/16" (1961) WS28510	6'-6 3/16" (1986) WS210510	6'-7 3/16" (2011) WS30510	6'-9 3/16" (2062) WS34510	6'-11 3/16" (2113) WS38510
33 3/8" (848)	5'-3 11/16" (1618)	6'-4 1/2" (1943) WS2062	6'-6 1/2" (1994) WS2462	6'-7 1/2" (2019) WS2662	6'-8 1/2" (2045) WS2862	6'-9 1/2" (2070) WS21062	6'-10 1/2" (2096) WS3062	7'-0 1/2" (2146) WS3462	7'-2 1/2" (2197) WS3862

Custom-size windows are available in 1/8" (3) increments. See page 62 for custom sizing.

Grille patterns shown on page 63.

Woodwright Springline single-hung only: Minimum rough opening height is the same as the window dimension height. Upper sash does not operate and lower sash travel is limited by the radius of the upper sash. Contact your Andersen supplier for cottage and reverse cottage sash availability. **Side-by-side joining is not recommended.**

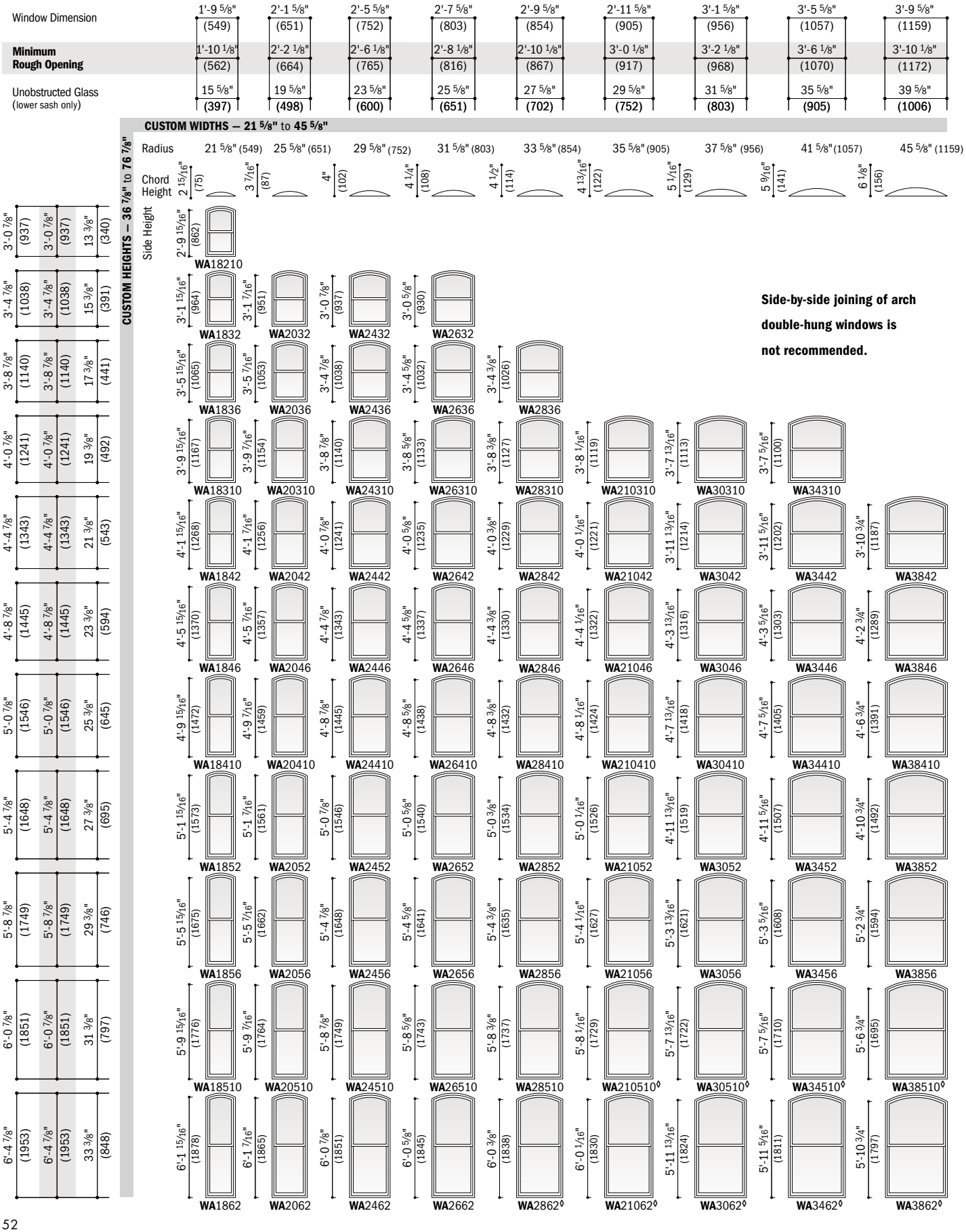
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

◊Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (210). See tables on pages 57-58.

Table of Woodwright® Arch Double-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) — 1:96

Notes on the next page also apply to this page.



Side-by-side joining of arch double-hung windows is not recommended.

Table of Woodwright® Unequal Leg Arch Double-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9
Window Dimension	1'-9 5/8" (549)	2'-1 5/8" (651)	2'-5 5/8" (752)	2'-7 5/8" (803)	2'-9 5/8" (854)	2'-11 5/8" (905)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-9 5/8" (1159)
Minimum Rough Opening	1'-10 1/8" (562)	2'-2 1/8" (664)	2'-6 1/8" (765)	2'-8 1/8" (816)	2'-10 1/8" (867)	3'-0 1/8" (917)	3'-2 1/8" (968)	3'-6 1/8" (1070)	3'-10 1/8" (1172)
Unobstructed Glass (lower sash only)	15 5/8" (397)	19 5/8" (498)	23 5/8" (600)	25 5/8" (651)	27 5/8" (702)	29 5/8" (752)	31 5/8" (803)	35 5/8" (905)	39 5/8" (1006)
Radius	45 5/8" (1159)	45 5/8" (1159)	45 5/8" (1159)	45 5/8" (1159)	45 5/8" (1159)	96" (2438)	96" (2438)	96" (2438)	96" (2438)
Chord Height	5 7/16" (138)	7 7/8" (200)	10 15/16" (279)	12 3/4" (324)	14 13/16" (376)	6 13/16" (173)	7 11/16" (195)	9 1/2" (241)	11 9/16" (294)

CUSTOM WIDTHS – 21 5/8" to 45 5/8"

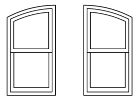
CUSTOM HEIGHTS – 44 7/8" to 76 7/8"

Unit numbers and side heights:

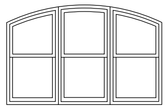
Window Dimension / Min. Rough Opening / Unobstructed Glass	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9
3'-8 7/8" (1140) / 3'-8 7/8" (1140) / 17 3/8" (441)	**WU**1836 – 3'-3 7/16" (1002)								
4'-0 7/8" (1241) / 4'-0 7/8" (1241) / 19 3/8" (492)	**WU**18310 – 3'-7 7/16" (1103)	**WU**20310 – 3'-5" (1041)							
4'-4 7/8" (1343) / 4'-4 7/8" (1343) / 21 3/8" (543)	**WU**1842 – 3'-11 7/16" (1205)	**WU**2042 – 3'-9" (1143)				**WU**21042 – 3'-10 1/16" (1170)	**WU**3042 – 3'-9 3/16" (1148)		
4'-8 7/8" (1445) / 4'-8 7/8" (1445) / 23 3/8" (594)	**WU**1846 – 4'-3 7/16" (1307)	**WU**2046 – 4'-1" (1245)	**WU**2446 – 3'-9 15/16" (1167)			**WU**21046 – 4'-2 1/16" (1272)	**WU**3046 – 4'-1 3/16" (1249)		
5'-0 7/8" (1546) / 5'-0 7/8" (1546) / 25 3/8" (645)	**WU**18410 – 4'-7 7/16" (1408)	**WU**20410 – 4'-5" (1346)	**WU**24410 – 4'-1 15/16" (1268)	**WU**26410 – 4'-0 1/8" (1222)		**WU**210410 – 4'-6 1/16" (1373)	**WU**30410 – 4'-5 3/16" (1351)	**WU**34410 – 4'-3 3/8" (1305)	
5'-4 7/8" (1648) / 5'-4 7/8" (1648) / 27 3/8" (695)	**WU**1852 – 4'-11 7/16" (1510)	**WU**2052 – 4'-9" (1448)	**WU**2452 – 4'-5 15/16" (1370)	**WU**2652 – 4'-4 1/8" (1324)	**WU**2852 – 4'-2 1/16" (1272)	**WU**21052 – 4'-10 1/16" (1475)	**WU**3052 – 4'-9 3/16" (1453)	**WU**3452 – 4'-7 3/8" (1407)	**WU**3852 – 4'-5 5/16" (1354)
5'-8 7/8" (1749) / 5'-8 7/8" (1749) / 29 3/8" (746)	**WU**1856 – 5'-3 7/16" (1611)	**WU**2056 – 5'-1" (1549)	**WU**2456 – 4'-9 15/16" (1472)	**WU**2656 – 4'-8 1/8" (1426)	**WU**2856 – 4'-6 1/16" (1373)	**WU**21056 – 5'-2 1/16" (1576)	**WU**3056 – 5'-1 3/16" (1554)	**WU**3456 – 4'-11 3/8" (1508)	**WU**3856 – 4'-9 5/16" (1456)
6'-0 7/8" (1851) / 6'-0 7/8" (1851) / 31 3/8" (797)	**WU**18510 – 5'-7 7/16" (1713)	**WU**20510 – 5'-5" (1651)	**WU**24510 – 5'-1 15/16" (1573)	**WU**26510 – 5'-0 1/8" (1527)	**WU**28510 – 4'-10 1/16" (1475)	**WU**210510 – 5'-6 1/16" (1678)	**WU**30510 – 5'-5 3/16" (1656)	**WU**34510 – 5'-3 3/8" (1610)	**WU**38510 – 5'-1 5/16" (1557)
6'-4 7/8" (1953) / 6'-4 7/8" (1953) / 33 3/8" (848)	**WU**1862 – 5'-11 7/16" (1815)	**WU**2062 – 5'-9" (1753)	**WU**2462 – 5'-5 15/16" (1675)	**WU**2662 – 5'-4 1/8" (1629)	**WU**2862 – 5'-2 1/16" (1576)	**WU**21062◊ – 5'-10 1/16" (1779)	**WU**3062◊ – 5'-9 3/16" (1757)	**WU**3462 – 5'-7 3/8" (1711)	**WU**3862 – 5'-5 5/16" (1659)

Custom-size windows are available in 1/8" (3) increments. See page 62 for custom sizing.

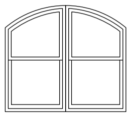
Lower sash travel is limited by the radius of the upper sash. Contact your Andersen supplier for cottage and reverse cottage sash availability.



Choose left facing or right facing as viewed from the exterior.



Arch double-hung with flanking unequal leg arch double-hungs.



Joining long sides creates a smooth arc. **Joining short sides is not recommended.**

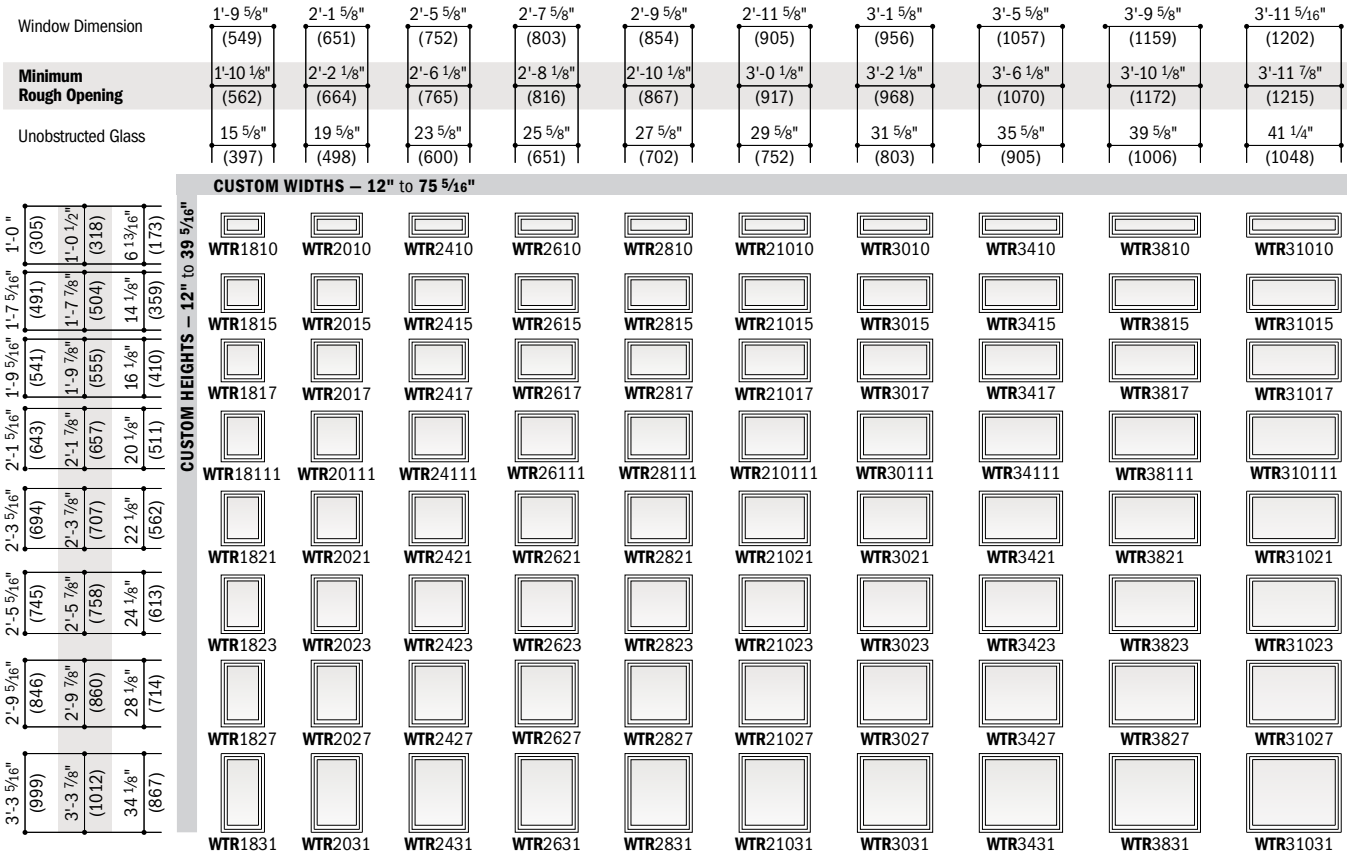
- "Window Dimension" always refers to outside frame-to-frame dimension.
- **"Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (210). See tables on pages 59-61.

Table of Woodwright® Transom Window Sizes

Scale ⅛" (3) = 1'-0" (305) – 1:96

Notes on the next page also apply to this page.



- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Woodwright® Transom Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
WTR1810	0.74	(0.07)	1.80	(0.17)
WTR1815	1.53	(0.14)	2.90	(0.27)
WTR1817	1.75	(0.16)	3.20	(0.30)
WTR18111	2.18	(0.20)	3.80	(0.35)
WTR1821	2.40	(0.22)	4.10	(0.38)
WTR1823	2.62	(0.24)	4.40	(0.41)
WTR1827	3.05	(0.28)	5.00	(0.46)
WTR1831	3.70	(0.34)	5.90	(0.55)
WTR2010	0.93	(0.09)	2.14	(0.20)
WTR2015	1.93	(0.18)	3.44	(0.32)
WTR2017	2.20	(0.20)	3.79	(0.35)
WTR20111	2.74	(0.25)	4.50	(0.42)
WTR2021	3.02	(0.28)	4.86	(0.45)
WTR2023	3.29	(0.31)	5.22	(0.48)
WTR2027	3.83	(0.36)	5.93	(0.55)
WTR2031	4.65	(0.43)	7.00	(0.65)
WTR2410	1.12	(0.10)	2.47	(0.23)
WTR2415	2.32	(0.22)	3.97	(0.37)
WTR2417	2.65	(0.25)	4.38	(0.41)
WTR24111	3.30	(0.31)	5.21	(0.48)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
WTR2421	3.63	(0.34)	5.62	(0.52)
WTR2423	3.96	(0.37)	6.03	(0.56)
WTR2427	4.61	(0.43)	6.85	(0.64)
WTR2431	5.60	(0.52)	8.09	(0.75)
WTR2610	1.21	(0.11)	2.64	(0.24)
WTR2615	2.51	(0.23)	4.24	(0.39)
WTR2617	2.87	(0.27)	4.68	(0.43)
WTR26111	3.58	(0.33)	5.56	(0.52)
WTR2621	3.94	(0.37)	6.00	(0.56)
WTR2623	4.29	(0.40)	6.44	(0.60)
WTR2627	5.00	(0.46)	7.32	(0.68)
WTR2631	6.07	(0.56)	8.63	(0.80)
WTR2810	1.31	(0.12)	2.80	(0.26)
WTR2815	2.71	(0.25)	4.51	(0.42)
WTR2817	3.09	(0.29)	4.98	(0.46)
WTR28111	3.86	(0.36)	5.91	(0.55)
WTR2821	4.24	(0.39)	6.38	(0.59)
WTR2823	4.63	(0.43)	6.84	(0.64)
WTR2827	5.40	(0.50)	7.78	(0.72)
WTR2831	6.55	(0.61)	9.18	(0.85)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
WTR21010	1.40	(0.13)	2.97	(0.28)
WTR21015	2.91	(0.27)	4.78	(0.44)
WTR21017	3.32	(0.31)	5.27	(0.49)
WTR210111	4.14	(0.38)	6.26	(0.58)
WTR21021	4.55	(0.42)	6.76	(0.63)
WTR21023	4.96	(0.46)	7.25	(0.67)
WTR21027	5.79	(0.54)	8.24	(0.77)
WTR21031	7.02	(0.65)	9.73	(0.90)
WTR3010	1.50	(0.14)	3.14	(0.29)
WTR3015	3.10	(0.29)	5.05	(0.47)
WTR3017	3.54	(0.33)	5.57	(0.52)
WTR30111	4.42	(0.41)	6.61	(0.61)
WTR3021	4.86	(0.45)	7.14	(0.66)
WTR3023	5.30	(0.49)	7.66	(0.71)
WTR3027	6.18	(0.57)	8.70	(0.81)
WTR3031	7.49	(0.70)	10.27	(0.95)
WTR3410	1.69	(0.16)	3.47	(0.32)
WTR3415	3.49	(0.32)	5.58	(0.52)

- Dimensions in parentheses are in square meters.

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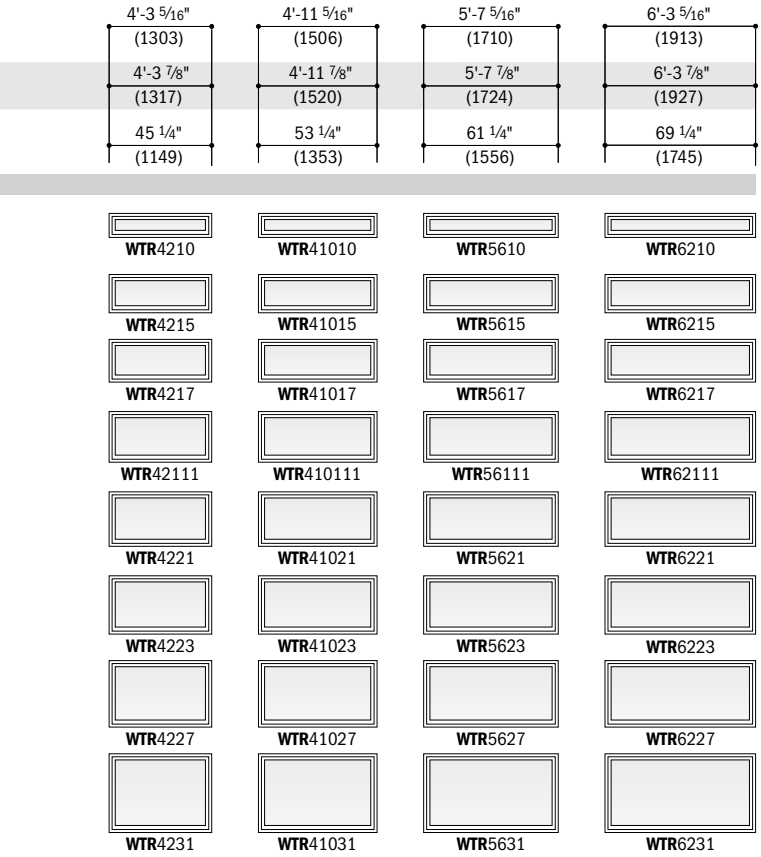

• "Window Dimension" always refers to outside frame-to-frame dimension.
• "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.

Custom-size windows are available in 1/8" (3) increments. See page 62 for custom sizing.

Grille patterns shown on page 63.

Woodwright® Transom Window Area Specifications *(continued)*

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
WTR3417	3.99	(0.37)	6.16	(0.57)
WTR34111	4.98	(0.46)	7.32	(0.68)
WTR3421	5.47	(0.51)	7.90	(0.73)
WTR3423	5.97	(0.55)	8.47	(0.79)
WTR3427	6.96	(0.65)	9.63	(0.89)
WTR3431	8.44	(0.78)	11.36	(1.06)
WTR3810	1.87	(0.17)	3.80	(0.35)
WTR3815	3.89	(0.36)	6.12	(0.57)
WTR3817	4.44	(0.41)	6.75	(0.63)
WTR38111	5.54	(0.51)	8.02	(0.75)
WTR3821	6.09	(0.57)	8.65	(0.80)
WTR3823	6.64	(0.62)	9.29	(0.86)
WTR3827	7.74	(0.72)	10.55	(0.98)
WTR3831	9.39	(0.87)	12.46	(1.16)
WTR31010	1.95	(0.18)	3.94	(0.37)
WTR31015	4.05	(0.38)	6.35	(0.59)
WTR31017	4.63	(0.43)	7.00	(0.65)
WTR310111	5.77	(0.54)	8.32	(0.77)
WTR31021	6.35	(0.59)	8.97	(0.83)
WTR31023	6.92	(0.64)	9.63	(0.89)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
WTR31027	8.07	(0.75)	10.95	(1.02)
WTR31031	9.79	(0.91)	12.92	(1.20)
WTR4210	2.14	(0.20)	4.28	(0.40)
WTR4215	4.44	(0.41)	6.88	(0.64)
WTR4217	5.07	(0.47)	7.59	(0.71)
WTR42111	6.33	(0.59)	9.02	(0.84)
WTR4221	6.96	(0.65)	9.73	(0.90)
WTR4223	7.59	(0.71)	10.45	(0.97)
WTR4227	8.85	(0.82)	11.87	(1.10)
WTR4231	10.74	(1.00)	14.01	(1.30)
WTR41010	2.52	(0.23)	4.94	(0.46)
WTR41015	5.23	(0.49)	7.95	(0.74)
WTR41017	5.97	(0.55)	8.78	(0.82)
WTR410111	7.45	(0.69)	10.43	(0.97)
WTR41021	8.19	(0.76)	11.25	(1.05)
WTR41023	8.93	(0.83)	12.07	(1.12)
WTR41027	10.41	(0.97)	13.72	(1.27)
WTR41031	12.63	(1.17)	16.19	(1.50)
WTR5610	2.90	(0.27)	5.61	(0.52)
WTR5615	6.01	(0.56)	9.03	(0.84)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
WTR5617	6.87	(0.64)	9.96	(0.93)
WTR56111	8.57	(0.80)	11.83	(1.10)
WTR5621	9.42	(0.88)	12.77	(1.19)
WTR5623	10.27	(0.95)	13.70	(1.27)
WTR5627	11.98	(1.11)	15.57	(1.45)
WTR5631	14.53	(1.35)	18.38	(1.71)
WTR6210	3.28	(0.30)	6.28	(0.58)
WTR6215	6.80	(0.63)	10.10	(0.94)
WTR6217	7.76	(0.72)	11.15	(1.04)
WTR62111	9.69	(0.90)	13.24	(1.23)
WTR6221	10.65	(0.99)	14.28	(1.33)
WTR6223	11.61	(1.08)	15.33	(1.42)
WTR6227	13.54	(1.26)	17.42	(1.62)
WTR6231	16.43	(1.53)	20.56	(1.91)

• Dimensions in parentheses are in square meters.

Table of Woodwright® Picture Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-0" (305)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-11 5/16" (1202)	4'-3 5/16" (1303)	4'-11 5/16" (1507)	5'-7 5/16" (1710)
Minimum Rough Opening	1'-0 1/2" (318)	3'-2 1/8" (968)	3'-6 1/8" (1070)	3'-11 7/8" (1216)	4'-3 7/8" (1318)	4'-11 7/8" (1521)	5'-7 7/8" (1724)
Unobstructed Glass	6" (152)	31 5/8" (803)	35 5/8" (905)	41 1/4" (1048)	45 1/4" (1149)	53 1/4" (1353)	61 1/4" (1556)

CUSTOM WIDTHS – 12" to **67 5/16"**

CUSTOM HEIGHTS – 14 1/2" to **76 7/8"**

4'-0 7/8" (1241)	**WPW**10310	**WPW**30310	**WPW**34310	**WPW**310310	**WPW**42310	**WPW**410310	**WPW**56310
4'-4 7/8" (1343)	**WPW**1042	**WPW**3042	**WPW**3442	**WPW**31042	**WPW**4242	**WPW**41042	**WPW**5642
4'-8 7/8" (1445)	**WPW**1046	**WPW**3046	**WPW**3446	**WPW**31046	**WPW**4246	**WPW**41046	**WPW**5646
5'-0 7/8" (1547)	**WPW**10410	**WPW**30410	**WPW**34410	**WPW**310410	**WPW**42410	**WPW**410410	**WPW**56410
5'-4 7/8" (1648)	**WPW**1052	**WPW**3052	**WPW**3452	**WPW**31052	**WPW**4252	**WPW**41052	**WPW**5652
5'-8 7/8" (1749)	**WPW**1056	**WPW**3056	**WPW**3456	**WPW**31056	**WPW**4256	**WPW**41056	**WPW**5656
6'-0 7/8" (1851)	**WPW**10510	**WPW**30510	**WPW**34510	**WPW**310510	**WPW**42510	**WPW**410510	**WPW**56510
6'-4 7/8" (1953)	**WPW**1062	**WPW**3062	**WPW**3462	**WPW**31062	**WPW**4262	**WPW**41062	**WPW**5662

Custom-size windows are available in 1/8" (3) increments. See page 62 for custom sizing.

Grille patterns shown on page 63.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Woodwright® Double-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
WDH18210	1.73 (0.16)	17 7/8" (454)	14 1/4" (362)	2.90 (0.27)	1.78 (0.17)	48 1/2" (1231)	5.53 (0.51)
WDH1832	1.98 (0.18)	17 7/8" (454)	16 1/4" (412)	3.32 (0.31)	2.03 (0.19)	44 1/2" (1130)	6.14 (0.57)
WDH1836	2.23 (0.21)	17 7/8" (454)	18 1/4" (463)	3.74 (0.35)	2.28 (0.21)	40 1/2" (1028)	6.74 (0.63)
WDH18310	2.48 (0.23)	17 7/8" (454)	20 1/4" (514)	4.15 (0.39)	2.53 (0.24)	36 1/2" (926)	7.34 (0.68)
WDH1842	2.73 (0.25)	17 7/8" (454)	22 1/4" (565)	4.57 (0.43)	2.78 (0.26)	32 1/2" (825)	7.94 (0.74)
WDH1846	2.90 (0.27)	17 7/8" (454)	24 1/4" (616)	4.98 (0.46)	3.02 (0.28)	28 1/2" (723)	8.54 (0.79)
WDH18410	3.22 (0.30)	17 7/8" (454)	26 1/4" (666)	5.40 (0.50)	3.27 (0.30)	24 1/2" (622)	9.14 (0.85)
WDH1852	3.47 (0.32)	17 7/8" (454)	28 1/4" (717)	5.81 (0.54)	3.52 (0.33)	20 1/2" (520)	9.74 (0.91)
WDH1856	3.72 (0.35)	17 7/8" (454)	30 1/4" (768)	6.23 (0.58)	3.02 (0.28)	16 1/2" (418)	10.34 (0.96)
WDH18510	3.97 (0.37)	17 7/8" (454)	32 1/4" (819)	6.65 (0.62)	4.02 (0.37)	12 1/2" (317)	10.94 (1.02)
WDH1862	4.22 (0.39)	17 7/8" (454)	34 1/4" (870)	7.06 (0.66)	4.26 (0.40)	8 1/2" (215)	11.54 (1.07)
WDH20210	2.12 (0.20)	21 7/8" (556)	14 1/4" (362)	3.68 (0.34)	2.18 (0.20)	48 1/2" (1231)	6.56 (0.61)
WDH2032	2.42 (0.23)	21 7/8" (556)	16 1/4" (412)	4.21 (0.39)	2.48 (0.23)	44 1/2" (1130)	7.27 (0.68)
WDH2036	2.73 (0.25)	21 7/8" (556)	18 1/4" (463)	4.73 (0.44)	2.79 (0.26)	40 1/2" (1028)	7.98 (0.74)
WDH20310	3.03 (0.28)	21 7/8" (556)	20 1/4" (514)	5.26 (0.49)	3.09 (0.29)	36 1/2" (926)	8.69 (0.81)
WDH2042	3.34 (0.31)	21 7/8" (556)	22 1/4" (565)	5.79 (0.54)	3.40 (0.32)	32 1/2" (825)	9.41 (0.87)
WDH2046	3.55 (0.33)	21 7/8" (556)	24 1/4" (616)	6.31 (0.59)	3.70 (0.34)	28 1/2" (723)	10.12 (0.94)
WDH20410	3.94 (0.37)	21 7/8" (556)	26 1/4" (666)	6.84 (0.64)	4.00 (0.37)	24 1/2" (622)	10.83 (1.01)
WDH2052	4.25 (0.39)	21 7/8" (556)	28 1/4" (717)	7.37 (0.69)	4.31 (0.40)	20 1/2" (520)	11.54 (1.07)
WDH2056	4.55 (0.42)	21 7/8" (556)	30 1/4" (768)	7.89 (0.73)	3.70 (0.34)	16 1/2" (418)	12.25 (1.14)
WDH20510	4.86 (0.45)	21 7/8" (556)	32 1/4" (819)	8.42 (0.78)	4.92 (0.46)	12 1/2" (317)	12.96 (1.20)
WDH2062	5.16 (0.48)	21 7/8" (556)	34 1/4" (870)	8.95 (0.83)	5.22 (0.49)	8 1/2" (215)	13.68 (1.27)
WDH24210	2.51 (0.23)	25 7/8" (657)	14 1/4" (362)	4.46 (0.41)	2.58 (0.24)	48 1/2" (1231)	7.58 (0.70)
WDH2432	2.86 (0.27)	25 7/8" (657)	16 1/4" (412)	5.09 (0.47)	2.94 (0.27)	44 1/2" (1130)	8.40 (0.78)
WDH2436	3.22 (0.30)	25 7/8" (657)	18 1/4" (463)	5.73 (0.53)	3.30 (0.31)	40 1/2" (1028)	9.23 (0.86)
WDH24310	3.59 (0.33)	25 7/8" (657)	20 1/4" (514)	6.37 (0.59)	3.66 (0.34)	36 1/2" (926)	10.05 (0.93)
WDH2442	3.95 (0.37)	25 7/8" (657)	22 1/4" (565)	7.01 (0.65)	4.02 (0.37)	32 1/2" (825)	10.87 (1.01)
WDH2446	4.19 (0.39)	25 7/8" (657)	24 1/4" (616)	7.65 (0.71)	4.38 (0.41)	28 1/2" (724)	11.70 (1.09)
WDH24410	4.66 (0.43)	25 7/8" (657)	26 1/4" (666)	8.28 (0.77)	4.74 (0.44)	24 1/2" (622)	12.52 (1.16)
WDH2452	5.02 (0.47)	25 7/8" (657)	28 1/4" (717)	8.92 (0.83)	5.10 (0.47)	20 1/2" (520)	13.34 (1.24)
WDH2456	5.38 (0.50)	25 7/8" (657)	30 1/4" (768)	9.56 (0.89)	4.38 (0.41)	16 1/2" (418)	14.17 (1.32)
WDH24510 ◊	5.74 (0.53)	25 7/8" (657)	32 1/4" (819)	10.20 (0.95)	5.81 (0.54)	12 1/2" (317)	14.99 (1.39)
WDH2462 ◊	6.10 (0.57)	25 7/8" (657)	34 1/4" (870)	10.84 (1.01)	6.17 (0.57)	8 1/2" (215)	15.81 (1.47)
WDH26210	2.71 (0.25)	27 7/8" (708)	14 1/4" (362)	4.84 (0.45)	2.78 (0.26)	48 1/2" (1231)	8.09 (0.75)
WDH2632	3.09 (0.29)	27 7/8" (708)	16 1/4" (412)	5.54 (0.52)	3.17 (0.30)	44 1/2" (1130)	8.97 (0.83)
WDH2636	3.48 (0.32)	27 7/8" (708)	18 1/4" (463)	6.23 (0.58)	3.55 (0.33)	40 1/2" (1028)	9.85 (0.92)
WDH26310	3.86 (0.36)	27 7/8" (708)	20 1/4" (514)	6.92 (0.64)	3.94 (0.37)	36 1/2" (926)	10.73 (1.00)
WDH2642	4.25 (0.40)	27 7/8" (708)	22 1/4" (565)	7.62 (0.71)	4.33 (0.40)	32 1/2" (825)	11.61 (1.08)
WDH2646	4.52 (0.42)	27 7/8" (708)	24 1/4" (616)	8.31 (0.77)	4.71 (0.44)	28 1/2" (723)	12.49 (1.16)
WDH26410	5.02 (0.47)	27 7/8" (708)	26 1/4" (666)	9.01 (0.84)	5.10 (0.47)	24 1/2" (622)	13.36 (1.24)
WDH2652	5.41 (0.50)	27 7/8" (708)	28 1/4" (717)	9.70 (0.90)	5.49 (0.51)	20 1/2" (520)	14.24 (1.32)
WDH2656 ◊	5.80 (0.54)	27 7/8" (708)	30 1/4" (768)	10.39 (0.96)	4.71 (0.44)	16 1/2" (418)	15.12 (1.41)
WDH26510 ◊	6.19 (0.57)	27 7/8" (708)	32 1/4" (819)	11.09 (1.03)	6.26 (0.58)	12 1/2" (317)	16.00 (1.49)
WDH2662 ◊	6.58 (0.61)	27 7/8" (708)	34 1/4" (870)	11.78 (1.09)	6.65 (0.62)	8 1/2" (215)	16.88 (1.57)
WDH28210	2.90 (0.27)	29 7/8" (759)	14 1/4" (362)	5.23 (0.49)	2.98 (0.28)	48 1/2" (1231)	8.61 (0.80)
WDH2832	3.31 (0.31)	29 7/8" (759)	16 1/4" (412)	5.98 (0.56)	3.39 (0.32)	44 1/2" (1130)	9.54 (0.89)
WDH2836	3.73 (0.35)	29 7/8" (759)	18 1/4" (463)	6.73 (0.63)	3.81 (0.35)	40 1/2" (1028)	10.47 (0.97)
WDH28310	4.14 (0.38)	29 7/8" (759)	20 1/4" (514)	7.48 (0.70)	4.22 (0.39)	36 1/2" (926)	11.41 (1.06)
WDH2842	4.56 (0.42)	29 7/8" (759)	22 1/4" (565)	8.23 (0.77)	4.64 (0.43)	32 1/2" (825)	12.34 (1.15)
WDH2846	4.85 (0.45)	29 7/8" (759)	24 1/4" (616)	8.98 (0.83)	5.05 (0.47)	28 1/2" (723)	13.28 (1.23)
WDH28410	5.38 (0.50)	29 7/8" (759)	26 1/4" (666)	9.73 (0.90)	5.47 (0.51)	24 1/2" (622)	14.21 (1.32)
WDH2852 ◊	5.80 (0.54)	29 7/8" (759)	28 1/4" (717)	10.48 (0.97)	5.88 (0.55)	20 1/2" (520)	15.14 (1.41)
WDH2856 ◊	6.22 (0.58)	29 7/8" (759)	30 1/4" (768)	11.22 (1.04)	5.05 (0.47)	16 1/2" (418)	16.08 (1.49)
WDH28510 ◊	6.63 (0.62)	29 7/8" (759)	32 1/4" (819)	11.97 (1.11)	6.71 (0.62)	12 1/2" (317)	17.01 (1.58)
WDH2862 ◊	7.05 (0.66)	29 7/8" (759)	34 1/4" (870)	12.72 (1.18)	7.13 (0.66)	8 1/2" (215)	17.95 (1.67)
WDH210210	3.09 (0.29)	31 7/8" (809)	14 1/4" (362)	5.62 (0.52)	3.18 (0.30)	48 1/2" (1231)	9.12 (0.85)
WDH21032	3.53 (0.33)	31 7/8" (809)	16 1/4" (412)	6.42 (0.60)	3.62 (0.34)	44 1/2" (1130)	10.11 (0.94)
WDH21036	3.97 (0.37)	31 7/8" (809)	18 1/4" (463)	7.23 (0.67)	4.06 (0.38)	40 1/2" (1028)	11.10 (1.03)
WDH210310	4.42 (0.41)	31 7/8" (809)	20 1/4" (514)	8.03 (0.75)	4.51 (0.42)	36 1/2" (926)	12.09 (1.12)
WDH21042	4.86 (0.45)	31 7/8" (809)	22 1/4" (565)	8.84 (0.82)	4.95 (0.46)	32 1/2" (825)	13.08 (1.22)
WDH21046	5.17 (0.48)	31 7/8" (809)	24 1/4" (616)	9.64 (0.90)	5.39 (0.50)	28 1/2" (723)	14.07 (1.31)

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For cottage and reverse cottage sash opening specifications, visit **andersenwindows.com/openingspecs**.

- "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
- Dimensions in parentheses are in millimeters or square meters.

◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Woodwright® Double-Hung Window Opening and Area Specifications *(continued)*

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position: Width Inches/(mm)	Clear Opening in Full Open Position: Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
WDH210410 ◊	5.74 (0.53)	31 7/8" (809)	26 1/4" (666)	10.45 (0.97)	5.83 (0.54)	24 1/2" (622)	15.05 (1.40)
WDH21052 ◊	6.18 (0.57)	31 7/8" (809)	28 1/4" (717)	11.25 (1.05)	6.28 (0.58)	20 1/2" (520)	16.04 (1.49)
WDH21056 ◊	6.63 (0.62)	31 7/8" (809)	30 1/4" (768)	12.06 (1.12)	5.39 (0.50)	16 1/2" (418)	17.03 (1.59)
WDH210510 ◊	7.07 (0.66)	31 7/8" (809)	34 1/4" (819)	12.86 (1.20)	7.16 (0.67)	12 1/2" (317)	18.02 (1.67)
WDH21062 ◊	7.52 (0.70)	31 7/8" (809)	34 1/4" (870)	13.67 (1.27)	7.60 (0.71)	8 1/2" (215)	19.01 (1.77)
WDH30210	3.29 (0.31)	33 7/8" (860)	14 1/4" (362)	6.01 (0.56)	3.38 (0.31)	48 1/2" (1231)	9.63 (0.90)
WDH3032	3.75 (0.35)	33 7/8" (860)	16 1/4" (412)	6.87 (0.64)	3.85 (0.36)	44 1/2" (1130)	10.67 (0.99)
WDH3036	4.22 (0.39)	33 7/8" (860)	18 1/4" (463)	7.73 (0.72)	4.32 (0.40)	40 1/2" (1028)	11.72 (1.09)
WDH30310	4.69 (0.44)	33 7/8" (860)	20 1/4" (514)	8.59 (0.80)	4.79 (0.45)	36 1/2" (926)	12.76 (1.19)
WDH3042	5.17 (0.48)	33 7/8" (860)	22 1/4" (565)	9.45 (0.88)	5.26 (0.49)	32 1/2" (825)	13.81 (1.28)
WDH3046 ◊	5.75 (0.53)	33 7/8" (860)	24 1/4" (616)	10.31 (0.96)	5.73 (0.53)	28 1/2" (723)	14.85 (1.38)
WDH30410 ◊	6.10 (0.57)	33 7/8" (860)	26 1/4" (666)	11.17 (1.04)	6.20 (0.58)	24 1/2" (622)	15.90 (1.48)
WDH3052 ◊	6.57 (0.61)	33 7/8" (860)	28 1/4" (717)	12.03 (1.12)	6.67 (0.62)	20 1/2" (520)	16.95 (1.58)
WDH3056 ◊	7.04 (0.65)	33 7/8" (860)	30 1/4" (768)	12.89 (1.20)	5.73 (0.53)	16 1/2" (418)	17.99 (1.67)
WDH30510 ◊	7.52 (0.70)	33 7/8" (860)	32 1/4" (819)	13.75 (1.28)	7.61 (0.71)	12 1/2" (317)	19.04 (1.77)
WDH3062 ◊	7.99 (0.74)	33 7/8" (860)	34 1/4" (870)	14.61 (1.36)	8.08 (0.75)	8 1/2" (215)	20.08 (1.87)
WDH34210	3.68 (0.34)	37 7/8" (962)	14 1/4" (362)	6.79 (0.63)	3.78 (0.35)	48 1/2" (1231)	10.65 (0.99)
WDH3432	4.19 (0.39)	37 7/8" (962)	16 1/4" (412)	7.76 (0.72)	4.30 (0.40)	44 1/2" (1130)	11.81 (1.10)
WDH3436	4.72 (0.44)	37 7/8" (962)	18 1/4" (463)	8.73 (0.81)	4.83 (0.45)	40 1/2" (1028)	12.97 (1.21)
WDH34310	5.25 (0.49)	37 7/8" (962)	20 1/4" (514)	9.70 (0.90)	5.35 (0.50)	36 1/2" (926)	14.12 (1.31)
WDH3442	5.78 (0.54)	37 7/8" (962)	22 1/4" (565)	10.67 (0.99)	5.88 (0.55)	32 1/2" (825)	15.28 (1.42)
WDH3446 ◊	6.14 (0.57)	37 7/8" (962)	24 1/4" (616)	11.64 (1.08)	6.41 (0.60)	28 1/2" (723)	16.43 (1.53)
WDH34410 ◊	6.82 (0.63)	37 7/8" (962)	26 1/4" (666)	12.61 (1.17)	6.93 (0.64)	24 1/2" (622)	17.59 (1.63)
WDH3452 ◊	7.35 (0.68)	37 7/8" (962)	28 1/4" (717)	13.58 (1.26)	7.46 (0.69)	20 1/2" (520)	18.75 (1.74)
WDH3456 ◊	7.88 (0.73)	37 7/8" (962)	30 1/4" (768)	14.55 (1.35)	6.41 (0.60)	16 1/2" (418)	19.90 (1.85)
WDH34510 ◊	8.41 (0.78)	37 7/8" (962)	32 1/4" (819)	15.53 (1.44)	8.51 (0.79)	12 1/2" (317)	21.06 (1.96)
WDH3462 ◊	8.94 (0.83)	37 7/8" (962)	34 1/4" (870)	16.50 (1.53)	9.04 (0.84)	8 1/2" (215)	22.22 (2.06)
WDH38210	4.07 (0.38)	41 7/8" (1064)	14 1/4" (362)	7.56 (0.70)	4.17 (0.39)	48 1/2" (1231)	11.68 (1.09)
WDH3832	4.64 (0.43)	41 7/8" (1064)	16 1/4" (412)	8.64 (0.80)	4.76 (0.44)	44 1/2" (1130)	12.94 (1.20)
WDH3836	5.22 (0.49)	41 7/8" (1064)	18 1/4" (463)	9.72 (0.90)	5.34 (0.50)	40 1/2" (1028)	14.21 (1.32)
WDH38310	5.81 (0.54)	41 7/8" (1064)	20 1/4" (514)	10.81 (1.00)	5.92 (0.55)	36 1/2" (926)	15.48 (1.44)
WDH3842	6.39 (0.59)	41 7/8" (1064)	22 1/4" (565)	11.89 (1.11)	6.50 (0.60)	32 1/2" (825)	16.75 (1.56)
WDH3846 ◊	6.79 (0.63)	41 7/8" (1064)	24 1/4" (616)	12.97 (1.21)	7.08 (0.66)	28 1/2" (723)	18.01 (1.67)
WDH38410 ◊	7.55 (0.70)	41 7/8" (1064)	26 1/4" (666)	14.05 (1.31)	7.66 (0.71)	24 1/2" (622)	19.28 (1.79)
WDH3852 ◊	8.13 (0.76)	41 7/8" (1064)	28 1/4" (717)	15.14 (1.41)	8.25 (0.77)	20 1/2" (520)	20.55 (1.91)
WDH3856 ◊	8.72 (0.81)	41 7/8" (1064)	30 1/4" (768)	16.22 (1.51)	7.08 (0.66)	16 1/2" (418)	21.62 (2.01)
WDH38510 ◊	9.30 (0.86)	41 7/8" (1064)	32 1/4" (819)	17.30 (1.61)	9.41 (0.87)	12 1/2" (317)	23.08 (2.14)
WDH3862 ◊	9.88 (0.92)	41 7/8" (1064)	34 1/4" (870)	18.38 (1.71)	9.99 (0.93)	8 1/2" (215)	24.35 (2.26)

Woodwright® Springline™ Single-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position: Width Inches/(mm)	Clear Opening in Full Open Position: Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
WS2042	1.39 (0.13)	21 7/8" (556)	9 2/16" (231)	5.48 (0.51)	1.39 (0.13)	32 9/16" (828)	8.90 (0.83)
WS2046	1.54 (0.14)	21 7/8" (556)	10 2/16" (257)	5.88 (0.55)	1.54 (0.14)	29 9/16" (751)	9.44 (0.88)
WS20410	1.69 (0.16)	21 7/8" (556)	11 2/16" (282)	6.29 (0.59)	1.69 (0.16)	26 9/16" (675)	9.97 (0.93)
WS2052	1.84 (0.17)	21 7/8" (556)	12 2/16" (308)	6.70 (0.62)	1.84 (0.17)	23 9/16" (599)	10.51 (0.98)
WS2056	2.76 (0.26)	21 7/8" (556)	18 2/16" (461)	7.80 (0.72)	2.76 (0.26)	15 9/16" (395)	11.94 (1.11)
WS20510	2.96 (0.28)	21 7/8" (556)	19 1/2" (495)	8.25 (0.77)	2.96 (0.28)	12 9/16" (310)	12.53 (1.16)
WS2062	3.16 (0.29)	21 7/8" (556)	20 13/16" (529)	8.71 (0.81)	3.16 (0.29)	8 7/8" (226)	13.12 (1.22)
WS2442	1.64 (0.15)	25 7/8" (658)	9 2/16" (231)	6.85 (0.64)	1.64 (0.15)	30 9/16" (777)	10.62 (0.99)
WS2446	1.82 (0.17)	25 7/8" (658)	10 2/16" (257)	7.34 (0.68)	1.82 (0.17)	27 9/16" (701)	11.23 (1.04)
WS24410	2.00 (0.19)	25 7/8" (658)	11 2/16" (282)	7.83 (0.73)	2.00 (0.19)	24 9/16" (624)	11.85 (1.10)
WS2452	2.18 (0.20)	25 7/8" (658)	12 2/16" (308)	8.33 (0.77)	2.18 (0.20)	21 9/16" (548)	12.47 (1.16)
WS2456	3.26 (0.30)	25 7/8" (658)	18 2/16" (461)	9.65 (0.90)	3.26 (0.30)	13 9/16" (344)	14.12 (1.31)
WS24510	3.50 (0.33)	25 7/8" (658)	19 1/2" (495)	10.19 (0.95)	3.50 (0.33)	10 3/16" (259)	14.81 (1.38)
WS2462	3.74 (0.35)	25 7/8" (658)	20 13/16" (529)	10.74 (1.00)	3.74 (0.35)	6 7/8" (175)	15.49 (1.44)
WS2642	1.76 (0.16)	27 7/8" (708)	9 1/8" (231)	7.57 (0.70)	1.76 (0.16)	29 9/16" (751)	11.51 (1.07)
WS2646	1.96 (0.18)	27 7/8" (708)	10 1/8" (257)	8.10 (0.75)	1.96 (0.18)	26 9/16" (675)	12.17 (1.13)
WS26410	2.15 (0.20)	27 7/8" (708)	11 1/8" (282)	8.64 (0.80)	2.15 (0.20)	23 9/16" (599)	12.82 (1.19)
WS2652	2.35 (0.22)	27 7/8" (708)	12 1/8" (308)	9.17 (0.85)	2.35 (0.22)	20 9/16" (523)	13.48 (1.25)
WS2656	3.52 (0.33)	27 7/8" (708)	18 1/8" (461)	10.60 (0.99)	3.52 (0.33)	12 9/16" (319)	15.25 (1.42)

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For cottage and reverse cottage sash opening specifications visit **andersenwindows.com/openingspecs**.

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Woodwright® Springline™ Single-Hung Window Opening and Area Specifications *(continued)*

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
WS26510	3.77 (0.35)	27 7/8" (708)	19 1/2" (495)	11.19 (1.04)	3.77 (0.35)	9 3/16" (234)	15.98 (1.49)
WS2662	4.03 (0.38)	27 7/8" (708)	20 13/16" (529)	11.79 (1.10)	4.03 (0.38)	* *	16.71 (1.55)
WS2842	1.89 (0.18)	29 7/8" (759)	9 1/8" (231)	8.31 (0.77)	1.89 (0.18)	28 9/16" (726)	12.42 (1.15)
WS2846	2.10 (0.20)	29 7/8" (759)	10 1/8" (257)	8.89 (0.83)	2.10 (0.20)	25 9/16" (650)	13.12 (1.22)
WS28410	2.31 (0.21)	29 7/8" (759)	11 1/8" (282)	9.46 (0.88)	2.31 (0.21)	22 9/16" (574)	13.82 (1.28)
WS2852	2.51 (0.23)	29 7/8" (759)	12 1/8" (308)	10.04 (0.93)	2.51 (0.23)	19 9/16" (497)	14.52 (1.35)
WS2856	3.77 (0.35)	29 7/8" (759)	18 1/8" (461)	11.58 (1.08)	3.77 (0.35)	11 9/16" (293)	16.40 (1.52)
WS28510	4.04 (0.38)	29 7/8" (759)	19 1/2" (495)	12.22 (1.14)	4.04 (0.38)	8 3/16" (209)	17.18 (1.60)
WS2862	4.32 (0.40)	29 7/8" (759)	20 13/16" (529)	12.86 (1.20)	4.32 (0.40)	* *	17.95 (1.67)
WS21042	2.02 (0.19)	31 7/8" (810)	9 1/8" (231)	9.07 (0.84)	2.02 (0.19)	27 9/16" (701)	13.35 (1.24)
WS21046	2.24 (0.21)	31 7/8" (810)	10 1/8" (257)	9.69 (0.90)	2.24 (0.21)	24 9/16" (624)	14.09 (1.31)
WS210410	2.46 (0.23)	31 7/8" (810)	11 1/8" (282)	10.31 (0.96)	2.46 (0.23)	21 9/16" (548)	14.84 (1.38)
WS21052	2.68 (0.25)	31 7/8" (810)	12 1/8" (308)	10.93 (1.02)	2.68 (0.25)	18 9/16" (472)	15.58 (1.45)
WS21056	4.02 (0.37)	31 7/8" (810)	18 1/8" (461)	12.58 (1.17)	4.02 (0.37)	10 9/16" (268)	17.57 (1.63)
WS210510	4.32 (0.40)	31 7/8" (810)	19 1/2" (495)	13.27 (1.23)	4.32 (0.40)	7 3/16" (183)	18.39 (1.71)
WS21062	4.61 (0.43)	31 7/8" (810)	20 13/16" (529)	13.95 (1.30)	4.61 (0.43)	* *	19.22 (1.79)
WS3042	2.14 (0.20)	33 7/8" (861)	9 1/8" (231)	9.86 (0.92)	2.14 (0.20)	26 9/16" (675)	14.31 (1.33)
WS3046	2.38 (0.22)	33 7/8" (861)	10 1/8" (257)	10.52 (0.98)	2.38 (0.22)	23 9/16" (599)	15.09 (1.40)
WS30410	2.62 (0.24)	33 7/8" (861)	11 1/8" (282)	11.18 (1.04)	2.62 (0.24)	20 9/16" (523)	15.87 (1.48)
WS3052	2.85 (0.27)	33 7/8" (861)	12 1/8" (308)	11.84 (1.10)	2.85 (0.27)	17 9/16" (447)	16.66 (1.55)
WS3056	4.27 (0.40)	33 7/8" (861)	18 1/8" (461)	13.60 (1.26)	4.27 (0.40)	9 9/16" (242)	18.76 (1.74)
WS30510	4.59 (0.43)	33 7/8" (861)	19 1/2" (495)	14.33 (1.33)	4.59 (0.43)	6 3/16" (158)	19.63 (1.82)
WS3062	4.90 (0.46)	33 7/8" (861)	20 13/16" (529)	15.07 (1.40)	4.90 (0.46)	* *	20.50 (1.90)
WS3442	2.40 (0.22)	37 7/8" (962)	9 1/8" (231)	11.50 (1.07)	2.40 (0.22)	24 9/16" (624)	16.28 (1.51)
WS3446	2.66 (0.25)	37 7/8" (962)	10 1/8" (257)	12.24 (1.14)	2.66 (0.25)	21 9/16" (548)	17.15 (1.59)
WS34410	2.92 (0.27)	37 7/8" (962)	11 1/8" (282)	12.98 (1.21)	2.92 (0.27)	18 9/16" (472)	18.02 (1.67)
WS3452	3.19 (0.30)	37 7/8" (962)	12 1/8" (308)	13.72 (1.28)	3.19 (0.30)	15 9/16" (396)	18.88 (1.75)
WS3456	4.78 (0.44)	37 7/8" (962)	18 1/8" (461)	15.71 (1.46)	4.78 (0.44)	7 9/16" (192)	21.21 (1.97)
WS34510	5.13 (0.48)	37 7/8" (962)	19 1/2" (495)	16.54 (1.54)	5.13 (0.48)	* *	22.17 (2.06)
WS3462	5.48 (0.51)	37 7/8" (962)	20 13/16" (529)	17.36 (1.61)	5.48 (0.51)	* *	23.13 (2.15)
WS3842	2.65 (0.25)	41 7/8" (1064)	9 1/8" (231)	13.22 (1.23)	2.65 (0.25)	22 9/16" (574)	18.34 (1.70)
WS3846	2.94 (0.27)	41 7/8" (1064)	10 1/8" (257)	14.04 (1.31)	2.94 (0.27)	19 9/16" (497)	19.29 (1.79)
WS38410	3.23 (0.30)	41 7/8" (1064)	11 1/8" (282)	14.87 (1.38)	3.23 (0.30)	16 9/16" (421)	20.24 (1.88)
WS3852	3.52 (0.33)	41 7/8" (1064)	12 1/8" (308)	15.69 (1.46)	3.52 (0.33)	13 9/16" (345)	21.19 (1.97)
WS3856	5.28 (0.49)	41 7/8" (1064)	18 1/8" (461)	17.91 (1.66)	5.28 (0.49)	* *	23.74 (2.21)
WS38510	5.67 (0.53)	41 7/8" (1064)	19 1/2" (495)	18.82 (1.75)	5.67 (0.53)	* *	24.80 (2.30)
WS3862	6.06 (0.56)	41 7/8" (1064)	20 13/16" (529)	19.74 (1.83)	6.06 (0.56)	* *	25.85 (2.40)

Woodwright® Arch Double-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
WA18210	1.26 (0.12)	17 7/8" (454)	10 3/16" (259)	2.84 (0.26)	1.61 (0.15)	48 1/2" (1232)	5.39 (0.50)
WA1832	1.51 (0.14)	17 7/8" (454)	12 3/16" (309)	3.27 (0.30)	1.85 (0.17)	44 1/2" (1131)	5.99 (0.56)
WA1836	1.76 (0.16)	17 7/8" (454)	14 3/16" (360)	3.71 (0.34)	2.10 (0.20)	40 1/2" (1029)	6.59 (0.61)
WA18310	2.01 (0.19)	17 7/8" (454)	16 3/16" (411)	4.14 (0.39)	2.35 (0.22)	36 1/2" (928)	7.20 (0.67)
WA1842	2.26 (0.21)	17 7/8" (454)	18 3/16" (462)	4.58 (0.43)	2.60 (0.24)	32 1/2" (826)	7.80 (0.72)
WA1846	2.51 (0.23)	17 7/8" (454)	20 3/16" (513)	5.01 (0.47)	2.85 (0.27)	28 1/2" (724)	8.40 (0.78)
WA18410	2.76 (0.26)	17 7/8" (454)	22 3/16" (563)	5.44 (0.51)	3.10 (0.29)	24 1/2" (623)	9.00 (0.84)
WA1852	3.00 (0.28)	17 7/8" (454)	24 3/16" (614)	5.88 (0.55)	3.35 (0.31)	20 1/2" (521)	9.60 (0.89)
WA1856	3.25 (0.30)	17 7/8" (454)	26 3/16" (665)	6.31 (0.59)	3.59 (0.33)	16 1/2" (420)	10.20 (0.95)
WA18510	3.50 (0.33)	17 7/8" (454)	28 3/16" (716)	6.75 (0.63)	3.84 (0.36)	12 1/2" (318)	10.80 (1.00)
WA1862	3.75 (0.35)	17 7/8" (454)	30 3/16" (767)	7.18 (0.67)	4.09 (0.38)	8 1/2" (216)	11.40 (1.06)
WA2032	1.77 (0.16)	21 7/8" (556)	11 5/8" (296)	4.09 (0.38)	2.24 (0.21)	44 1/2" (1131)	7.07 (0.66)
WA2036	2.07 (0.19)	21 7/8" (556)	13 5/8" (347)	4.63 (0.43)	2.55 (0.24)	40 1/2" (1029)	7.78 (0.72)
WA20310	2.38 (0.22)	21 7/8" (556)	15 5/8" (397)	5.18 (0.48)	2.85 (0.27)	36 1/2" (928)	8.50 (0.79)
WA2042	2.68 (0.25)	21 7/8" (556)	17 5/8" (448)	5.72 (0.53)	3.15 (0.29)	32 1/2" (826)	9.21 (0.86)
WA2046	2.99 (0.28)	21 7/8" (556)	19 5/8" (499)	6.27 (0.58)	3.46 (0.32)	28 1/2" (724)	9.92 (0.92)
WA20410	3.29 (0.31)	21 7/8" (556)	21 5/8" (550)	6.81 (0.63)	3.76 (0.35)	24 1/2" (623)	10.63 (0.99)
WA2052	3.59 (0.33)	21 7/8" (556)	23 5/8" (601)	7.36 (0.68)	4.07 (0.38)	20 1/2" (521)	11.34 (1.05)
WA2056	3.90 (0.36)	21 7/8" (556)	25 5/8" (651)	7.90 (0.73)	4.37 (0.41)	16 1/2" (420)	12.05 (1.12)
WA20510	4.20 (0.39)	21 7/8" (556)	27 5/8" (702)	8.45 (0.79)	4.68 (0.43)	12 1/2" (318)	12.77 (1.19)

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Woodwright® Picture Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	Overall Window Area Sq. Ft./(m²)
WPW10310	2.03 (0.19)	4.07 (0.38)
WPW1042	2.22 (0.21)	4.41 (0.41)
WPW1046	2.42 (0.23)	4.74 (0.44)
WPW10410	2.61 (0.24)	5.07 (0.47)
WPW1052	2.81 (0.26)	5.41 (0.50)
WPW1056	3.01 (0.28)	5.74 (0.53)
WPW10510	3.20 (0.30)	6.07 (0.56)
WPW1062	3.40 (0.32)	6.41 (0.60)
WPW30310	9.38 (0.87)	12.77 (1.19)
WPW3042	10.29 (0.96)	13.82 (1.28)
WPW3046	11.19 (1.04)	14.86 (1.38)
WPW30410	12.10 (1.12)	15.91 (1.48)
WPW3052	13.01 (1.21)	16.95 (1.58)
WPW3056	13.92 (1.29)	18.00 (1.67)
WPW30510	14.83 (1.38)	19.04 (1.77)
WPW3062	15.73 (1.46)	20.09 (1.87)
WPW34310	10.53 (0.98)	14.13 (1.31)
WPW3442	11.54 (1.07)	15.28 (1.42)
WPW3446	12.56 (1.17)	16.44 (1.53)
WPW34410	13.58 (1.26)	17.60 (1.64)
WPW3452	14.60 (1.36)	18.75 (1.74)
WPW3456	15.62 (1.45)	19.91 (1.85)
WPW34510	16.64 (1.55)	21.07 (1.96)
WPW3462	17.66 (1.64)	22.22 (2.06)
WPW310310	12.16 (1.13)	16.06 (1.49)
WPW31042	13.33 (1.24)	17.37 (1.61)
WPW31046	14.51 (1.35)	18.69 (1.74)
WPW310410	15.69 (1.46)	20.00 (1.86)
WPW31052	16.87 (1.57)	21.32 (1.98)
WPW31056	18.04 (1.68)	22.63 (2.10)
WPW310510	19.22 (1.79)	23.94 (2.22)
WPW31062	20.40 (1.90)	25.26 (2.35)
WPW42310	13.30 (1.24)	17.42 (1.62)
WPW4242	14.20 (1.32)	18.84 (1.75)
WPW4246	15.88 (1.48)	20.27 (1.88)
WPW42410	17.17 (1.60)	21.69 (2.02)
WPW4252	18.46 (1.72)	23.12 (2.15)
WPW4256	19.75 (1.84)	24.54 (2.28)
WPW42510	21.03 (1.95)	25.97 (2.41)
WPW4262	22.32 (2.07)	27.39 (2.55)
WPW410310	15.60 (1.45)	20.13 (1.87)
WPW41042	17.11 (1.59)	21.78 (2.02)
WPW41046	18.62 (1.73)	23.43 (2.18)
WPW410410	20.13 (1.87)	25.07 (2.33)
WPW41052	21.64 (2.01)	26.72 (2.48)
WPW41056	23.15 (2.15)	28.37 (2.64)
WPW410510	24.66 (2.29)	30.02 (2.79)
WPW41062	26.17 (2.43)	31.66 (2.94)
WPW56310	17.89 (1.66)	22.85 (2.12)
WPW5642	19.63 (1.82)	24.72 (2.30)
WPW5646	21.36 (1.98)	26.59 (2.47)
WPW56410	23.09 (2.15)	28.46 (2.64)
WPW5652	24.83 (2.31)	30.33 (2.82)
WPW5656	26.56 (2.47)	32.20 (2.99)
WPW56510	28.29 (2.63)	34.07 (3.17)
WPW5662	30.02 (2.79)	35.93 (3.34)

• Dimensions in parentheses are in square meters.

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
*Dimension varies depending on header height.

Woodwright® Arch Double-Hung Window Opening and Area Specifications *(continued)*

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
		Width Inches/(mm)	Height Inches/(mm)				
WA2062	4.51 (0.42)	21 7/8" (556)	29 5/8" (753)	8.99 (0.84)	4.98 (0.46)	8 1/2" (216)	13.48 (1.25)
WA2432	2.00 (0.19)	25 7/8" (658)	11 1/8" (282)	4.89 (0.46)	2.62 (0.24)	44 1/2" (1131)	8.14 (0.76)
WA2436	2.36 (0.22)	25 7/8" (658)	13 1/8" (333)	5.55 (0.52)	2.98 (0.28)	40 1/2" (1029)	8.96 (0.83)
WA24310	2.72 (0.25)	25 7/8" (658)	15 1/8" (384)	6.21 (0.58)	3.34 (0.31)	36 1/2" (928)	9.79 (0.91)
WA2442	3.08 (0.29)	25 7/8" (658)	17 1/8" (435)	6.86 (0.64)	3.70 (0.34)	32 1/2" (826)	10.61 (0.99)
WA2446	3.44 (0.32)	25 7/8" (658)	19 1/8" (485)	7.52 (0.70)	4.06 (0.38)	28 1/2" (724)	11.43 (1.06)
WA24410	3.80 (0.35)	25 7/8" (658)	21 1/8" (536)	8.17 (0.76)	4.42 (0.41)	24 1/2" (623)	12.26 (1.14)
WA2452	4.16 (0.39)	25 7/8" (658)	23 1/8" (587)	8.83 (0.82)	4.78 (0.44)	20 1/2" (521)	13.08 (1.22)
WA2456	4.51 (0.42)	25 7/8" (658)	25 1/8" (638)	9.49 (0.88)	5.14 (0.48)	16 1/2" (420)	13.90 (1.29)
WA24510	4.87 (0.45)	25 7/8" (658)	27 1/8" (689)	10.14 (0.94)	5.50 (0.51)	12 1/2" (318)	14.72 (1.37)
WA2462	5.23 (0.49)	25 7/8" (658)	29 1/8" (739)	10.80 (1.00)	5.86 (0.54)	8 1/2" (216)	15.55 (1.44)
WA2632	2.10 (0.20)	27 7/8" (708)	10 13/16" (275)	5.29 (0.49)	2.81 (0.26)	44 1/2" (1131)	8.67 (0.81)
WA2636	2.49 (0.23)	27 7/8" (708)	12 13/16" (326)	6.00 (0.56)	3.19 (0.30)	40 1/2" (1029)	9.55 (0.89)
WA26310	2.88 (0.27)	27 7/8" (708)	14 13/16" (377)	6.72 (0.62)	3.58 (0.33)	36 1/2" (928)	10.43 (0.97)
WA2642	3.26 (0.30)	27 7/8" (708)	16 13/16" (428)	7.43 (0.69)	3.97 (0.37)	32 1/2" (826)	11.31 (1.05)
WA2646	3.65 (0.34)	27 7/8" (708)	18 13/16" (479)	8.14 (0.76)	4.36 (0.41)	28 1/2" (724)	12.18 (1.13)
WA26410	4.04 (0.38)	27 7/8" (708)	20 13/16" (529)	8.85 (0.82)	4.74 (0.44)	24 1/2" (623)	13.06 (1.21)
WA2652	4.42 (0.41)	27 7/8" (708)	22 13/16" (580)	9.56 (0.89)	5.13 (0.48)	20 1/2" (521)	13.94 (1.30)
WA2656	4.81 (0.45)	27 7/8" (708)	24 13/16" (631)	10.28 (0.96)	5.52 (0.51)	16 1/2" (420)	14.82 (1.38)
WA26510	5.20 (0.48)	27 7/8" (708)	26 13/16" (682)	10.99 (1.02)	5.91 (0.55)	12 1/2" (318)	15.70 (1.46)
WA2662	5.59 (0.52)	27 7/8" (708)	28 13/16" (733)	11.70 (1.09)	6.29 (0.59)	8 1/2" (216)	16.58 (1.54)
WA2836	2.61 (0.24)	29 7/8" (759)	12 9/16" (319)	6.46 (0.60)	3.41 (0.32)	40 1/2" (1029)	10.13 (0.94)
WA28310	3.03 (0.28)	29 7/8" (759)	14 9/16" (370)	7.22 (0.67)	3.82 (0.36)	36 1/2" (928)	11.07 (1.03)
WA2842	3.44 (0.32)	29 7/8" (759)	16 9/16" (421)	7.99 (0.74)	4.24 (0.39)	32 1/2" (826)	12.00 (1.12)
WA2846	3.86 (0.36)	29 7/8" (759)	18 9/16" (472)	8.76 (0.81)	4.65 (0.43)	28 1/2" (724)	12.94 (1.20)
WA28410	4.27 (0.40)	29 7/8" (759)	20 9/16" (523)	9.53 (0.89)	5.07 (0.47)	24 1/2" (623)	13.87 (1.29)
WA2852	4.69 (0.44)	29 7/8" (759)	22 9/16" (573)	10.29 (0.96)	5.48 (0.51)	20 1/2" (521)	14.80 (1.38)
WA2856	5.10 (0.47)	29 7/8" (759)	24 9/16" (624)	11.06 (1.03)	5.90 (0.55)	16 1/2" (420)	15.74 (1.46)
WA28510	5.52 (0.51)	29 7/8" (759)	26 9/16" (675)	11.83 (1.10)	6.31 (0.59)	12 1/2" (318)	16.67 (1.55)
WA2862 ◊	5.93 (0.55)	29 7/8" (759)	28 9/16" (726)	12.60 (1.17)	6.73 (0.63)	8 1/2" (216)	17.61 (1.64)
WA210310	3.17 (0.29)	31 7/8" (810)	14 5/16" (363)	7.73 (0.72)	4.06 (0.38)	36 1/2" (928)	11.70 (1.09)
WA21042	3.61 (0.34)	31 7/8" (810)	16 5/16" (414)	8.55 (0.80)	4.50 (0.42)	32 1/2" (826)	12.69 (1.18)
WA21046	4.05 (0.38)	31 7/8" (810)	18 5/16" (465)	9.38 (0.87)	4.94 (0.46)	28 1/2" (724)	13.68 (1.27)
WA210410	4.50 (0.42)	31 7/8" (810)	20 5/16" (516)	10.20 (0.95)	5.39 (0.50)	24 1/2" (623)	14.67 (1.36)
WA21052	4.94 (0.46)	31 7/8" (810)	22 5/16" (567)	11.02 (1.02)	5.83 (0.54)	20 1/2" (521)	15.66 (1.46)
WA21056	5.38 (0.50)	31 7/8" (810)	24 5/16" (617)	11.84 (1.10)	6.27 (0.58)	16 1/2" (420)	16.65 (1.55)
WA210510 ◊	5.83 (0.54)	31 7/8" (810)	26 5/16" (668)	12.67 (1.18)	6.72 (0.62)	12 1/2" (318)	17.64 (1.64)
WA21062 ◊	6.27 (0.58)	31 7/8" (810)	28 5/16" (719)	13.49 (1.25)	7.16 (0.67)	8 1/2" (216)	18.63 (1.73)
WA30310	3.30 (0.31)	33 7/8" (861)	14 1/16" (357)	8.23 (0.77)	4.29 (0.40)	36 1/2" (928)	12.34 (1.15)
WA3042	3.78 (0.35)	33 7/8" (861)	16 1/16" (407)	9.11 (0.85)	4.76 (0.44)	32 1/2" (826)	13.38 (1.24)
WA3046	4.25 (0.39)	33 7/8" (861)	18 1/16" (458)	9.99 (0.93)	5.23 (0.49)	28 1/2" (724)	14.43 (1.34)
WA30410	4.72 (0.44)	33 7/8" (861)	20 1/16" (509)	10.87 (1.01)	5.70 (0.53)	24 1/2" (623)	15.47 (1.44)
WA3052	5.19 (0.48)	33 7/8" (861)	22 1/16" (560)	11.75 (1.09)	6.17 (0.57)	20 1/2" (521)	16.52 (1.54)
WA3056	5.66 (0.53)	33 7/8" (861)	24 1/16" (611)	12.62 (1.17)	6.65 (0.62)	16 1/2" (420)	17.56 (1.63)
WA30510 ◊	6.13 (0.57)	33 7/8" (861)	26 1/16" (661)	13.50 (1.25)	7.12 (0.66)	12 1/2" (318)	18.61 (1.73)
WA3062 ◊	6.60 (0.61)	33 7/8" (861)	28 1/16" (712)	14.38 (1.34)	7.59 (0.71)	8 1/2" (216)	19.65 (1.83)
WA34310	3.55 (0.33)	37 7/8" (962)	13 1/2" (343)	9.23 (0.86)	4.75 (0.44)	36 1/2" (928)	13.60 (1.26)
WA3442	4.08 (0.38)	37 7/8" (962)	15 1/2" (394)	10.22 (0.95)	5.28 (0.49)	32 1/2" (826)	14.76 (1.37)
WA3446	4.61 (0.43)	37 7/8" (962)	17 1/2" (445)	11.21 (1.04)	5.81 (0.54)	28 1/2" (724)	15.91 (1.48)
WA34410	5.13 (0.48)	37 7/8" (962)	19 1/2" (495)	12.20 (1.13)	6.33 (0.59)	24 1/2" (623)	17.07 (1.59)
WA3452	5.66 (0.53)	37 7/8" (962)	21 1/2" (546)	13.19 (1.23)	6.86 (0.64)	20 1/2" (521)	18.22 (1.69)
WA3456	6.19 (0.58)	37 7/8" (962)	23 1/2" (597)	14.18 (1.32)	7.38 (0.69)	16 1/2" (420)	19.38 (1.80)
WA34510 ◊	6.71 (0.62)	37 7/8" (962)	25 1/2" (648)	15.17 (1.41)	7.91 (0.74)	12 1/2" (318)	20.54 (1.91)
WA3462 ◊	7.24 (0.67)	37 7/8" (962)	27 1/2" (699)	16.16 (1.50)	8.44 (0.78)	8 1/2" (216)	21.69 (2.02)
WA3842	4.36 (0.41)	41 7/8" (1064)	15" (380)	11.32 (1.05)	5.79 (0.54)	32 1/2" (826)	16.12 (1.50)
WA3846	4.94 (0.46)	41 7/8" (1064)	17" (431)	12.42 (1.15)	6.37 (0.59)	28 1/2" (724)	17.39 (1.62)
WA38410	5.52 (0.51)	41 7/8" (1064)	19" (482)	13.52 (1.26)	6.95 (0.65)	24 1/2" (623)	18.65 (1.73)
WA3852	6.10 (0.57)	41 7/8" (1064)	21" (533)	14.62 (1.36)	7.53 (0.70)	20 1/2" (521)	19.92 (1.85)
WA3856	6.68 (0.62)	41 7/8" (1064)	23" (583)	15.72 (1.46)	8.11 (0.75)	16 1/2" (420)	21.19 (1.97)
WA38510 ◊	7.26 (0.68)	41 7/8" (1064)	25" (634)	16.82 (1.56)	8.70 (0.81)	12 1/2" (318)	22.46 (2.09)
WA3862 ◊	7.85 (0.73)	41 7/8" (1064)	27" (685)	17.93 (1.67)	9.28 (0.86)	8 1/2" (216)	23.72 (2.20)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Woodwright® Unequal Leg Arch Double-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
WU1836	1.44 (0.13)	17 7/8" (454)	11 5/8" (295)	3.59 (0.33)	1.98 (0.18)	40 1/2" (1029)	6.47 (0.60)
WU18310	1.69 (0.16)	17 7/8" (454)	13 5/8" (346)	4.02 (0.37)	2.23 (0.21)	36 1/2" (928)	7.07 (0.66)
WU1842	1.94 (0.18)	17 7/8" (454)	15 5/8" (396)	4.46 (0.41)	2.48 (0.23)	32 1/2" (826)	7.67 (0.71)
WU1846	2.19 (0.20)	17 7/8" (454)	17 5/8" (447)	4.89 (0.45)	2.72 (0.25)	28 1/2" (724)	8.27 (0.77)
WU18410	2.44 (0.23)	17 7/8" (454)	19 5/8" (498)	5.32 (0.49)	2.97 (0.28)	24 1/2" (623)	8.87 (0.82)
WU1852	2.68 (0.25)	17 7/8" (454)	21 5/8" (549)	5.76 (0.53)	3.22 (0.30)	20 1/2" (521)	9.47 (0.88)
WU1856	2.93 (0.27)	17 7/8" (454)	23 5/8" (600)	6.19 (0.58)	3.47 (0.32)	16 1/2" (420)	10.07 (0.94)
WU18510	3.18 (0.30)	17 7/8" (454)	25 5/8" (650)	6.63 (0.62)	3.72 (0.35)	12 1/2" (318)	10.67 (0.99)
WU1862	3.43 (0.32)	17 7/8" (454)	27 5/8" (701)	7.06 (0.66)	3.97 (0.37)	8 1/2" (216)	11.28 (1.05)
WU20310	1.71 (0.16)	21 7/8" (556)	11 1/4" (286)	4.95 (0.46)	2.61 (0.24)	36 1/2" (928)	8.24 (0.77)
WU2042	2.02 (0.19)	21 7/8" (556)	13 1/4" (337)	5.50 (0.51)	2.91 (0.27)	32 1/2" (826)	8.96 (0.83)
WU2046	2.32 (0.22)	21 7/8" (556)	15 1/4" (388)	6.04 (0.56)	3.22 (0.30)	28 1/2" (724)	9.67 (0.90)
WU20410	2.62 (0.24)	21 7/8" (556)	17 1/4" (438)	6.59 (0.61)	3.52 (0.33)	24 1/2" (623)	10.38 (0.96)
WU2052	2.93 (0.27)	21 7/8" (556)	19 1/4" (489)	7.13 (0.66)	3.83 (0.36)	20 1/2" (521)	11.09 (1.03)
WU2056	3.23 (0.30)	21 7/8" (556)	21 1/4" (540)	7.68 (0.71)	4.13 (0.38)	16 1/2" (420)	11.80 (1.10)
WU20510	3.54 (0.33)	21 7/8" (556)	23 1/4" (591)	8.22 (0.76)	4.44 (0.41)	12 1/2" (318)	12.51 (1.16)
WU2062	3.84 (0.36)	21 7/8" (556)	25 1/4" (642)	8.77 (0.81)	4.74 (0.44)	8 1/2" (216)	13.23 (1.23)
WU2446	2.21 (0.21)	25 7/8" (658)	12 1/4" (312)	7.12 (0.66)	3.64 (0.34)	28 1/2" (724)	10.99 (1.02)
WU24410	2.57 (0.24)	25 7/8" (658)	14 1/4" (363)	7.78 (0.72)	4.00 (0.37)	24 1/2" (623)	11.81 (1.10)
WU2452	2.93 (0.27)	25 7/8" (658)	16 1/4" (413)	8.44 (0.78)	4.36 (0.41)	20 1/2" (521)	12.63 (1.17)
WU2456E	3.29 (0.31)	25 7/8" (658)	18 1/4" (464)	9.09 (0.84)	4.72 (0.44)	16 1/2" (420)	13.46 (1.25)
WU24510	3.65 (0.34)	25 7/8" (658)	20 1/4" (515)	9.75 (0.91)	5.08 (0.47)	12 1/2" (318)	14.28 (1.33)
WU2462	4.01 (0.37)	25 7/8" (658)	22 1/4" (566)	10.40 (0.97)	5.44 (0.51)	8 1/2" (216)	15.10 (1.40)
WU26410	2.42 (0.23)	27 7/8" (708)	12 1/2" (318)	8.34 (0.78)	4.21 (0.39)	24 1/2" (623)	12.49 (1.16)
WU2652	2.81 (0.26)	27 7/8" (708)	14 1/2" (368)	9.06 (0.84)	4.59 (0.43)	20 1/2" (521)	13.37 (1.24)
WU2656	3.20 (0.30)	27 7/8" (708)	16 1/2" (419)	9.77 (0.91)	4.98 (0.46)	16 1/2" (420)	14.25 (1.32)
WU26510	3.58 (0.33)	27 7/8" (708)	18 1/2" (470)	10.48 (0.97)	5.37 (0.50)	12 1/2" (318)	15.13 (1.41)
WU2662	3.97 (0.37)	27 7/8" (708)	20 1/2" (521)	11.19 (1.04)	5.76 (0.53)	8 1/2" (216)	16.01 (1.49)
WU2852	2.59 (0.24)	29 7/8" (759)	12 1/2" (317)	9.65 (0.90)	4.80 (0.45)	20 1/2" (521)	14.08 (1.31)
WU2856	3.01 (0.28)	29 7/8" (759)	14 1/2" (368)	10.42 (0.97)	5.22 (0.48)	16 1/2" (420)	15.01 (1.40)
WU28510	3.42 (0.32)	29 7/8" (759)	16 1/2" (419)	11.19 (1.04)	5.63 (0.52)	12 1/2" (318)	15.95 (1.48)
WU2862	3.84 (0.36)	29 7/8" (759)	18 1/2" (470)	11.95 (1.11)	6.05 (0.56)	8 1/2" (216)	16.88 (1.57)
WU21042	3.13 (0.29)	31 7/8" (810)	14 1/8" (359)	8.35 (0.78)	4.31 (0.40)	32 1/2" (826)	12.52 (1.16)
WU21046	3.57 (0.33)	31 7/8" (810)	16 1/8" (409)	9.17 (0.85)	4.75 (0.44)	28 1/2" (724)	13.51 (1.26)
WU210410	4.01 (0.37)	31 7/8" (810)	18 1/8" (460)	10.00 (0.93)	5.19 (0.48)	24 1/2" (623)	14.50 (1.35)
WU21052	4.46 (0.41)	31 7/8" (810)	20 1/8" (511)	10.82 (1.01)	5.64 (0.52)	20 1/2" (521)	15.49 (1.44)
WU21056	4.90 (0.46)	31 7/8" (810)	22 1/8" (562)	11.64 (1.08)	6.08 (0.56)	16 1/2" (420)	16.48 (1.53)
WU210510	5.34 (0.50)	31 7/8" (810)	24 1/8" (613)	12.46 (1.16)	6.52 (0.61)	12 1/2" (318)	17.47 (1.62)
WU21062 ◊	5.78 (0.54)	31 7/8" (810)	26 1/8" (663)	13.29 (1.23)	6.96 (0.65)	8 1/2" (216)	18.46 (1.72)
WU3042	3.13 (0.29)	33 7/8" (861)	13 5/16" (338)	8.86 (0.82)	4.51 (0.42)	32 1/2" (826)	13.15 (1.22)
WU3046	3.60 (0.34)	33 7/8" (861)	15 5/16" (389)	9.73 (0.90)	4.98 (0.46)	28 1/2" (724)	14.20 (1.32)
WU30410	4.07 (0.38)	33 7/8" (861)	17 5/16" (440)	10.61 (0.99)	5.46 (0.51)	24 1/2" (623)	15.24 (1.42)
WU3052	4.54 (0.42)	33 7/8" (861)	19 5/16" (490)	11.49 (1.07)	5.93 (0.55)	20 1/2" (521)	16.29 (1.51)
WU3056	5.02 (0.47)	33 7/8" (861)	21 5/16" (541)	12.37 (1.15)	6.40 (0.59)	16 1/2" (420)	17.33 (1.61)
WU30510	5.49 (0.51)	33 7/8" (861)	23 5/16" (592)	13.25 (1.23)	6.87 (0.64)	12 1/2" (318)	18.38 (1.71)
WU3062 ◊	5.96 (0.55)	33 7/8" (861)	25 5/16" (643)	14.13 (1.31)	7.34 (0.68)	8 1/2" (216)	19.42 (1.80)
WU34410	4.09 (0.38)	37 7/8" (962)	15 1/2" (395)	11.81 (1.10)	5.95 (0.55)	24 1/2" (623)	16.69 (1.55)
WU3452	4.61 (0.43)	37 7/8" (962)	17 1/2" (445)	12.80 (1.19)	6.47 (0.60)	20 1/2" (521)	17.85 (1.66)
WU3456	5.14 (0.48)	37 7/8" (962)	19 1/2" (496)	13.79 (1.28)	7.00 (0.65)	16 1/2" (420)	19.01 (1.77)
WU34510	5.67 (0.53)	37 7/8" (962)	21 1/2" (547)	14.78 (1.37)	7.53 (0.70)	12 1/2" (318)	20.16 (1.87)
WU3462	6.19 (0.58)	37 7/8" (962)	23 1/2" (598)	15.77 (1.47)	8.05 (0.75)	8 1/2" (216)	21.32 (1.98)
WU3852	4.52 (0.42)	41 7/8" (1064)	15 1/2" (394)	14.06 (1.31)	6.97 (0.65)	20 1/2" (521)	19.36 (1.80)
WU3856	5.10 (0.47)	41 7/8" (1064)	17 1/2" (445)	15.16 (1.41)	7.55 (0.70)	16 1/2" (420)	20.63 (1.92)
WU38510	5.68 (0.53)	41 7/8" (1064)	19 1/2" (496)	16.27 (1.51)	8.13 (0.76)	12 1/2" (318)	21.90 (2.03)
WU3862	6.26 (0.58)	41 7/8" (1064)	21 1/2" (547)	17.37 (1.61)	8.71 (0.81)	8 1/2" (216)	23.16 (2.15)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

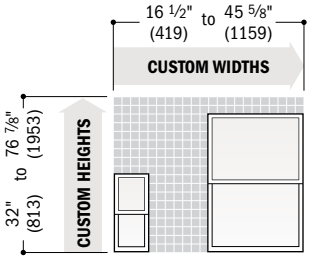
WOODWRIGHT® DOUBLE-HUNG FULL-FRAME WINDOWS

Custom Sizes

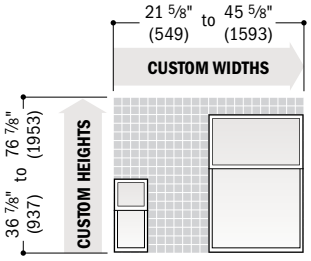
Available in 1/8" (3) increments between minimum and maximum widths and heights. Windows can also be custom sized to match standard sizes ending in a sixteenth of an inch. Some restrictions apply; contact your Andersen supplier. Measurement guide for custom-size windows can be found at **andersenwindows.com/measure**.

Woodwright® Double-Hung Windows

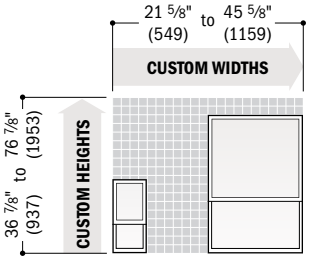
Equal



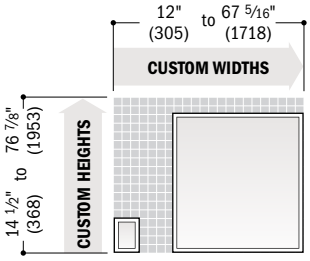
2:3 Cottage

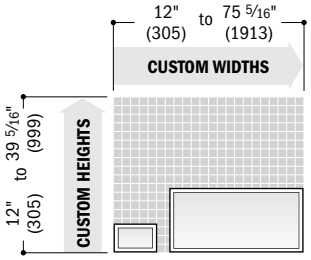


3:2 Reverse Cottage

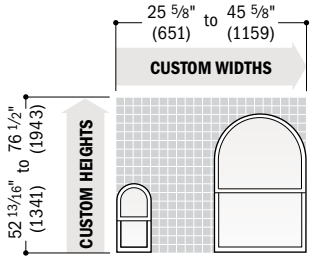


Woodwright® Picture and Transom Windows



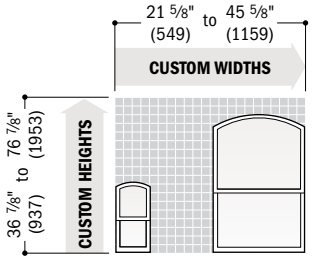


Woodwright® Springline™ Single-Hung Windows



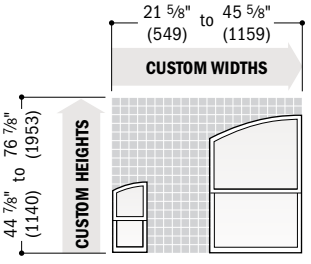
Side-by-side joining of two Springline windows is not recommended.

Woodwright® Arch Double-Hung Windows



Side-by-side joining of two arch windows is not recommended.

Woodwright® Unequal Leg Arch Double-Hung Windows



Short side joining of unequal leg arch windows is not recommended.

• Dimensions in parentheses are in millimeters.

Grille Patterns

	Prairie A	6-Light Prairie	Colonial	Renaissance
Woodwright® Double-Hung	Equal, Cottage	Equal, Cottage	Equal, Cottage	
Woodwright Arch Double-Hung				

	Prairie A	6-Light Prairie	Colonial	Renaissance
Woodwright Unequal Leg Arch Double-Hung				
Woodwright Springline™ Single-Hung				

	Prairie A	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail	Victorian
Woodwright Picture									
Woodwright Transom									

Specified Equal Light Examples

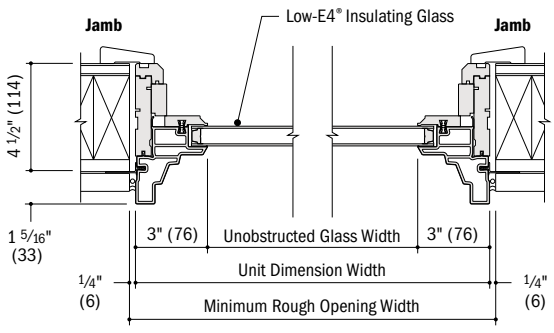
Custom Pattern Examples

Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.

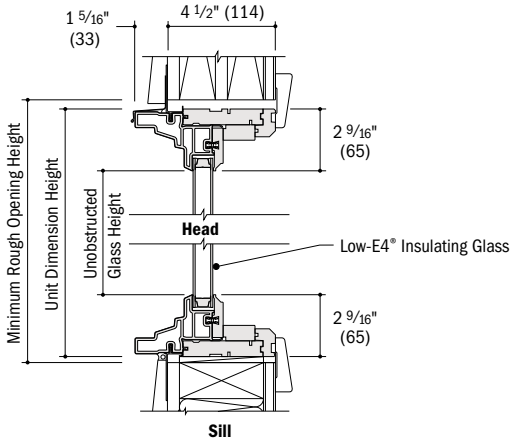
Patterns for double- and single-hung windows are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double- or single-hung window patterns, identify the sash style (equal, cottage or reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns not available in all configurations.**

Woodwright® Transom Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

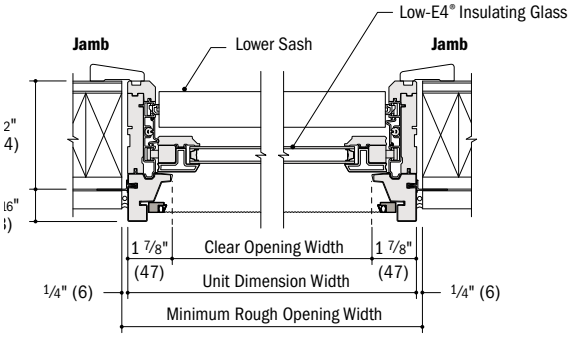


Vertical Section

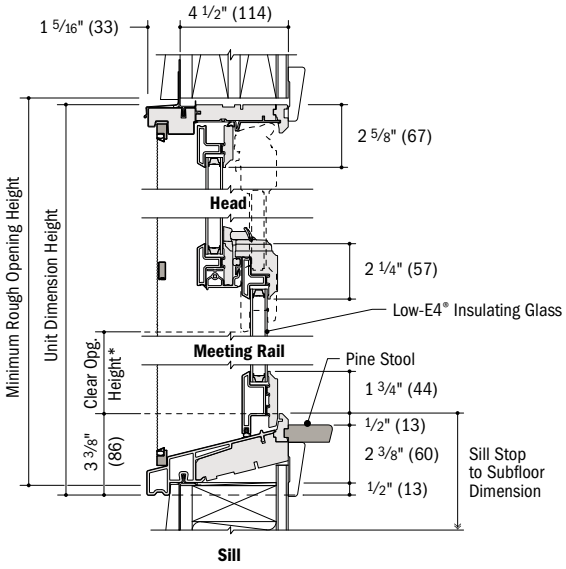
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Woodwright® Double-Hung Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



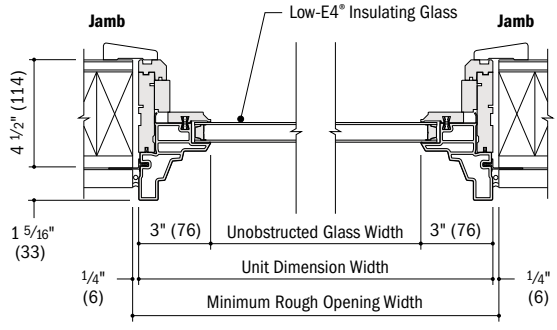
Horizontal Section



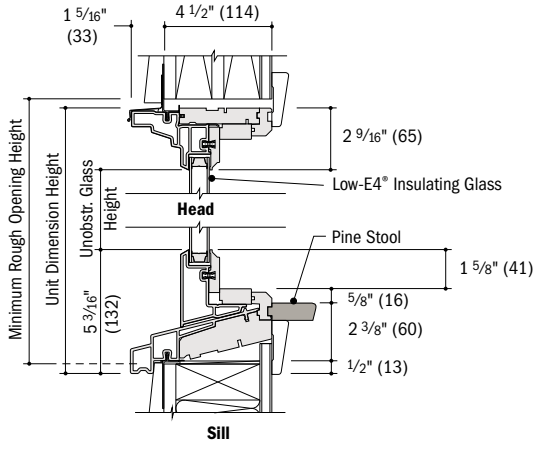
Vertical Section

Woodwright® Picture Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section



Vertical Section

• Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
• Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.
• 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.
*Clear opening height dimension is less on arch, unequal leg arch and Springline™ hung windows.

Horizontal (stack) Joining Detail

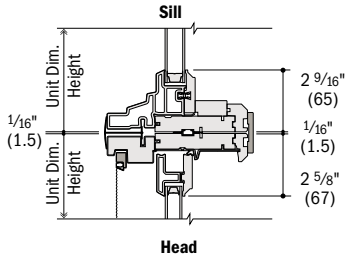
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Height

Sum of individual window heights plus 1/16" (1.5) for each join.

Overall Rough Opening Height

Overall window dimension height.*



Vertical Section

Woodwright® Transom (**WTR**) over Woodwright Double-Hung

Vertical (ribbon) Joining Detail

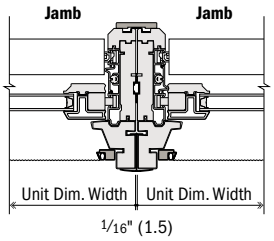
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Width

Sum of individual window widths plus 1/16" (1.5) for each join.

Overall Rough Opening Width

Overall window dimension width plus 1/2" (13).



Horizontal Section

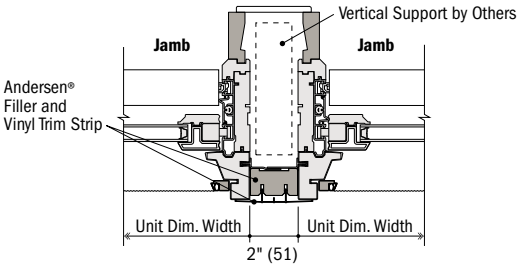
Woodwright® Double-Hung to Woodwright Double-Hung

For more joining information, see the combination designs section starting on page 181.

Separate Rough Openings Detail

Scale 1½" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Horizontal Section

Woodwright® Double-Hung and Woodwright Double-Hung

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.

*For stacks where bottom unit in combination is a double-hung or picture window with a sloped sill. If bottom window has a flat sill, add 1/2" (13) to the overall window dimension height.

NOTES

WOODWRIGHT® DOUBLE-HUNG INSERT WINDOWS

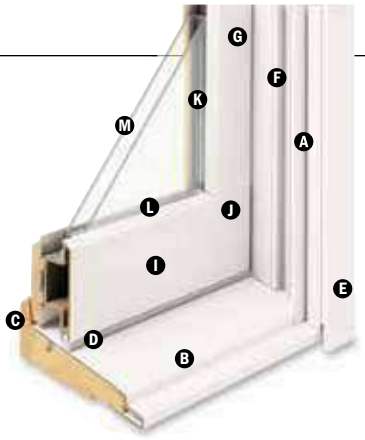
CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

WOODWRIGHT® DOUBLE-HUNG INSERT WINDOWS

FEATURES



FRAME

A A Fibrex® material exterior protects the frame – beautifully. Best of all, it's low maintenance and never needs painting*.

B For exceptional long-lasting* performance, sill members are constructed with a wood core and a Fibrex material exterior.

C Natural wood stops are available in pine, maple, oak and prefinished white. Wood jamb liners add beauty and authenticity to the window interior.

D Multiple weatherstrip systems help provide a barrier against wind, rain and dust. The combination of spring-tension vinyl, rigid vinyl and flexible bulb weatherstrip is efficient and effective.

E Exterior stop covers are specially designed to allow easy application of high-quality sealant.

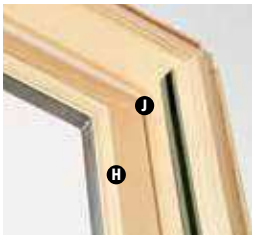
3 ¼" (83) "pocket window" jamb depth allows convenient replacement without disturbing interior window trim for most double-hung replacement situations.

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

SASH

G Balancers in the sash enable contractors to screw through the jamb during installation without interfering with the window's operation.

Wood Jamb Liner



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

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

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

GLASS

K In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

L Silicone bed glazing provides superior weathertightness and durability.

M High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

HARDWARE

Standard lock and keeper design provides an easy tilt-to-clean feature integrated into the lock.

SILL ANGLES

Three sill angles are available – 0,° 8° and 14° – to closely match the existing sill in window replacement applications. See page 71 for details.

0° Sill Angle

8° Sill Angle

14° Sill Angle

Sill Angle Finder App

Our Sill Angle Finder App lets you quickly and easily find the sill angle of existing double-hung windows. Available for free for both iPhone® and Android™ smartphones. Download the app for iPhone from the App Store℠ or for Android smartphones from the Google Play Store. The app is only available for smartphones, as tablets and other large devices are too bulky for measuring window sill angles.

INSTALLATION

Exterior Stop Cover

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

Included Installation Materials

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

SASH OPTIONS**

Cottage

Reverse Cottage

*Visit andersenwindows.com/warranty for details.
**Shown on 400 Series tilt-wash double-hung full-frame windows.
"iPhone" and "App Store" are registered trademarks of Apple Inc. "Android" is a trademark of Google Inc.
Dimensions in parentheses are in millimeters.

EXTERIOR & INTERIOR OPTIONS

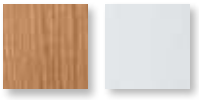
EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | Maple



Oak | White

HARDWARE

Standard Lock & Keeper

Antique Brass | **Black** | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Gold Dust
Oil Rubbed Bronze | Polished Chrome
Satin Nickel | Stone | White

OPTIONAL HARDWARE Sold Separately

CONTEMPORARY

Bar Lift

Available in all hardware finishes.
Shown in **Distressed Nickel**.

ESTATE™

Hand Lift | Finger Lifts

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

TRADITIONAL

Bar Lift | Hand Lift | Finger Lifts

Antique Brass | Black | Bright Brass | Brushed Chrome
Distressed Bronze | Distressed Nickel | Gold Dust | **Oil Rubbed Bronze**
Polished Chrome | Satin Nickel | Stone | White

CLASSIC SERIES™

Bar Lift | Hand Lift | Finger Lifts

Stone | **White**

Bold name denotes finish shown.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

ACCESSORIES Sold Separately

FRAME

Wood Interior Stop

Optional interior stop with matching chamfer is available.

SASH

Window Opening Control Device

A window opening control device is available, which limits sash travel to less than 4" (102) when the window is first opened. Available factory applied, or as a field-applied kit in stone or white.

INSTALLATION

Coil Stock

Andersen® aluminum coil stock can be ordered to match any of our 11 trim colors. Made from .018" thick aluminum, Andersen coil stock is available in 24" (610) x 50' (15240) rolls. Color-matched 1 ¼" (32)-long stainless steel trim nails are also available and can be ordered in 1 lb/.454 kg 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 Screens

Andersen TruScene insect screens let in over 25% more fresh air* and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

Conventional Insect Screens

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 72.

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-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.

Dimensions in parentheses are in millimeters.

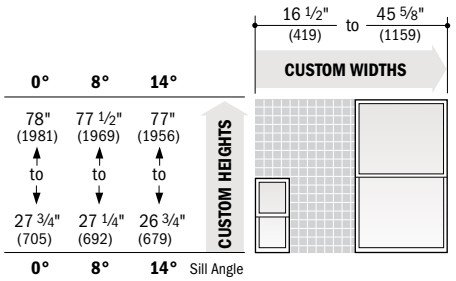
Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

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

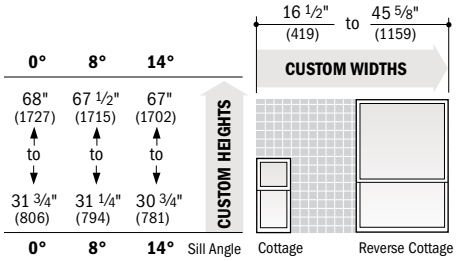
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

Woodwright® Double-Hung, Picture and Transom Insert Window Sizes

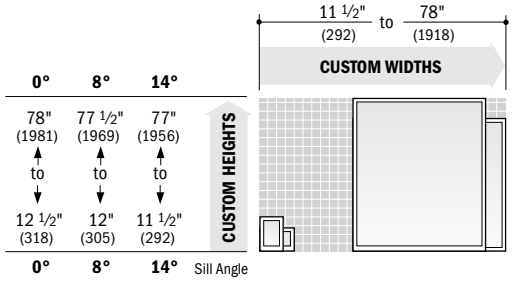
Double-Hung Equal Sash Ratio



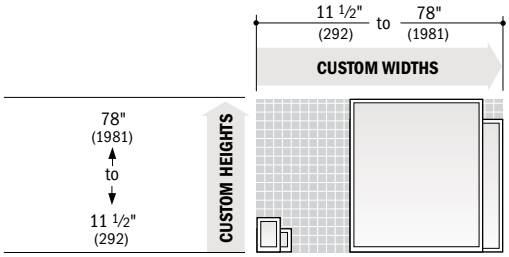
Double-Hung 2:3 Cottage and 3:2 Reverse Cottage Sash Ratio



Picture

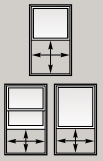


Transom



Woodwright® Double-Hung Insert Window Specification Formulas

Clear Opening

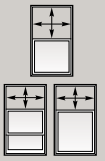


Width = window width − 3.4375" (87)

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

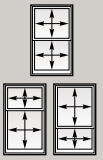


Width = window width − 3.4375" (87)

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) Equal, **Height** > 48" (1219)	= ((window height ÷ 2) − sill angle deduction) − 6.5" (165) = ((window height ÷ 2) − sill angle deduction) − 11.5" (292)	2.75" (70)	2.9375" (75)	3.25" (83)
Cottage, **Height** < 48" (1219) Cottage, **Height** > 48" (1219)	= ((window height x 2) ÷ 5 − sill angle deduction) − 6.5" (165) = ((window height x 2) ÷ 5 − sill angle deduction) − 11.5" (292)	1.9375" (49)	2.125" (54)	2.375" (60)
Reverse Cottage, **Height** < 48" (1219) Reverse Cottage, **Height** > 48" (1219)	= ((window height x 2) ÷ 5 − sill angle deduction) − 6.5" (165) = ((window height x 2) ÷ 5 − sill angle deduction) − 11.5" (292)	3.5625" (90)	3.8125" (97)	4.8125" (122)

Unobst. Glass



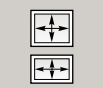
Width = window width − 6.0" (152)

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 ÷ 2) − 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

Unobst. 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)

Transom Insert

Width = window width − 6.0" (152)

Height = window width − 6.0" (152)

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).

Measurement guide for custom-sized windows can be found at **andersenwindows.com/measure**. Grille patterns shown on page 72.

- 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. **Unobst. 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.

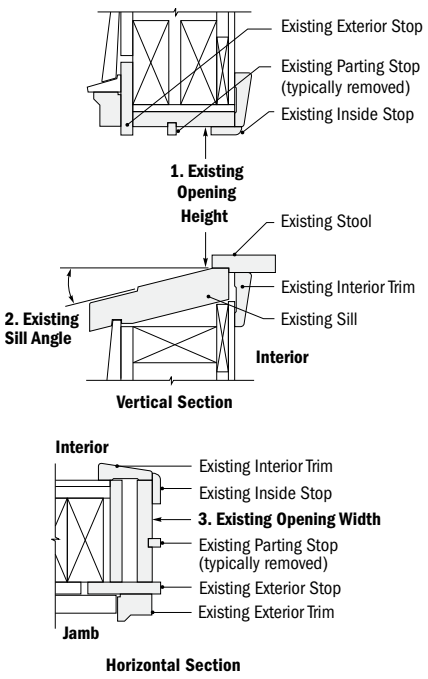
Existing Window Measurements

Required measurements:

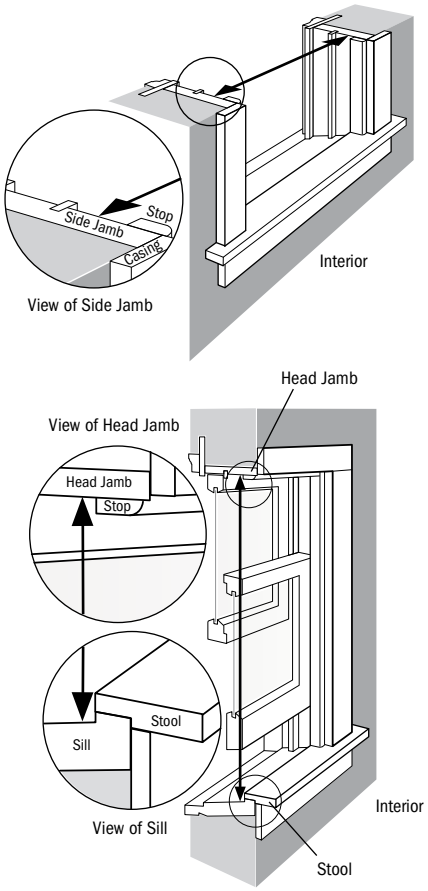
1. Existing Opening Height

2. Existing Sill Angle

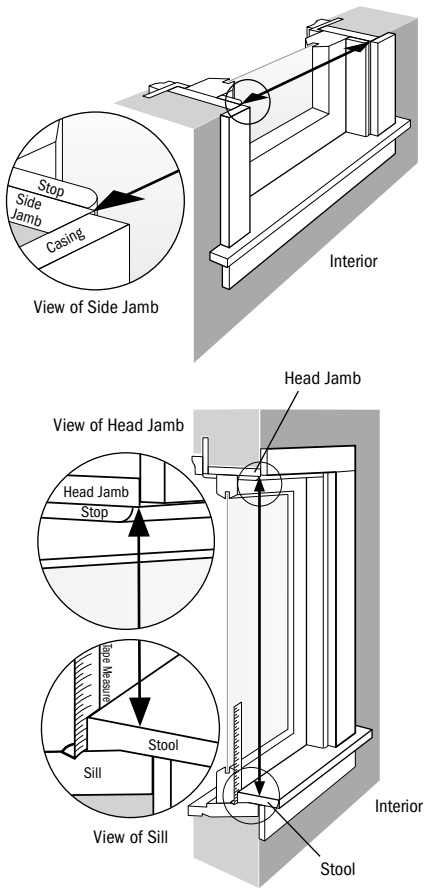
3. Existing Opening Width



Existing Double-Hung Window



Existing Picture Window



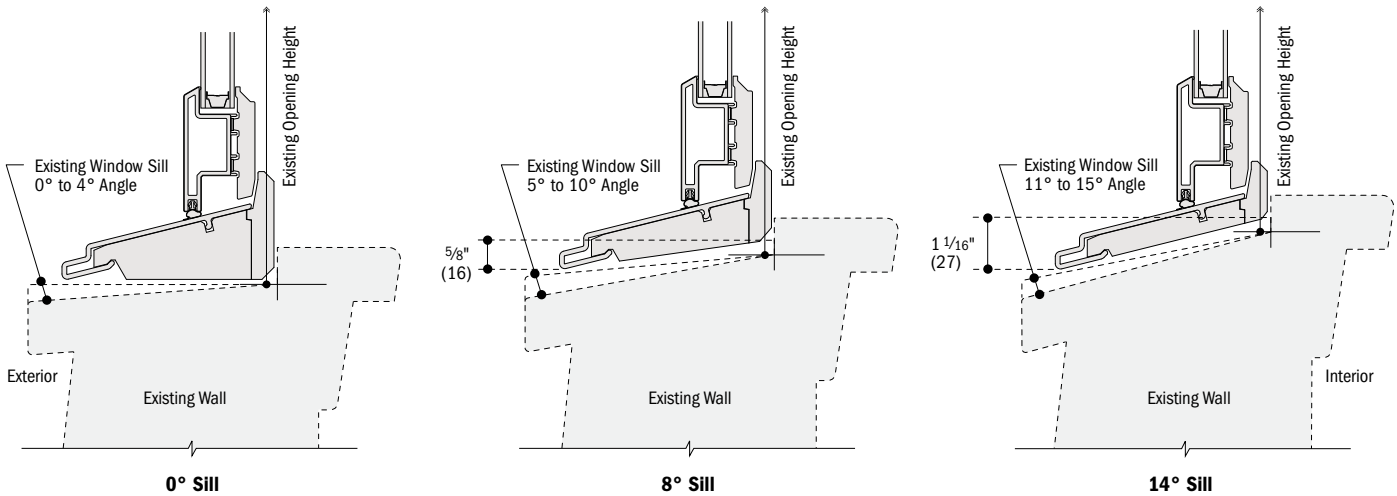
Sill Angle Details

Scale 3" (76) = 1'-0" (305) – 1:4

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

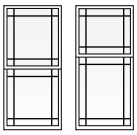
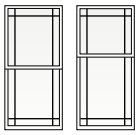
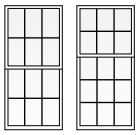
Windows with a smaller sill angle will have a larger maximum height.

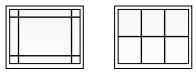
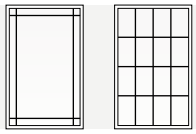
A “Sill Angle Finder App” is available; see page 68.



- 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.

Grille Patterns

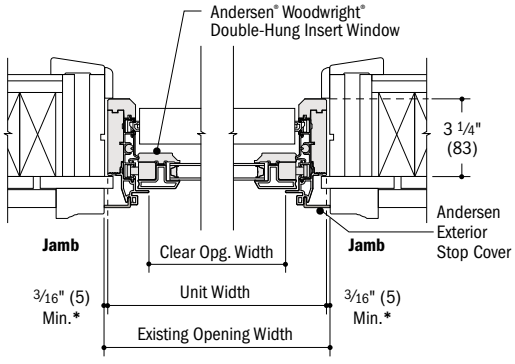
	Prairie A		6-Light Prairie		Specified Equal Light	
Woodwright® Double-Hung Insert						
	Equal	Cottage	Equal	Cottage	Equal	Cottage

	Prairie A	Specified Equal Light
Woodwright Transom Insert		
Woodwright Picture Insert		

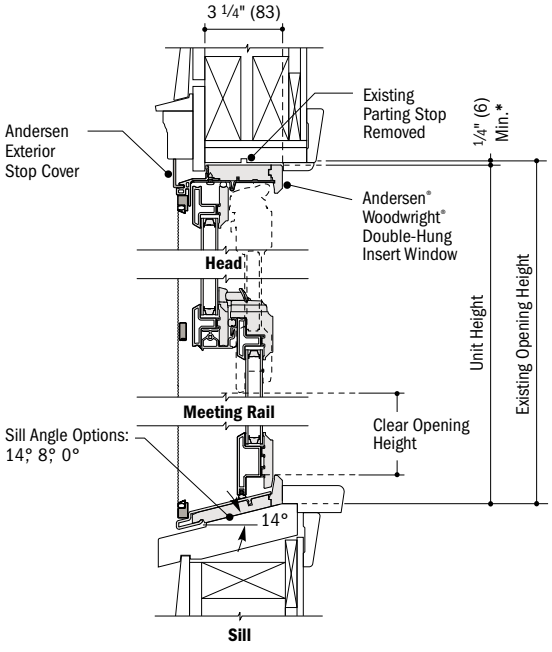
Patterns for double-hung windows are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double-hung window patterns, identify the sash style (equal, cottage or reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns not available in all configurations.** For more grille options, see page 14 or visit **andersenwindows.com/grilles**.

Woodwright® Double-Hung Insert Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section



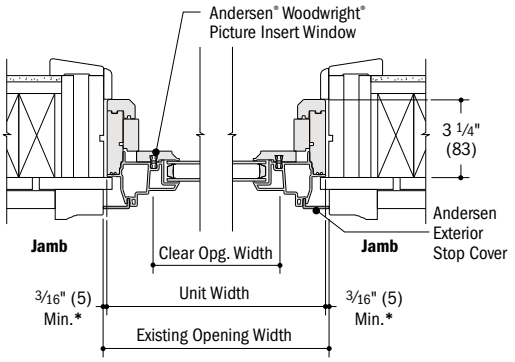
Vertical Section

- 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.

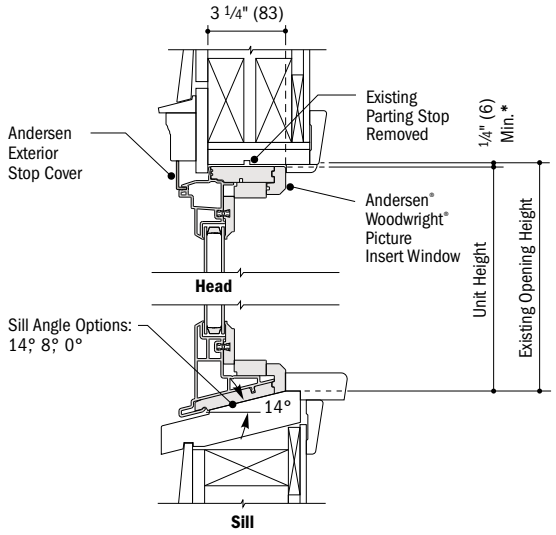
*Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for insert windows.

Woodwright® Picture Insert Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



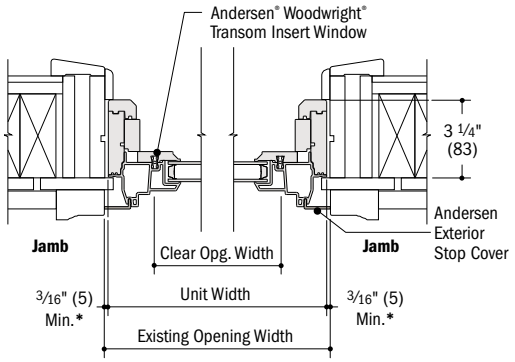
Horizontal Section



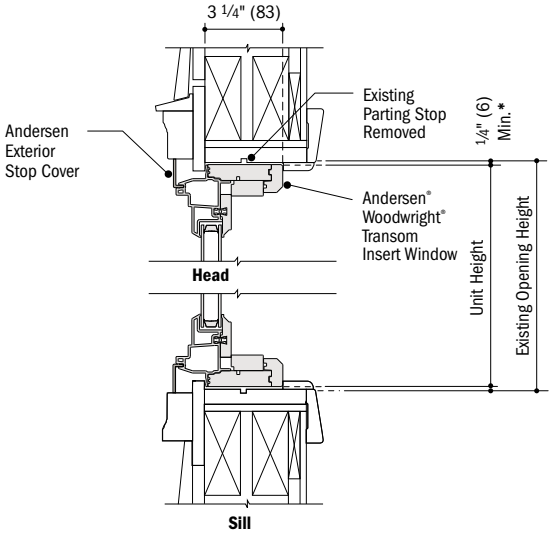
Vertical Section

Woodwright® Transom Insert Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

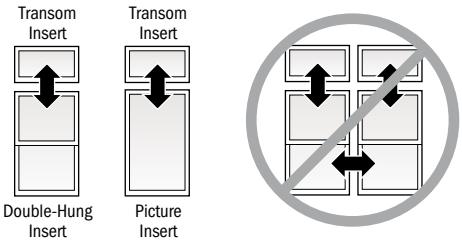


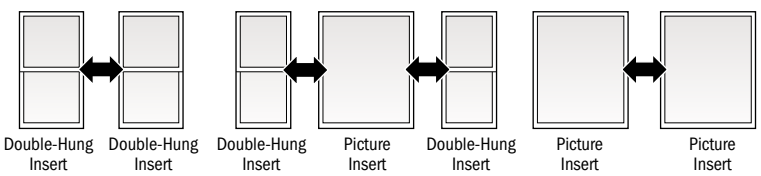
Vertical Section

Joining Combinations

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

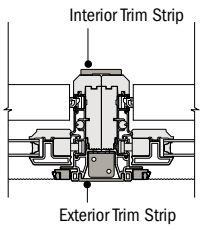
Do not join insert windows in two-way combinations.





Vertical (ribbon) Joining Detail

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

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

For more joining information, see the combination designs section starting on page 181.

- 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.

NOTES

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

FEATURES

FRAME

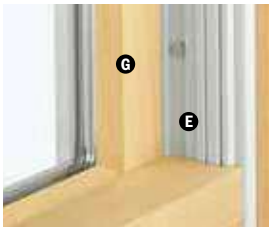
Ⓐ Exterior outer frame members are covered with a Perma-Shield® rigid vinyl cladding, minimizing maintenance and providing an attractive appearance.

Ⓑ For exceptional long-lasting* performance, sill members are constructed with a wood core and a Fibrex® material exterior. Sill ends are protected and sealed with weather-resistant covers.

Ⓒ Natural wood stops are available in pine, and prefinished white, dark bronze and black.**

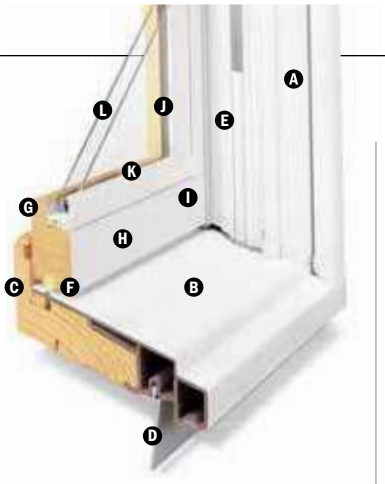
Ⓓ A factory-applied rigid vinyl anchoring flange on the head, sill and sides of the outer frame helps secure the unit to the structure.

Ⓔ An extruded rigid vinyl jamb liner and fin provide a protective seal against the outer frame members. Exclusive slide wash assists make it easy to tilt the sash into wash mode position.



Unique block-and-tackle balancers feature sized-to-the-unit, rust-resistant springs that require no adjustment. Glass-reinforced nylon balancer shoes provide smooth, reliable sash operation. Sash can be removed, without tools, for drywall pass-through. Jamb liners are available in white or gray, and must be specified when ordering. Contact your Andersen supplier for details.

Ⓕ Weatherstrip throughout the unit provides a long-lasting,* energy-efficient, weather-resistant seal. For the top and bottom rails, an encased foam material is used. The head jamb liner and sill have a rigid vinyl rib that the weatherstrip material compresses against. At the meeting rail, compressible vinyl bulb material is used. Side jamb liners use leaf-type weatherstrip with foam inserts.



SASH

Wash assists make it easy to tilt the sash into wash mode.

Ⓖ Wood sash members are treated with a water-repellent preservative for long-lasting* protection and performance. Interior surfaces are unfinished pine. Low-maintenance prefinished white interiors are also available.

Ⓗ A polyester-stabilized coat with a Flexacron® finish is electrostatically applied to penetrate all exterior surfaces for maximum protection and a lustrous finish.

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

GLASS

Ⓙ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓚ Silicone bed glazing provides superior weathertightness and durability.

Ⓛ High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

*Visit andersenwindows.com/warranty for details.

**Products with dark bronze and black interiors have matching exteriors.

"Flexacron" is a registered trademark of PPG Industries, Inc.

Dimensions in parentheses are in millimeters.

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

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

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

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | White

Dark Bronze** | Black**

HARDWARE

Standard Lock & Keeper

Black | Gold Dust | **Stone** | White

Stone is standard with natural interior units. White comes with prefinished white interiors. Other finishes optional.

OPTIONAL HARDWARE Sold Separately

ESTATE™

Lock & Keeper

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

Optional Estate lock and keeper reduces the clear opening height by 9/16" (14). Check with local building code officials to determine compliance with egress requirements.

CONTEMPORARY

Bar Lift

Antique Brass | Black | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Gold Dust
Oil Rubbed Bronze | Polished Chrome
Satin Nickel | Stone | White

TRADITIONAL

Bar Lift

Hand Lift

Finger Lifts

Antique Brass | Black | Bright Brass | Brushed Chrome
Distressed Bronze | Distressed Nickel | Gold Dust | **Oil Rubbed Bronze**
Polished Chrome | Satin Nickel | Stone | White

Bold name denotes finish shown.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

StormWATCH PROTECTION

400 Series tilt-wash double-hung full-frame windows are available with Stormwatch® Protection. Visit **andersenwindows.com/coastal** for more details.

Performance Grade (PG) Upgrades

A high inside sill stop* with exterior sill brackets and hidden interior brackets is available to provide additional structural support for tilt-wash windows, allowing standard, non-impact glass units to achieve higher performance grade ratings. Performance Grade (PG) ratings are more comprehensive than Design Pressure (DP) ratings for measuring product performance. For up-to-date performance information of individual products, please visit **andersenwindows.com**. Use of this option will subtract 5/8" (15) from the clear opening height. PG Upgrade not available for 72" (1829) and 76" (1930) heights. Contact your Andersen supplier for availability.

SASH OPTIONS

Cottage

Reverse Cottage

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Standard jamb depth is 4 1/2" (114). Extension jambs are available in unfinished pine or prefinished white. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/16" (1.5) increments between 5 1/4" (133) and 7 1/8" (181). Extension jambs can be factory applied to either three sides (stool and apron application) or four sides (picture frame casing).

Pine Stool

A clear pine stool is available and ready for finishing. The tilt-wash stool is available in 4 9/16" (116) for use in wall depths up to 5 1/4" (133), and 6 9/16" (167) for use in wall depths up to 7 1/8" (181). Works with 2 1/4" (57) and 2 1/2" (64) casing widths.

HARDWARE

Window Opening Control Device

A recessed window opening control device is available factory applied. It limits the sash travel to less than 4" (102) when the window is first opened. Available in white, stone and black. A field-applied window opening control device kit is also available.

STORM/INSECT SCREEN COMBINATION UNIT**

A self-storing storm window combined with an insect screen provides greater energy efficiency, while allowing ventilation when needed.

Constructed with an aluminum frame, single-pane upper and lower glass panels, and charcoal powder-coated aluminum screen mesh. Available in white, Sandtone and Terratone to match product exteriors. Canvas, dark bronze, forest green and black are available by special order.

Combination units can improve Sound Transmission Class (STC) and Outdoor Indoor Transmission Class (OITC) ratings. Ideal for projects near airports, busy roadways or other noisy environments. For example, adding a combination unit to a 400 Series tilt-wash double-hung (3862) unit with Low-E4® glass will improve its STC rating from 26 to 32. Contact your Andersen supplier for additional STC and OITC rating information.

GLASS

Andersen® Art Glass

Available for 400 Series tilt-wash transom and picture units. Andersen art glass panels come in a variety of original patterns. See art glass section starting on page 173 for more information or visit **andersenwindows.com/artglass**.

INSECT SCREENS

Insect Screen Frames

Full and half insect screens are available for most unit sizes. Frame colors match product exteriors. Half insect screen (shown above) allows ventilation without affecting the view through the upper sash. Not available on windows with Stormwatch Protection.

TruScene® Insect Screens

Andersen TruScene insect screens let in over 25% more fresh air† and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

Conventional Insect Screens

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 85.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

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-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Infringes on the overall net clear opening. Unit clear operable area may not meet egress requirements. See your local building code official for more information.

**Do not add combination units to windows with Low-E4 Sun glass unless window glass is tempered. Combination units may also reduce the overall clear operable area of the window. See your local code official for egress requirements in your area.

†TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.

Dimensions in parentheses are in millimeters.

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

Table of Tilt-Wash Double-Hung Window Sizes

Scale 1⁄8" (3) = 1'-0" (305) — 1:96

Window Dimension	1'-9 5⁄8" (549)	2'-1 5⁄8" (651)	2'-5 5⁄8" (752)	2'-7 5⁄8" (803)	2'-9 5⁄8" (854)	2'-11 5⁄8" (905)	3'-1 5⁄8" (956)	3'-5 5⁄8" (1057)	3'-9 5⁄8" (1159)
Minimum Rough Opening	1'-10 1⁄8" (562)	2'-2 1⁄8" (664)	2'-6 1⁄8" (765)	2'-8 1⁄8" (816)	2'-10 1⁄8" (867)	3'-0 1⁄8" (917)	3'-2 1⁄8" (968)	3'-6 1⁄8" (1070)	3'-10 1⁄8" (1172)
Unobstructed Glass (lower sash only)	15" (381)	19" (483)	23" (584)	25" (635)	27" (686)	29" (737)	31" (787)	35" (889)	39" (991)

CUSTOM WIDTHS — 21 5⁄8" to 45 5⁄8"

CUSTOM HEIGHTS — 36 7⁄8" to 92 7⁄8"

3'-0 7⁄8" (937) × 3'-0 7⁄8" (937) / 13 15⁄16" (354)	TW18210	TW20210	TW24210	TW26210	TW28210	TW210210	TW30210	TW34210	TW38210
3'-4 7⁄8" (1038) × 3'-4 7⁄8" (1038) / 15 15⁄16" (405)	TW1832	TW2032	TW2432	TW2632	TW2832	TW21032	TW3032	TW3432	TW3832
3'-8 7⁄8" (1140) × 3'-8 7⁄8" (1140) / 17 15⁄16" (456)	TW1836	TW2036	TW2436	TW2636	TW2836	TW21036	TW3036	TW3436	TW3836
4'-0 7⁄8" (1241) × 4'-0 7⁄8" (1241) / 19 7⁄16" (495)	TW18310	TW20310	TW24310	TW26310	TW28310	TW210310	TW30310	TW34310	TW38310
4'-4 7⁄8" (1343) × 4'-4 7⁄8" (1343) / 21 15⁄16" (557)	TW1842	TW2042	TW2442	TW2642	TW2842	TW21042	TW3042	TW3442	TW3842
4'-8 7⁄8" (1445) × 4'-8 7⁄8" (1445) / 23 7⁄16" (596)	TW1846	TW2046	TW2446	TW2646	TW2846	TW21046	TW3046◊	TW3446◊	TW3846◊
5'-0 7⁄8" (1546) × 5'-0 7⁄8" (1546) / 25 15⁄16" (659)	TW18410	TW20410	TW24410	TW26410	TW28410	TW210410◊	TW30410◊	TW34410◊	TW38410◊
5'-4 7⁄8" (1648) × 5'-4 7⁄8" (1648) / 27 15⁄16" (710)	TW1852	TW2052	TW2452	TW2652	TW2852◊	TW21052◊	TW3052◊	TW3452◊	TW3852◊
5'-8 7⁄8" (1749) × 5'-8 7⁄8" (1749) / 29 15⁄16" (760)	TW1856	TW2056	TW2456	TW2656◊	TW2856◊	TW21056◊	TW3056◊	TW3456◊	TW3856◊
6'-0 7⁄8" (1851) × 6'-0 7⁄8" (1851) / 31 15⁄16" (811)	TW18510	TW20510	TW24510◊	TW26510◊	TW28510◊	TW210510◊	TW30510◊	TW34510◊	TW38510◊
6'-4 7⁄8" (1953) × 6'-4 7⁄8" (1953) / 33 15⁄16" (862)	TW1862	TW2062	TW2462◊	TW2662◊	TW2862◊	TW21062◊	TW3062◊	TW3462◊	TW3862◊

continued on next page

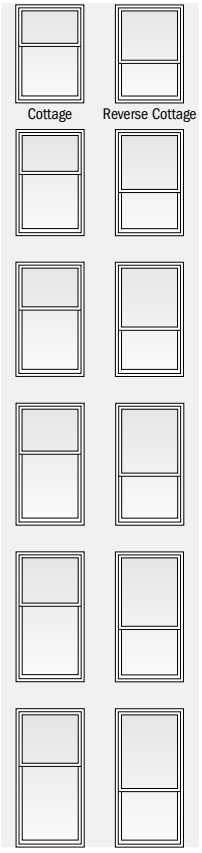
Custom-size windows are available in 1⁄8" (3) increments. See page 84 for custom sizing.

Grille patterns shown on page 85.

Cottage or reverse cottage sash ratio available for heights shown below in all widths.

CUSTOM WIDTHS — 21 5⁄8" to 45 5⁄8"

CUSTOM HEIGHTS — 48 7⁄8" to 76 7⁄8"



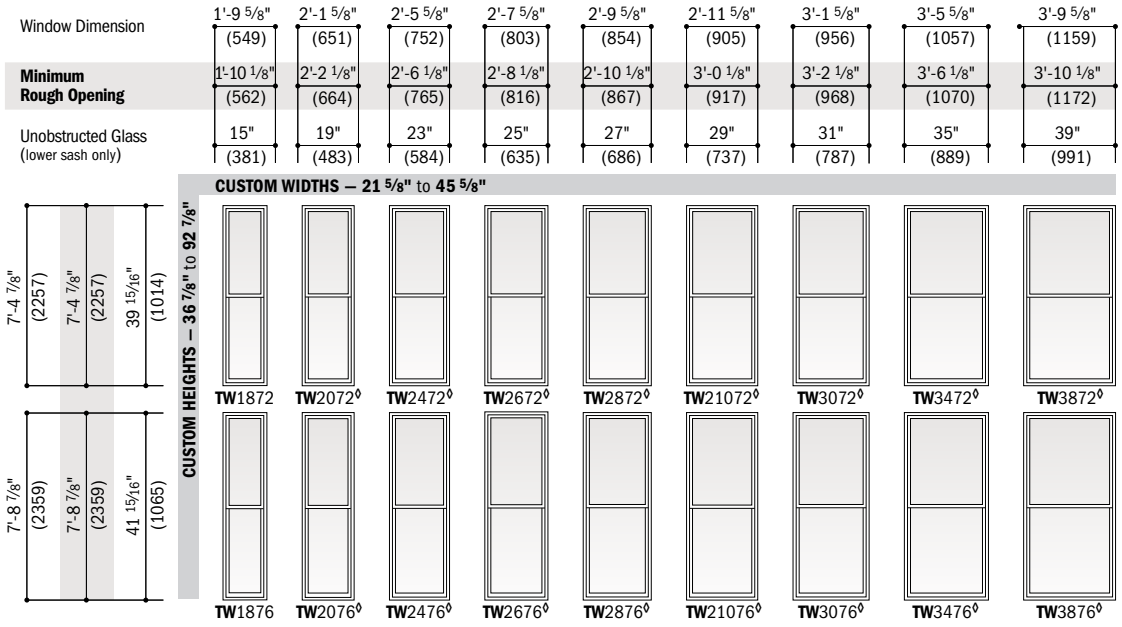
Size tables for windows with cottage or reverse cottage sash are available at **andersenwindows.com/sizing**.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See tables on pages 82-83.

Table of Tilt-Wash Double-Hung Window Sizes *(continued)*

Scale 1/8" (3) = 1'-0" (305) – 1:96



• "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See tables on pages 82-83.

Custom-size windows are available in 1/8" (3) increments. See page 84 for custom sizing.

Windows 7'-4 7/8" (2257) and 7'-8 7/8" (2359) high have interior and exterior brackets. Interior brackets, located on both sides of the meeting rail, must be flipped up for proper product performance. Andersen® reinforced joining materials must be used when vertically joining 7'-4 7/8" (2257) and 7'-8 7/8" (2359) height windows.

Grille patterns shown on page 85.

Tilt-Wash Transom Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
TWT1810	0.56	(0.05)	1.80	(0.17)
TWT1815	1.32	(0.12)	2.90	(0.27)
TWT1817	1.52	(0.14)	3.20	(0.30)
TWT18111	1.94	(0.18)	3.80	(0.35)
TWT1821	2.15	(0.20)	4.10	(0.38)
TWT1823	2.35	(0.22)	4.40	(0.41)
TWT1827	2.77	(0.26)	5.00	(0.47)
TWT1831	3.39	(0.32)	5.90	(0.55)
TWT2010	0.70	(0.07)	2.14	(0.20)
TWT2015	1.67	(0.16)	3.44	(0.32)
TWT2017	1.93	(0.18)	3.79	(0.35)
TWT20111	2.46	(0.23)	4.50	(0.42)
TWT2021	2.72	(0.25)	4.86	(0.45)
TWT2023	2.98	(0.28)	5.22	(0.49)
TWT2027	3.51	(0.33)	5.93	(0.55)
TWT2031	4.30	(0.40)	7.00	(0.65)
TWT2410	0.85	(0.08)	2.47	(0.23)
TWT2415	2.02	(0.19)	3.97	(0.37)
TWT2417	2.34	(0.22)	4.38	(0.41)
TWT24111	2.98	(0.28)	5.21	(0.48)
TWT2421	3.29	(0.31)	5.62	(0.52)
TWT2423	3.61	(0.34)	6.03	(0.56)
TWT2427	4.25	(0.40)	6.85	(0.64)
TWT2431	5.21	(0.48)	8.09	(0.75)
TWT2610	0.93	(0.09)	2.64	(0.25)
TWT2615	2.19	(0.20)	4.24	(0.39)
TWT2617	2.54	(0.24)	4.68	(0.44)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
TWT26111	3.23	(0.30)	5.56	(0.52)
TWT2621	3.58	(0.33)	6.00	(0.56)
TWT2623	3.93	(0.37)	6.44	(0.60)
TWT2627	4.62	(0.43)	7.32	(0.68)
TWT2631	5.66	(0.53)	8.63	(0.80)
TWT2810	1.00	(0.09)	2.80	(0.26)
TWT2815	2.37	(0.22)	4.51	(0.42)
TWT2817	2.74	(0.26)	4.98	(0.46)
TWT28111	3.49	(0.32)	5.91	(0.55)
TWT2821	3.87	(0.36)	6.38	(0.59)
TWT2823	4.24	(0.39)	6.84	(0.64)
TWT2827	4.99	(0.46)	7.78	(0.72)
TWT2831	6.12	(0.57)	9.18	(0.85)
TWT21010	1.07	(0.10)	2.97	(0.28)
TWT21015	2.55	(0.24)	4.78	(0.44)
TWT21017	2.95	(0.27)	5.27	(0.49)
TWT210111	3.75	(0.35)	6.26	(0.58)
TWT21021	4.15	(0.39)	6.76	(0.63)
TWT21023	4.56	(0.42)	7.25	(0.67)
TWT21027	5.36	(0.50)	8.24	(0.77)
TWT21031	6.57	(0.61)	9.73	(0.90)
TWT3010	1.15	(0.11)	3.14	(0.29)
TWT3015	2.72	(0.25)	5.05	(0.47)
TWT3017	3.15	(0.29)	5.57	(0.52)
TWT30111	4.01	(0.37)	6.61	(0.61)
TWT3021	4.44	(0.41)	7.14	(0.66)
TWT3023	4.87	(0.45)	7.66	(0.71)

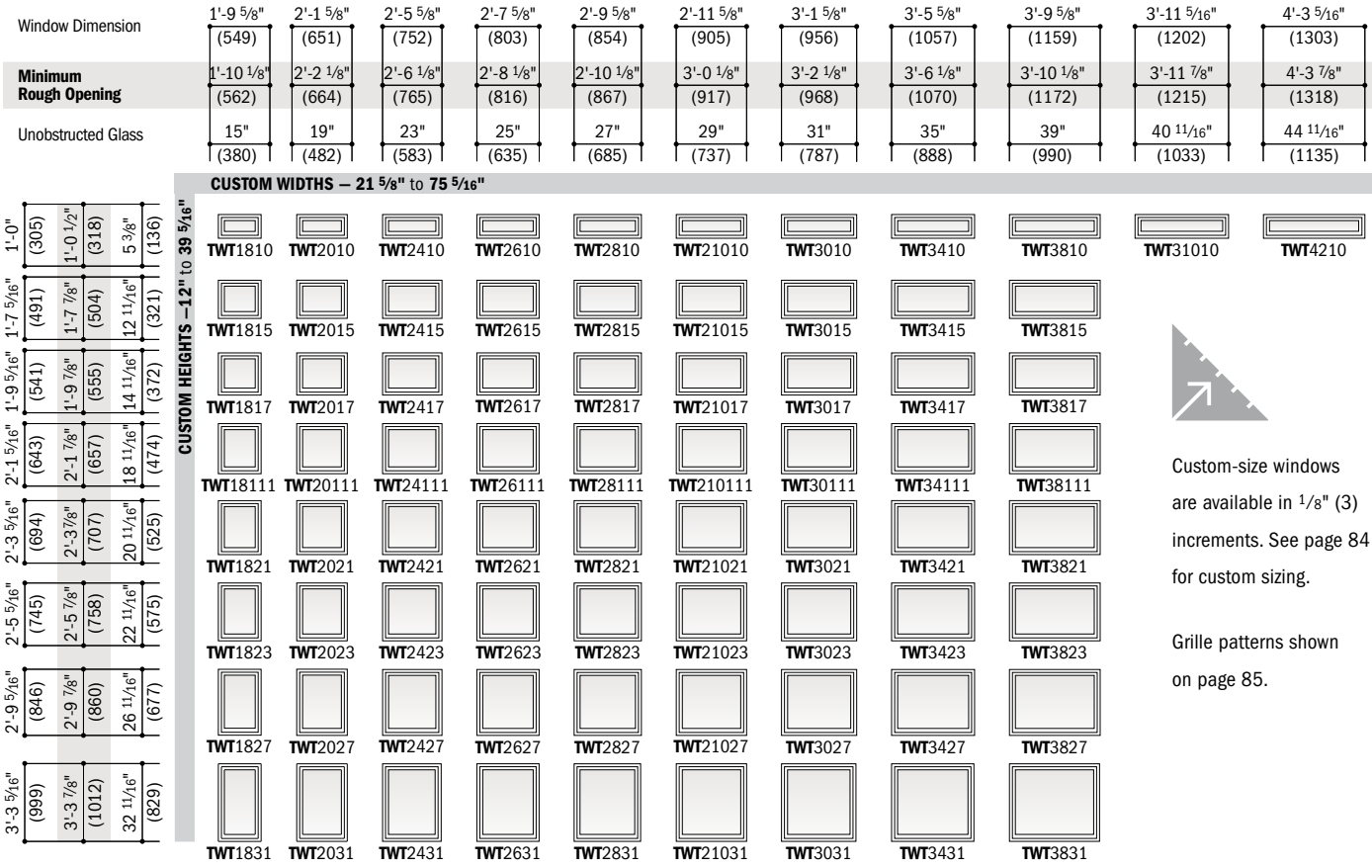
Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
TWT3027	5.73	(0.53)	8.70	(0.81)
TWT3031	7.02	(0.65)	10.27	(0.95)
TWT3410	1.30	(0.12)	3.47	(0.32)
TWT3415	3.07	(0.29)	5.58	(0.52)
TWT3417	3.56	(0.33)	6.16	(0.57)
TWT34111	4.53	(0.42)	7.32	(0.68)
TWT3421	5.02	(0.47)	7.89	(0.73)
TWT3423	5.50	(0.51)	8.47	(0.79)
TWT3427	6.47	(0.60)	9.63	(0.90)
TWT3431	7.93	(0.74)	11.36	(1.06)
TWT3810	1.45	(0.14)	3.80	(0.35)
TWT3815	3.42	(0.32)	6.12	(0.57)
TWT3817	3.97	(0.37)	6.75	(0.63)
TWT38111	5.05	(0.47)	8.02	(0.75)
TWT3821	5.59	(0.52)	8.65	(0.80)
TWT3823	6.13	(0.57)	9.29	(0.86)
TWT3827	7.21	(0.67)	10.55	(0.98)
TWT3831	8.84	(0.82)	12.46	(1.16)
TWT31010	1.51	(0.14)	3.94	(0.37)
TWT4210	1.66	(0.15)	4.28	(0.40)
TWT41010	1.95	(0.18)	4.94	(0.46)
TWT5610	2.25	(0.21)	5.61	(0.52)
TWT6210	2.55	(0.24)	6.28	(0.58)

• Dimensions in parentheses are in square meters.

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

Table of Tilt-Wash Transom Window Sizes

Scale 1/8" = 1'-0" (1:96)



Custom-size windows are available in 1/8" (3) increments. See page 84 for custom sizing.

Grille patterns shown on page 85.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Tilt-Wash Picture Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
DHP10310	2.03	(0.19)	4.07	(0.38)
DHP1042	2.22	(0.21)	4.41	(0.41)
DHP1046	2.42	(0.23)	4.74	(0.44)
DHP10410	2.61	(0.24)	5.07	(0.47)
DHP1052	2.81	(0.26)	5.41	(0.50)
DHP1056	3.01	(0.28)	5.74	(0.53)
DHP10510	3.20	(0.30)	6.07	(0.56)
DHP1062	3.40	(0.32)	6.41	(0.60)
DHP30310	9.38	(0.87)	12.77	(1.19)
DHP3042	10.29	(0.96)	13.82	(1.28)
DHP3046	11.19	(1.04)	14.86	(1.38)
DHP30410	12.10	(1.12)	15.91	(1.48)
DHP3052	13.01	(1.21)	16.95	(1.58)
DHP3056	13.92	(1.29)	18.00	(1.67)
DHP30510	14.83	(1.38)	19.04	(1.77)
DHP3062	15.73	(1.46)	20.09	(1.87)
DHP34310	10.53	(0.98)	14.13	(1.31)
DHP3442	11.54	(1.07)	15.28	(1.42)
DHP3446	12.56	(1.17)	16.44	(1.53)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
DHP34410	13.58	(1.26)	17.60	(1.64)
DHP3452	14.60	(1.36)	18.75	(1.74)
DHP3456	15.62	(1.45)	19.91	(1.85)
DHP34510	16.64	(1.55)	21.07	(1.96)
DHP3462	17.66	(1.64)	22.22	(2.06)
DHP310310	12.16	(1.13)	16.06	(1.49)
DHP31042	13.33	(1.24)	17.37	(1.61)
DHP31046	14.51	(1.35)	18.69	(1.74)
DHP310410	15.69	(1.46)	20.00	(1.86)
DHP31052	16.87	(1.57)	21.32	(1.98)
DHP31056	18.04	(1.68)	22.63	(2.10)
DHP310510	19.22	(1.79)	23.94	(2.22)
DHP31062	20.40	(1.90)	25.26	(2.35)
DHP42310	13.30	(1.24)	17.42	(1.62)
DHP4242	14.56	(1.35)	18.83	(1.75)
DHP4246	15.88	(1.48)	20.27	(1.88)
DHP42410	17.17	(1.60)	21.69	(2.02)
DHP4252	18.46	(1.72)	23.12	(2.15)
DHP4256	19.75	(1.84)	24.54	(2.28)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
DHP42510	21.03	(1.95)	25.97	(2.41)
DHP4262	22.32	(2.07)	27.39	(2.55)
DHP410310	15.60	(1.45)	20.13	(1.87)
DHP41042	17.11	(1.59)	21.78	(2.02)
DHP41046	18.62	(1.73)	23.43	(2.18)
DHP410410	20.13	(1.87)	25.07	(2.33)
DHP41052	21.64	(2.01)	26.72	(2.48)
DHP41056	23.15	(2.15)	28.37	(2.64)
DHP410510	24.66	(2.29)	30.02	(2.79)
DHP41062	26.17	(2.43)	31.66	(2.94)
DHP56310	17.89	(1.66)	22.85	(2.12)
DHP5642	19.63	(1.82)	24.72	(2.30)
DHP5646	21.36	(1.98)	26.59	(2.47)
DHP56410	23.09	(2.15)	28.46	(2.64)
DHP5652	24.83	(2.31)	30.33	(2.82)
DHP5656	26.56	(2.47)	32.20	(2.99)
DHP56510	28.29	(2.63)	34.07	(3.17)
DHP5662	30.02	(2.79)	35.93	(3.34)

- Dimensions in parentheses are in square meters.

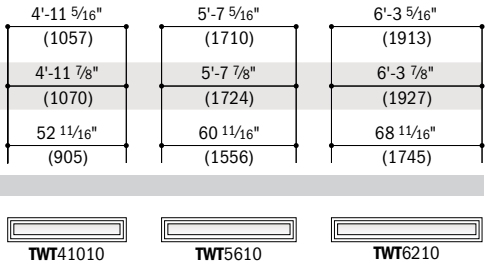


Table of Tilt-Wash Picture Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-0" (305)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-11 5/16" (1202)	4'-3 5/16" (1303)	4'-11 5/16" (1507)	5'-7 5/16" (1710)
Minimum Rough Opening	1'-0 1/2" (318)	3'-2 1/8" (968)	3'-6 1/8" (1070)	3'-11 7/8" (1216)	4'-3 7/8" (1318)	4'-11 7/8" (1521)	5'-7 7/8" (1724)
Unobstructed Glass	7 1/16" (179)	32 11/16" (830)	36 11/16" (932)	42 3/8" (1076)	46 3/8" (1178)	54 3/8" (1381)	62 3/8" (1584)

Window Dimension	1'-0" (305)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-11 5/16" (1202)	4'-3 5/16" (1303)	4'-11 5/16" (1507)	5'-7 5/16" (1710)
4'-0 7/8" (1241) / 4'-0 7/8" (1241) / 41 5/16" (1049)	**DHP**10310	**DHP**30310	**DHP**34310	**DHP**310310	**DHP**42310	**DHP**410310	**DHP**56310
4'-4 7/8" (1343) / 4'-4 7/8" (1343) / 45 5/16" (1151)	**DHP**1042	**DHP**3042	**DHP**3442	**DHP**31042	**DHP**4242	**DHP**41042	**DHP**5642
4'-8 7/8" (1445) / 4'-8 7/8" (1445) / 49 5/16" (1253)	**DHP**1046	**DHP**3046	**DHP**3446	**DHP**31046	**DHP**4246	**DHP**41046	**DHP**5646
5'-0 7/8" (1547) / 5'-0 7/8" (1547) / 53 5/16" (1355)	**DHP**10410	**DHP**30410	**DHP**34410	**DHP**310410	**DHP**42410	**DHP**410410	**DHP**56410
5'-4 7/8" (1648) / 5'-4 7/8" (1648) / 57 5/16" (1456)	**DHP**1052	**DHP**3052	**DHP**3452	**DHP**31052	**DHP**4252	**DHP**41052	**DHP**5652
5'-8 7/8" (1749) / 5'-8 7/8" (1749) / 61 5/16" (1557)	**DHP**1056	**DHP**3056	**DHP**3456	**DHP**31056	**DHP**4256	**DHP**41056	**DHP**5656
6'-0 7/8" (1851) / 6'-0 7/8" (1851) / 65 5/16" (1659)	**DHP**10510	**DHP**30510	**DHP**34510	**DHP**310510	**DHP**42510	**DHP**410510	**DHP**56510
6'-4 7/8" (1953) / 6'-4 7/8" (1953) / 69 5/16" (1761)	**DHP**1062	**DHP**3062	**DHP**3462	**DHP**31062	**DHP**4262	**DHP**41062	**DHP**5662

Custom-size windows are available in 1/8" (3) increments. See page 84 for custom sizing.

Grille patterns shown on page 85.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Tilt-Wash Double-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
TW18210	1.77 (0.16)	17 7/8" (454)	14 1/4" (362)	2.90 (0.27)	1.78 (0.17)	48 1/2" (1231)	5.53 (0.51)
TW1832	2.02 (0.19)	17 7/8" (454)	16 1/4" (412)	3.32 (0.31)	2.03 (0.19)	44 1/2" (1130)	6.14 (0.57)
TW1836	2.26 (0.21)	17 7/8" (454)	18 1/4" (463)	3.74 (0.35)	2.28 (0.21)	40 1/2" (1028)	6.74 (0.63)
TW18310	2.51 (0.23)	17 7/8" (454)	20 1/4" (514)	4.15 (0.39)	2.53 (0.24)	36 1/2" (926)	7.34 (0.68)
TW1842	2.76 (0.26)	17 7/8" (454)	22 1/4" (565)	4.57 (0.43)	2.78 (0.26)	32 1/2" (825)	7.94 (0.74)
TW1846	3.07 (0.29)	17 7/8" (454)	24 3/4" (628)	4.98 (0.46)	3.03 (0.28)	28 1/2" (711)	8.54 (0.79)
TW18410	3.26 (0.30)	17 7/8" (454)	26 1/4" (666)	5.40 (0.50)	3.27 (0.30)	24 1/2" (622)	9.14 (0.85)
TW1852	3.51 (0.33)	17 7/8" (454)	28 1/4" (717)	5.81 (0.54)	3.52 (0.33)	20 1/2" (520)	9.74 (0.91)
TW1856	3.75 (0.35)	17 7/8" (454)	30 1/4" (768)	6.23 (0.58)	3.77 (0.35)	16 1/2" (418)	10.34 (0.96)
TW18510	4.00 (0.37)	17 7/8" (454)	32 1/4" (819)	6.65 (0.62)	4.02 (0.37)	12 1/2" (317)	10.94 (1.02)
TW1862	4.12 (0.38)	17 7/8" (454)	33 1/4" (843)	7.06 (0.66)	4.24 (0.39)	8 1/2" (203)	11.54 (1.07)
TW1872	5.00 (0.46)	17 7/8" (454)	40 1/4" (1022)	8.32 (0.77)	5.03 (0.47)	10 1/4" * (260)*	13.35 (1.24)
TW1876	5.24 (0.49)	17 7/8" (454)	42 1/4" (1073)	8.74 (0.81)	5.27 (0.49)	6 1/4" * (159)*	13.95 (1.30)
TW20210	2.16 (0.20)	21 7/8" (556)	14 1/4" (362)	3.68 (0.34)	2.18 (0.20)	48 1/2" (1231)	6.56 (0.61)
TW2032	2.47 (0.23)	21 7/8" (556)	16 1/4" (412)	4.21 (0.39)	2.48 (0.23)	44 1/2" (1130)	7.27 (0.68)
TW2036	2.77 (0.26)	21 7/8" (556)	18 1/4" (463)	4.73 (0.44)	2.79 (0.26)	40 1/2" (1028)	7.98 (0.74)
TW20310	3.07 (0.29)	21 7/8" (556)	20 1/4" (514)	5.26 (0.49)	3.09 (0.29)	36 1/2" (926)	8.69 (0.81)
TW2042	3.38 (0.31)	21 7/8" (556)	22 1/4" (565)	5.79 (0.54)	3.40 (0.32)	32 1/2" (825)	9.41 (0.87)
TW2046	3.76 (0.35)	21 7/8" (556)	24 3/4" (628)	6.31 (0.59)	3.71 (0.34)	28 1/2" (711)	10.12 (0.94)
TW20410	3.99 (0.37)	21 7/8" (556)	26 1/4" (666)	6.84 (0.64)	4.00 (0.37)	24 1/2" (622)	10.83 (1.01)
TW2052	4.29 (0.40)	21 7/8" (556)	28 1/4" (717)	7.37 (0.69)	4.31 (0.40)	20 1/2" (520)	11.54 (1.07)
TW2056	4.59 (0.43)	21 7/8" (556)	30 1/4" (768)	7.89 (0.73)	4.61 (0.43)	16 1/2" (418)	12.25 (1.14)
TW20510	4.90 (0.46)	21 7/8" (556)	32 1/4" (819)	8.42 (0.78)	4.92 (0.46)	12 1/2" (317)	12.96 (1.20)
TW2062	5.04 (0.47)	21 7/8" (556)	33 1/4" (843)	8.95 (0.83)	5.18 (0.48)	8 1/2" (203)	13.68 (1.27)
TW2072 ◊	6.11 (0.57)	21 7/8" (556)	40 1/4" (1022)	10.54 (0.98)	6.14 (0.57)	10 1/4" * (260)*	15.82 (1.47)
TW2076 ◊	6.42 (0.60)	21 7/8" (556)	42 1/4" (1073)	11.06 (1.03)	6.45 (0.60)	6 1/4" * (159)*	16.53 (1.54)
TW24210	2.56 (0.24)	25 7/8" (657)	14 1/4" (362)	4.46 (0.41)	2.58 (0.24)	48 1/2" (1231)	7.58 (0.70)
TW2432	2.92 (0.27)	25 7/8" (657)	16 1/4" (412)	5.09 (0.47)	2.94 (0.27)	44 1/2" (1130)	8.40 (0.78)
TW2436	3.28 (0.31)	25 7/8" (657)	18 1/4" (463)	5.73 (0.53)	3.30 (0.31)	40 1/2" (1028)	9.23 (0.86)
TW24310	3.64 (0.34)	25 7/8" (657)	20 1/4" (514)	6.37 (0.59)	3.66 (0.34)	36 1/2" (926)	10.05 (0.93)
TW2442	4.00 (0.37)	25 7/8" (657)	22 1/4" (565)	7.01 (0.65)	4.02 (0.37)	32 1/2" (825)	10.87 (1.01)
TW2446	4.44 (0.41)	25 7/8" (657)	24 3/4" (628)	7.65 (0.71)	4.39 (0.41)	28 1/2" (711)	11.70 (1.09)
TW24410	4.71 (0.44)	25 7/8" (657)	26 1/4" (666)	8.28 (0.77)	4.74 (0.44)	24 1/2" (622)	12.52 (1.16)
TW2452	5.07 (0.47)	25 7/8" (657)	28 1/4" (717)	8.92 (0.83)	5.10 (0.47)	20 1/2" (520)	13.34 (1.24)
TW2456	5.43 (0.51)	25 7/8" (657)	30 1/4" (768)	9.56 (0.89)	5.46 (0.51)	16 1/2" (418)	14.17 (1.32)
TW24510 ◊	5.79 (0.54)	25 7/8" (657)	32 1/4" (819)	10.20 (0.95)	5.81 (0.54)	12 1/2" (317)	14.99 (1.39)
TW2462 ◊	5.97 (0.55)	25 7/8" (657)	33 1/4" (843)	10.84 (1.01)	6.13 (0.57)	8 1/2" (203)	15.81 (1.47)
TW2472 ◊	7.23 (0.67)	25 7/8" (657)	40 1/4" (1022)	12.76 (1.19)	7.26 (0.68)	10 1/4" * (260)*	18.28 (1.70)
TW2476 ◊	7.59 (0.71)	25 7/8" (657)	42 1/4" (1073)	13.40 (1.25)	7.62 (0.71)	6 1/4" * (159)*	19.11 (1.78)
TW26210	2.76 (0.26)	27 7/8" (708)	14 1/4" (362)	4.84 (0.45)	2.78 (0.26)	48 1/2" (1231)	8.09 (0.75)
TW2632	3.14 (0.29)	27 7/8" (708)	16 1/4" (412)	5.54 (0.52)	3.17 (0.30)	44 1/2" (1130)	8.97 (0.83)
TW2636	3.53 (0.33)	27 7/8" (708)	18 1/4" (463)	6.23 (0.58)	3.55 (0.33)	40 1/2" (1028)	9.85 (0.92)
TW26310	3.92 (0.36)	27 7/8" (708)	20 1/4" (514)	6.92 (0.64)	3.94 (0.37)	36 1/2" (926)	10.73 (1.00)
TW2642	4.30 (0.40)	27 7/8" (708)	22 1/4" (565)	7.62 (0.71)	4.33 (0.40)	32 1/2" (825)	11.61 (1.08)
TW2646	4.79 (0.44)	27 7/8" (708)	24 3/4" (628)	8.31 (0.77)	4.73 (0.44)	28 1/2" (711)	12.49 (1.16)
TW26410	5.08 (0.47)	27 7/8" (708)	26 1/4" (666)	9.01 (0.84)	5.10 (0.47)	24 1/2" (622)	13.36 (1.24)
TW2652	5.47 (0.51)	27 7/8" (708)	28 1/4" (717)	9.70 (0.90)	5.49 (0.51)	20 1/2" (520)	14.24 (1.32)
TW2656 ◊	5.85 (0.54)	27 7/8" (708)	30 1/4" (768)	10.39 (0.96)	5.88 (0.55)	16 1/2" (418)	15.12 (1.41)
TW26510 ◊	6.24 (0.58)	27 7/8" (708)	32 1/4" (819)	11.09 (1.03)	6.26 (0.58)	12 1/2" (317)	16.00 (1.49)
TW2662 ◊	6.43 (0.60)	27 7/8" (708)	33 1/4" (843)	11.78 (1.09)	6.61 (0.61)	8 1/2" (203)	16.88 (1.57)
TW2672 ◊	7.79 (0.72)	27 7/8" (708)	40 1/4" (1022)	13.86 (1.29)	7.82 (0.73)	10 1/4" * (260)*	19.52 (1.81)
TW2676 ◊	8.18 (0.76)	27 7/8" (708)	42 1/4" (1073)	14.56 (1.35)	8.21 (0.76)	6 1/4" * (159)*	20.40 (1.89)
TW28210	2.95 (0.27)	29 7/8" (759)	14 1/4" (362)	5.23 (0.49)	2.98 (0.28)	48 1/2" (1231)	8.61 (0.80)
TW2832	3.37 (0.31)	29 7/8" (759)	16 1/4" (412)	5.98 (0.56)	3.39 (0.32)	44 1/2" (1130)	9.54 (0.89)
TW2836	3.78 (0.35)	29 7/8" (759)	18 1/4" (463)	6.73 (0.63)	3.81 (0.35)	40 1/2" (1028)	10.47 (0.97)
TW28310	4.20 (0.39)	29 7/8" (759)	20 1/4" (514)	7.48 (0.70)	4.22 (0.39)	36 1/2" (926)	11.41 (1.06)
TW2842	4.61 (0.43)	29 7/8" (759)	22 1/4" (565)	8.23 (0.77)	4.64 (0.43)	32 1/2" (825)	12.34 (1.15)
TW2846	5.13 (0.48)	29 7/8" (759)	24 3/4" (628)	8.98 (0.83)	5.07 (0.47)	28 1/2" (711)	13.28 (1.23)
TW28410	5.44 (0.51)	29 7/8" (759)	26 1/4" (666)	9.73 (0.90)	5.47 (0.51)	24 1/2" (622)	14.21 (1.32)
TW2852 ◊	5.86 (0.54)	29 7/8" (759)	28 1/4" (717)	10.48 (0.97)	5.88 (0.55)	20 1/2" (520)	15.14 (1.41)

continued on next page

Opening calculations change when using PG Upgrade sill stop.

For opening specifications for windows with Stormwatch® Protection, visit **andersenwindows.com/openingspecs.**

For cottage and reverse cottage sash opening specifications, visit **andersenwindows.com/openingspecs**.

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096) except for 7'-5" and 7'-9" heights which are calculated using a header height of 8' (2438).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).
*Calculated based upon a structural header height of 8' (2438).

Tilt-Wash Double-Hung Window Opening and Area Specifications *(continued)*

Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
TW2856 ◊	6.27 (0.58)	29 7/8" (759)	30 1/4" (768)	11.22 (1.04)	6.30 (0.59)	16 1/2" (418)	16.08 (1.49)
TW28510 ◊	6.69 (0.62)	29 7/8" (759)	32 1/4" (819)	11.97 (1.11)	6.71 (0.62)	12 1/2" (317)	17.01 (1.58)
TW2862 ◊	6.89 (0.64)	29 7/8" (759)	33 1/4" (843)	12.72 (1.18)	7.08 (0.66)	8 1/2" (203)	17.95 (1.67)
TW2872 ◊	8.35 (0.78)	29 7/8" (759)	40 1/4" (1022)	14.98 (1.39)	8.38 (0.78)	10 1/4" * (260)*	20.75 (1.93)
TW2876 ◊	8.77 (0.81)	29 7/8" (759)	42 1/4" (1073)	15.72 (1.46)	8.80 (0.82)	6 1/4" * (159)*	21.69 (2.01)
TW210210	3.15 (0.29)	31 7/8" (809)	14 1/4" (362)	5.62 (0.52)	3.18 (0.30)	48 1/2" (1231)	9.12 (0.85)
TW21032	3.59 (0.33)	31 7/8" (809)	16 1/4" (412)	6.42 (0.60)	3.62 (0.34)	44 1/2" (1130)	10.11 (0.94)
TW21036	4.04 (0.38)	31 7/8" (809)	18 1/4" (463)	7.23 (0.67)	4.06 (0.38)	40 1/2" (1028)	11.10 (1.03)
TW210310	4.48 (0.42)	31 7/8" (809)	20 1/4" (514)	8.03 (0.75)	4.51 (0.42)	36 1/2" (926)	12.09 (1.12)
TW21042	4.92 (0.46)	31 7/8" (809)	22 1/4" (565)	8.84 (0.82)	4.95 (0.46)	32 1/2" (825)	13.08 (1.22)
TW21046	5.48 (0.51)	31 7/8" (809)	24 3/4" (628)	9.64 (0.90)	5.41 (0.50)	28 1/2" (711)	14.07 (1.31)
TW210410 ◊	5.81 (0.54)	31 7/8" (809)	26 1/4" (666)	10.45 (0.97)	5.83 (0.54)	24 1/2" (622)	15.05 (1.40)
TW21052 ◊	6.25 (0.58)	31 7/8" (809)	28 1/4" (717)	11.25 (1.05)	6.28 (0.58)	20 1/2" (520)	16.04 (1.49)
TW21056 ◊	6.69 (0.62)	31 7/8" (809)	30 1/4" (768)	12.06 (1.12)	6.72 (0.62)	16 1/2" (418)	17.03 (1.59)
TW210510 ◊	7.14 (0.66)	31 7/8" (809)	32 1/4" (819)	12.86 (1.20)	7.16 (0.67)	12 1/2" (317)	18.02 (1.67)
TW21062 ◊	7.35 (0.68)	31 7/8" (809)	33 1/4" (843)	13.67 (1.27)	7.55 (0.70)	8 1/2" (203)	19.01 (1.77)
TW21072 ◊	8.91 (0.83)	31 7/8" (810)	40 1/4" (1022)	16.08 (1.49)	8.94 (0.83)	10 1/4" * (260)*	21.99 (2.04)
TW21076 ◊	9.35 (0.87)	31 7/8" (810)	42 1/4" (1073)	16.90 (1.57)	9.38 (0.87)	6 1/4" * (159)*	22.98 (2.13)
TW30210	3.35 (0.31)	33 7/8" (860)	14 1/4" (362)	6.01 (0.56)	3.38 (0.31)	48 1/2" (1231)	9.63 (0.90)
TW3032	3.82 (0.36)	33 7/8" (860)	16 1/4" (412)	6.87 (0.64)	3.85 (0.36)	44 1/2" (1130)	10.67 (0.99)
TW3036	4.29 (0.40)	33 7/8" (860)	18 1/4" (463)	7.73 (0.72)	4.32 (0.40)	40 1/2" (1028)	11.72 (1.09)
TW30310	4.76 (0.44)	33 7/8" (860)	20 1/4" (514)	8.59 (0.80)	4.79 (0.45)	36 1/2" (926)	12.76 (1.19)
TW3042	5.23 (0.49)	33 7/8" (860)	22 1/4" (565)	9.45 (0.88)	5.26 (0.49)	32 1/2" (825)	13.81 (1.28)
TW3046 ◊	5.82 (0.54)	33 7/8" (860)	24 3/4" (628)	10.31 (0.96)	5.75 (0.53)	28 1/2" (711)	14.85 (1.38)
TW30410 ◊	6.17 (0.57)	33 7/8" (860)	26 1/4" (666)	11.17 (1.04)	6.20 (0.58)	24 1/2" (622)	15.90 (1.48)
TW3052 ◊	6.64 (0.62)	33 7/8" (860)	28 1/4" (717)	12.03 (1.12)	6.67 (0.62)	20 1/2" (520)	16.95 (1.58)
TW3056 ◊	7.11 (0.66)	33 7/8" (860)	30 1/4" (768)	12.89 (1.20)	7.14 (0.66)	16 1/2" (418)	17.99 (1.67)
TW30510 ◊	7.58 (0.70)	33 7/8" (860)	32 1/4" (819)	13.75 (1.28)	7.61 (0.71)	12 1/2" (317)	19.04 (1.77)
TW3062 ◊	7.81 (0.73)	33 7/8" (860)	33 1/4" (843)	14.61 (1.36)	8.03 (0.75)	8 1/2" (203)	20.08 (1.87)
TW3072 ◊	9.47 (0.88)	33 7/8" (860)	40 1/4" (1022)	17.20 (1.60)	9.50 (0.88)	10 1/4" * (260)*	23.22 (2.16)
TW3076 ◊	9.94 (0.92)	33 7/8" (860)	42 1/4" (1073)	18.06 (1.68)	9.97 (0.93)	6 1/4" * (159)*	24.27 (2.25)
TW34210	3.74 (0.35)	37 7/8" (962)	14 1/4" (362)	6.79 (0.63)	3.78 (0.35)	48 1/2" (1231)	10.65 (0.99)
TW3432	4.27 (0.40)	37 7/8" (962)	16 1/4" (412)	7.76 (0.72)	4.30 (0.40)	44 1/2" (1130)	11.81 (1.10)
TW3436	4.80 (0.45)	37 7/8" (962)	18 1/4" (463)	8.73 (0.81)	4.83 (0.45)	40 1/2" (1028)	12.97 (1.21)
TW34310	5.32 (0.49)	37 7/8" (962)	20 1/4" (514)	9.70 (0.90)	5.35 (0.50)	36 1/2" (926)	14.12 (1.31)
TW3442	5.85 (0.54)	37 7/8" (962)	22 1/4" (565)	10.67 (0.99)	5.88 (0.55)	32 1/2" (825)	15.28 (1.42)
TW3446 ◊	6.51 (0.60)	37 7/8" (962)	24 3/4" (628)	11.64 (1.08)	6.42 (0.60)	28 1/2" (711)	16.43 (1.53)
TW34410 ◊	6.90 (0.64)	37 7/8" (962)	26 1/4" (666)	12.61 (1.17)	6.93 (0.64)	24 1/2" (622)	17.59 (1.63)
TW3452 ◊	7.43 (0.69)	37 7/8" (962)	28 1/4" (717)	13.58 (1.26)	7.46 (0.69)	20 1/2" (520)	18.75 (1.74)
TW3456 ◊	7.95 (0.74)	37 7/8" (962)	30 1/4" (768)	14.55 (1.35)	7.98 (0.74)	16 1/2" (418)	19.90 (1.85)
TW34510 ◊	8.48 (0.79)	37 7/8" (962)	32 1/4" (819)	15.53 (1.44)	8.51 (0.79)	12 1/2" (317)	21.06 (1.96)
TW3462 ◊	8.73 (0.81)	37 7/8" (962)	33 1/4" (843)	16.50 (1.53)	8.98 (0.83)	8 1/2" (203)	22.22 (2.06)
TW3472 ◊	10.59 (0.98)	37 7/8" (962)	40 1/4" (1022)	19.42 (1.80)	10.62 (0.99)	10 1/4" * (260)*	25.69 (2.39)
TW3476 ◊	11.11 (1.03)	37 7/8" (962)	42 1/4" (1073)	20.38 (1.89)	11.14 (1.04)	6 1/4" * (159)*	26.85 (2.49)
TW38210	4.14 (0.39)	41 7/8" (1064)	14 1/4" (362)	7.56 (0.70)	4.17 (0.39)	48 1/2" (1231)	11.68 (1.09)
TW3832	4.72 (0.44)	41 7/8" (1064)	16 1/4" (412)	8.64 (0.80)	4.76 (0.44)	44 1/2" (1130)	12.94 (1.20)
TW3836	5.30 (0.49)	41 7/8" (1064)	18 1/4" (463)	9.72 (0.90)	5.34 (0.50)	40 1/2" (1028)	14.21 (1.32)
TW38310	5.88 (0.55)	41 7/8" (1064)	20 1/4" (514)	10.81 (1.00)	5.92 (0.55)	36 1/2" (926)	15.48 (1.44)
TW3842	6.47 (0.60)	41 7/8" (1064)	22 1/4" (565)	11.89 (1.11)	6.50 (0.60)	32 1/2" (825)	16.75 (1.56)
TW3846 ◊	7.19 (0.67)	41 7/8" (1064)	24 3/4" (628)	12.97 (1.21)	7.10 (0.66)	28 1/2" (711)	18.01 (1.67)
TW38410 ◊	7.63 (0.71)	41 7/8" (1064)	26 1/4" (666)	14.05 (1.31)	7.66 (0.71)	24 1/2" (622)	19.28 (1.79)
TW3852 ◊	8.21 (0.76)	41 7/8" (1064)	28 1/4" (717)	15.14 (1.41)	8.25 (0.77)	20 1/2" (520)	20.55 (1.91)
TW3856 ◊	8.79 (0.82)	41 7/8" (1064)	30 1/4" (768)	16.22 (1.51)	8.83 (0.82)	16 1/2" (418)	21.62 (2.01)
TW38510 ◊	9.37 (0.87)	41 7/8" (1064)	32 1/4" (819)	17.30 (1.61)	9.41 (0.87)	12 1/2" (317)	23.08 (2.14)
TW3862 ◊	9.66 (0.90)	41 7/8" (1064)	33 1/4" (843)	18.38 (1.71)	9.92 (0.92)	8 1/2" (203)	24.35 (2.26)
TW3872 ◊	11.70 (1.09)	41 7/8" (1064)	40 1/4" (1022)	21.64 (2.01)	11.73 (1.09)	10 1/4" * (260)*	28.16 (2.26)
TW3876 ◊	12.29 (1.14)	41 7/8" (1064)	42 1/4" (1073)	22.72 (2.11)	12.32 (1.14)	6 1/4" * (159)*	29.43 (2.73)

• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096) except for 7'-5" and 7'-9" heights which are calculated using a header height of 8' (2438).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).
*Calculated based upon a structural header height of 8' (2438).

Opening calculations change when using PG Upgrade sill stop.

For opening specifications for windows with Stormwatch® Protection, visit **andersenwindows.com/openingspecs.**

For cottage and reverse cottage sash opening specifications, visit **andersenwindows.com/openingspecs**.

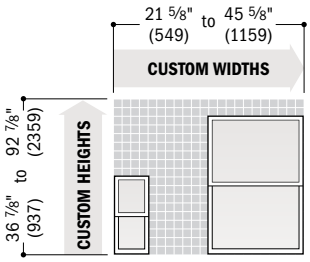
TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

Custom Sizes and Specification Formulas

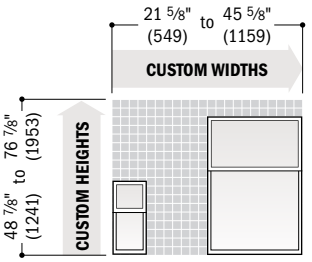
Available in 1/8" (3) increments between minimum and maximum widths and heights. Some restrictions apply; contact your Andersen supplier. For minimum rough opening dimensions for joined windows, see specific joining instruction guides. Measurement guide for custom-size windows can be found at **andersenwindows.com/measure**.

Tilt-Wash Double-Hung Windows

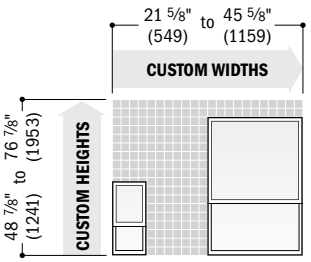
Equal

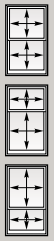


Cottage

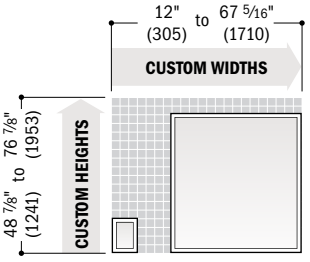


Reverse Cottage

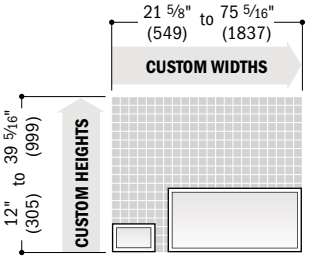


Clear Opening 	**Width** = window width − 1.852" (47) x 2 *Contact your Andersen supplier for clear opening height.*	**Minimum R.O.** 	**Width** = window width + 1/2" (51) **Height** = window height + 0"
Vent Opening 	*Vent opening formulas are dependent on window size; contact your Andersen supplier.*	**Unobst. Glass** 	**Width** = window width − 3.376" (86) **Height:** **Upper Sash** = upper sash height − 3.035" (77) **Lower Sash** = lower sash height − 3.831" (97)

Tilt-Wash Picture Windows



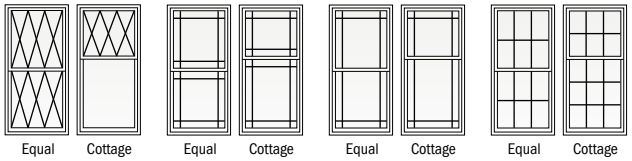
Tilt-Wash Transom Windows



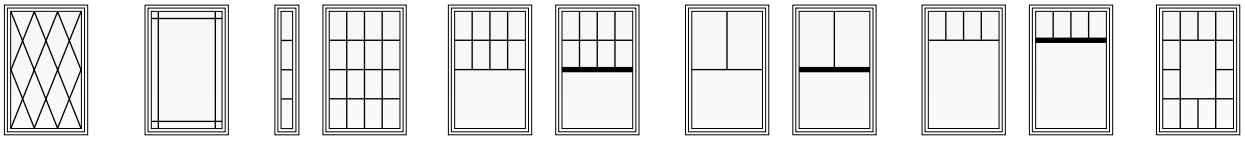
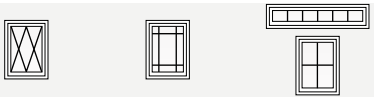
Minimum R.O. 	**Width** = window width + 1/2" (51) **Height** = window height + 0	**Unobst. Glass** 	**Picture Window** **Width** = window width − 4.924" (125) **Height** = window height − 7.531" (191)	**Transom Window** **Width** = window width − 6.625" (168) **Height** = window height − 6.625" (168)

• 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. **Minimum R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

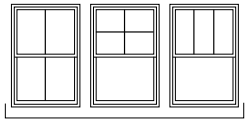
Grille Patterns

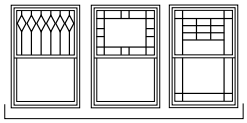
	Diamond*	Prairie A	6-Light Prairie	Colonial
Tilt-Wash Double-Hung	 Equal Cottage Equal Cottage Equal Cottage Equal Cottage			

Patterns for double-hung windows are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double-hung window patterns, identify the sash style (equal, cottage or reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns not available in all configurations.**

	Diamond*	Prairie A	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail	Victorian
Tilt-Wash Picture										
Tilt-Wash Transom										

*Available only in Simulated Divided Light (SDL) configuration and only in 3/4" (19) and 7/8" (22) widths.

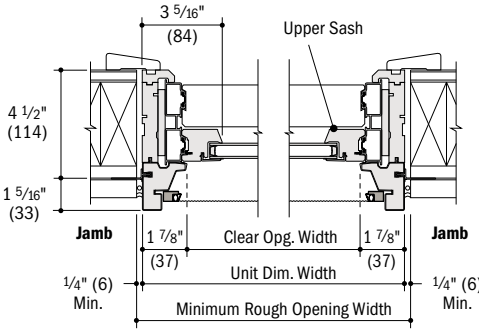

Specified Equal Light Examples


Custom Pattern Examples

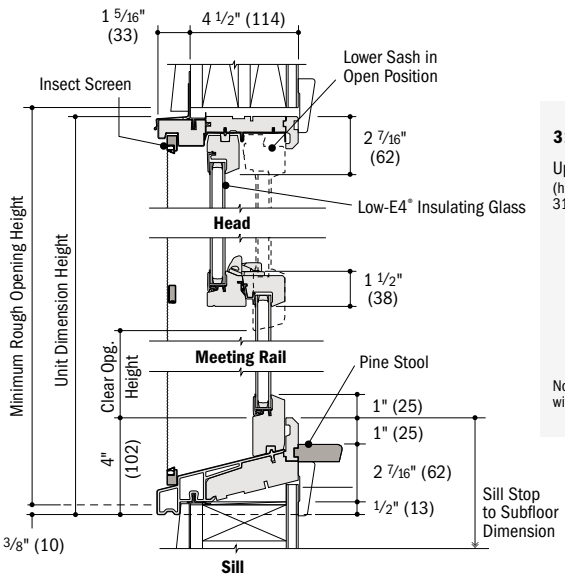
Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.

Tilt-Wash Double-Hung Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

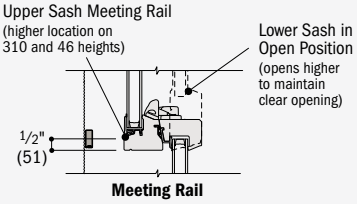


Horizontal Section



Vertical Section
All window heights except 310 & 46

310 and 46 Height Windows Only:



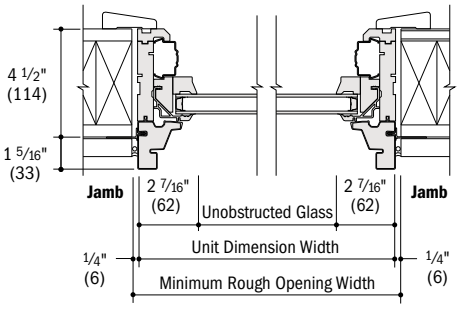
Note: Location of support bar on optional insect screen aligns with meeting rail location on 310 and 46 window heights.

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

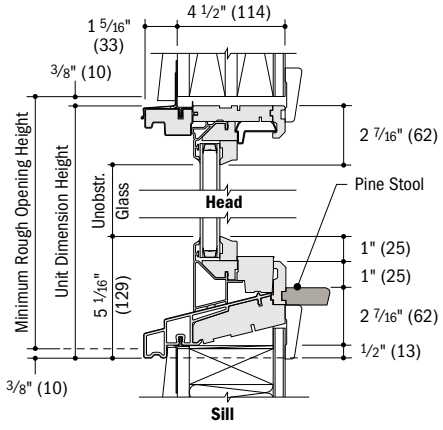
TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

Tilt-Wash Picture Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



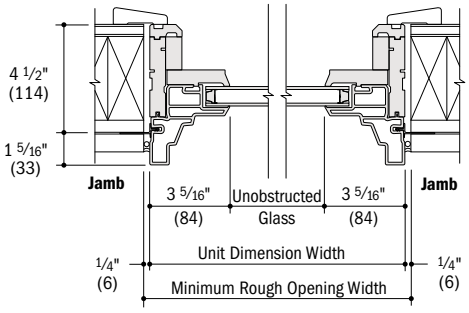
Horizontal Section



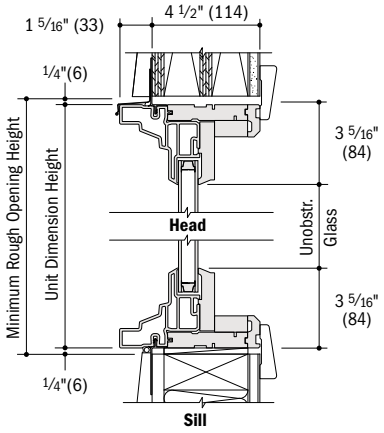
Vertical Section

Tilt-Wash Transom Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section



Vertical Section

Horizontal (stack) Joining Detail

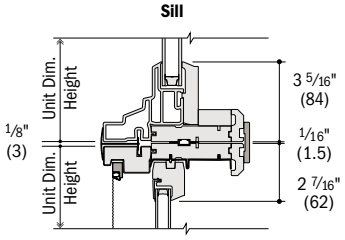
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Height

Sum of individual window heights plus 1/16" (1.5) for each join.

Overall Rough Opening Height

Overall window dimension height.*



Vertical Section

Transom (**TWT**) over Tilt-Wash Double-Hung

Vertical (ribbon) Joining Detail

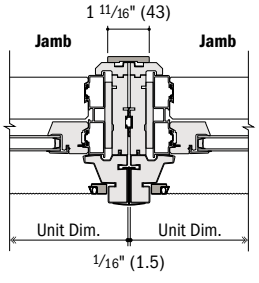
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Width

Sum of individual window widths plus 1/16" (1.5) for each join.

Overall Rough Opening Width

Overall window dimension width plus 1/2" (13).



Horizontal Section

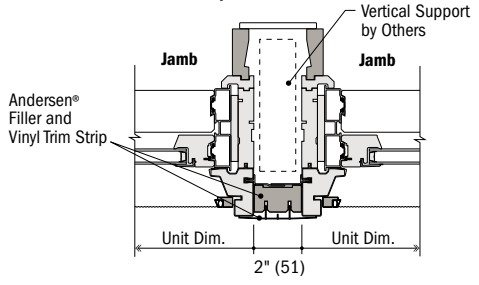
Tilt-Wash Double-Hung to Tilt-Wash Double-Hung

For more joining information, see the combination designs section starting on page 181.

Separate Rough Openings Detail

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Horizontal Section

Tilt-Wash Double-Hung and Tilt-Wash Double-Hung

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.
- *For stacks where bottom unit in combination is a double-hung or picture window with a sloped sill. If bottom window has a flat sill add 1/2" (13) to the overall window dimension height.

FEATURES

NARROLINE® DOUBLE-HUNG WINDOW CONVERSION KIT

Narroline double-hung window conversion kits are designed specifically to update existing Narroline double-hung windows (made from 1968 to 2013) to tilt-wash double-hung windows. They provide quick and easy installation with less mess than traditional window replacement because there are no window frame tear-out or trim modifications.

Each kit includes:

- Upper and lower sash with your choice of Low-E4® glass options
- Jamb liners
- Balancers
- Lock and keeper

GLASS

In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

High-Performance options include:

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

Tempered 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 job site.

High-Performance Low-E4 glass is 45% more energy efficient than ordinary dual-pane glass in winter and 56% more energy efficient in summer.*

LOW MAINTENANCE

Sash tilt inward for easy cleaning of window exteriors from inside the home (no need for ladders).

See videos of Narroline double-hung window conversion kit features and installation at andersenwindows.com/narroline.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White Sandtone Terratone

INTERIOR OPTIONS

Pine White

Narroline Double-Hung Window Identification

Unobstructed Glass Width Inches/(mm)		Unobstructed Glass Height** Inches/(mm)		Window Number
16 7/16"	(418)	13 15/16"	(354)	18210
16 7/16"	(418)	15 15/16"	(405)	1832
16 7/16"	(418)	19 15/16"	(506)	18310
16 7/16"	(418)	21 15/16"	(557)	1842
16 7/16"	(418)	23 15/16"	(608)	1846
16 7/16"	(418)	27 15/16"	(710)	1852
16 7/16"	(418)	35 15/16"	(913)	1856
16 7/16"	(418)	33 15/16"	(862)	1862
20 7/16"	(519)	13 15/16"	(354)	20210
20 7/16"	(519)	15 15/16"	(405)	2032
20 7/16"	(519)	19 15/16"	(506)	20310
20 7/16"	(519)	21 15/16"	(557)	2042
20 7/16"	(519)	23 15/16"	(608)	2046
20 7/16"	(519)	27 15/16"	(710)	2052
20 7/16"	(519)	35 15/16"	(913)	2056
20 7/16"	(519)	33 15/16"	(862)	2062
24 7/16"	(621)	13 15/16"	(354)	24210
24 7/16"	(621)	15 15/16"	(405)	2432
24 7/16"	(621)	19 15/16"	(506)	24310
24 7/16"	(621)	21 15/16"	(557)	2442
24 7/16"	(621)	23 15/16"	(608)	2446
24 7/16"	(621)	27 15/16"	(710)	2452
24 7/16"	(621)	35 15/16"	(913)	2456
24 7/16"	(621)	33 15/16"	(862)	2462
28 7/16"	(722)	13 15/16"	(354)	28210
28 7/16"	(722)	15 15/16"	(405)	2832
28 7/16"	(722)	19 15/16"	(506)	28310
28 7/16"	(722)	21 15/16"	(557)	2842
28 7/16"	(722)	23 15/16"	(608)	2846
28 7/16"	(722)	27 15/16"	(710)	2852
28 7/16"	(722)	35 15/16"	(913)	2856
28 7/16"	(722)	33 15/16"	(862)	2862
32 7/16"	(824)	13 15/16"	(354)	30210
32 7/16"	(824)	15 15/16"	(405)	3032
32 7/16"	(824)	19 15/16"	(506)	30310
32 7/16"	(824)	21 15/16"	(557)	3042
32 7/16"	(824)	23 15/16"	(608)	3046
32 7/16"	(824)	27 15/16"	(710)	3052
32 7/16"	(824)	35 15/16"	(913)	3056
32 7/16"	(824)	33 15/16"	(862)	3062
36 7/16"	(926)	13 15/16"	(354)	34210
36 7/16"	(926)	15 15/16"	(405)	3432
36 7/16"	(926)	19 15/16"	(506)	34310
36 7/16"	(926)	21 15/16"	(557)	3442
36 7/16"	(926)	23 15/16"	(608)	3446
36 7/16"	(926)	27 15/16"	(710)	3452
36 7/16"	(926)	35 15/16"	(913)	3456
36 7/16"	(926)	33 15/16"	(862)	3462
40 7/16"	(1027)	13 15/16"	(354)	38210
40 7/16"	(1027)	15 15/16"	(405)	3832
40 7/16"	(1027)	19 15/16"	(506)	38310
40 7/16"	(1027)	21 15/16"	(557)	3842
40 7/16"	(1027)	23 15/16"	(608)	3846
40 7/16"	(1027)	27 15/16"	(710)	3852
40 7/16"	(1027)	35 15/16"	(913)	3856
40 7/16"	(1027)	33 15/16"	(862)	3862

*Values are based on comparison of Andersen® double-hung window conversion kit U-Factor to the U-Factor for clear dual-pane glass non-metal frame default values from the 2006, 2009, 2012, 2015 and 2018 International Energy Conservation Code "Glazed Fenestration" Default Tables.

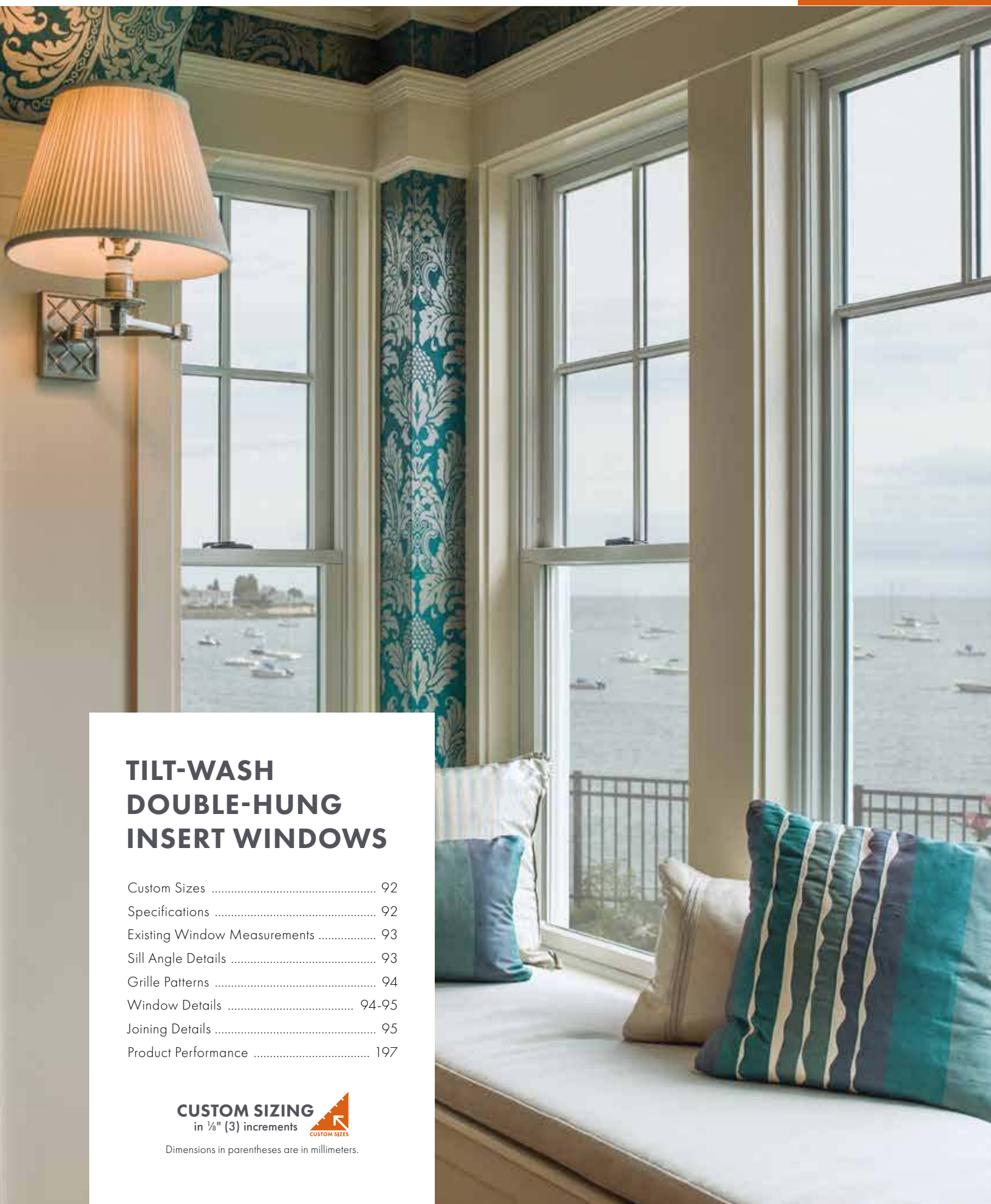
**"Unobstructed Glass Height" dimensions in table are for lower sash only.

Dimensions in parentheses are in millimeters.

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

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

NOTES



TILT-WASH DOUBLE-HUNG INSERT WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

TILT-WASH 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.*

Ⓑ For exceptional long-lasting* performance, sill members are constructed with a wood core and a Fibrex material exterior. Sill ends are protected and sealed with weather-resistant covers.

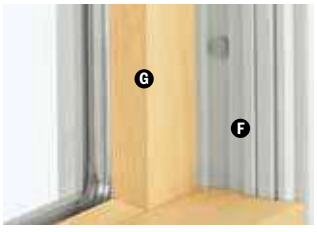
Ⓒ Natural wood stops are available in pine, and prefinished white, dark bronze and black.**

Ⓓ Weatherstrip throughout the unit provides a long-lasting,* energy-efficient, weather-resistant seal. For the top and bottom rails, an encased foam material is used. The head jamb liner and sill have a rigid vinyl rib that the weatherstrip material compresses against. At the meeting rail, compressible vinyl bulb material is used. Side jamb liners use leaf-type weatherstrip with foam inserts.

Ⓔ Exterior stop covers are specially designed to allow easy application of high-quality sealant.

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

Ⓕ Jamb liners are available in white or gray, and must be specified when ordering. Contact your Andersen supplier for details.



Unique block-and-tackle balancers feature sized-to-the-unit, rust-resistant springs that require no adjustment. Glass-reinforced nylon balancer shoes provide smooth, reliable sash operation. They automatically lock the balancer into position when sash are tilted into wash mode.

SASH

Wash assists make it easy to tilt the sash into wash mode.

Ⓖ Wood sash members are treated with a water-repellent preservative for long-lasting* protection and performance. Interior surfaces are unfinished pine. Low-maintenance prefinished white interiors are also available.

Ⓗ A polyester-stabilized coat with a Flexacron® finish is electrostatically applied to penetrate all exterior surfaces for maximum protection and a lustrous finish.

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

GLASS

Ⓙ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓚ Silicone bed glazing provides superior weathertightness and durability.

Ⓛ High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

SILL

Sill Angles

Three sill angles are available – 0,° 8° and 14° – to closely match the existing sill in window replacement applications. See page 93 for details.

0° Sill Angle

8° Sill Angle

14° Sill Angle

Sill Angle Finder App

Our Sill Angle Finder App lets you quickly and easily find the sill angle of existing double-hung windows. Available for free for both iPhone® and Android™ smartphones. Download the app for iPhone from the App Store℠ or for Android smartphones from the Google Play Store. The app is only available for smartphones, as tablets and other large devices are too bulky for measuring window sill angles.

INSTALLATION

Exterior Stop Cover

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

Included Installation Materials

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

SASH OPTIONS†

Cottage Reverse Cottage

*Visit andersenwindows.com/warranty for details.
**Products with dark bronze and black interiors have matching exteriors.
†Shown on 400 Series tilt-wash double-hung full-frame windows.
"Flexacron" is a registered trademark of PPG Industries, Inc.
"iPhone" and "App Store" are registered trademarks of Apple Inc. "Android" is a trademark of Google Inc.
Dimensions in parentheses are in millimeters.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | White

Dark Bronze* | Black*

HARDWARE

Standard Lock & Keeper

Black | Gold Dust | **Stone** | White

Stone is standard with natural interior units. White comes with prefinished white interiors. Other finishes optional.

OPTIONAL HARDWARE Sold Separately

ESTATE™

Lock & Keeper

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

Optional Estate lock and keeper reduces the clear opening height by 9/16" (14). Check with local building code officials to determine compliance with egress requirements.

CONTEMPORARY

Bar Lift

Antique Brass | Black | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Gold Dust
Oil Rubbed Bronze | Polished Chrome
Satin Nickel | Stone | White

TRADITIONAL

Bar Lift

Hand Lift

Finger Lifts

Antique Brass | Black | Bright Brass | Brushed Chrome
Distressed Bronze | Distressed Nickel | Gold Dust | **Oil Rubbed Bronze**
Polished Chrome | Satin Nickel | Stone | White

Bold name denotes finish shown.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

ACCESSORIES Sold Separately

SASH

Window Opening Control Device

A recessed window opening control device is available factory applied. It limits the sash travel to less than 4" (102) when the window is first opened. Available in white, stone and black. A field-applied window opening control device kit is also available.

INSTALLATION

Coil Stock

Andersen® aluminum coil stock can be ordered to match any of our 11 trim colors. Made from .018" thick aluminum, Andersen coil stock is available in 24" (610) x 50' (15240) rolls. Color-matched 1 1/4" (32)-long stainless steel trim nails are also available and can be ordered in 1 lb/.454 kg boxes.

GLASS

Andersen Art Glass

Available for 400 Series tilt-wash transom and picture units. Andersen art glass panels come in a variety of original patterns. See art glass section starting on page 173 for more information or visit andersenwindows.com/artglass.

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 Screens

Andersen TruScene insect screens let in over 25% more fresh air** and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

Conventional Insect Screens

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 94.

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-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Products with dark bronze and black interiors have matching exteriors.

**TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.

Dimensions in parentheses are in millimeters.

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

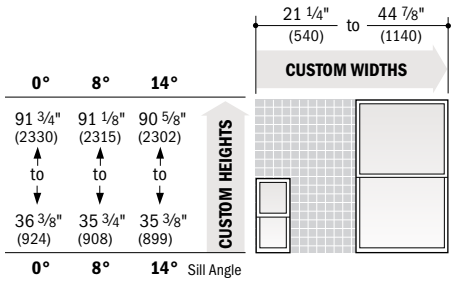
Naturally occurring variations in grain, color and texture of wood make each window one of a kind. All wood interiors are unfinished unless a finish is specified.

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

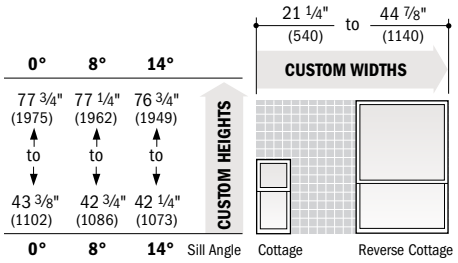
TILT-WASH DOUBLE-HUNG INSERT WINDOWS

Tilt-Wash Double-Hung, Picture and Transom Insert Window Sizes

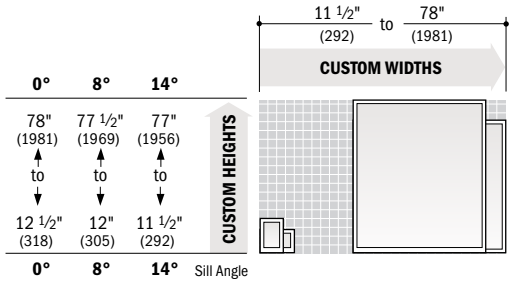
Double-Hung Equal Sash Ratio



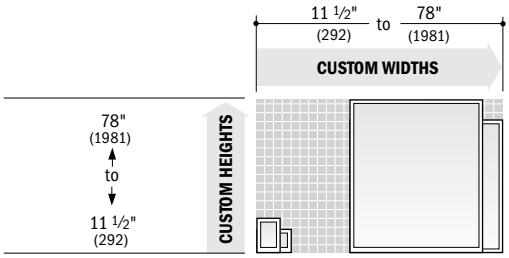
Double-Hung 2:3 Cottage and 3:2 Reverse Cottage Sash Ratio



Picture



Transom



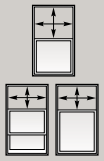
Available in 1/8" (3) increments between minimum and maximum widths and heights. Height limits for double-hung and picture insert windows depend on new insert window sill angle.

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).

Measurement guide for custom-sized windows can be found at **andersenwindows.com/measure**. Grille patterns shown on page 94.

Tilt-Wash Double-Hung Insert Window Specification Formulas

Vent Opening

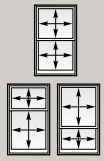


Width = window width − 3.798" (96)

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	3.602" (91)	3.836" (97)	4.138" (105)
2:3 Cottage	= (window height x 2) ÷ 5 − sill angle deduction	2.879" (73)	3.066" (78)	3.308" (84)
3:2 Reverse Cottage	= (window height x 2) ÷ 5 − sill angle deduction	2.083" (53)	2.270" (58)	2.512" (64)

Unobst. Glass



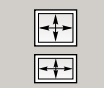
Width = window width − 6.219" (158)

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 ÷ 2) − sill angle deduction	3.625 (92)	3.844" (98)	4.156" (106)
Cottage Upper Sash or Reverse Cottage Lower Sash	= (window height x 2) ÷ 5 − sill angle deduction	2.891" (73)	3.078" (78)	3.328" (85)
Cottage Lower Sash or Reverse Cottage Upper Sash	= (window height x 2) ÷ 5 − sill angle deduction	4.344" (110)	4.625" (117)	4.984" (127)

Tilt-Wash Picture and Transom Insert Window Specification Formulas

Unobst. 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)

Transom Insert

Width = window width − 6.0" (152)

Height = window width − 6.0" (152)

Optional Estate™ hardware will reduce vent opening height by 7/32" (6).

For clear opening specifications, contact your Andersen supplier.

- 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. **Unobst. 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.

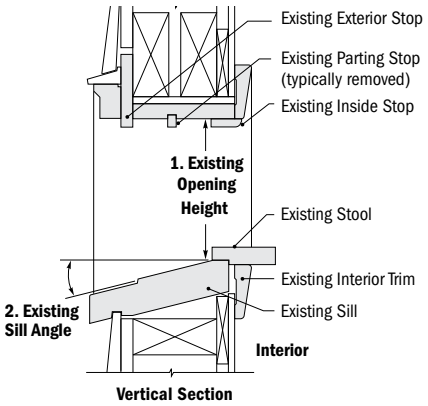
Existing Window Measurements

Required measurements:

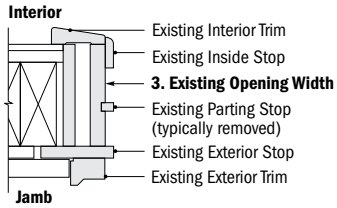
1. Existing Opening Height

2. Existing Sill Angle

3. Existing Opening Width

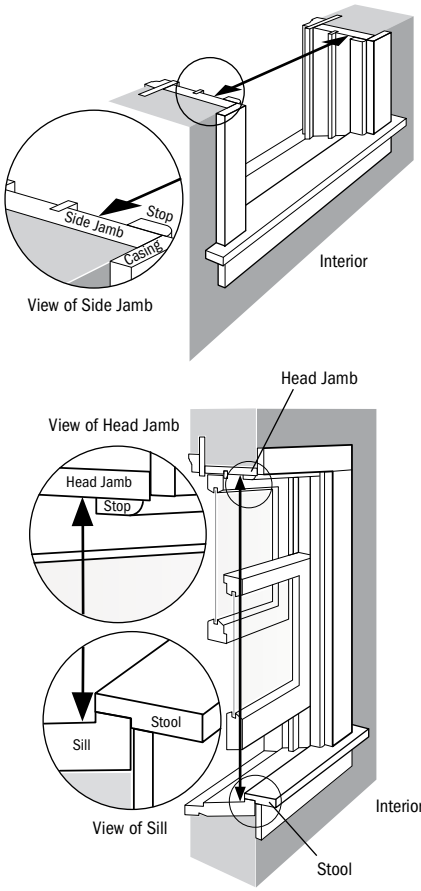


Vertical Section

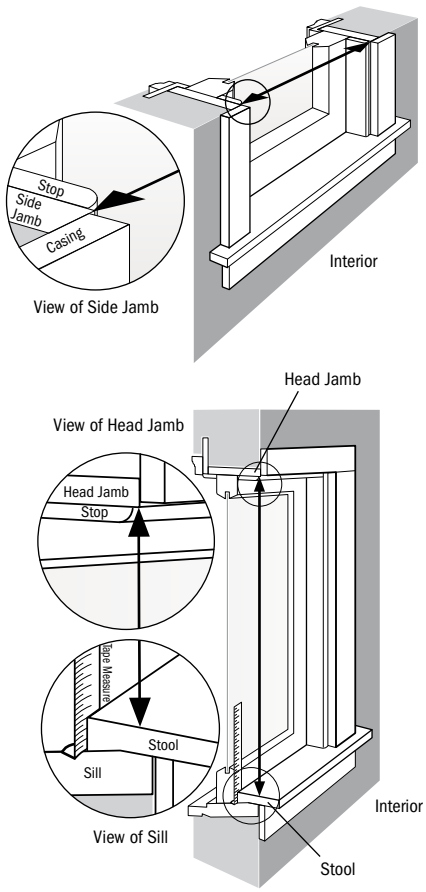


Horizontal Section

Existing Double-Hung Window



Existing Picture Window



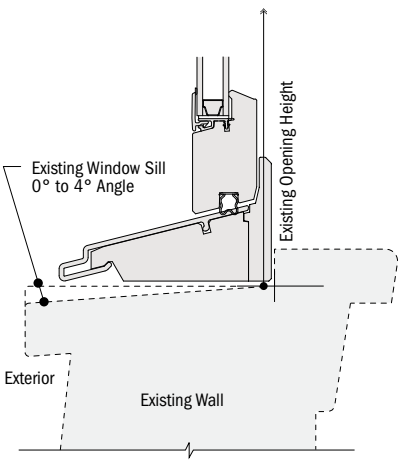
Sill Angle Details

Scale 3" (76) = 1'-0" (305) – 1:4

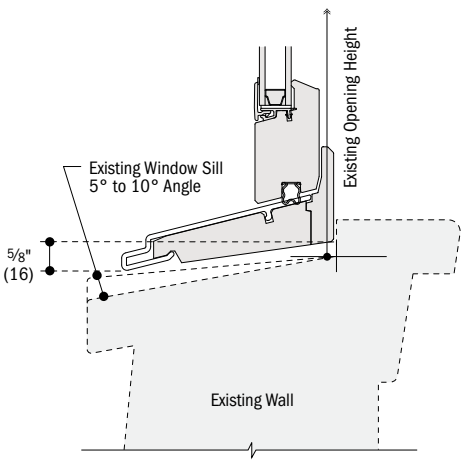
Select a sill angle that most closely matches your existing sill angle.

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

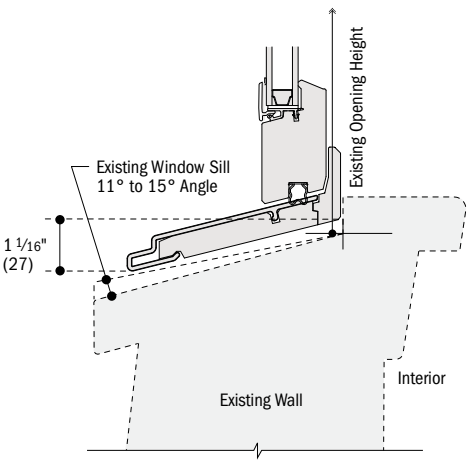
A “Sill Angle Finder App” is available, see page 90.



0° Sill



8° Sill



14° Sill

- 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.

TILT-WASH DOUBLE-HUNG INSERT WINDOWS

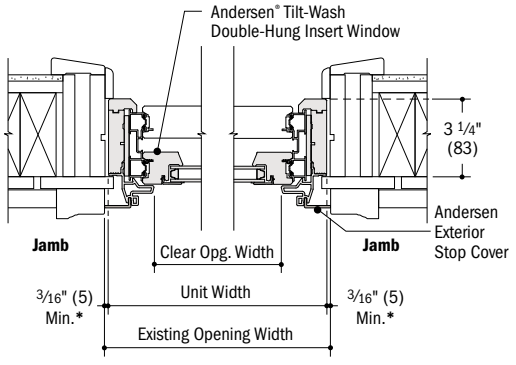
Grille Patterns

	Prairie A		Specified Equal Light			Prairie A	Specified Equal Light
Tilt-Wash Double-Hung Insert					**Tilt-Wash Transom Insert**		
	Equal	Cottage	Equal	Cottage	**Tilt-Wash Picture Insert**		

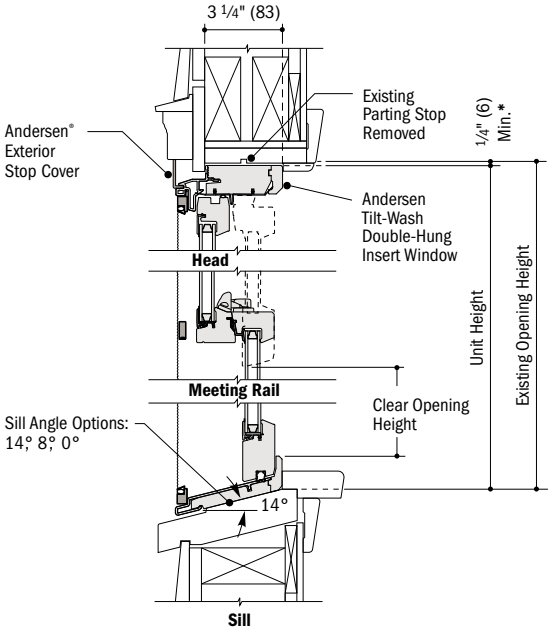
Patterns for double-hung windows are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double-hung window patterns, identify the sash style (equal, cottage or reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns not available in all configurations.** For more grille options, see page 14 or visit **andersenwindows.com/grilles**.

Tilt-Wash Double-Hung Insert Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section



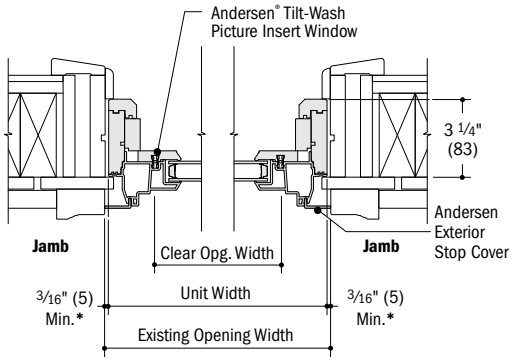
Vertical Section

- 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.

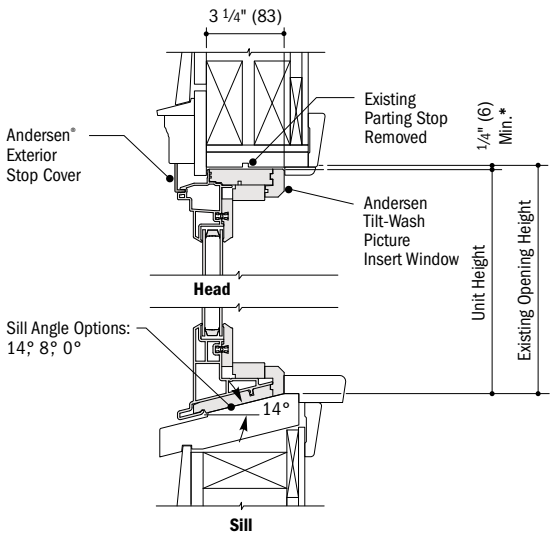
*Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for insert windows.

Tilt-Wash Picture Insert Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



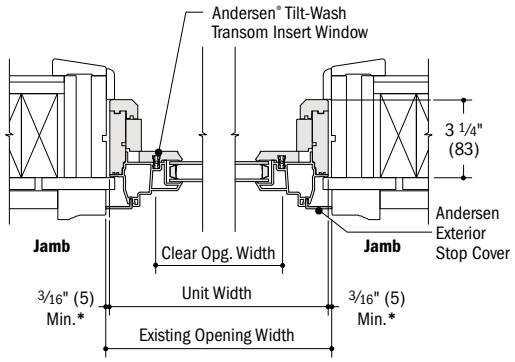
Horizontal Section



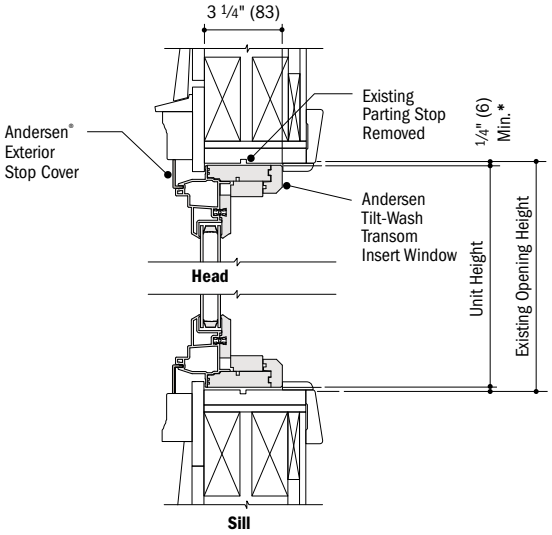
Vertical Section

Tilt-Wash Transom Insert Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section

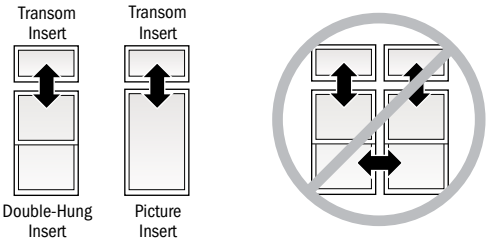


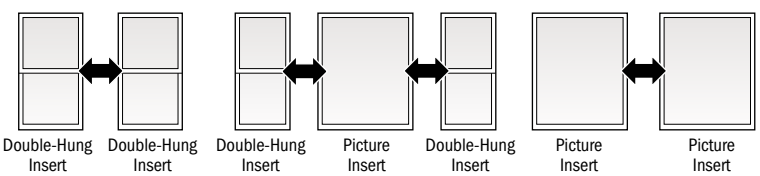
Vertical Section

Joining Combinations

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

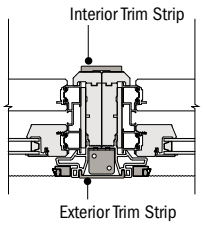
Do not join insert windows in two-way combinations.





Vertical (ribbon) Joining Detail

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section

Tilt-Wash Double-Hung Insert to Tilt-Wash Double-Hung Insert

For more joining information, see the combination designs section starting on page 181.

- 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.

NOTES

BAY & BOW WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FEATURES

CASEMENT BAY & BOW WINDOWS

Constructed using basic casement windows. Some options must be specified to complete an order. These include color, glass and hardware.

A Pre-milled mullion posts join individual casement windows together into 30° angle bay, 45° angle bay, 90° box bay and 10° bow window units. Mullion posts lock into a channel in each adjoining casement window for a sturdy, easy-to-install unit. The exterior is sheathed with vinyl cladding; the interior is trimmed in natural wood, which can be finished to enhance any décor.

B Andersen® auxiliary casing is supplied as trim to finish the top of 30° angle bay, 45° angle bay and 10° bow windows. Auxiliary casing is an option for 90° box bay windows.

C Platforms made of ¾" (19) plywood at the head and sill of bay and bow windows provide added strength to the assembly.

Custom bay and bow windows are available in a wide variety of unit configurations. See pages 104-105. Contact your Andersen supplier for details.

CUSTOM SIZES

Casement 30° Angle Bay Window

Casement 90° Box Bay Window

Casement 10° Bow Window

For casement window colors and hardware options, see page 20.

WOODWRIGHT® & TILT-WASH DOUBLE-HUNG BAY WINDOWS

Constructed using basic double-hung windows. Some options must be specified to complete an order. These include color and glass.

D Pre-milled mullion posts join individual units together into 30° angle bay and 45° angle bay window units for a sturdy, easy-to-install unit. The exterior is sheathed with vinyl cladding; the interior is trimmed in natural wood, which can be finished to enhance any décor.

E Andersen auxiliary casing is mitered, joined and installed as trim to finish the top of 30° and 45° angle bay windows. Cellular Fibrex® is covered in vinyl cladding.

F Platforms made of ¾" (19) plywood at the head and sill of bay and bow windows provide added strength to the assembly.

Double-Hung 45° Angle Bay Window

For Woodwright double-hung window colors and hardware options, see page 48. For tilt-wash double-hung window colors and hardware options, see page 76.

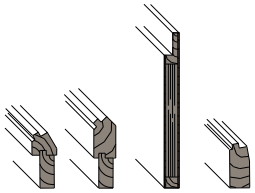
Dimensions in parentheses are in millimeters.

Installation of custom bay units having a projection greater than 24" (610) requires the expertise of a structural engineer to determine needed structural support. Failure to use sufficient structural support could result in personal injury or damage to windows or other property. Each cable within the system can support a maximum load of 500 lbs/227 kg. If the section of the window unit requiring support exceeds 1000 lbs/554 kg, additional support is needed.

ACCESSORIES Sold Separately. Please refer to individual product sections for a full list of options and accessories.

CASEMENT FRAME

Casement Extension Jambs & Extension Jamb Adaptors



Extension jambs and extension jamb adaptors are available in unfinished pine and prefinished white, dark bronze and black.

For 30° and 45° bay windows, extension jambs are available in ⅛" (3) increments between 4 9⁄16" (116) and 7 ⅛" (181). Some sizes may be veneered.

For box bay and bow windows, extension jambs are available in 1⁄16" (1.5) increments between 5 ¼" (133) and 7 ⅛" (181). For wall depths less than 5 ¼" (133), order 5 ¼" (133) extension jambs and trim to fit.

Casement Head & Seat Boards

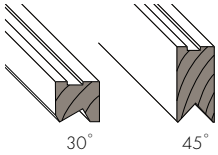
Head and seat boards are available in unfinished pine, maple, oak and prefinished white, dark bronze and black.

For 30° and 45° bay windows, head and seat boards are available in 1⁄16" (1.5) increments between 4 9⁄16" (116) and 7 ⅛" (181).

For box bay and bow windows, head and seat boards are available in 1⁄16" (1.5) increments between 5 ¼" (133) and 7 ⅛" (181). For wall depths less than 5 ¼" (133), order 5 ¼" (133) head and seat boards and trim to fit.

DOUBLE-HUNG FRAME

Double-Hung Extension Jambs & Extension Jamb Adaptors



Extension jambs and extension jamb adaptors are available in unfinished pine and prefinished white, dark bronze and black.

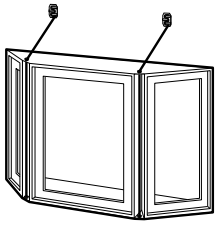
Jamb depth of the unit plus extension jamb adaptor is 4 ½" (114). Extension jambs are available in 1⁄16" (1.5) increments between 5 ¼" (133) and 7 ⅛" (181). Some sizes may be veneered.

Double-Hung Head & Seat Boards

Head and seat boards are available in unfinished pine, maple, oak and prefinished white, dark bronze and black. Available in 1⁄16" (1.5) increments to match wall thicknesses between 5 ¼" (133) and 7 ⅛" (181). Some sizes may be veneered.

INSTALLATION

Cable Support



A cable provides additional support. Recommended for installations that extend out from the structure without a framed support wall beneath the unit. Each cable within the system can support a maximum load of 500 lbs/227 kg. If the section of the window unit requiring support exceeds 1000 lbs/554 kg, additional support is necessary. Failure to use sufficient structural support could result in personal injury or damage to windows or other property.

⚠ WARNING

Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

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-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

Dimensions in parentheses are in millimeters.

Table of Casement 30° Angle Bay Windows

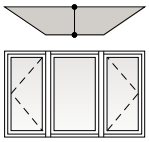
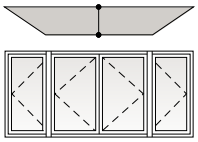
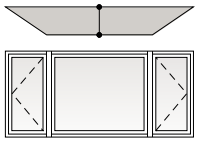
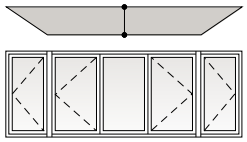
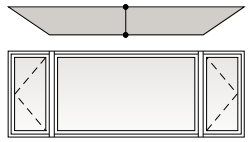
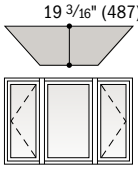
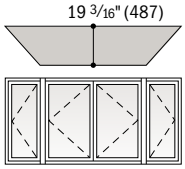
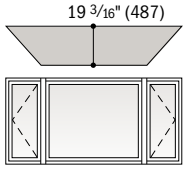
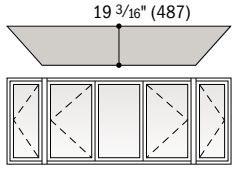
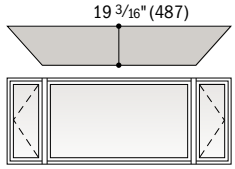
Projection	13 3/4" (349)	13 3/4" (349)	13 3/4" (349)	13 3/4" (349)	13 3/4" (349)
WIDTHS					
Bay Window Dimension	5'-10" (1778)	7'-9 7/8" (2384)	7'-9 7/8" (2384)	9'-9 3/4" (2991)	9'-9 3/4" (2991)
Minimum Rough Opening	5'-9 1/8" (1756)	7'-9" (2362)	7'-9" (2362)	9'-8 7/8" (2969)	9'-8 7/8" (2969)
HEIGHTS					
3'-1 7/16" (951) – 3'-2" (965)	30-**C**13-20	30-**C**23-20	30-**P**4030-20	30-**C**33-20	30-**P**6030-20
3'-6 5/16" (1075) – 3'-6 7/8" (1089)	30-**C**135-20	30-**C**235-20	30-**P**4035-20	30-**C**335-20	30-**P**6035-20
4'-1 1/2" (1257) – 4'-2" (1270)	30-**C**14-20	30-**C**24-20	30-**P**4040-20	30-**C**34-20	30-**P**6040-20
4'-6 5/16" (1380) – 4'-6 7/8" (1394)	30-**C**145-20	30-**C**245-20	30-**P**4045-20	30-**C**345-20	30-**P**6045-20
5'-1 3/8" (1559) – 5'-1 7/8" (1572)	30-**C**15-20	30-**C**25-20	30-**P**4050-20	30-**C**35-20	30-**P**6050-20
5'-6 5/16" (1684) – 5'-6 7/8" (1699)	30-**C**155-20	30-**C**255-20	30-**P**4055-20		
6'-1 3/8" (1864) – 6'-1 7/8" (1876)	30-**C**16-20	30-**C**26-20	30-**P**4060-20		

Table of Casement 45° Angle Bay Windows

Projection	19 3/16" (487)	19 3/16" (487)	19 3/16" (487)	19 3/16" (487)	19 3/16" (487)
WIDTHS					
Bay Window Dimension	5'-4 1/8" (1629)	7'-3 7/8" (2232)	7'-3 7/8" (2232)	9'-3 3/4" (2838)	9'-3 3/4" (2838)
Minimum Rough Opening	5'-2 5/8" (1591)	7'-2 1/2" (2197)	7'-2 1/2" (2197)	9'-2 3/8" (2804)	9'-2 3/8" (2804)
HEIGHTS					
3'-1 7/16" (951) – 3'-2" (965)	45-**C**13-20	45-**C**23-20	45-**P**4030-20	45-**C**33-20	45-**P**6030-20
3'-6 5/16" (1075) – 3'-6 7/8" (1089)	45-**C**135-20	45-**C**235-20	45-**P**4035-20	45-**C**335-20	45-**P**6035-20
4'-1 1/2" (1257) – 4'-2" (1270)	45-**C**14-20	45-**C**24-20	45-**P**4040-20	45-**C**34-20	45-**P**6040-20
4'-6 5/16" (1380) – 4'-6 7/8" (1394)	45-**C**145-20	45-**C**245-20	45-**P**4045-20	45-**C**345-20	45-**P**6045-20
5'-1 3/8" (1559) – 5'-1 7/8" (1572)	45-**C**15-20	45-**C**25-20	45-**P**4050-20	45-**C**35-20	45-**P**6050-20
5'-6 5/16" (1684) – 5'-6 7/8" (1699)	45-**C**155-20	45-**C**255-20	45-**P**4055-20		
6'-1 3/8" (1864) – 6'-1 7/8" (1876)	45-**C**16-20	45-**C**26-20	45-**P**4060-20		

⚠ WARNING

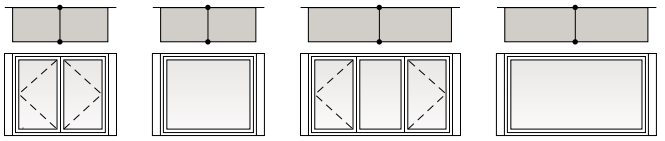
Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

Custom-size windows are available in 1/8" (3) increments. See pages 104-105 for more information.

In addition to venting shown in tables, other standard configurations are available. Choose left venting, right venting or stationary as viewed from the exterior.

- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Dimensions in parentheses are in millimeters.

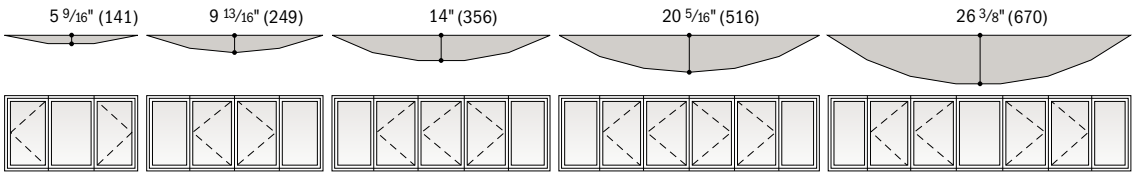
Table of Casement 90° Box Bay Windows

	Projection	22 15/16" (583)	22 15/16" (583)	22 15/16" (583)	22 15/16" (583)
	WIDTHS				
	Bay Window Dimension	4'-8 1/4" (1429)	4'-8 1/4" (1429)	6'-8 1/8" (2035)	6'-8 1/8" (2035)
	Minimum Rough Opening	4'-1 5/8" (1260)	4'-1 5/8" (1260)	6'-1 1/2" (1867)	6'-1 1/2" (1867)
HEIGHTS	3'-1 7/16" (951) / 3'-2" (965)	90-**C**23-15	90-**P**4030-15	90-**C**33-15	90-**P**6030-15
	3'-6 5/16" (1075) / 3'-6 7/8" (1089)	90-**C**235-15	90-**P**4035-15	90-**C**335-15	90-**P**6035-15
	4'-1 1/2" (1257) / 4'-2" (1270)	90-**C**24-15	90-**P**4040-15	90-**C**34-15	90-**P**6040-15
	4'-6 5/16" (1380) / 4'-6 7/8" (1394)	90-**C**245-15	90-**P**4045-15	90-**C**345-15	90-**P**6045-15
	5'-1 3/8" (1559) / 5'-1 7/8" (1572)	90-**C**25-15	90-**P**4050-15	90-**C**35-15	90-**P**6050-15
	5'-6 5/16" (1684) / 5'-6 7/8" (1699)	90-**C**255-15	90-**P**4055-15		
	6'-1 3/8" (1864) / 6'-1 7/8" (1876)	90-**C**26-15	90-**P**4060-15		

Custom-size windows are available in 1/8" (3) increments. See pages 104-105 for more information.

In addition to venting shown in tables, other standard configurations are available. Choose left venting, right venting or stationary as viewed from the exterior.

Table of Casement 10° Bow Windows

	Projection	5 9/16" (141)	9 13/16" (249)	14" (356)	20 5/16" (516)	26 3/8" (670)
	WIDTHS					
	Bow Window Dimension	6'-1 9/16" (1868)	8'-1 9/16" (2478)	10'-0 3/4" (3067)	11'-11 1/16" (3634)	13'-8 5/16" (4174)
	Minimum Rough Opening	6'-1 5/8" (1862)	8'-1 3/8" (2473)	10'-0 3/8" (3058)	11'-10 1/2" (3620)	13'-7 1/2" (4153)
HEIGHTS	3'-1 7/16" (951) / 3'-2" (965)	**C**33 **BOW**	**C**43 **BOW**	**C**53 **BOW**	**C**63 **BOW**	**C**73 **BOW**
	3'-6 5/16" (1075) / 3'-6 7/8" (1089)	**C**335 **BOW**	**C**435 **BOW**	**C**535 **BOW**	**C**635 **BOW**	**C**735 **BOW**
	4'-1 1/2" (1257) / 4'-2" (1270)	**C**34 **BOW**	**C**44 **BOW**	**C**54 **BOW**	**C**64 **BOW**	**C**74 **BOW**
	4'-6 5/16" (1380) / 4'-6 7/8" (1394)	**C**345 **BOW**	**C**445 **BOW**	**C**545 **BOW**	**C**645 **BOW**	**C**745 **BOW**
	5'-1 3/8" (1559) / 5'-1 7/8" (1572)	**C**35 **BOW**	**C**45 **BOW**	**C**55 **BOW**	**C**65 **BOW**	**C**75 **BOW**
	5'-6 5/16" (1684) / 5'-6 7/8" (1699)	**C**355 **BOW**	**C**455 **BOW**	**C**555 **BOW**	**C**655 **BOW**	**C**755 **BOW**
	6'-1 3/8" (1864) / 6'-1 7/8" (1876)	**C**36 **BOW**	**C**46 **BOW**	**C**56 **BOW**	**C**66 **BOW**	**C**76 **BOW**

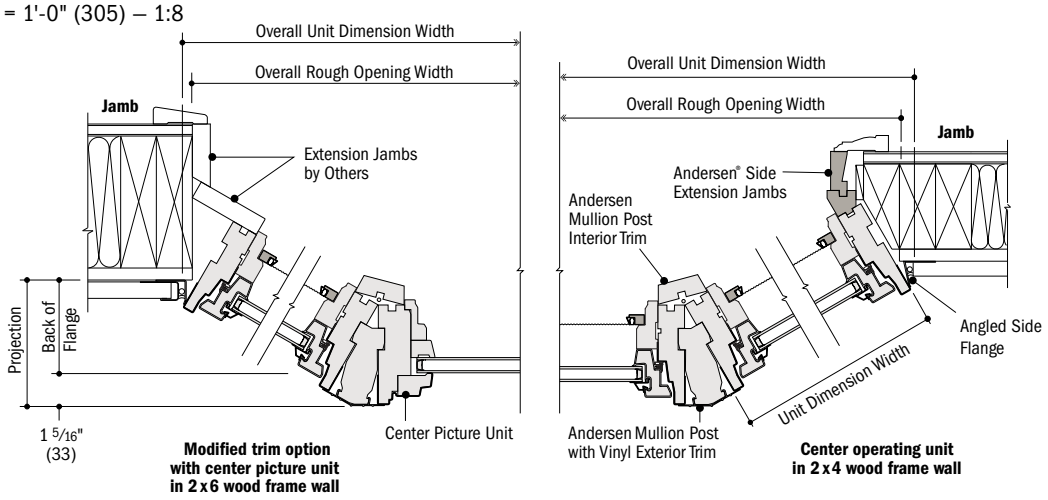
⚠ WARNING

Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Dimensions in parentheses are in millimeters.

Casement 30° Angle Bay Window Detail

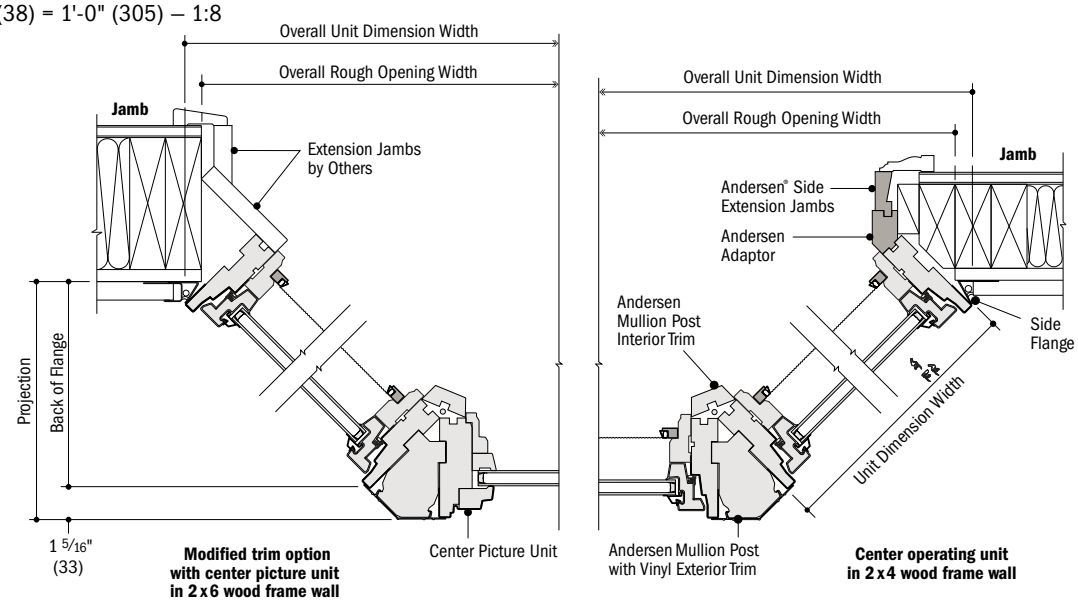
Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

Casement 45° Angle Bay Window Detail

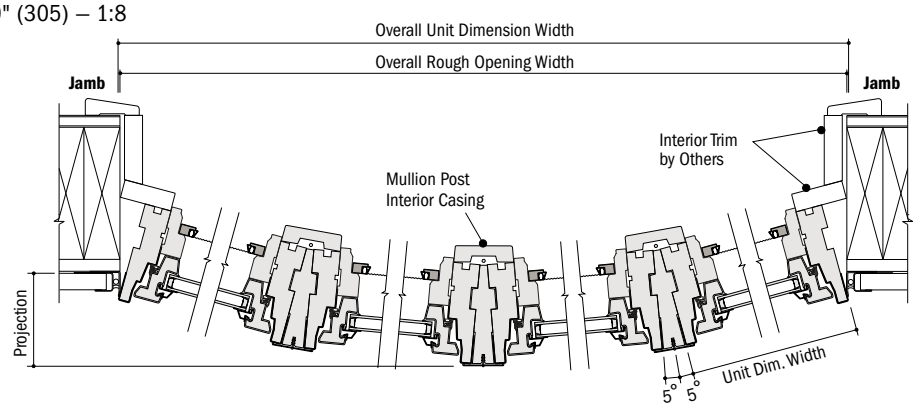
Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

Casement 10° Bow Window Detail

Scale 1½" (38) = 1'-0" (305) – 1:8

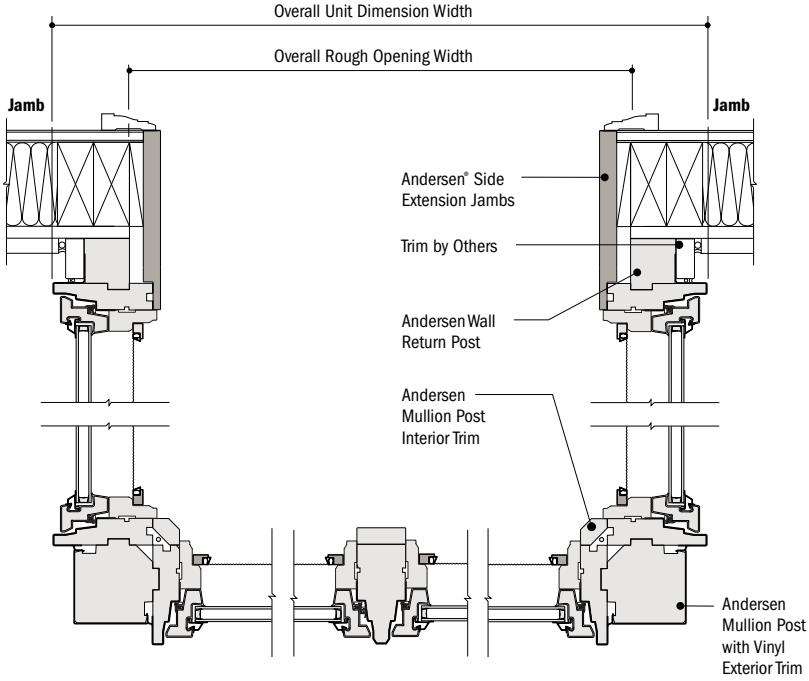


Horizontal Section

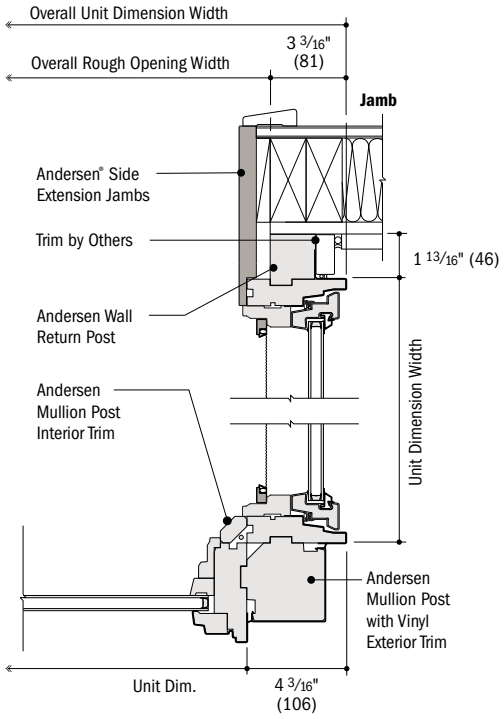
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to unit installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Casement 90° Box Bay Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



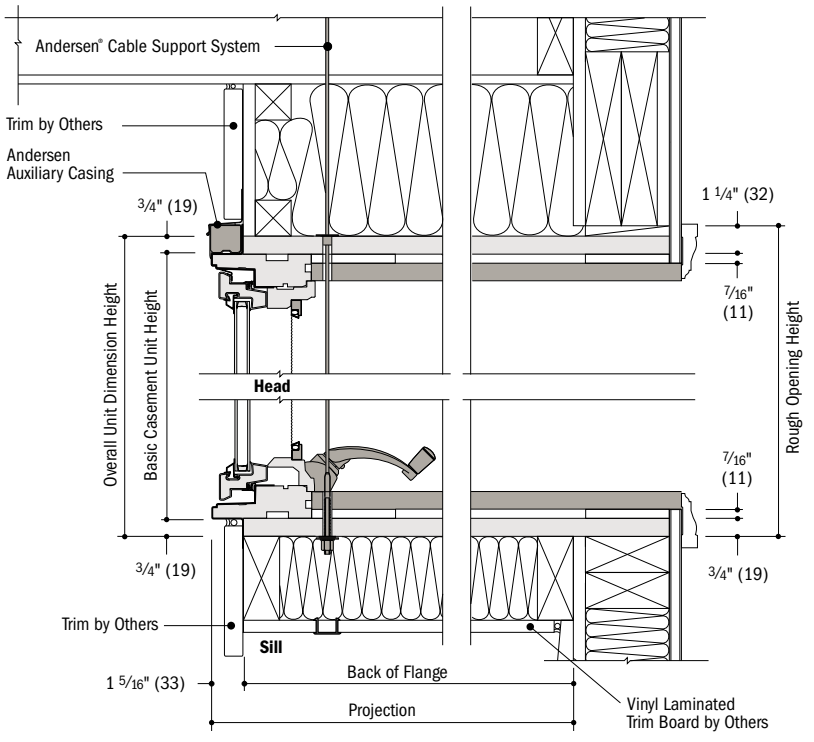
Horizontal Section
Center Venting Window



Horizontal Section
Center Picture Window

Casement 30° and 45°Angle Bay, 10° Bow and 90° Box Bay Window Detail

Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to unit installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

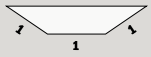
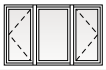
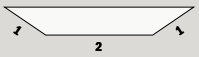
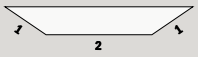
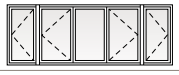
BAY & BOW WINDOWS

Individual window units are available custom sized in 1/8" (3) increments.

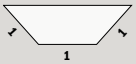
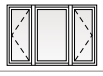
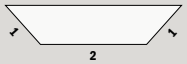
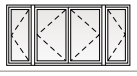
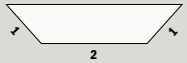
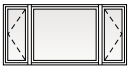
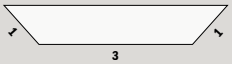
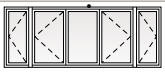
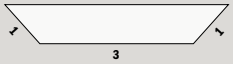
In addition to venting shown in tables, other standard configurations are available. Choose left venting, right venting or stationary as viewed from the exterior.

Measurement guide can be found at **andersenwindows.com/measure**.

Custom Casement 30° Angle Bay Window Size and Projection Range

Sash Ratio Window Configuration	Center Window Venting Configuration	Bay Window Dimension					Projection	
		Minimum Width Inches/(mm)	Maximum Width Inches/(mm)		Minimum Height Inches/(mm)	Maximum Height Inches/(mm)	Minimum Inches/(mm)	Maximum Inches/(mm)
1:1:1 	Venting or Stationary 	50" (1270)	101 1/2" (2578)	x	26 1/8" (664)	73 7/8" (1876)	10 1/4" (260)	19 5/8" (498)
1:2:1 	Venting or Stationary 	67 3/8" (1711)	137 1/2" (3493)	x	26 1/8" (664)	73 7/8" (1876)	10 1/4" (260)	19 5/8" (498)
1:2:1 	Picture 	70 7/8" (1800)	115 1/4" (2927)	x	38" (965)	73 7/8" (1876)	10 3/4" (273)	16 5/8" (422)
		115 1/4" (2927)	137 5/8" (3496)	x	38" (965)	61 7/8" (1571)	16 5/8" (422)	19 5/8" (498)
1:3:1 	Venting or Stationary 	84 1/2" (2146)	144" (3658)	x	26 1/8" (664)	73 7/8" (1876)	10 1/4" (260)	16 1/2" (419)
1:3:1 	Picture 	83 7/8" (2130)	97 7/8" (2486)	x	38" (965)	73 7/8" (1876)	10 1/4" (260)	11 5/8" (295)
		97 7/8" (2486)	116 7/8" (2969)	x	38" (965)	61 7/8" (1571)	11 5/8" (295)	13 5/8" (346)

Custom Casement 45° Angle Bay Window Size and Projection Range

Sash Ratio Window Configuration	Center Window Venting Configuration	Bay Window Dimension					Projection	
		Minimum Width Inches/(mm)	Maximum Width Inches/(mm)		Minimum Height Inches/(mm)	Maximum Height Inches/(mm)	Minimum Inches/(mm)	Maximum Inches/(mm)
1:1:1 	Venting or Stationary 	45 3/4" (1162)	91 1/4" (2318)	x	26 1/8" (664)	73 7/8" (1876)	14 3/16" (360)	27 1/2" (699)
1:2:1 	Venting or Stationary 	63" (1600)	127 1/4" (3232)	x	26 1/8" (664)	73 7/8" (1876)	14 1/4" (362)	27 1/2" (699)
1:2:1 	Picture 	66" (1676)	106 7/8" (2715)	x	38" (965)	73 7/8" (1876)	14 7/8" (378)	23 1/4" (591)
		106 7/8" (2715)	127 1/4" (3232)	x	38" (965)	61 7/8" (1571)	23 1/4" (591)	27 1/2" (699)
1:3:1 	Venting or Stationary 	80 1/8" (2035)	144" (3658)	x	26 1/8" (664)	73 7/8" (1876)	14 1/4" (362)	24 5/16" (618)
1:3:1 	Picture 	79 5/8" (2023)	92 3/4" (2356)	x	38" (965)	73 7/8" (1876)	14 3/16" (360)	16 1/4" (413)
		92 3/4" (2356)	110 3/8" (2804)	x	38" (965)	61 7/8" (1571)	16 1/4" (413)	19" (483)

⚠ WARNING

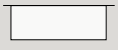
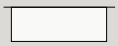
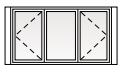
Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for custom-size windows.
- Dimensions in parentheses are in millimeters.

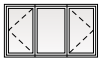
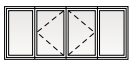
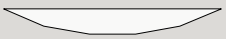
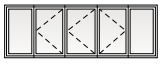
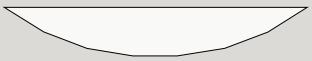
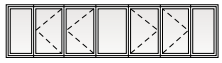
Individual window units are available custom sized in 1/8" (3) increments.

In addition to venting shown in tables, other standard configurations are available. Choose left venting, right venting or stationary as viewed from the exterior. Measurement guide can be found at **andersenwindows.com/measure**.

Custom Casement 90° Box Bay Window Size and Projection Range

Window Configuration	Center Window Venting Configuration	Bay Window Dimension					Flanker		Projection	
		Minimum Width Inches/(mm)	Maximum Width Inches/(mm)		Minimum Height Inches/(mm)	Maximum Height Inches/(mm)	Minimum Width Inches/(mm)	Maximum Width Inches/(mm)	Minimum Depth Inches/(mm)	Maximum Depth Inches/(mm)
	Picture 	38 1/4" (972)	61 7/8" (1572)	x	38" (965)	73 7/8" (1876)	17" (432)	35 7/8" (911)	21 1/2" (546)	40 3/8" (1026)
	Picture 	61 7/8" (1572)	74 1/8" (1883)	x	38" (965)	61 7/8" (1572)	17" (432)	35 7/8" (911)	21 1/2" (546)	40 3/8" (1026)
	Venting or Stationary 	36 3/8" (924)	74 1/4" (1886)	x	26 1/8" (664)	73 7/8" (1876)	17" (432)	35 7/8" (911)	21 1/2" (546)	40 3/8" (1026)
	Venting or Stationary 	53 1/2" (1359)	110 3/8" (2804)	x	26 1/8" (664)	73 7/8" (1876)	17" (432)	35 7/8" (911)	21 1/2" (546)	40 3/8" (1026)

Custom Casement 10° Bow Window Size and Projection Range

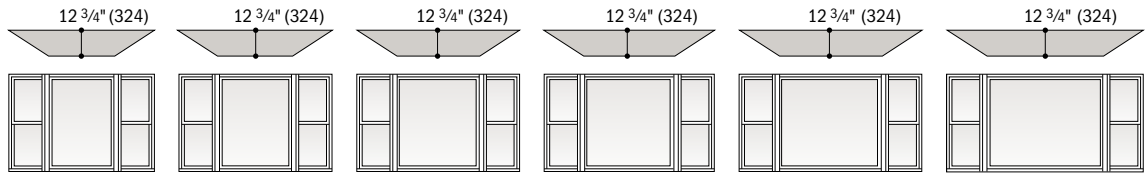
Window Configuration	Center Window Venting Configuration	Bow Window Dimension					Projection	
		Minimum Width Inches/(mm)	Maximum Width Inches/(mm)		Minimum Height Inches/(mm)	Maximum Height Inches/(mm)	Minimum Depth Inches/(mm)	Maximum Depth Inches/(mm)
3-Wide	Venting or Stationary 	52 1/2" (1334)	108 7/8" (2765)	x	26 1/8" (664)	73 7/8" (1876)	4 3/8" (111)	7 5/8" (194)
4-Wide 	Venting or Stationary 	69 1/2" (1765)	143 7/8" (3654)	x	26 1/8" (664)	73 7/8" (1876)	7 3/8" (187)	13 7/8" (352)
5-Wide 	Venting or Stationary 	85 7/8" (2181)	164 1/4" (4172)	x	26 1/8" (664)	73 7/8" (1876)	10 3/8" (264)	18 5/8" (473)
6-Wide 	Venting or Stationary 	101 5/8" (2581)	164 1/4" (4172)	x	26 1/8" (664)	73 7/8" (1876)	14 7/8" (378)	23 3/16" (589)
7-Wide 	Venting or Stationary 	116 5/8" (2962)	164 1/4" (4172)	x	26 1/8" (664)	73 7/8" (1876)	19 3/16" (487)	26 3/8" (670)

⚠ WARNING

Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

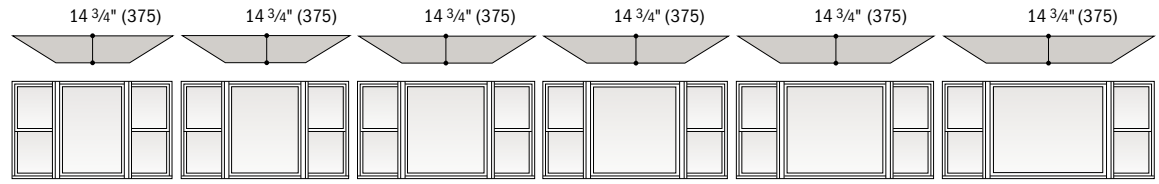
- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Refer to andersenwindows.com/measure for detailed instructions on how to properly measure for custom-size windows.
- Dimensions in parentheses are in millimeters.

Table of Double-Hung 30° Angle Bay Window Sizes with Picture Window and 1-8 Flanking Windows



HEIGHTS	WIDTHS	Projection	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)
		Bay Window Dimension	6'-8 15/16" (2056)	7'-0 15/16" (2157)	7'-6 5/8" (2302)	7'-10 5/8" (2403)	8'-6 5/8" (2607)	9'-2 5/8" (2810)
		Minimum Rough Opening	6'-8 1/8" (2035)	7'-0 1/8" (2137)	7'-5 3/4" (2280)	7'-9 3/4" (2381)	8'-5 3/4" (2584)	9'-1 3/4" (2788)
	4'-2 1/4" (1276) / 4'-2 3/4" (1289)		30-30310-18		30-310310-18	30-42310-18	30-410310-18	
	4'-6 1/4" (1378) / 4'-6 3/4" (1391)		30-3042-18	30-3442-18	30-31042-18	30-4242-18	30-41042-18	30-5642-18
	4'-10 1/4" (1480) / 4'-10 3/4" (1492)		30-3046-18	30-3446-18	30-31046-18	30-4246-18	30-41046-18	30-5646-18
	5'-6 1/4" (1683) / 5'-6 3/4" (1695)		30-3052-18		30-31052-18	30-4252-18	30-41052-18	
	5'-10 1/4" (1784) / 5'-10 3/4" (1797)				30-31056-18	30-4256-18		
	6'-6 1/4" (1988) / 6'-6 3/4" (2000)				30-31062-18	30-4262-18		

Table of Double-Hung 30° Angle Bay Window Sizes with Picture Window and 2-0 Flanking Windows



HEIGHTS	WIDTHS	Projection	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)
		Bay Window Dimension	7'-3 7/8" (2232)	7'-7 7/8" (2334)	8'-1 9/16" (2478)	8'-5 9/16" (2580)	9'-1 9/16" (2783)	9'-9 9/16" (2986)
		Minimum Rough Opening	7'-3" (2210)	7'-7" (2311)	8'-0 3/4" (2457)	8'-4 3/4" (2559)	9'-0 3/4" (2762)	9'-8 3/4" (2965)
	4'-2 1/4" (1276) / 4'-2 3/4" (1289)		30-30310-20		30-310310-20	30-42310-20	30-410310-20	
	4'-6 1/4" (1378) / 4'-6 3/4" (1391)		30-3042-20	30-3442-20	30-31042-20	30-4242-20	30-41042-20	30-5642-20
	4'-10 1/4" (1480) / 4'-10 3/4" (1492)		30-3046-20	30-3446-20	30-31046-20	30-4246-20	30-41046-20	30-5646-20
	5'-6 1/4" (1683) / 5'-6 3/4" (1695)		30-3052-20		30-31052-20	30-4252-20	30-41052-20	
	5'-10 1/4" (1784) / 5'-10 3/4" (1797)				30-31056-20	30-4256-20		
	6'-6 1/4" (1988) / 6'-6 3/4" (2000)				30-31062-20	30-4262-20		

⚠ WARNING

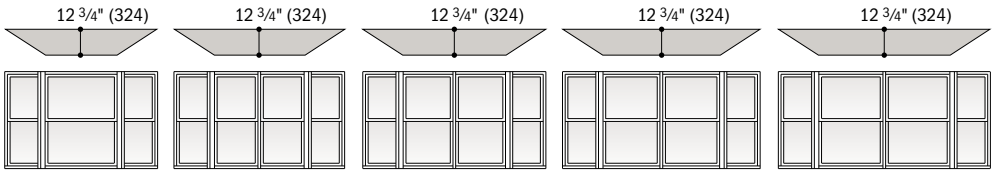
Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

Ordering Prefix:

WDH	400 Series Woodwright® Double-Hung Window
WPW	400 Series Woodwright Picture Window
TW	400 Series Tilt-Wash Double-Hung Window
DHP	400 Series Tilt-Wash Picture Window

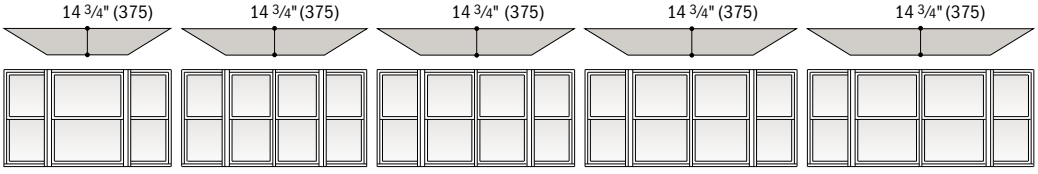
- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Dimensions in parentheses are in millimeters.

Table of Double-Hung 30° Angle Bay Window Sizes with 1-8 Flanking Double-Hung Windows



Projection	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)	12 3/4" (324)
WIDTHS					
	7'-0 15/16" (2157)	7'-10 5/8" (2403)	8'-6 5/8" (2599)	9'-2 5/8" (2810)	9'-10 5/8" (3013)
Minimum Rough Opening	7'-0 1/8" (2137)	7'-9 3/4" (2581)	8'-5 3/4" (2584)	9'-1 3/4" (2788)	9'-9 3/4" (2991)
HEIGHTS					
4'-2 1/4" (1276) / 4'-2 3/4" (1289)	30-34310-18	30-20310-2-18	30-24310-2-18	30-28310-2-18	30-30310-2-18
4'-6 1/4" (1378) / 4'-6 3/4" (1391)	30-3442-18	30-2042-2-18	30-2442-2-18	30-2842-2-18	30-3042-2-18
4'-10 1/4" (1480) / 4'-10 3/4" (1492)	30-3446-18	30-2046-2-18	30-2446-2-18	30-2846-2-18	30-3046-2-18
5'-6 1/4" (1683) / 5'-6 3/4" (1695)	30-3452-18	30-2052-2-18	30-2452-2-18	30-2852-2-18	30-3052-2-18
5'-10 1/4" (1784) / 5'-10 3/4" (1797)	30-3456-18	30-2056-2-18	30-2456-2-18	30-2856-2-18	30-3056-2-18
6'-6 1/4" (1988) / 6'-6 3/4" (2000)	30-3462-18	30-2062-2-18	30-2462-2-18	30-2862-2-18	30-3062-2-18

Table of Double-Hung 30° Angle Bay Window Sizes with 2-0 Flanking Double-Hung Windows



Projection	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)	14 3/4" (375)
WIDTHS					
	7'-7 7/8" (2334)	8'-5 9/16" (2580)	9'-1 9/16" (2783)	9'-9 9/16" (2986)	10'-5 9/16" (3189)
Minimum Rough Opening	7'-7" (2311)	8'-4 3/4" (2559)	9'-0 3/4" (2762)	9'-8 3/4" (2965)	10'-4 3/4" (3169)
HEIGHTS					
4'-2 1/4" (1276) / 4'-2 3/4" (1289)	30-34310-20	30-20310-2-20	30-24310-2-20	30-28310-2-20	30-30310-2-20
4'-6 1/4" (1378) / 4'-6 3/4" (1391)	30-3442-20	30-2042-2-20	30-2442-2-20	30-2842-2-20	30-3042-2-20
4'-10 1/4" (1480) / 4'-10 3/4" (1492)	30-3446-20	30-2046-2-20	30-2446-2-20	30-2846-2-20	30-3046-2-20
5'-6 1/4" (1683) / 5'-6 3/4" (1695)	30-3452-20	30-2052-2-20	30-2452-2-20	30-2852-2-20	30-3052-2-20
5'-10 1/4" (1784) / 5'-10 3/4" (1797)	30-3456-20	30-2056-2-20	30-2456-2-20	30-2856-2-20	30-3056-2-20
6'-6 1/4" (1988) / 6'-6 3/4" (2000)	30-3462-20	30-2062-2-20	30-2462-2-20	30-2862-2-20	30-3062-2-20

⚠ WARNING

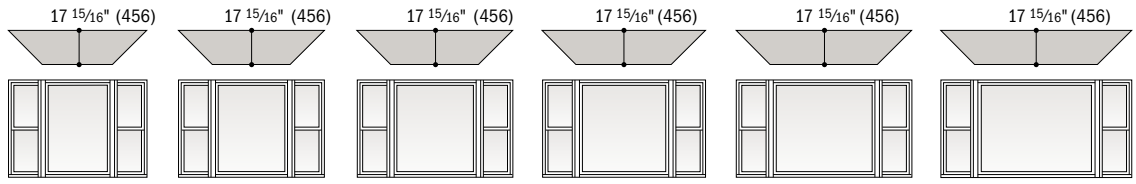
Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

Ordering Prefix:

WDH	400 Series Woodwright® Double-Hung Window
WPW	400 Series Woodwright Picture Window
TW	400 Series Tilt-Wash Double-Hung Window
DHP	400 Series Tilt-Wash Picture Window

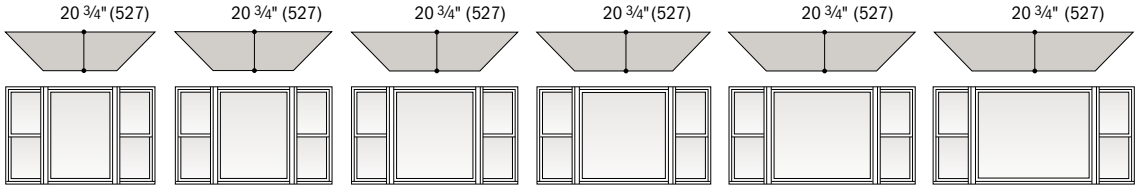
- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Dimensions in parentheses are in millimeters.

Table of Double-Hung 45° Angle Bay Window Sizes with Picture Window and 1-8 Flanking Windows



HEIGHTS	WIDTHS					
	Projection	17 15/16" (456)	17 15/16" (456)	17 15/16" (456)	17 15/16" (456)	17 15/16" (456)	17 15/16" (456)
	Bay Window Dimension	6'-4 7/16" (1942)	6'-8 7/16" (2043)	7'-2 1/8" (2188)	7'-6 1/8" (2289)	8'-2 1/8" (2492)	8'-10 1/8" (2696)
	Minimum Rough Opening	6'-3 1/8" (1908)	6'-7 1/8" (2010)	7'-0 3/4" (2153)	7'-4 3/4" (2254)	8'-0 3/4" (2457)	8'-8 3/4" (2661)
4'-2 1/4" (1276) / 4'-2 3/4" (1289)		45-30310-18		45-310310-18	45-42310-18	45-410310-18	
4'-6 1/4" (1378) / 4'-6 3/4" (1391)		45-3042-18	45-3442-18	45-31042-18	45-4242-18	45-41042-18	45-5642-18
4'-10 1/4" (1480) / 4'-10 3/4" (1492)		45-3046-18	45-3446-18	45-31046-18	45-4246-18	45-41046-18	45-5646-18
5'-6 1/4" (1683) / 5'-6 3/4" (1695)		45-3052-18		45-31052-18	45-4252-18	45-41052-18	
5'-10 1/4" (1784) / 5'-10 3/4" (1797)				45-31056-18	45-4256-18		
6'-6 1/4" (1988) / 6'-6 3/4" (2000)				45-31062-18	45-4262-18		

Table of Double-Hung 45° Angle Bay Window Sizes with Picture Window and 2-0 Flanking Windows



HEIGHTS	WIDTHS					
	Projection	20 3/4" (527)	20 3/4" (527)	20 3/4" (527)	20 3/4" (527)	20 3/4" (527)	20 3/4" (527)
	Bay Window Dimension	6'-10 1/8" (2086)	7'-2 1/8" (2188)	7'-7 13/16" (2332)	7'-11 13/16" (2434)	8'-7 13/16" (2637)	9'-3 13/16" (2840)
	Minimum Rough Opening	6'-8 3/4" (2051)	7'-0 3/4" (2153)	7'-6 1/2" (2299)	7'-10 1/2" (2400)	8'-6 1/2" (2604)	9'-2 1/2" (2807)
4'-2 1/4" (1276) / 4'-2 3/4" (1289)		45-30310-20		45-310310-20	45-42310-20	45-410310-20	
4'-6 1/4" (1378) / 4'-6 3/4" (1391)		45-3042-20	45-3442-20	45-31042-20	45-4242-20	45-41042-20	45-5642-20
4'-10 1/4" (1480) / 4'-10 3/4" (1492)		45-3046-20	45-3446-20	45-31046-20	45-4246-20	45-41046-20	45-5646-20
5'-6 1/4" (1683) / 5'-6 3/4" (1695)		45-3052-20		45-31052-20	45-4252-20	45-41052-20	
5'-10 1/4" (1784) / 5'-10 3/4" (1797)				45-31056-20	45-4256-20		
6'-6 1/4" (1988) / 6'-6 3/4" (2000)				45-31062-20	45-4262-20		

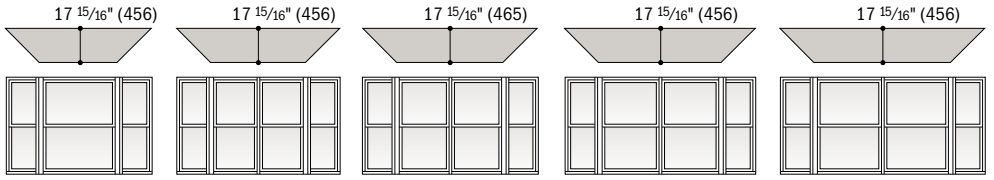
⚠ WARNING

Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

WDH 400 Series Woodwright® Double-Hung Window
WPW 400 Series Woodwright Picture Window
TW 400 Series Tilt-Wash Double-Hung Window
DHP 400 Series Tilt-Wash Picture Window

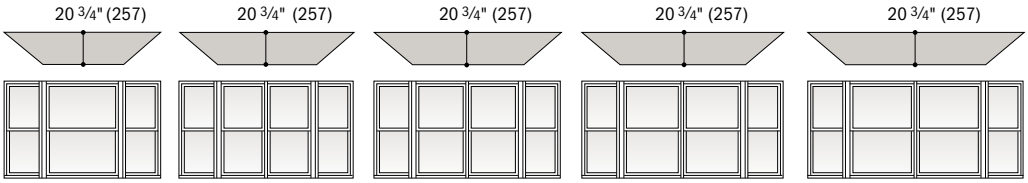
- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Dimensions in parentheses are in millimeters.

Table of Double-Hung 45° Angle Bay Window Sizes with 1-8 Flanking Windows



HEIGHTS	WIDTHS					
	Projection	17 15/16" (456)	17 15/16" (456)	17 15/16" (465)	17 15/16" (456)	17 15/16" (456)
	Bay Window Dimension	6'-8 7/16" (2043)	7'-6 1/8" (2289)	8'-2 1/8" (2492)	8'-10 1/8" (2696)	9'-6 1/8" (2899)
	Minimum Rough Opening	6'-7 1/8" (2010)	7'-4 7/8" (2257)	8'-0 3/4" (2445)	8'-8 3/4" (2661)	9'-4 3/4" (2864)
	4'-2 1/4" (1276) / 4'-2 3/4" (1289)	45-34310-18	45-20310-2-18	45-24310-2-18	45-28310-2-18	45-30310-2-18
	4'-6 1/4" (1378) / 4'-6 3/4" (1391)	45-3442-18	45-2042-2-18	45-2442-2-18	45-2842-2-18	45-3042-2-18
	4'-10 1/4" (1480) / 4'-10 3/4" (1492)	45-3446-18	45-2046-2-18	45-2446-2-18	45-2846-2-18	45-3046-2-18
	5'-6 1/4" (1683) / 5'-6 3/4" (1695)	45-3452-18	45-2052-2-18	45-2452-2-18	45-2852-2-18	45-3052-2-18
	5'-10 1/4" (1784) / 5'-10 3/4" (1797)	45-3456-18	45-2056-2-18	45-2456-2-18	45-2856-2-18	45-3056-2-18
	6'-6 1/4" (1988) / 6'-6 3/4" (2000)	45-3462-18	45-2062-2-18	45-2462-2-18	45-2862-2-18	45-3062-2-18

Table of Double-Hung 45° Angle Bay Window Sizes with 2-0 Flanking Windows



HEIGHTS	WIDTHS					
	Projection	20 3/4" (257)	20 3/4" (257)	20 3/4" (257)	20 3/4" (257)	20 3/4" (257)
	Bay Window Dimension	7'-2 1/8" (2188)	7'-11 13/16" (2434)	8'-7 13/16" (2637)	9'-3 13/16" (2840)	9'-11 13/16" (3043)
	Minimum Rough Opening	7'-0 3/4" (2153)	7'-10 1/2" (2400)	8'-6 1/2" (2604)	9'-2 1/2" (2807)	9'-10 1/2" (3010)
	4'-2 1/4" (1276) / 4'-2 3/4" (1289)	45-34310-20	45-20310-2-20	45-24310-2-20	45-28310-2-20	45-30310-2-20
	4'-6 1/4" (1378) / 4'-6 3/4" (1391)	45-3442-20	45-2042-2-20	45-2442-2-20	45-2842-2-20	45-3042-2-20
	4'-10 1/4" (1480) / 4'-10 3/4" (1492)	45-3446-20	45-2046-2-20	45-2446-2-20	45-2846-2-20	45-3046-2-20
	5'-6 1/4" (1683) / 5'-6 3/4" (1695)	45-3452-20	45-2052-2-20	45-2452-2-20	45-2852-2-20	45-3052-2-20
	5'-10 1/4" (1784) / 5'-10 3/4" (1797)	45-3456-20	45-2056-2-20	45-2456-2-20	45-2856-2-20	45-3056-2-20
	6'-6 1/4" (1988) / 6'-6 3/4" (2000)	45-3462-20	45-2062-2-20	45-2462-2-20	45-2862-2-20	45-3062-2-20

⚠ WARNING

Proper support of projecting bow and bay windows is required, see installation instructions. Failure to do so may result in injury, product or property damage.

Ordering Prefix:

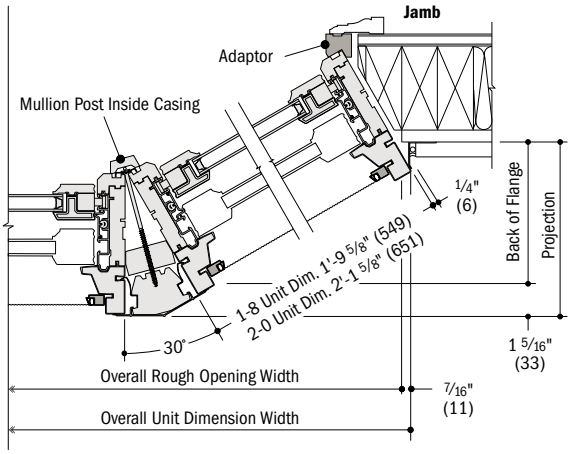
WDH	400 Series Woodwright® Double-Hung Window
WPW	400 Series Woodwright Picture Window
TW	400 Series Tilt-Wash Double-Hung Window
DHP	400 Series Tilt-Wash Picture Window

- "Projection" refers to outside of the exterior sheathing to the outer edge of the window.
- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- One Andersen® cable kit, with two cables, is included with the unit for proper installation. Each cable supports a maximum load of 500 lbs/227 kg; additional support is necessary for loads exceeding 1000 lbs/454 kg.
- Angle bay and bow windows include only the basic unit. Roof and other installation materials provided by other manufacturers.
- For walkout angle bay and bow window details and installation guidelines, contact your Andersen supplier.
- Dimensions in parentheses are in millimeters.

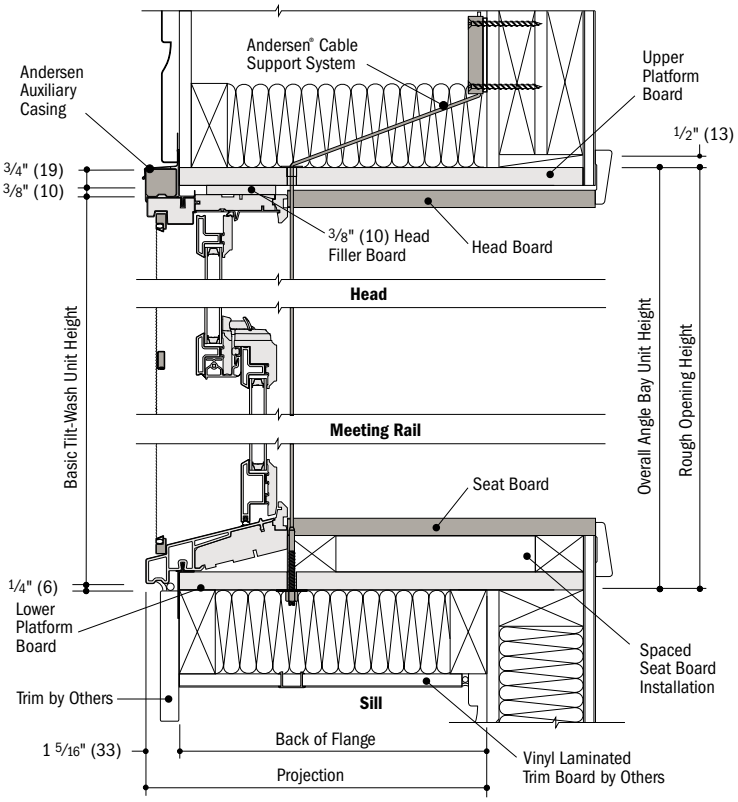
Double-Hung 30° Angle Bay Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8

Woodwright® double-hung 30° angle bay window shown. Tilt-wash double-hung 30° angle bay window installation is similar.



Horizontal Section

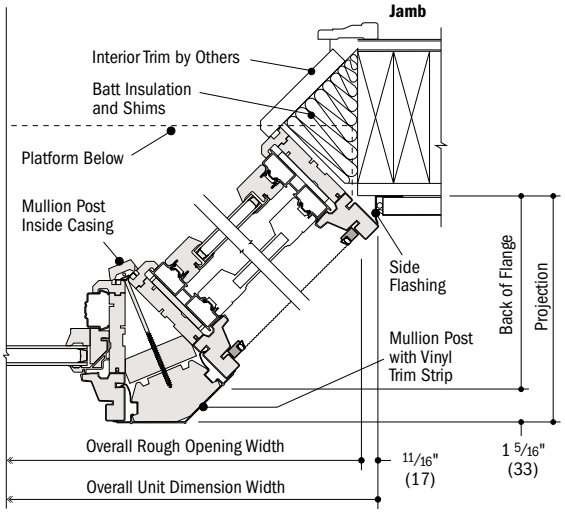


Vertical Section

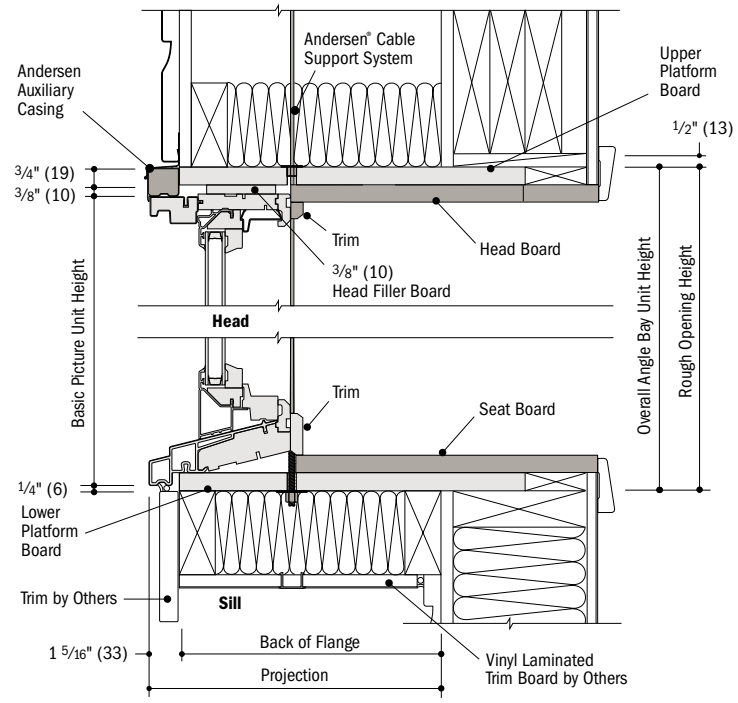
Double-Hung 45° Angle Bay Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8

Tilt-wash double-hung 30° angle bay window shown. Woodwright double-hung 30° angle bay window installation is similar.



Horizontal Section



Vertical Section

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to unit installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

GLIDING WINDOWS

FEATURES

FRAME

Ⓐ The exterior of the frame is covered with fiberglass to maintain an attractive appearance while minimizing maintenance.

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

Ⓒ Flexible bulb weatherstrip and spring-tension vinyl are installed at the factory, and help provide a tight seal between the sash and frame.

Ⓓ Fold-out-and-lock installation flanges accommodate 4 ½" (114) and 4 ⅛" (105) wall construction.

SASH

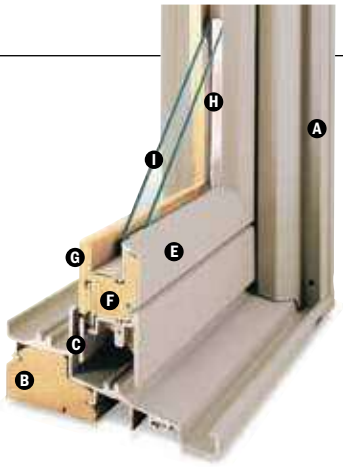
Ⓔ For improved ventilation, both sash are operable. Rigid vinyl encases the entire sash. A vinyl weld protects each sash corner for superior weathertightness to maintain an attractive appearance and minimize maintenance.

Ⓕ Natural wood sash members help provide excellent structural stability and energy efficiency.

Ⓖ Interior stops are unfinished pine. Low-maintenance prefinished white, Sandtone, dark bronze and black** interiors are also available.

Delrin® Glides

Teflon®-infused Delrin glides are self-lubricating and require only 8 lbs/3.6 kg of force to operate. A stainless steel spring within the glide provides years* of reliable operation – even in harsh environments.



GLASS

Ⓗ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓘ High-Performance options include:

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

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

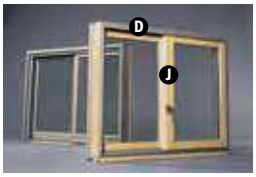
A removable translucent film helps shield the glass from damage during delivery and construction, and simplifies finishing at the job site.

Patterned Glass

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

HARDWARE

Locking System



Ⓙ For an added measure of security and increased weathertightness, the locking system pulls the sash firmly closed while pushing the sash tight to the side jambs. This lock is single-point on 2' (610) tall windows, two-point on 3' (914) tall windows, and three-point on 3'-6" (1067), 4' (1219) and 5' (1524) tall windows.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Sandtone | Terratone

Dark Bronze | Forest Green | Black

INTERIOR OPTIONS

Pine | White† | Sandtone** | Dark Bronze† | Black†

HARDWARE OPTIONS Sold Separately

Rotating Sash Handle

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

Bold name denotes finish shown.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

*Visit andersenwindows.com/warranty for details.
**Sandtone interior available with Sandtone, canvas, Terratone, dark bronze and black exteriors.
†Products with white, dark bronze and black interiors have matching exteriors.
"Delrin" and "Teflon" are registered trademarks of E.I. du Pont de Nemours and Company.
Dimensions in parentheses are in millimeters.
Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.
Naturally occurring variations in grain, color and texture of wood make each window one of a kind. All wood interiors are unfinished unless a finish is specified.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Standard jamb depth is 4 9/16" (116). Extension jambs are available in unfinished pine, or prefinished white, dark bronze and black. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/16" (1.5) increments between 5 1/16" (129) and 7 1/8" (181).

HARDWARE

Passive Sash Handle

Attaches to the passive sash to aid in operation. Available in Sandtone.

Window Opening Control Device

A window opening control device is available, which limits sash travel to less than 4" (102) when the window is first opened. Available in factory applied, or as a field-applied kit in stone or white. Device shown above on a 200 Series gliding window.

INSECT SCREENS

Choose fixed, full insect screens or gliding pass-through insect screens. Frames are available in colors to match product exteriors.

TruScene® Insect Screens

Andersen® TruScene insect screens let in over 25% more fresh air* and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

Conventional Insect Screens

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

GRILLES

Grilles are available in a variety of configurations and widths. For gliding window grille patterns, see page 115.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

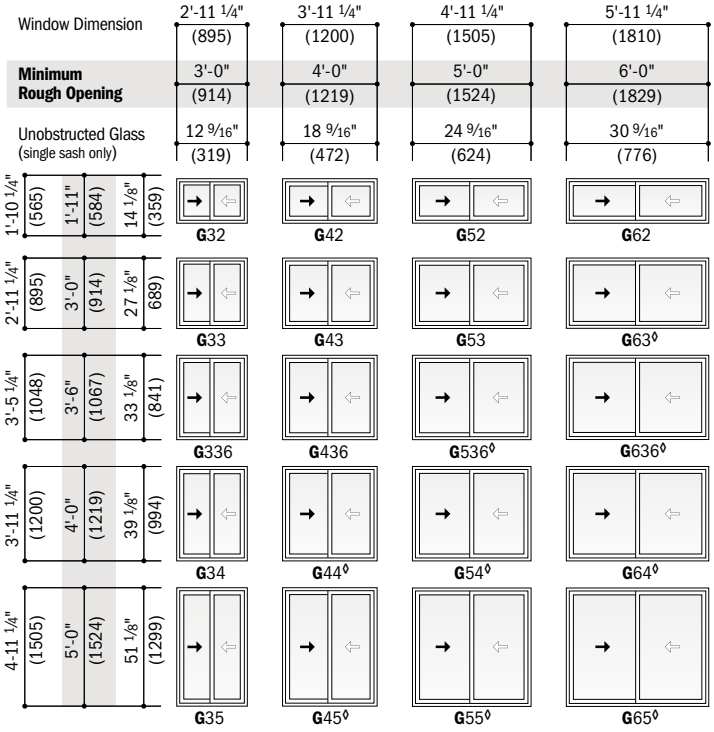
CAUTION:

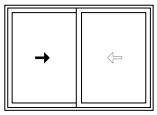
- Painting and staining may cause damage to rigid vinyl.
- 400 Series windows in Terratone color may be painted any color lighter than Terratone color using quality oil-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.
Dimensions in parentheses are in millimeters.

Table of Gliding Window Sizes

Scale ⅛" (3) = 1'-0" (305) – 1:96





Viewed from the exterior. Passive sash will open after active sash has been opened.

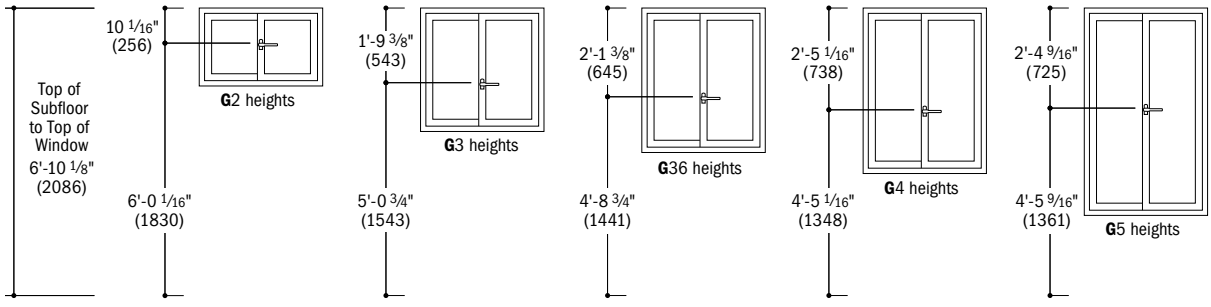
Grille patterns shown on page 115.

• "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See table on page 115.

Handle Location

Operational force of handle is equal to 8 lbs/3.6 kg.

Dimensions shown are from top of handle in open position.



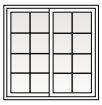
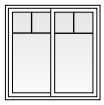
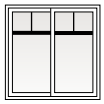
• Dimensions in parentheses are in millimeters.

Gliding Window Opening and Area Specifications

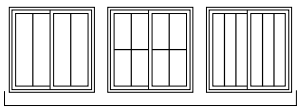
Window Number	Clear Opening Area Sq. Ft./(m²)	Clear Opening in Full Open Position Width Inches/(mm)	Clear Opening in Full Open Position Height Inches/(mm)	Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Top of Subfloor to Top of Sill Parting Stop Inches/(mm)	Overall Window Area Sq. Ft./(m²)
G32	1.70 (0.16)	14 9/32" (363)	17 1/8" (435)	2.5 (0.23)	1.70 (0.16)	62 9/16" (1589)	5.45 (0.51)
G33	3.00 (0.28)	14 9/32" (363)	30 1/8" (765)	4.7 (0.44)	3.00 (0.28)	49 9/16" (1259)	8.63 (0.80)
G336	3.58 (0.33)	14 9/32" (363)	36 1/8" (918)	5.7 (0.53)	3.58 (0.33)	43 9/16" (1107)	10.10 (0.94)
G34	4.18 (0.39)	14 9/32" (363)	42 1/8" (1070)	6.8 (0.63)	4.18 (0.39)	37 9/16" (954)	11.57 (1.08)
G35	5.40 (0.50)	14 9/32" (363)	54 1/8" (1375)	8.9 (0.83)	5.40 (0.50)	25 9/16" (649)	14.50 (1.35)
G42	2.40 (0.22)	20 9/32" (515)	17 1/8" (435)	3.6 (0.33)	2.40 (0.22)	62 9/16" (1589)	7.30 (0.68)
G43	4.40 (0.41)	20 9/32" (515)	30 1/8" (765)	7.0 (0.65)	4.40 (0.41)	49 9/16" (1259)	11.57 (1.08)
G436	5.10 (0.47)	20 9/32" (515)	36 1/8" (918)	8.5 (0.79)	5.10 (0.47)	43 9/16" (1107)	13.54 (1.26)
G44 ◊	6.00 (0.56)	20 9/32" (515)	42 1/8" (1070)	10.0 (0.93)	6.00 (0.56)	37 9/16" (954)	15.50 (1.44)
G45 ◊	7.62 (0.71)	20 9/32" (515)	54 1/8" (1375)	13.1 (1.22)	7.62 (0.71)	25 9/16" (649)	19.44 (1.81)
G52	3.13 (0.29)	26 9/32" (668)	17 1/8" (435)	4.8 (0.45)	3.13 (0.29)	62 9/16" (1589)	9.15 (0.85)
G53	5.50 (0.51)	26 9/32" (668)	30 1/8" (765)	9.2 (0.86)	5.50 (0.51)	49 9/16" (1259)	14.50 (1.35)
G536 ◊	6.60 (0.61)	26 9/32" (668)	36 1/8" (918)	11.3 (1.05)	6.60 (0.61)	43 9/16" (1107)	16.97 (1.58)
G54 ◊	7.70 (0.72)	26 9/32" (668)	42 1/8" (1070)	13.3 (1.24)	7.70 (0.72)	37 9/16" (954)	19.44 (1.81)
G55 ◊	9.90 (0.92)	26 9/32" (668)	54 1/8" (1375)	17.4 (1.62)	9.90 (0.92)	25 9/16" (649)	24.38 (2.27)
G62	3.84 (0.36)	32 9/32" (820)	17 1/8" (435)	6.0 (0.56)	3.84 (0.36)	62 9/16" (1589)	11.01 (1.02)
G63 ◊	6.75 (0.63)	32 9/32" (820)	30 1/8" (765)	11.5 (1.07)	6.75 (0.63)	49 9/16" (1259)	17.44 (1.62)
G636 ◊	8.10 (0.75)	32 9/32" (820)	36 1/8" (918)	14.0 (1.30)	8.10 (0.75)	43 9/16" (1107)	20.41 (1.90)
G64 ◊	9.44 (0.88)	32 9/32" (820)	42 1/8" (1070)	16.6 (1.54)	9.44 (0.88)	37 9/16" (954)	23.38 (2.17)
G65 ◊	12.13 (1.13)	32 9/32" (820)	54 1/8" (1375)	21.7 (2.02)	12.13 (1.13)	25 9/16" (649)	29.32 (2.72)

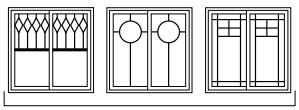
• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Grille Patterns

	Prairie A	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail
Gliding								

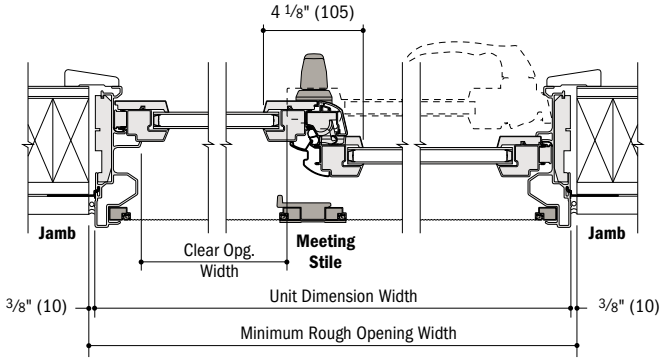
Number of lights and overall pattern varies with window size. Patterns not available in all configurations.
Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.


Specified Equal Light Examples

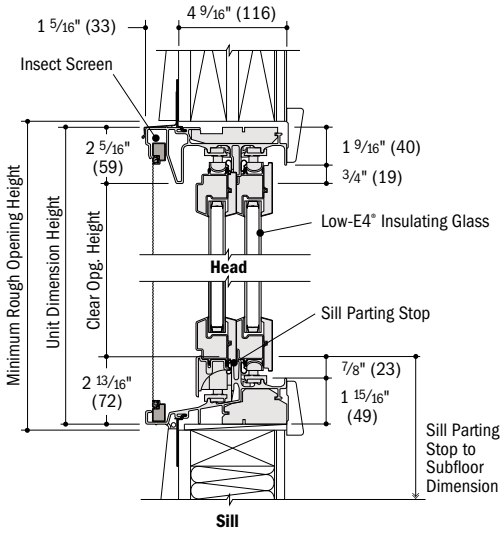

Custom Pattern Examples

Gliding Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

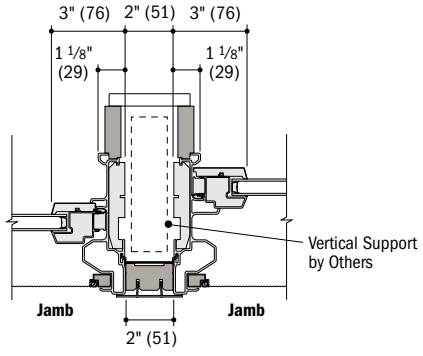


Vertical Section

Separate Rough Openings Detail

Scale 1½" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Horizontal Section
Gliding and Gliding

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.

SPECIALTY WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FEATURES

FRAME

Ⓐ Wood frame members are treated with a water-repellent preservative for long-lasting* protection and performance. Radii are made of laminated pine, offering improved strength and appearance.

Ⓑ The lineal sections of the jamb and sill on eyebrow, extended gothic, octagon, monumental, Flexiframe,® custom arch and arch windows are covered with a low-maintenance, fiberglass-reinforced composite. The arched head members and Springline™ units are covered with stretch-formed aluminum.

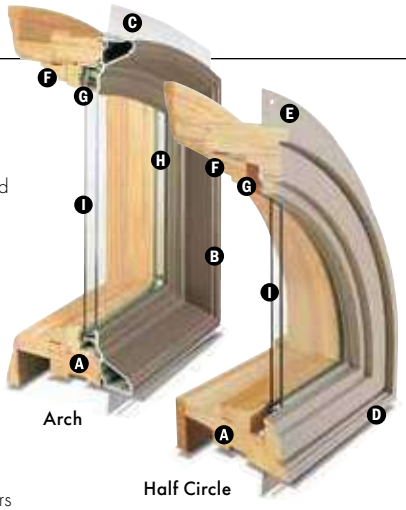
Ⓒ The vinyl installation flange on eyebrow, extended gothic, octagon, monumental, Flexiframe, custom arch, arch and Springline units extends 1¼" (32) around the entire perimeter of the unit. It helps seal the unit to the structure.

Ⓓ Circle, half circle, quarter circle, elliptical and oval windows are covered with a rigid vinyl cladding. Low-maintenance exterior cladding provides long-lasting* beauty.

Ⓔ Rigid vinyl cladding on circle, half circle, quarter circle, elliptical and oval window frames forms a full-perimeter installation flange for securing the unit to the structure. It also helps maintain an attractive appearance while minimizing maintenance.

Ⓕ Inside trim stop is made of unfinished pine. Arched trim stops are made with quality, full-length laminated pine. Units are shipped with the trim stops tacked on, so removal is easy – expediting finishing and joining procedures.

Ⓖ Unfinished interior wood glazing stops help secure the glass in place. Arched glazing stops are made with full-length laminated pine.



Arch

Half Circle

GLASS

Ⓗ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓘ High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

StormWATCH® PROTECTION

Specialty windows are available with Stormwatch® Protection. Visit **andersenwindows.com/coastal** for more details.

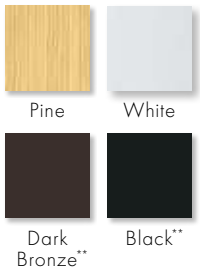
EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS


White, Canvas, Sandtone, Terratone

Dark Bronze, Forest Green, Black

INTERIOR OPTIONS


Pine, White

Dark Bronze**, Black**


Circle/Oval


Springline™


Flexiframe®

*Visit andersenwindows.com/warranty for details.

**Products with dark bronze and black interiors have matching exteriors.

Dimensions in parentheses are in millimeters.

Printing limitations prevent exact replication of colors. See your Andersen supplier for actual color samples.

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

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Specify extension jambs when ordering.

Standard unit jamb depth is 2 7/8" (73), except for elliptical and double-hung half circle units, which are 4 1/2" (114).

Pine extension jambs are available for most products in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Elliptical and double-hung half circle extension jambs are available between 5 1/16" (129) and 7 1/8" (181). Some sizes may be pine veneer.

Springline™ window extension jambs and transition blocks are applied when ordered with the unit (key component block is also applied to units with a 48" (1219) radius).

Extension Jamb Alignment for Joined Combinations

When joining 400 Series arch, Springline or Flexiframe® over casement windows or when joining arch, Springline or Flexiframe alongside awning windows, use Method A or Method B for extension jamb alignment. See page 135 for details.

Method A: Individually Framed

Specify Andersen® auxiliary extension jambs. Available for the following wall thicknesses: 4 9/16" (116), 5 1/4" (133), 6 9/16" (167) and 7 1/8" (181).

Method B: Perimeter Framed

Specify 1/4" (6) filler in pine or white. Requires modification of extension jambs.

CASING

Interior Arch Casing

Available in Colonial or Ranch styles. Arch casings come with transition blocks or plinth blocks, depending on the product. For easy integration and consistency, casing dimensions are consistent with Wood Moulding and Millwork Producers Association specifications. Available in pine, maple and oak.

2 1/4" (57) Colonial style WM366

2 1/2" (64) Colonial style WM351

3 1/2" (89) Colonial style WM444

2 1/4" (57) Ranch style WM324
2 1/2" (64) Ranch style WM315

Plinth Blocks

For enhancing casing transitions. Decorated with a radial sunburst, or use the reverse side flush face.

For arch windows, use 2 7/8" (73) x 4" (102) size plinth block with 2 1/4" (57) and 2 1/2" (64) casing. With 3 1/2" (89) casing, use 3 7/8" (98) x 5 1/4" (133).

For half circle, circle and oval windows, use 2 7/8" (73) size plinth block with 2 1/4" (57) and 2 1/2" (64) casing. With 3 1/2" (89) casing, use 3 7/8" (98).

Key Block

Excellent for creating unique trim designs or accents at arch casing transitions. A key block is an option for circle and oval windows.

Transition Blocks

Two transition blocks come with the interior arch casing extension jambs, providing a beautiful accent for circle and oval windows.

GLASS

Andersen Art Glass

Andersen art glass panels come in a variety of original patterns. See art glass section starting on page 173 for more information or visit andersenwindows.com/artglass.

GRILLES

Grilles are available in a variety of configurations and widths. For specialty window grille patterns, see pages 122 and 132.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

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-based or latex paint.
- Do not paint 400 Series windows in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

Dimensions in parentheses are in millimeters.

Table of Double-Hung Half Circle and Eyebrow Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

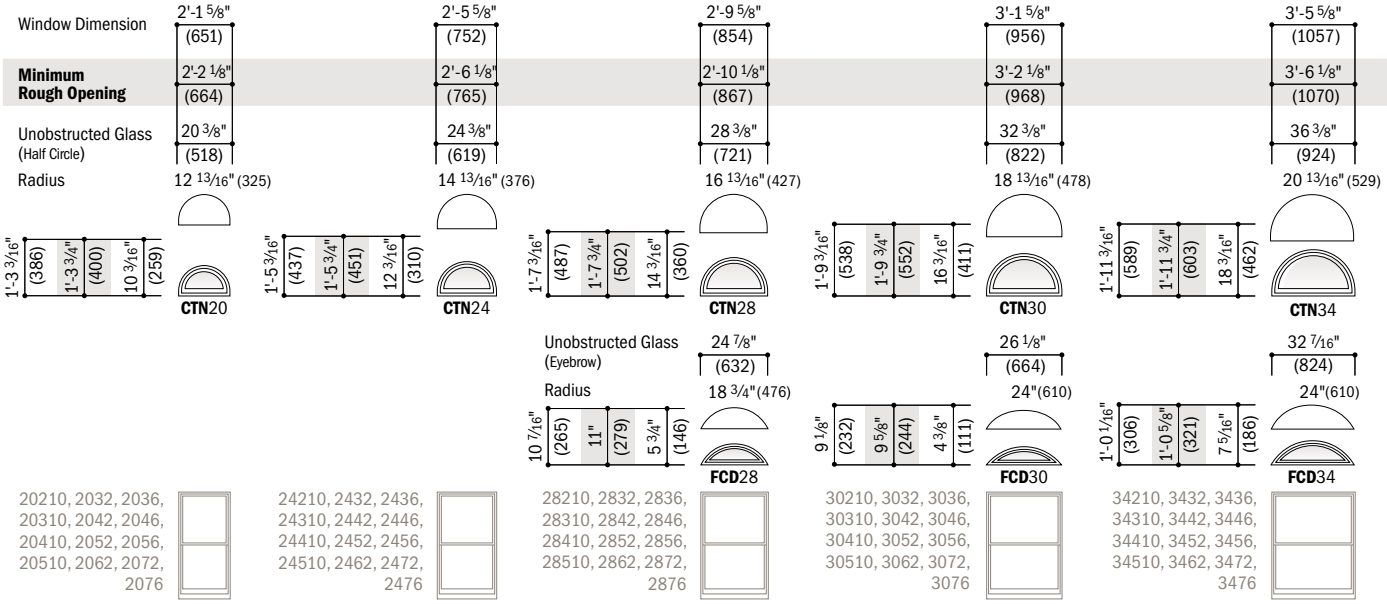
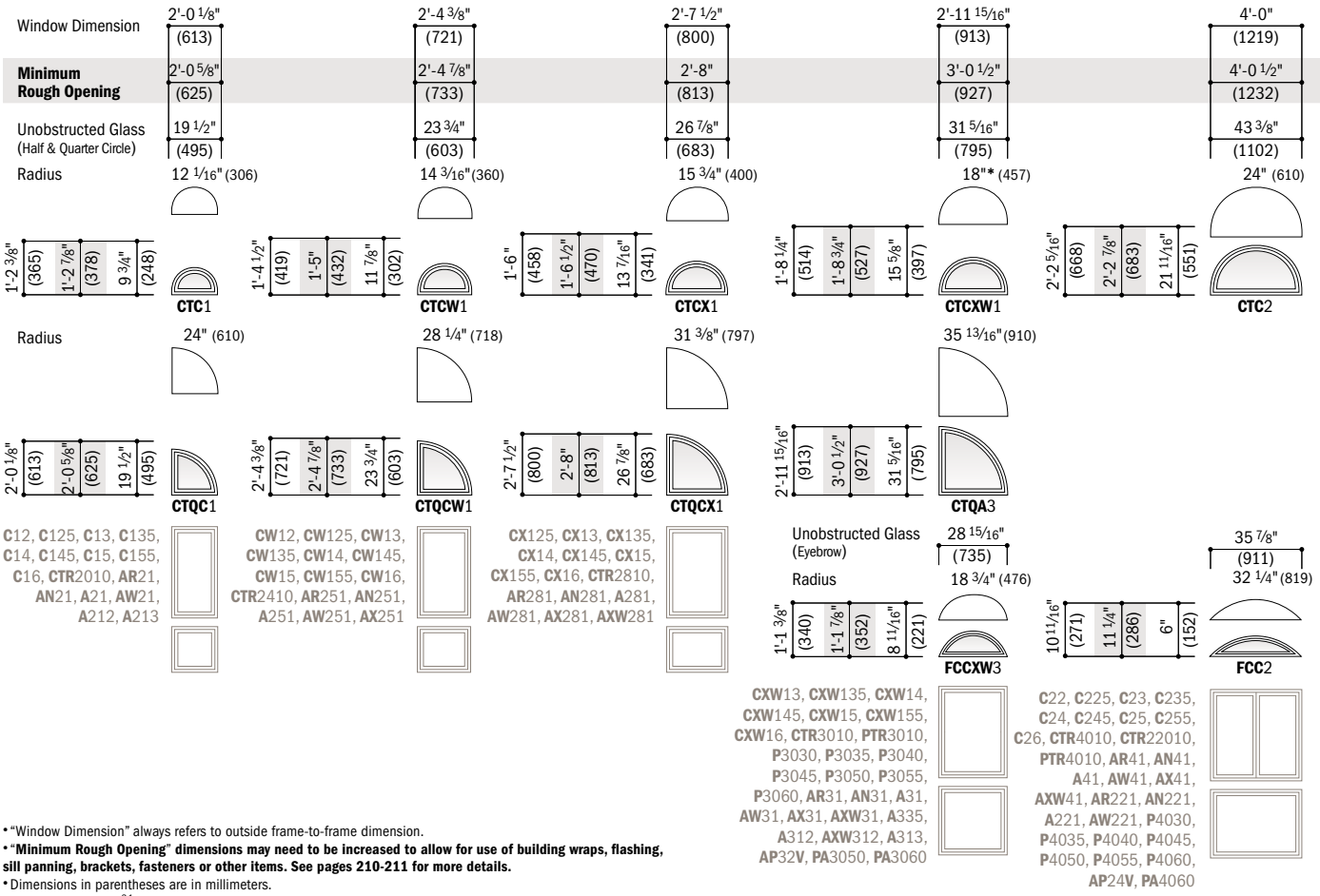
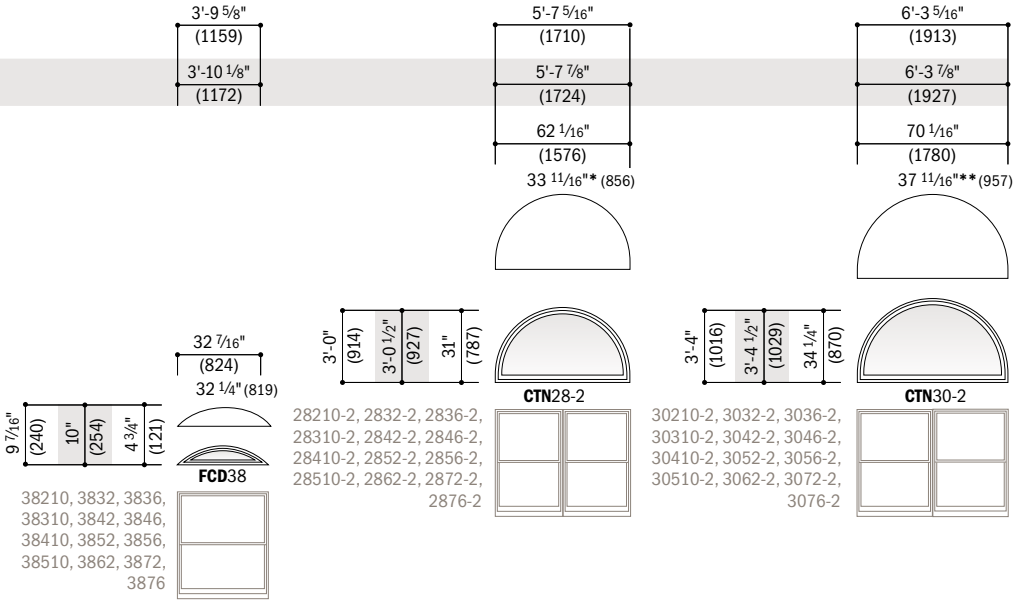


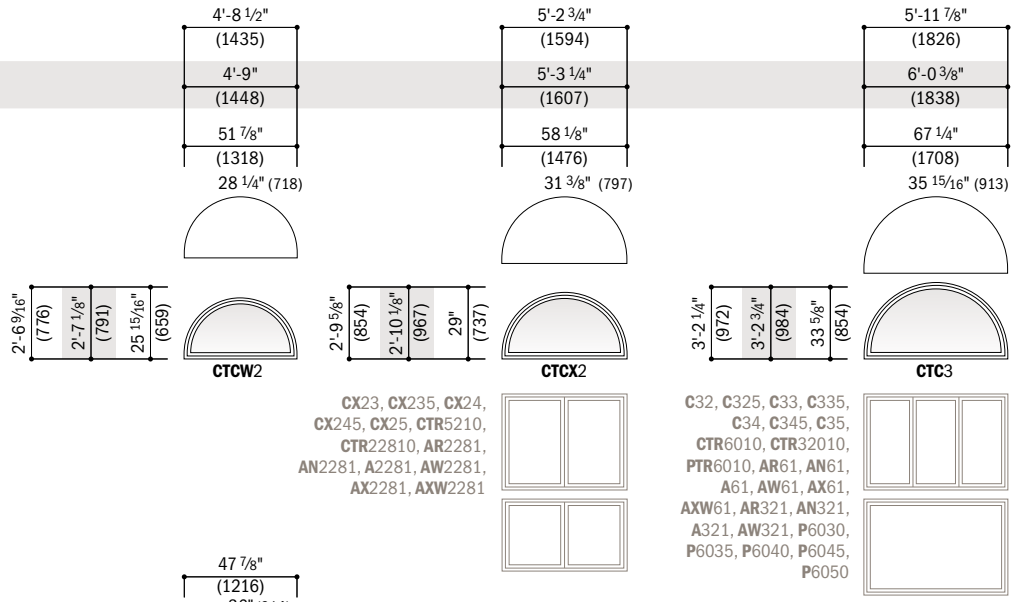
Table of Casement/Awning Half Circle, Quarter Circle and Eyebrow Window Sizes

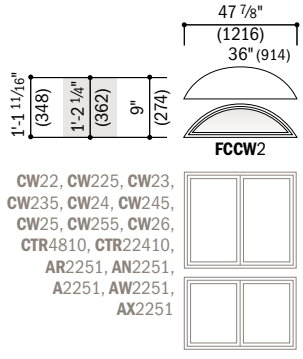
Scale 1/8" (3) = 1'-0" (305) – 1:96



- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.
- *Actual radius of 17 31/32" (456).







Compatible double-hung, casement, awning and picture windows are shown below specialty windows. Grille patterns shown on page 122.

Compatible double-hung, casement, awning and picture windows are shown below specialty windows. Grille patterns shown on page 122.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

*Actual radius of 33 21/32" (855).

**Actual radius of 37 21/32" (956).

Double-Hung Half Circle Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)
CTN20	1.1 (0.10)
CTN24	1.6 (0.15)
CTN28	2.2 (0.20)
CTN30	2.8 (0.26)
CTN34	3.6 (0.34)
CTN28-2	10.5 (0.98)
CTN30-2	13.4 (1.25)

Casement/Awning Half Circle Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)
CTC1	1.0 (0.09)
CTCW1	1.5 (0.14)
CTCXW1	2.7 (0.25)
CTC2	5.1 (0.47)
CTCW2	7.3 (0.68)
CTC3	12.3 (1.14)
CTCX1	2.0 (0.19)
CTCX2	9.3 (0.86)

Quarter Circle Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)
CTQC1	1.9 (0.18)
CTQCW1	3.0 (0.28)
CTQA3	5.2 (0.48)
CTQCX1	3.8 (0.35)

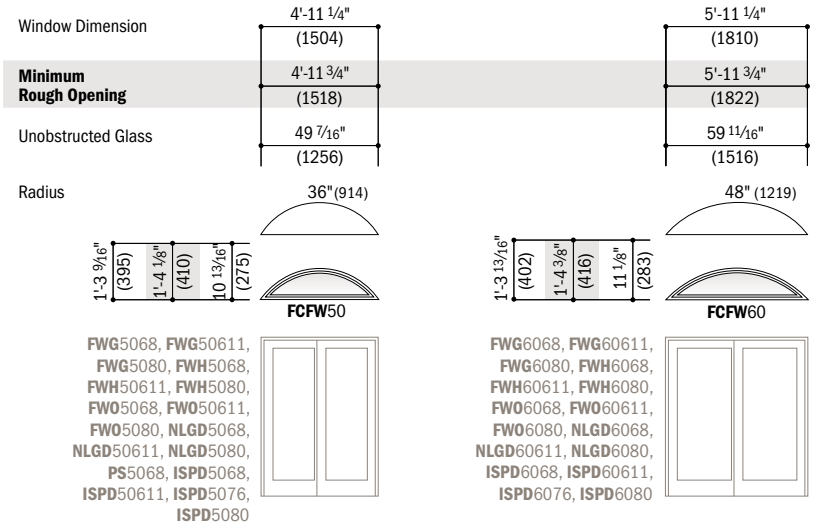
Eyebrow Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)
FCD28	0.69 (0.06)
FCD30	0.54 (0.05)
FCD34	1.15 (0.11)
FCD38	0.84 (0.08)
FCCXW3	1.24 (0.12)
FCC2	1.02 (0.09)
FCCW2	2.78 (0.26)

- Dimensions in parentheses are in square meters.

Table of Eyebrow Window Sizes – Patio Doors

Scale 1/8" (3) = 1'-0" (305) – 1:96



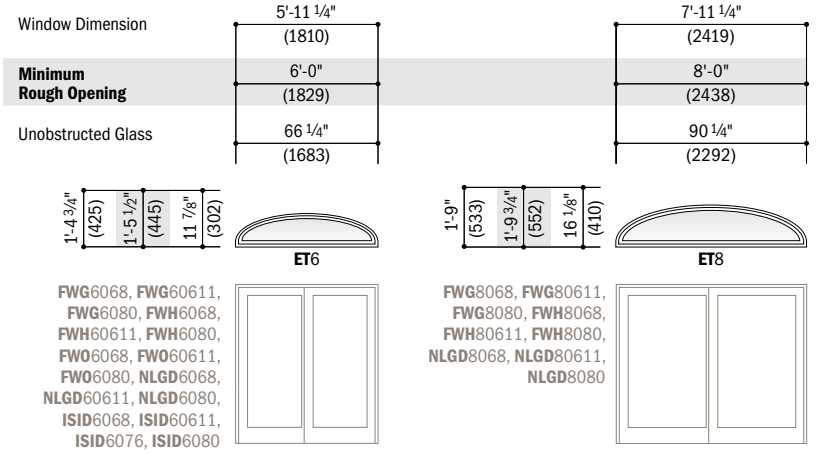
FWG5068, **FWG**50611, **FWG**5080, **FWH**5068, **FWH**50611, **FWH**5080, **FWO**5068, **FWO**50611, **FWO**5080, **NLGD**5068, **NLGD**50611, **NLGD**5080, **PS**5068, **ISPD**5068, **ISPD**50611, **ISPD**5076, **ISPD**5080

FWG6068, **FWG**60611, **FWG**6080, **FWH**6068, **FWH**60611, **FWH**6080, **FWO**6068, **FWO**60611, **FWO**6080, **NLGD**6068, **NLGD**60611, **NLGD**6080, **ISPD**6068, **ISPD**60611, **ISPD**6076, **ISPD**6080

Compatible patio doors are shown below specialty windows. Grille patterns shown below.

Table of Elliptical Window Sizes – Patio Doors

Scale 1/8" (3) = 1'-0" (305) – 1:96



FWG6068, **FWG**60611, **FWG**6080, **FWH**6068, **FWH**60611, **FWH**6080, **FWO**6068, **FWO**60611, **FWO**6080, **NLGD**6068, **NLGD**60611, **NLGD**6080, **ISID**6068, **ISID**60611, **ISID**6076, **ISID**6080

FWG8068, **FWG**80611, **FWG**8080, **FWH**8068, **FWH**80611, **FWH**8080, **NLGD**8068, **NLGD**80611, **NLGD**8080

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Eyebrow Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	
FCFW50	2.57	(0.24)
FCFW60	3.15	(0.29)

Elliptical Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	
ET6	4.3	(0.40)
ET8	8.0	(0.74)

Circle and Oval Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	
CIR20	2.1	(0.20)
CIR24	3.0	(0.28)
CIR30	5.2	(0.48)
OVL1824	1.9	(0.18)
OVL2030	3.2	(0.30)
OVL3048	8.7	(0.81)

Extended Gothic and Octagon Window Area Specifications

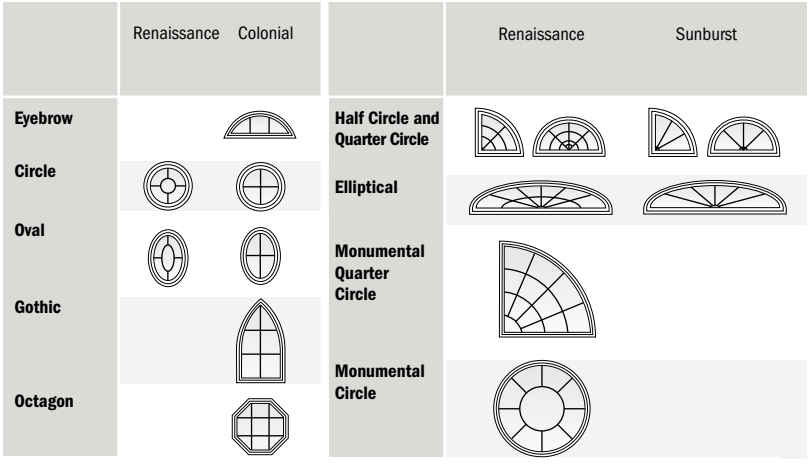
Window Number	Glass Area Sq. Ft./(m²)	
GT2036	4.01	(0.37)
GT2440	5.84	(0.54)
GT3046	8.78	(0.82)
GT4056	14.88	(1.38)
OC20	2.14	(0.20)
OC24	3.12	(0.29)
OC30	5.63	(0.52)

Monumental Quarter Circle and Circle Area Specifications

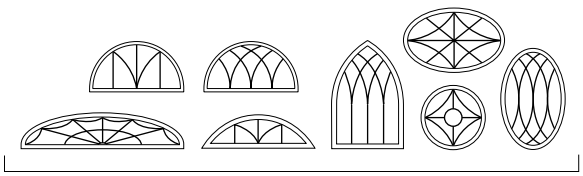
Window Number	Glass Area Sq. Ft./(m²)	
QR40	9.91	(0.92)
FR40	10.22	(0.95)
FR60	24.69	(2.29)

- Dimensions in parentheses are in square meters.

Grille Patterns



Patterns for specialty windows may not align with patterns for picture windows when horizontally joined. **Number of lights and overall pattern varies with window size. Patterns not available in all configurations.** Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.



Custom Pattern Examples

Table of Circle Window Sizes

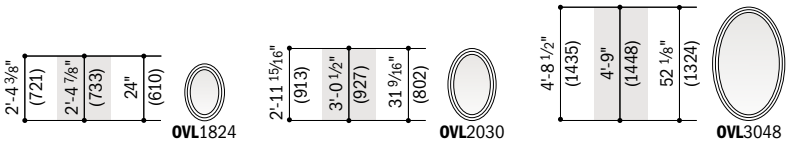
Scale 1/8" (3) = 1'-0" (305) – 1:96

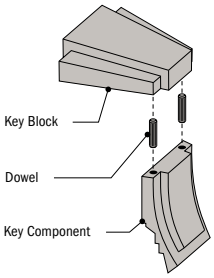
Window Dimension	2'-0 1/8" (613)	2'-4 3/8" (721)	2'-11 15/16" (913)
Minimum Rough Opening	2'-0 5/8" (625)	2'-4 7/8" (733)	3'-0 1/2" (927)
Unobstructed Glass	19 3/4" (502)	24" (610)	31 9/16" (802)

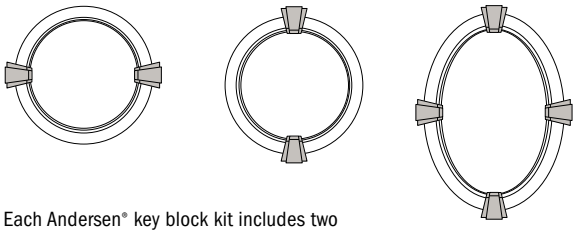
Table of Oval Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-7 3/4" (502)	2'-0" (610)	3'-0" (914)
Minimum Rough Opening	1'-8 1/4" (514)	2'-0 1/2" (622)	3'-0 1/2" (927)
Unobstructed Glass	15 3/8" (391)	19 3/8" (492)	31 3/8" (797)

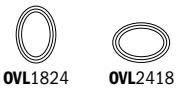






Each Andersen® key block kit includes two key blocks and two key components.

Oval windows can be installed in a vertical or horizontal orientation.



Circle, oval, extended gothic, octagon and monumental quarter circle and circle specifications shown on page 122.

Grille patterns shown on page 122.

Table of Extended Gothic Window Sizes

Scale 1/8" = 1'-0" (1:96)

Window Dimension	2'-0 1/8" (613)	2'-4 3/8" (721)	2'-11 15/16" (913)	4'-0" (1219)
Minimum Rough Opening	2'-0 5/8" (625)	2'-4 7/8" (733)	3'-0 1/2" (927)	4'-0 1/2" (1232)
Unobstructed Glass	19 7/16" (495)	23 11/16" (602)	31 1/4" (794)	43 5/16" (110)
Radius	32 1/4" (819)	32 1/4" (819)	36" (914)	48" (1219)

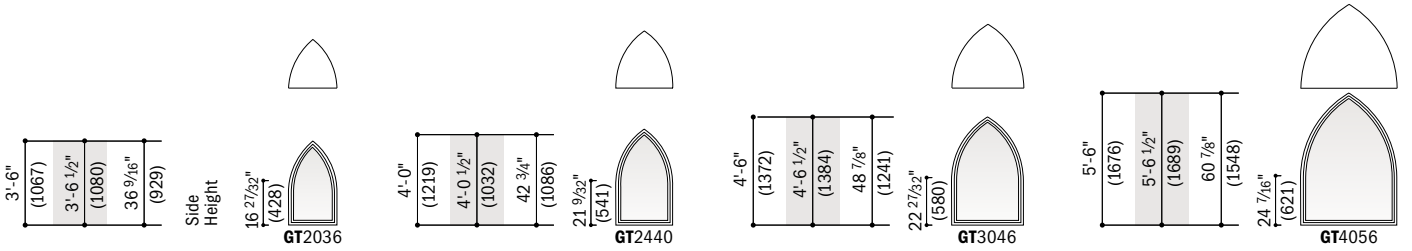


Table of Octagon Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-0" (610)	2'-4" (711)	3'-0" (914)
Minimum Rough Opening	2'-0 1/2" (622)	2'-4 1/2" (724)	3'-0 1/2" (927)
Unobstructed Glass	19 5/16" (491)	23 5/16" (592)	31 5/16" (795)

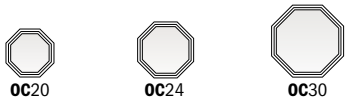
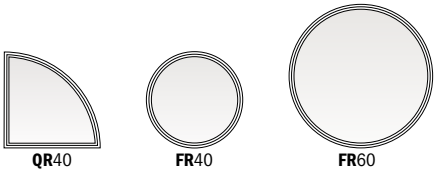


Table of Monumental Quarter Circle and Circle Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

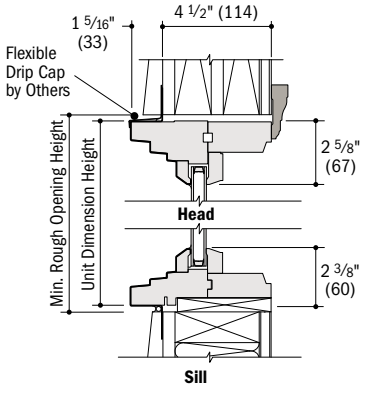
Window Dimension	4'-0" (1219)	4'-0" (1219)	6'-0" (1829)
Minimum Rough Opening	4'-0 1/2" (1232)	4'-0 1/2" (1232)	6'-0 1/2" (1842)
Unobstructed Glass	43 1/4" (1099)	43 5/16" (1100)	67 5/16" (1710)
Radius	48" (1219)	24" (610)	36" (914)



- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Double-Hung Half Circle Window Detail

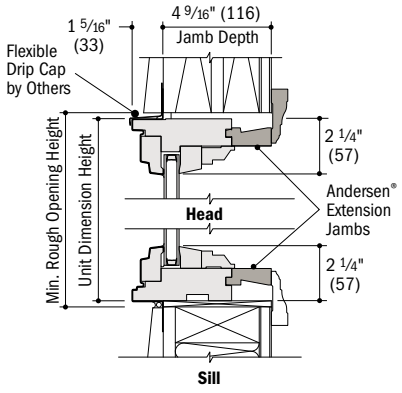
Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

Casement/Awning Half Circle Window Detail

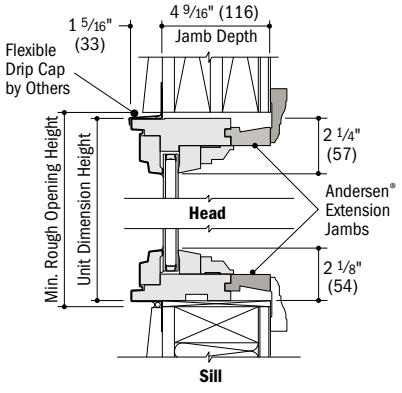
Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

Casement/Awning Quarter Circle Window Detail

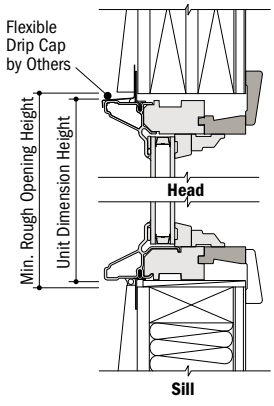
Scale 1½" (38) = 1'-0" (305) – 1:8



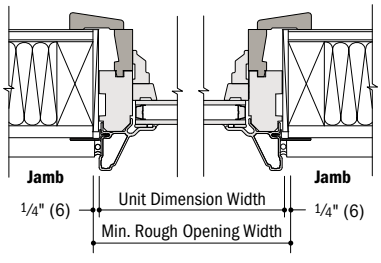
Vertical Section

Eyebrow Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



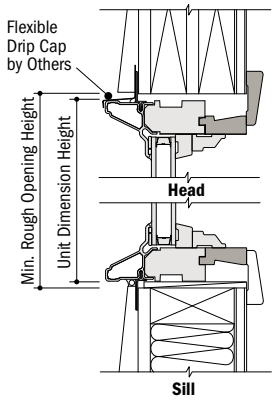
Vertical Section



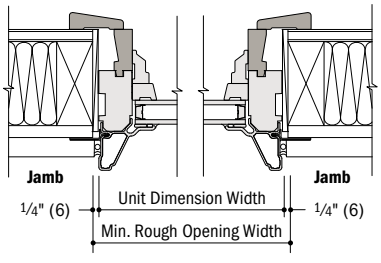
Horizontal Section

Extended Gothic Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



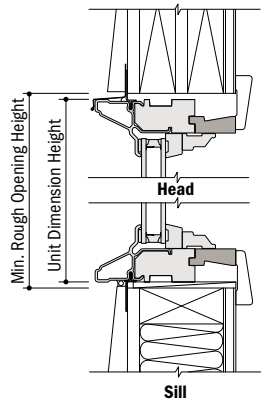
Vertical Section



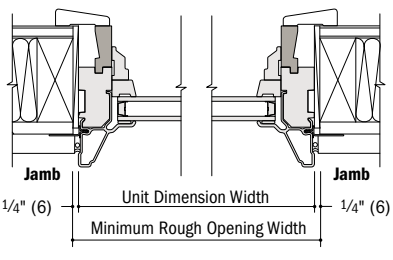
Horizontal Section

Octagon Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

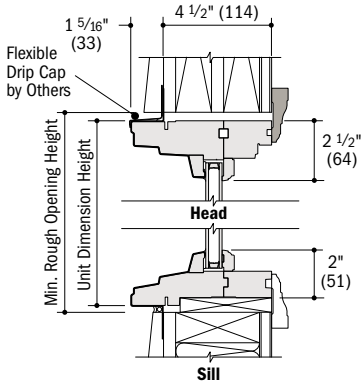


Horizontal Section

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Elliptical Window Detail

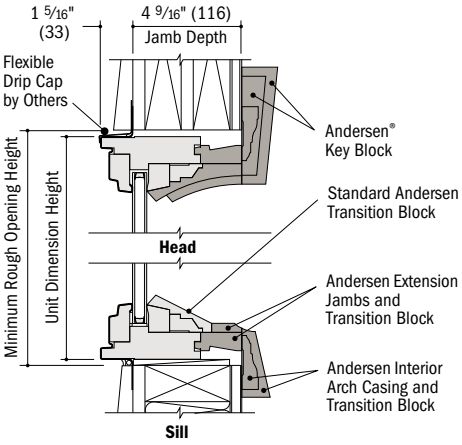
Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

Circle Window Detail

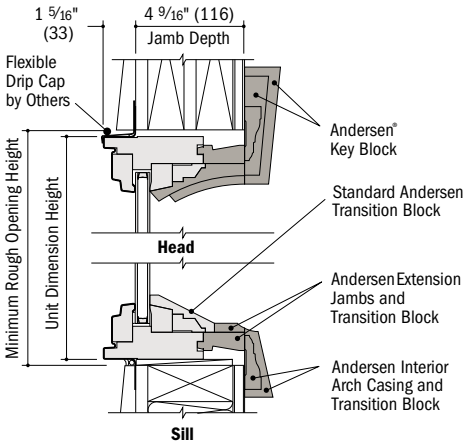
Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

Oval Window Detail

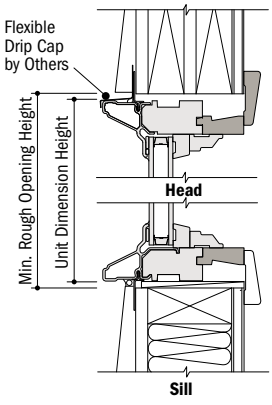
Scale 1½" (38) = 1'-0" (305) – 1:8



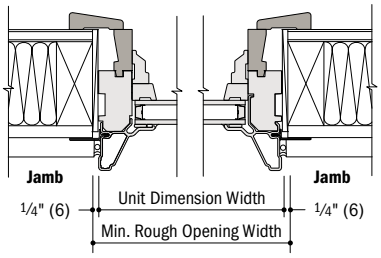
Vertical Section

Monumental Quarter Circle Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



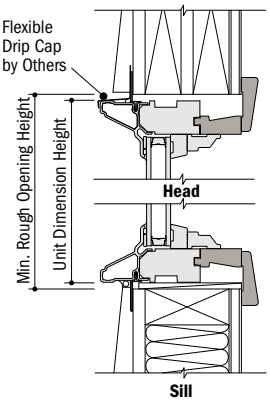
Vertical Section



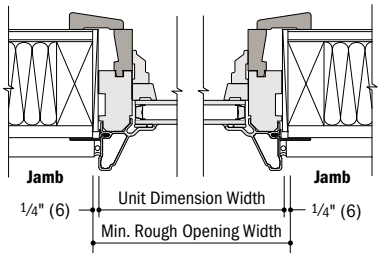
Horizontal Section

Monumental Circle Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section



Horizontal Section

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Horizontal (stack) Joining Details

Scale 1½" (38) = 1'-0" (305) – 1:8

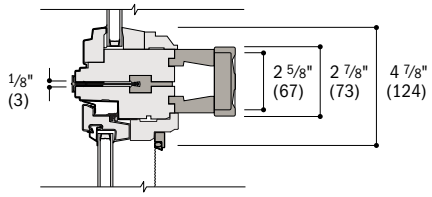
Casement Half Circle over Casement Window

Overall Window Dimension Height

Sum of individual window heights plus ⅛" (3) for each join.

Overall Rough Opening Height

Overall window dimension height plus ⅝" (16).



Vertical Section

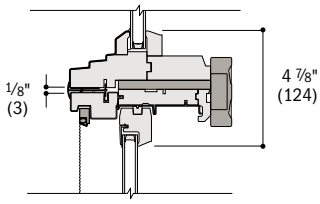
Double-Hung Half Circle over Tilt-Wash Double-Hung Window

Overall Window Dimension Height

Sum of individual window heights plus 0" for each join.

Overall Rough Opening Height

Overall window dimension height plus ⅜" (10).



Vertical Section

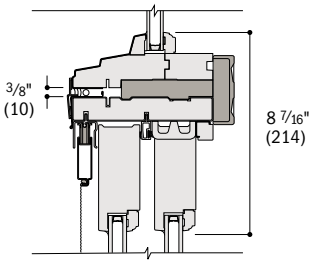
Elliptical Window over Frenchwood® Gliding Patio Door

Overall Unit Dimension Height

Sum of individual unit heights plus ⅜" (10).

Overall Rough Opening Height

Overall unit dimension height plus ⅝" (16).



Vertical Section

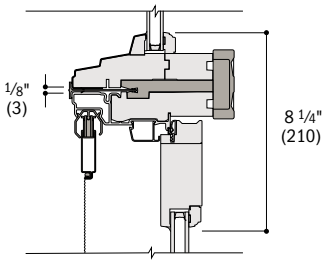
Elliptical Window over Frenchwood® Hinged Inswing Patio Door

Overall Unit Dimension Height

Sum of individual unit heights plus ⅛" (3).

Overall Rough Opening Height

Overall unit dimension height plus 1" (25).



Vertical Section

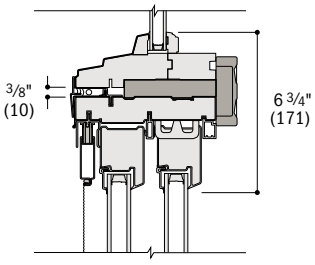
Elliptical Window over Perma-Shield® Gliding Patio Door

Overall Unit Dimension Height

Sum of individual unit heights plus ⅜" (10).

Overall Rough Opening Height

Overall unit dimension height plus ⅝" (16).

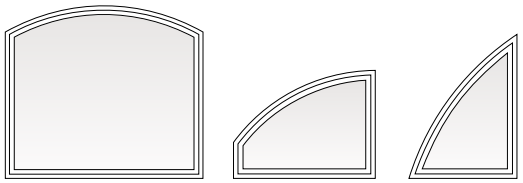


Vertical Section

For more joining information, see the combination designs section starting on page 181.

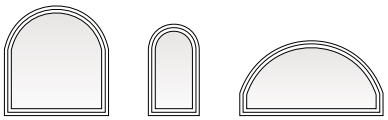
• Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
• **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
• Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
• Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
• Dimensions in parentheses are in millimeters.

Custom Arch Windows



Arch | Unequal Leg Arch | Partial Eyebrow

Andersen offers even greater design flexibility with custom-dimensioned arch, unequal leg arch and partial eyebrow windows. Custom arch windows can be designed using one of 10 standard radii, further expanding the existing line of 90 standard sizes of Andersen® arch windows.

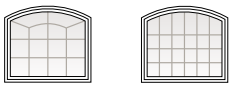


Springline™ Window Expressions

16' (4877) Radius for Joined Combinations

Custom arch shapes and sizes are specially constructed to be used in combination with other Andersen windows, including casement, awning, double-hung, gliding and Flexiframe® windows, and hinged or gliding patio doors.

Andersen grilles are available for most styles and sizes. Contact your supplier for availability.

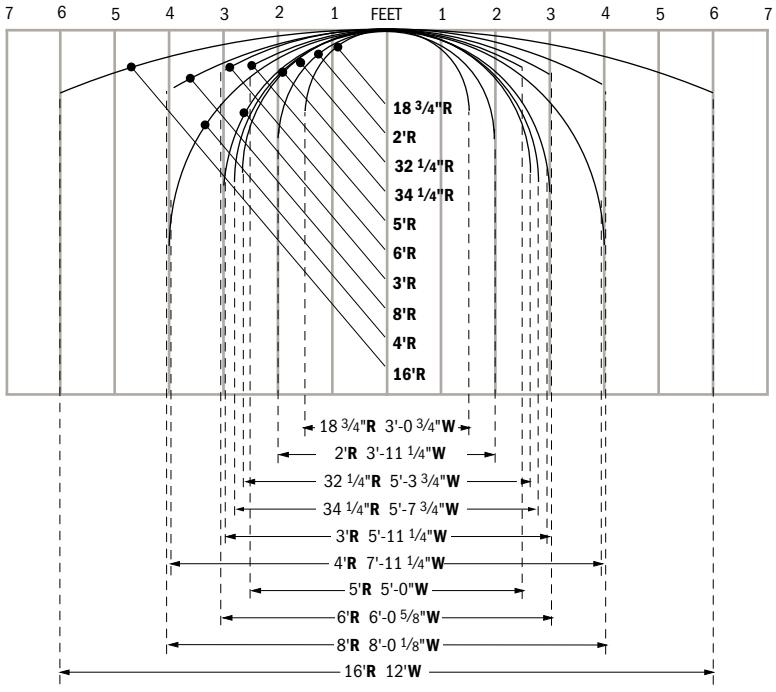


Renaissance **Colonial**

Design Criteria

Listed below are some factors that must be considered when deciding on a custom arch size and shape. For specific design criteria, joining instructions and order information, contact your Andersen supplier.

- **Do all calculations in inches to 3 decimal places**
- **Order extension jambs along with window for correct sizing**
- **All units are fixed**
- **Maximum standard glass area of 60 sq. ft. or 5.57 m²**
- **Ten standard radii:**
  18 3/4" (476), 2' (610), 32 1/4" (819), 34 1/4" (870), 3' (914), 4' (1219), 5' (1524), 6' (1829), 8' (2438), 16' (4877)
- **Maximum radii:** based on available radius piece length; contact supplier for specific information
- **Maximum equal leg arch unit width:**
  36 3/4" (399) for 18 3/4" (476) radius to 12' (3658) for 16' (4877) radius
- **Maximum unequal leg arch unit width:**
  18 3/4" (476) for 18 3/4" radius to 11'-2" (3404) for 16' (4877) radius
- **Maximum partial eyebrow unit width:**
  18 3/4" (476) for 18 3/4" radius to 11'-5 1/2" (3493) for 16' (4877) radius
- **Only one dimension, height or width, can exceed 7'-0" (2134)**
- **No height dimension greater than 12'-0" (3658)**
- **No leg dimension less than 6" (152)**



Standard Radii and Maximum Unit Width for Custom Arch Windows

• Dimensions in parentheses are in millimeters.

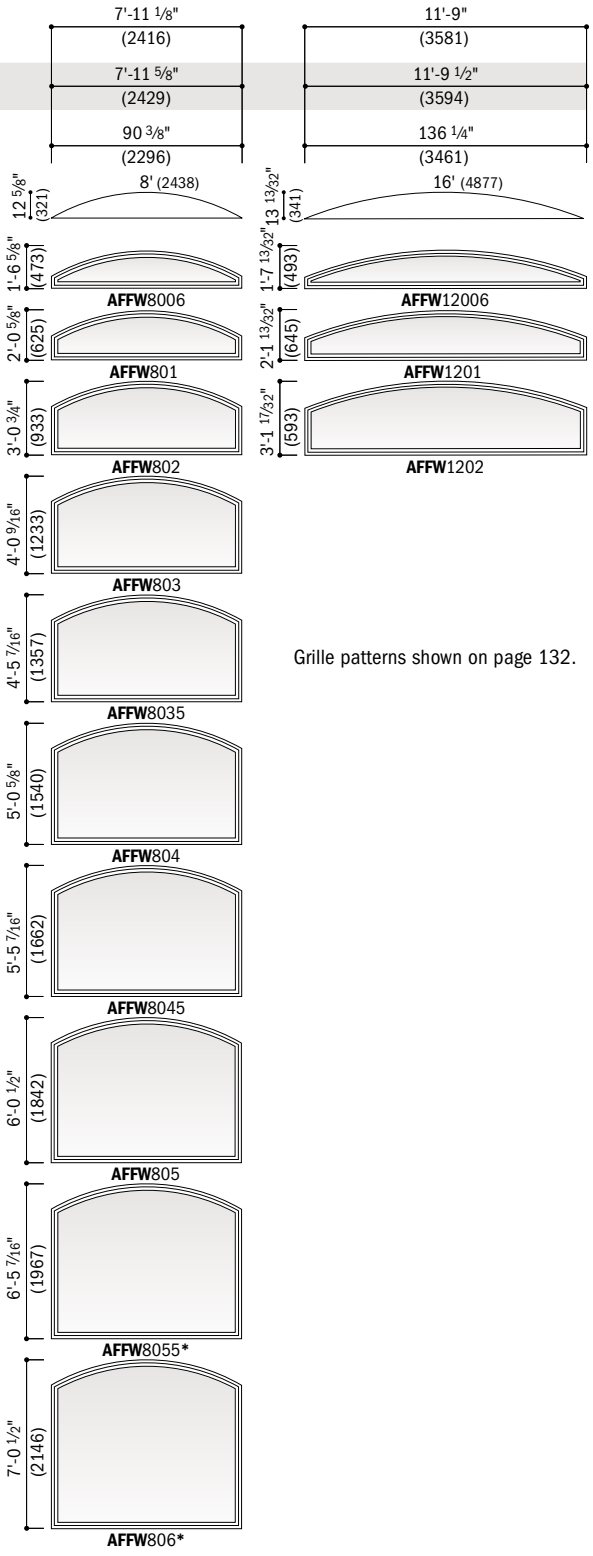
Table of Arch Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Notes on the next page also apply to this page.

Window Width Dimension	2'-0 1/8" (613)	2'-4 3/8" (721)	2'-11 15/16" (913)	4'-0" (1219)	4'-8 1/2" (1435)	4'-11 1/4" (1505)	5'-11 1/4" (1810)
Minimum Rough Opening	2'-0 5/8" (625)	2'-4 7/8" (733)	3'-0 1/2" (927)	4'-0 1/2" (1232)	4'-9" (1448)	4'-11 3/4" (1518)	5'-11 3/4" (1822)
Unobstructed Glass	19 3/8" (492)	23 5/8" (600)	31 3/16" (792)	43 1/4" (1099)	51 3/4" (1314)	54 1/2" (1384)	66 1/2" (1689)

Window Height Shown in Table	Radius	2' (610)	2' (610)	3' (914)	4' (1219)	5' (1524)	5' (1524)	6' (1829)
	Chord Height	3 1/4" (83)	4 21/32" (118)	4 13/16" (122)	6 7/16" (164)	7 1/16" (179)	7 13/16" (198)	9 7/16" (240)
Minimum Rough Opening = window height + 1/2" (13)	Side Height	9 1/4" (235)	10 21/32" (271)	10 13/16" (275)	1'-0 7/16" (316)	1'-1 1/16" (332)	1'-1 13/16" (351)	1'-3 7/16" (392)
Unobstructed Glass = window height – 4 3/4" (121)		**AFC**106	**AFCW**106	**AFCP**3006	**AFC**206	**AFCW**206	**AFFW**5006	**AFFW**6006
	12" (305)	1'-3 1/4" (387)	1'-4 21/32" (423)	1'-4 13/16" (427)	1'-6 7/16" (468)	1'-7 1/16" (484)	1'-7 13/16" (503)	1'-9 7/16" (545)
		AFC11	**AFCW**11	**AFCP**301	**AFC**21	**AFCW**21	**AFFW**501	**AFFW**601
	2'-0 1/8" (613)	2'-3 3/8" (695)	2'-4 25/32" (731)	2'-4 15/16" (735)	2'-6 9/16" (776)	2'-7 3/16" (792)	2'-7 15/16" (811)	2'-9 9/16" (852)
		AFC12	**AFCW**12	**AFCP**302	**AFC**22	**AFCW**22	**AFFW**502	**AFFW**602
	2'-11 15/16" (913)	3'-3 3/16" (995)	3'-4 19/32" (1031)	3'-4 3/4" (1035)	3'-6 3/8" (1076)	3'-7" (1092)	3'-7 3/4" (1111)	3'-9 3/8" (1153)
		AFC13	**AFCW**13	**AFCP**303	**AFC**23	**AFCW**23	**AFFW**503	**AFFW**603
	3'-4 13/16" (1037)	3'-8 1/16" (1119)	3'-9 15/32" (1155)	3'-9 5/8" (1159)	3'-11 1/4" (1200)	3'-11 7/8" (1216)	4'-0 5/8" (1235)	4'-2 1/4" (1276)
		AFC135	**AFCW**135	**AFCP**3035	**AFC**235	**AFCW**235	**AFFW**5035	**AFFW**6035
	4'-0" (1219)	4'-3 1/4" (1302)	4'-4 21/32" (1337)	4'-4 13/16" (1341)	4'-6 7/16" (1383)	4'-7 1/16" (1399)	4'-7 13/16" (1418)	4'-9 7/16" (1459)
		AFC14	**AFCW**14	**AFCP**304	**AFC**24	**AFCW**24	**AFFW**504	**AFFW**604
	4'-4 13/16" (1341)	4'-8 1/16" (1424)	4'-9 15/32" (1460)	4'-9 5/8" (1464)	4'-11 1/4" (1505)	4'-11 7/8" (1521)	5'-0 5/8" (1540)	5'-2 1/4" (1581)
		AFC145	**AFCW**145	**AFCP**3045	**AFC**245	**AFCW**245	**AFFW**5045	**AFFW**6045
	4'-11 7/8" (1521)	5'-3 1/8" (1603)	5'-4 17/32" (1639)	5'-4 11/16" (1643)	5'-6 5/16" (1684)	5'-6 15/16" (1700)	5'-7 11/16" (1719)	5'-9 5/16" (1761)
		AFC15	**AFCW**15	**AFCP**305	**AFC**25	**AFCW**25	**AFFW**505	**AFFW**605
	5'-4 13/16" (1646)	5'-8 1/16" (1729)	5'-9 15/32" (1765)	5'-9 5/8" (1768)	5'-11 1/4" (1810)	5'-11 7/8" (1826)	6'-0 5/8" (1845)	6'-2 1/4" (1886)
		AFC155	**AFCW**155	**AFCP**3055	**AFC**255	**AFCW**255	**AFFW**5055	**AFFW**6055
	5'-11 7/8" (1826)	6'-3 1/8" (1908)	6'-4 17/32" (1944)	6'-4 11/16" (1948)	6'-6 5/16" (1989)	6'-6 15/16" (2005)	6'-7 11/16" (2024)	6'-9 5/16" (2065)
		AFC16	**AFCW**16	**AFCP**306	**AFC**26	**AFCW**26	**AFFW**506	**AFFW**606
	8'-0 1/8" (2442)	8'-3 3/8" (2524)	8'-4 25/32" (2560)	8'-4 15/16" (2564)	8'-6 9/16" (2605)	8'-7 3/16" (2621)	8'-7 15/16" (2640)	8'-9 9/16" (2681)
		AFC18	**AFCW**18	**AFCP**308	**AFC**28	**AFCW**28	**AFFW**508	**AFFW**608*



Grille patterns shown on page 132.

- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.
- *Tempered glass standard.

Arch Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	
AFC106	0.7	(0.07)
AFC11	1.6	(0.15)
AFC12	3.4	(0.32)
AFC13	5.1	(0.47)
AFC135	5.8	(0.54)
AFC14	6.8	(0.63)
AFC145	7.5	(0.70)
AFC15	8.5	(0.79)
AFC155	9.2	(0.86)
AFC16	10.3	(0.96)
AFC18	13.8	(1.28)
AFCW106	1.1	(0.10)
AFCW11	2.1	(0.20)
AFCW12	4.2	(0.39)
AFCW13	6.3	(0.59)
AFCW135	7.1	(0.66)
AFCW14	8.4	(0.78)
AFCW145	9.2	(0.86)
AFCW15	10.4	(0.97)
AFCW155	11.3	(1.05)
AFCW16	12.5	(1.16)
AFCW18	16.8	(1.56)
AFCP3006	1.4	(0.13)
AFCP301	2.8	(0.26)
AFCP302	5.5	(0.51)
AFCP303	8.2	(0.76)
AFCP3035	9.3	(0.86)
AFCP304	10.9	(1.01)
AFCP3045	12.0	(1.12)
AFCP305	13.6	(1.26)
AFCP3055	14.7	(1.37)
AFCP306	16.3	(1.51)
AFCP308	21.8	(2.03)
AFC206	2.2	(0.20)
AFC21	4.1	(0.38)
AFC22	7.8	(0.73)
AFC23	11.5	(1.07)
AFC235	13.0	(1.21)
AFC24	15.2	(1.41)
AFC245	16.7	(1.55)
AFC25	18.9	(1.76)
AFC255	20.4	(1.90)
AFC26	22.6	(2.10)
AFC28	30.2	(2.81)
AFCW206	2.8	(0.26)
AFCW21	5.1	(0.47)
AFCW22	9.5	(0.88)
AFCW23	13.9	(1.29)
AFCW235	15.7	(1.46)
AFCW24	18.3	(1.70)
AFCW245	20.1	(1.87)
AFCW25	22.7	(2.11)
AFCW255	24.6	(2.29)
AFCW26	27.2	(2.53)
AFCW28	36.1	(3.35)
AFFW5006	3.2	(0.30)
AFFW501	5.5	(0.51)
AFFW502	10.3	(0.96)
AFFW503	14.8	(1.38)
AFFW5035	16.7	(1.55)
AFFW504	19.5	(1.81)

Window Number	Glass Area Sq. Ft./(m²)	
AFFW5045	21.4	(1.99)
AFFW505	24.1	(2.24)
AFFW5055	26.1	(2.43)
AFFW506	28.8	(2.68)
AFFW508	38.2	(3.55)
AFFW6006	4.4	(0.41)
AFFW601	7.2	(0.67)
AFFW602	12.9	(1.20)
AFFW603	18.5	(1.72)
AFFW6035	20.8	(1.93)
AFFW604	24.2	(2.25)
AFFW6045	26.5	(2.46)
AFFW605	29.8	(2.77)
AFFW6055	32.1	(2.98)
AFFW606	35.5	(3.30)
AFFW608	46.9	(4.36)
AFFW8006	7.3	(0.68)
AFFW801	11.1	(1.03)
AFFW802	18.8	(1.75)
AFFW803	26.4	(2.45)
AFFW8035	29.5	(2.74)
AFFW804	34.1	(3.17)
AFFW8045	37.1	(3.45)
AFFW805	41.6	(3.87)
AFFW8055	44.8	(4.16)
AFFW806	49.3	(4.58)
AFFW12006	9.9	(0.92)
AFFW1201	15.6	(1.45)
AFFW1202	27.1	(2.52)

- Dimensions in parentheses are in square meters.

Table of Springline™ Window Sizes

Scale ⅛" (3) = 1'-0" (305) – 1:96

Notes on the next page also apply to this page.

Window Width Dimension	3'-1 ½" (953)	4'-0" (1219)	5'-4 ½" (1638)	5'-8 ½" (1740)	5'-11 ¼" (1810)	6'-0" (1829)
Minimum Rough Opening	3'-2" (965)	4'-0 ½" (1232)	5'-5" (1651)	5'-9" (1753)	5'-11 ¾" (1822)	6'-0 ½" (1842)
Unobstructed Glass	32 ¾" (832)	43 ¼" (1099)	59 ¾" (1518)	63 ¾" (1619)	66 ½" (1689)	67 ¼" (1708)
Radius	18 ¾" (476)	24" (610)	32 ¼" (819)	34 ¼" (870)	36" (914)	36" (914)

Window Height Shown in Table — Chord Height: 18 ¾" (476); 24" (610); 32 ¼" (819); 34 ¼" (870); 30 ¹³⁄₁₆" (783); 36" (914)

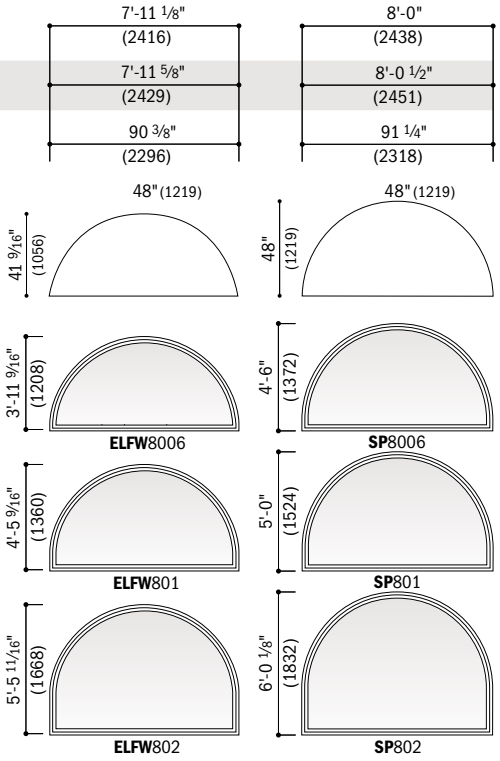
Minimum Rough Opening = window height + ½" (13)

Unobstructed Glass = window height – 4 ¾" (121)

Side Height

Side Height	3'-1 ½" (953)	4'-0" (1219)	5'-4 ½" (1638)	5'-8 ½" (1740)	5'-11 ¼" (1810)	6'-0" (1829)
6" (152)	2'-0 ¾" (629) **SE**3106		3'-2 ¼" (972) **SE**5406	3'-4 ¼" (1022) **SE**5806	3'-0 ¹³⁄₁₆" (935) **ELFW**6006	3'-6" (1067) **SE**6006
12" (305)	2'-6 ¾" (781) **SE**311		3'-8 ¼" (1124) **SE**541	3'-10 ¼" (1175) **SE**581	3'-6 ¹³⁄₁₆" (1087) **ELFW**601	4'-0" (1219) **SE**601
2'-0 ⅛" (613)	3'-6 ⅞" (1089) **SE**312	4'-0 ⅛" (1222) **SP**402	4'-8 ⅜" (1432) **SE**542	4'-10 ⅜" (1483) **SE**582	4'-6 ¹⁵⁄₁₆" (1395) **ELFW**602	5'-0 ⅛" (1527) **SE**602
2'-11 ¹⁵⁄₁₆" (913)	4'-6 ¹¹⁄₁₆" (1389) **SE**313	4'-11 ¹⁵⁄₁₆" (1522) **SP**403	5'-8 ³⁄₁₆" (1732) **SE**543	5'-10 ³⁄₁₆" (1783) **SE**583		5'-11 ¹⁵⁄₁₆" (1827) **SE**603
3'-4 ¹³⁄₁₆" (1037)	4'-11 ⁹⁄₁₆" (1513) **SE**3135	5'-4 ¹³⁄₁₆" (1646) **SP**4035	6'-1 ¹⁄₁₆" (1856) **SE**5435	6'-3 ¹⁄₁₆" (1907) **SE**5835	**Additional heights on page 132.**	6'-4 ¹³⁄₁₆" (1951) **SE**6035
4'-0" (1219)	5'-6 ¾" (1695) **SE**314	6'-0" (1829) **SP**404	6'-8 ¼" (2038) **SE**544	6'-10 ¼" (2089) **SE**584		7'-0" (2134) **SE**604
4'-4 ¹³⁄₁₆" (1341)	5'-11 ⁹⁄₁₆" (1818) **SE**3145	6'-4 ¹³⁄₁₆" (1951) **SP**4045	7'-1 ¹⁄₁₆" (2161) **SE**5445	7'-3 ¹⁄₁₆" (2211) **SE**5845		7'-4 ¹³⁄₁₆" (2256) **SE**6045
4'-11 ⅞" (1521)	6'-6 ⅝" (1997) **SE**315	6'-11 ⅞" (2130) **SP**405	7'-8 ⅛" (2340) **SE**545	7'-10 ⅛" (2391) **SE**585		7'-11 ⅞" (2435) **SE**605*

continued on next two pages



continued on next page

Extension jambs are available factory applied when ordered at the same time as Springline™ windows.

Grille patterns shown on page 132.

Springline™ Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)	
SE3106	3.74	(0.35)
SE311	5.10	(0.47)
SE312	7.86	(0.73)
SE313	10.54	(0.98)
SE3135	11.65	(1.08)
SE314	13.28	(1.23)
SE3145	14.38	(1.34)
SE315	15.98	(1.49)
SE3155	17.10	(1.59)
SE316	18.71	(1.74)
SE5406	11.22	(1.04)
SE541	13.71	(1.27)
SE542	18.74	(1.74)
SE543	23.64	(2.20)
SE5435	25.66	(2.38)
SE544	28.64	(2.66)
SE5445	30.64	(2.85)
SE545	33.57	(3.12)
SE5455	35.61	(3.31)
SE546	38.54	(3.58)
SE5806	12.67	(1.18)
SE581	15.33	(1.42)
SE582	20.69	(1.92)
SE583	25.92	(2.41)
SE5835	28.08	(2.61)
SE584	31.26	(2.90)
SE5845	33.39	(3.10)
SE585	36.51	(3.39)
SE5855	38.70	(3.60)
SE586	41.82	(3.89)
SE6006	14.01	(1.30)
SE601	16.81	(1.56)
SE602	22.47	(2.09)
SE603	27.98	(2.60)
SE6035	30.26	(2.81)
SE604	33.61	(3.12)
SE6045	35.86	(3.33)
SE605	39.16	(3.64)
SE6055	41.46	(3.85)
SE606	44.76	(4.16)
SP402	11.62	(1.08)
SP403	15.16	(1.41)
SP4035	16.63	(1.55)
SP404	18.78	(1.75)
SP4045	20.23	(1.88)
SP405	22.35	(2.08)
SP4055	23.83	(2.21)
SP406	25.95	(2.41)
SP8006	24.98	(2.32)
SP801	24.98	(2.32)
SP802	36.46	(3.39)
ELFW6006	11.58	(1.08)
ELFW601	14.35	(1.33)
ELFW602	19.95	(1.85)
ELFW8006	20.88	(1.94)
ELFW801	24.64	(2.29)
ELFW802	32.25	(3.00)

• Dimensions in parentheses are in square meters.

• "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.
*Tempered glass standard.

Table of Springline™ Window Sizes *(continued)*

Scale 1/8" (3) = 1'-0" (305) – 1:96

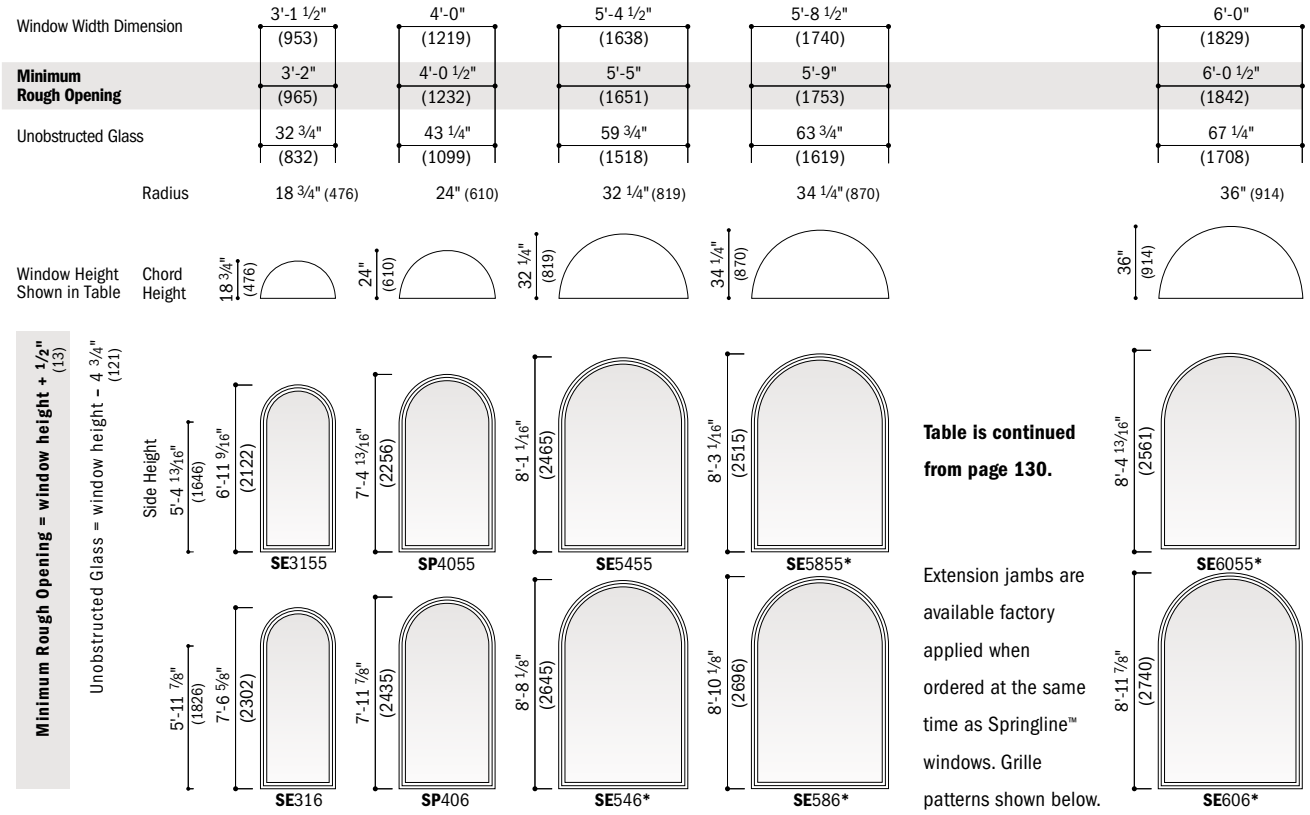


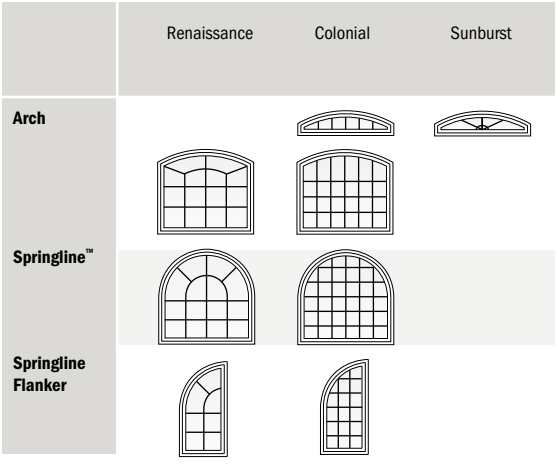
Table is continued from page 130.

Extension jambs are available factory applied when ordered at the same time as Springline™ windows. Grille patterns shown below.

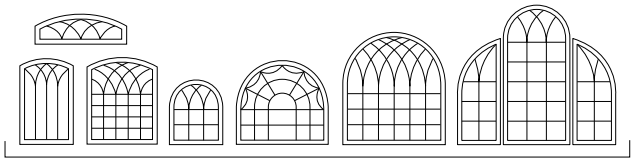
- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

*Tempered glass standard.

Grille Patterns



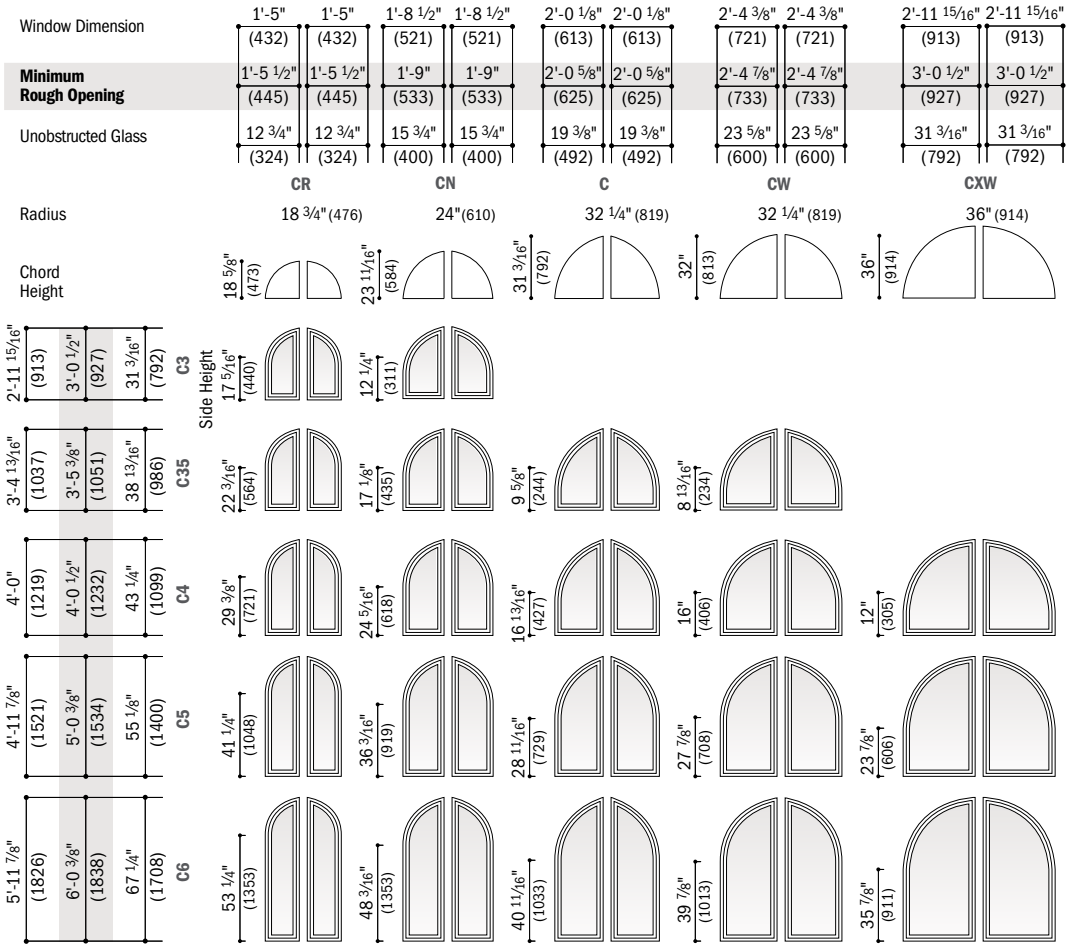
Number of lights and overall pattern varies with window size. Patterns not available in all configurations. Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.



Custom Pattern Examples

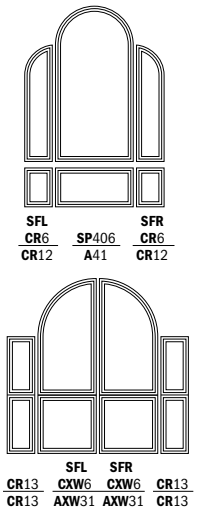
Table of Springline™ Flanker Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96



Window dimensions shown in table are compatible with standard casement window widths (**CR**, **CN**, **C**, **CW**, **CXW**) and heights (**C3**, **C35**, **C4**, **C5**, **C6**). Grille patterns shown on page 132.

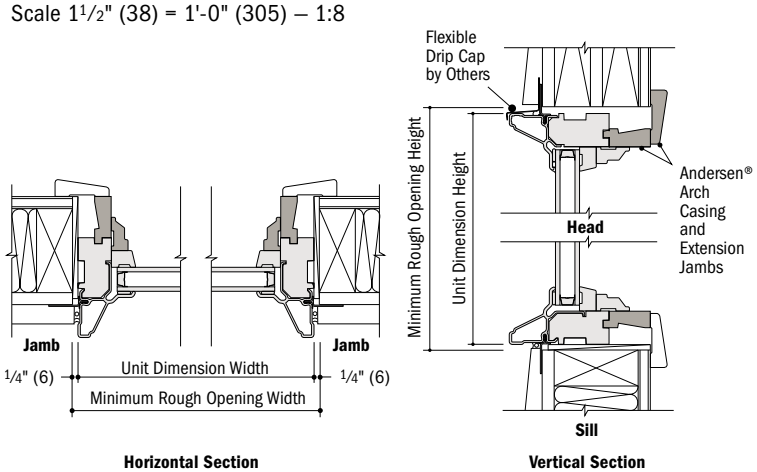
Examples:



- "Window Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

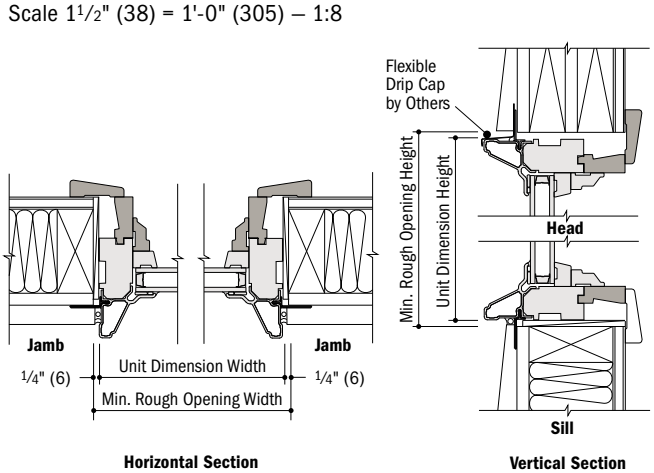
Arch Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Springline™ Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

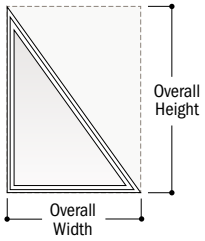
Flexiframe® Window Shapes and Design Criteria

Minimum and Maximum Limits

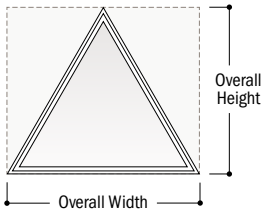
Flexiframe windows are available in many shapes and sizes with these limitations:

- **Maximum standard glass area of 60 sq. ft. or 5.57 m²**
- **Square footage is based on a square or rectangular shape**
- **No angle may be less than 14°**
- **No leg may be less than 6" (152) or greater than 144" (3658)**
- **No short side may be greater than 84" (2134)**
- **See product information below for additional limitations based on specific shapes**

Triangle

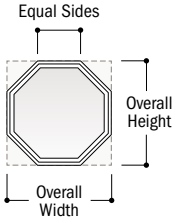


Right triangles contain one 90° corner. Specify overall width and overall height extending from the 90° corner.



Isosceles triangles contain two sides of equal length and equal angle. Specify overall width and overall height (sill to peak).

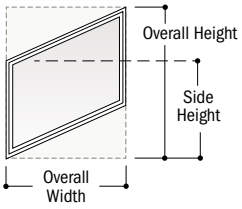
Octagon



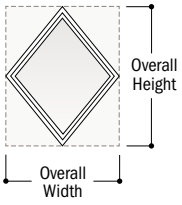
Octagons contain eight equal angles and sides. Specify length of equal side. Standard-size octagons are available in 2' (610), 2'-4" (711) and 3' (914) dimensions. See page 123.

• Dimensions in parentheses are in millimeters.

Parallelogram

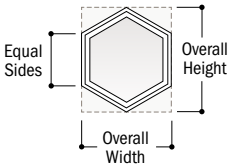


Parallelograms contain two pairs of parallel sides. Specify overall width along with side height and overall window height.

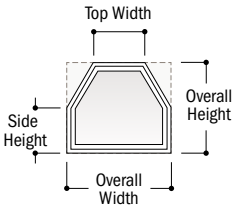


Diamonds contain two pairs of parallel and equal length sides. Specify overall width and overall height.

Hexagon

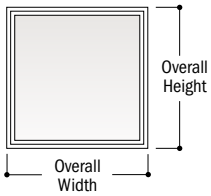


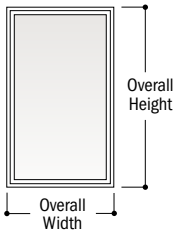
Hexagons contain six equal angles and sides. Specify length of equal sides.



Unequal hexagons contain three pairs of angles and two sets of equal-length sides. Top side is parallel to and centered over the sill. Specify overall width, top width, short side height and overall height.

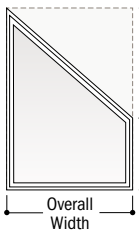
Rectangle

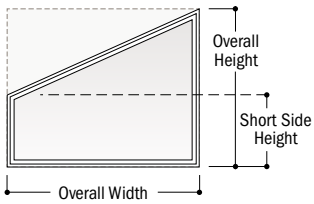




Rectangles contain four equal angles and two equal sides for rectangles, or four equal sides for squares. Specify overall width and overall height.

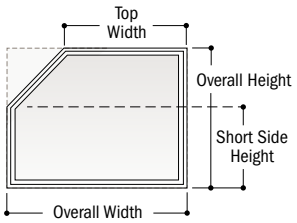
Trapezoid



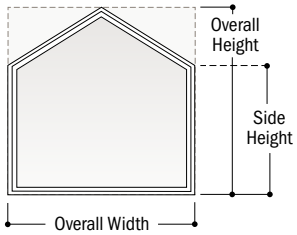


Trapezoids contain an angle face cut to left or right. Specify overall width along with short side height and overall height. Window's pitch is often designed to match a roof's pitch.

Pentagon



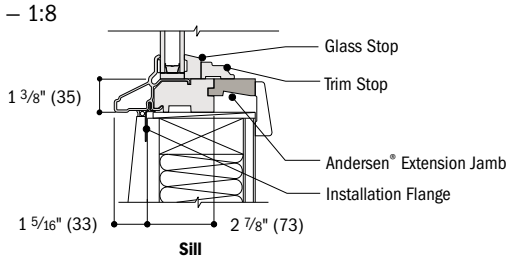
Angled pentagons contain an angle cut, or a "cut-off corner" sloping to left or right. Specify overall width and top width along with short side height and overall height.



Peak pentagons contain sides of equal length extending at right angles from the sill and two angled sides of equal length that peak above center of sill. Specify overall width, side height and overall height.

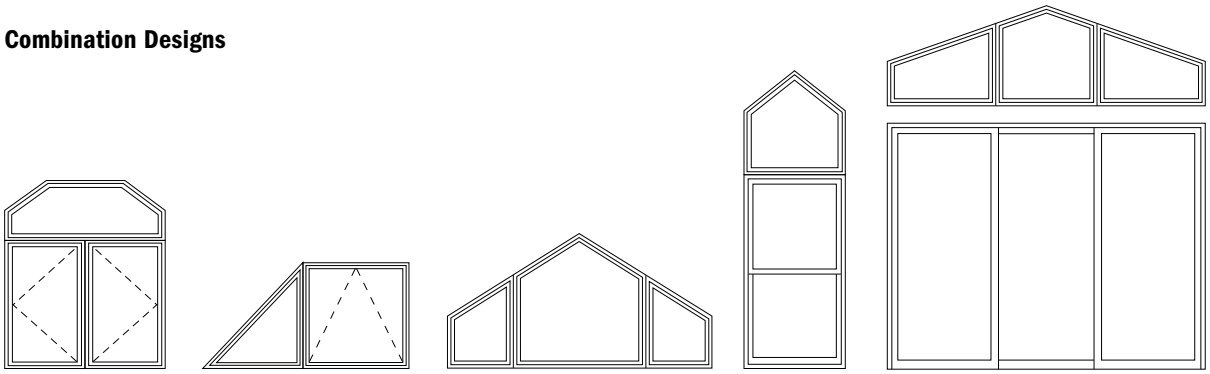
Flexiframe® Window Detail

Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

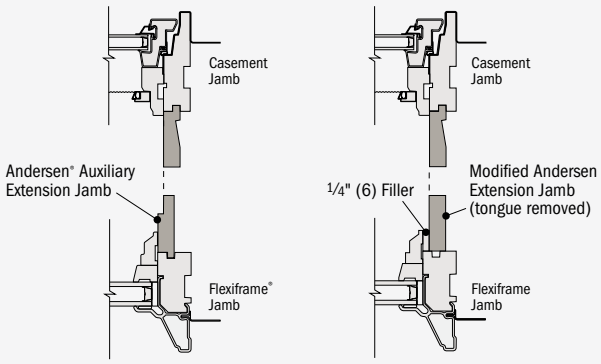
Combination Designs



Extension Jamb Alignment

For these joined 400 Series window combinations only:

- Arch, Springline™ or Flexiframe over Casement
- Arch, Springline or Flexiframe alongside Awning



Method A **Method B**

Method A: Individually Framed – Use optional Andersen auxiliary extension jambs for individual picture frame trimming.

Method B: Perimeter Framed – For continuous perimeter trimming, remove extension jamb tongue and use ¼" (6)-thick filler between Arch, Springline or Flexiframe trim stop and extension jamb.

Vertical (ribbon) Joining Detail

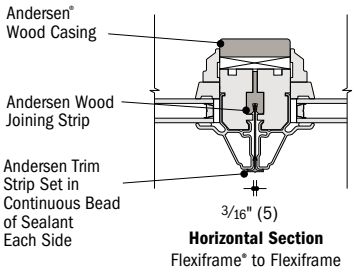
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Width

Sum of individual window widths plus 3/16" (5) for each join.

Overall Rough Opening Width

Overall window dimension width plus ½" (13).



Horizontal Section
Flexiframe® to Flexiframe

Horizontal joining on next page.

For more joining information, see the combination designs section starting on page 181.

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Horizontal (stack) Joining Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

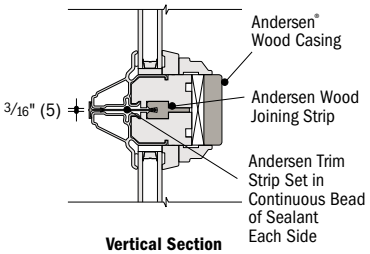
Flexiframe® over Flexiframe Window

Overall Window Dimension Height

Sum of individual window heights plus 3/16" (5) for each join.

Overall Rough Opening Height

Overall window dimension height plus 1/2" (13).



Vertical Section

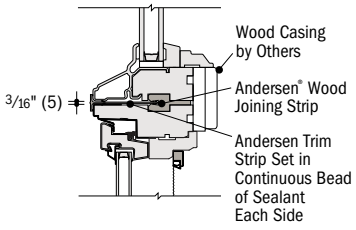
Flexiframe over Casement Window

Overall Window Dimension Height

Sum of individual window heights plus 3/16" (5) for each join.

Overall Rough Opening Height

Overall window dimension height plus 1/2" (13).



Vertical Section

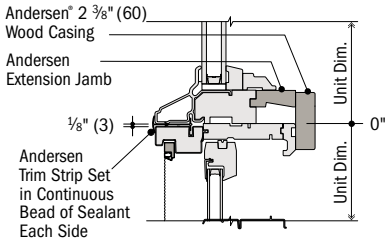
Flexiframe over Tilt-Wash Double-Hung Window

Overall Window Dimension Height

Sum of individual window heights plus 1/8" (3) for each join.

Overall Rough Opening Height

Overall window dimension height plus 1/2" (13).



Vertical Section

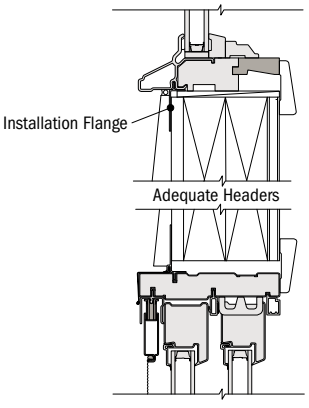
Vertical joining on previous page.

For more joining information, see the combination designs section starting on page 181.

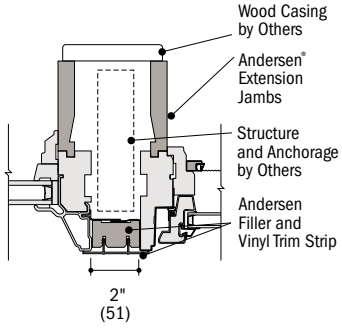
Separate Rough Openings Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Vertical Section
Flexiframe® and Perma-Shield® Gliding Patio Door



Horizontal Section
Flexiframe® Window and Awning Window

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.

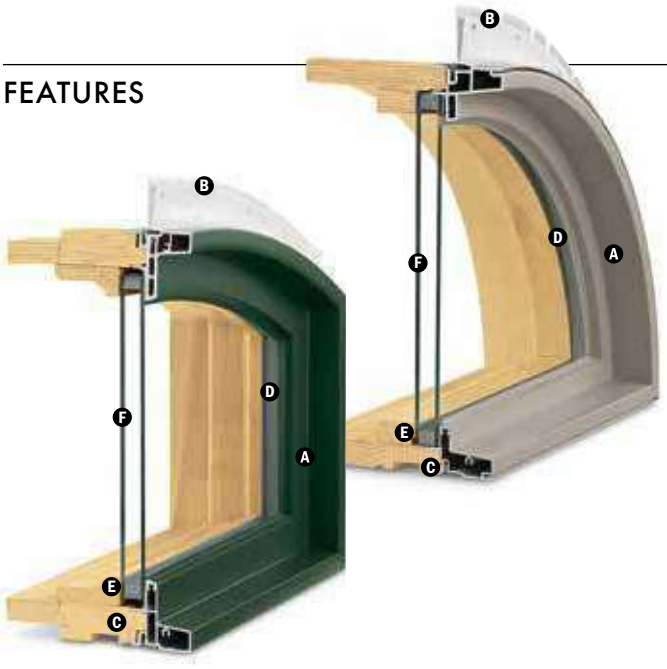
COMPLEMENTARY SPECIALTY WINDOWS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FEATURES



FRAME

A Heavy-duty aluminum cladding protects the frame exterior, providing low-maintenance durability. Standard cladding finish meets AAMA 2604 specification. An optional finish that meets the AAMA 2605 specification is also available.

B A vinyl installation flange extends 1½" (38) around the perimeter of the unit to help properly position the unit in the opening. Installation clips are standard for increased structural anchoring to building members. Mounted around the perimeter, the clips rotate into position and can be bent into place against the framing members to suit all jamb conditions.

C Wood frame members are treated with a water-repellent wood preservative for long-lasting* protection and performance. Radii are made of laminated pine veneers. Lineal components are solid or engineered wood with a pine core.

Jambs

A variety of basic unit jamb designs and depths are available to match 400 Series units. Specify desired jamb depth when ordering.

GLASS

D In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

E Silicone glazing bead combined with two-sided silicone tape provide superior weathertightness.

F High-Performance options include:

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

Tempered 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 job site.

Patterned Glass

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

StormWATCH PROTECTION

Complementary specialty windows are available with Stormwatch® Protection. For more details, visit **andersenwindows.com/coastal**.

CAUTION:

- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Visit andersenwindows.com/warranty for details.

Dimensions in parentheses are in millimeters.

Printing limitations prevent exact replication of colors. See your Andersen supplier for actual color samples.

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

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Prairie Grass | Sandtone | Terratone | Cocoa Bean

Dark Bronze | Red Rock | Forest Green | Dove Gray | Black

INTERIOR OPTIONS

Pine | Maple | Oak | White | Dark Bronze | Black

ACCESSORIES

FRAME

Extension Jambs

Standard jamb depths are 4 9/16" (116) or 2 7/8" (73). Extension jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Additional dimensions are available. Contact your supplier for more information. Extension jambs are available in unfinished pine or prefinished white, dark bronze and black. Available for job site application or can be factory applied.

Plinth Blocks

For enhancing casing transitions. Decorated with a radial sunburst or use the reverse side flush face.

For arch windows, use 2 7/8"(73) x 4"(102) size plinth block with 2 1/4" (57) and 2 1/2" (64) casing. With 3 1/2" (89) casing, use 3 7/8" (98) x 5 1/4" (133).

For half circle, circle and oval windows, use 2 7/8" (73) size plinth block with 2 1/4" (57) and 2 1/2" (64) casing. With 3 1/2" (89) casing, use 3 7/8" (98).

CASING

Interior Arch Casing

Available in Colonial or Ranch styles. Arch casings come with transition blocks or plinth blocks, depending on the product. For easy integration and consistency, casing dimensions are consistent with Wood Moulding and Millwork Producers Association specifications. Available in pine, maple and oak.

2 1/4" (57) Colonial style WM366

2 1/2" (64) Colonial style WM351

3 1/2" (89) Colonial style WM444

2 1/4" (57) Ranch style WM324
2 1/2" (64) Ranch style WM315

SHAPES

Andersen® complementary specialty windows are available in a variety of sizes. Fixed unit profiles may vary dependent upon shape. For specific sizes, details and joining information, contact your Andersen supplier.


Rectangle


Right Triangle


Isosceles Triangle


Trapezoid


Angled Pentagon


Peak Pentagon


Parallelogram


Hexagon


Diamond


Octagon


Unequal Hexagon


Gothic


Half Circle


Quarter Circle


Eyebrow


Partial Eyebrow


Elliptical


Extended Gothic


Springline™


Springline Flanker


Arch


Unequal Leg Arch


Circle


Oval

The additional specialty window shapes below are available by special order.


Partial Arch


Partial Elliptical


Reverse Partial Eyebrow


Extended Reverse Partial Eyebrow


Extended Reverse Eyebrow


Quatrefoil


Quarter Arch


Partial Extended Arch


Extended Raised Eyebrow

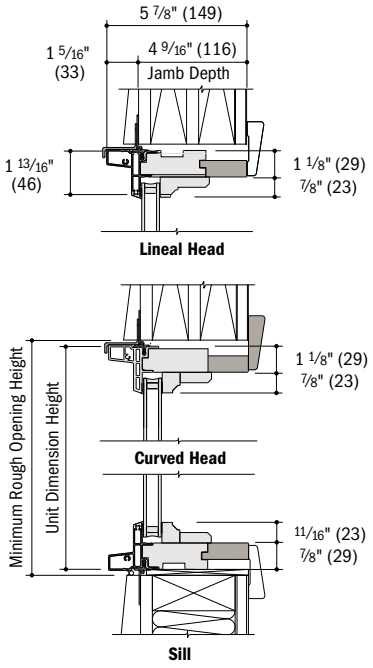

Extended Raised Eyebrow


Extended Elliptical

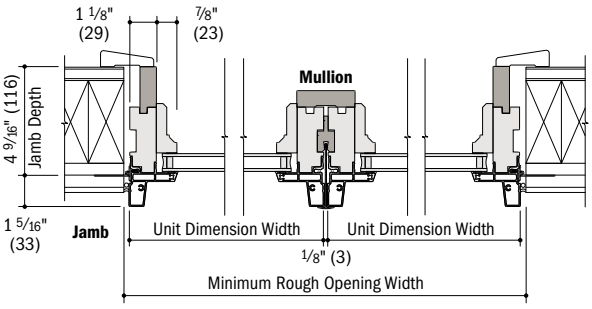
Complementary Specialty Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8

Complements 400 Series Casement, Awning and Picture Windows

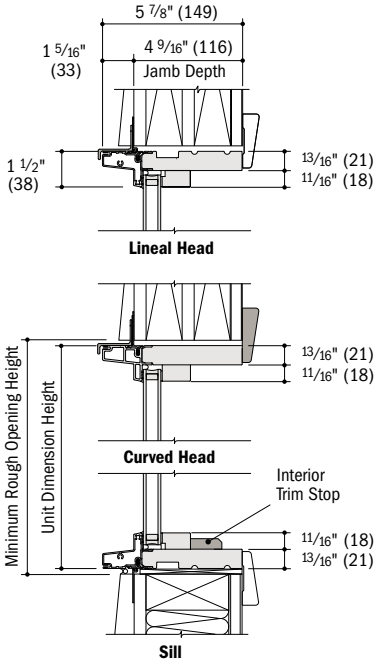


Vertical Section

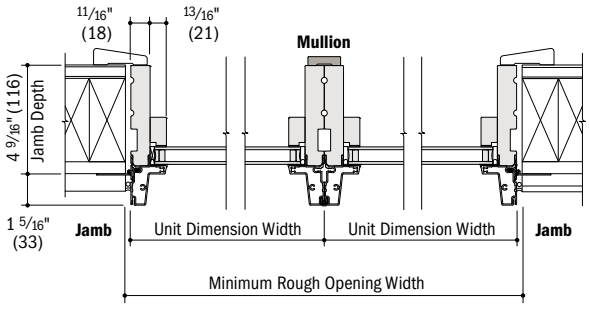


Horizontal Section

Complements 400 Series Double-Hung Windows and Patio Doors



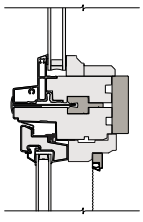
Vertical Section



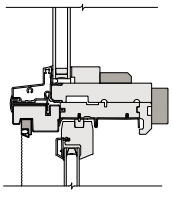
Horizontal Section

Horizontal (stack) Joining Detail

Scale 1½" (38) = 1'-0" (305) – 1:8



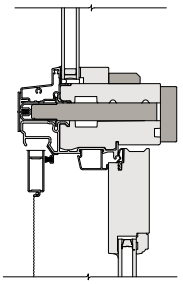
Vertical Section
Complementary Specialty over
400 Series Casement Window



Vertical Section
Complementary Specialty over
400 Series Tilt-Wash Double-Hung Window

Horizontal (stack) Joining Detail – LVL

Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section
Complementary Specialty over
400 Series Frenchwood® Hinged Inswing Patio Door

For more joining information, see the combination designs section starting on page 181.

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

FRENCHWOOD® GLIDING PATIO DOORS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FRENCHWOOD® GLIDING PATIO DOORS

FEATURES

FRAME

Ⓐ The sill has an extruded aluminum track, with a stainless steel cap that resists stains, rust and denting*. A thermal barrier reduces conductive heat loss and limits condensation on the inside. The sill has an attractive, wear-resistant, heat-baked finish in neutral gray.

Ⓑ All basic exterior frame members are covered with a rigid vinyl sheath that maintains an attractive appearance while minimizing maintenance.

Ⓒ Wood frame members are treated with a water-repellent preservative for long-lasting* protection and performance. Interior frame trim pieces are unfinished pine. Maple and oak veneers, or prefinished white interior options are available.

Factory-assembled two-panel doors are available and arrive at the job site ready to install. Unassembled doors are also available and require job site assembly.

Ⓓ A flexible vinyl weatherstrip at the head and side jambs provides a positive seal between the frame and panels.

PANEL

Ⓔ The exterior of the wood door panel is protected with a low-maintenance urethane base finish in white, Sandtone, Terratone or forest green.

Ⓕ Panel interior surfaces are unfinished pine veneer. Unfinished maple or oak veneers are available as options. Low-maintenance prefinished white interiors are also available on units with white exteriors.

Ⓖ Dual ball-bearing rollers on door panels provide smooth gliding operation with self-contained leveling adjusters.

*Visit andersenwindows.com/warranty for details.

Mix-and-match interior and exterior style and finish options are available.

Bright brass and satin nickel finishes feature a 10-year limited warranty.

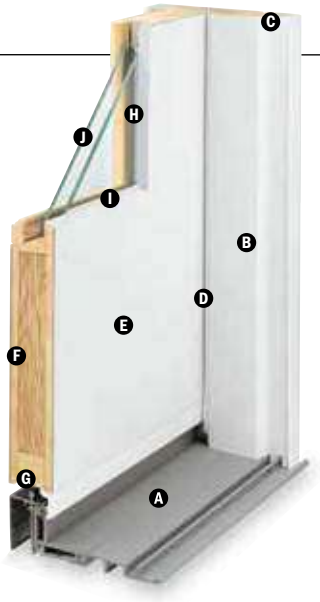
Tribeca and Albany hardware are zinc die cast with powder-coated durable finish. Other hardware is solid forged brass.

Dimensions in parentheses are in millimeters.

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

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

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



Mortise-and-Tenon Joints

Panel joints are mortise and tenon with patented dowel construction for maximum strength.

Flexible Seal

A full-length combination weatherstrip/interlock system provides a flexible seal at the meeting stile.

GLASS

Ⓗ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓘ Panels are silicone bed glazed and finished with an interior wood stop.

Ⓙ High-Performance options include:

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

Additional 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 job site.

Patterned Glass

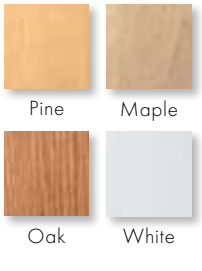
Patterned glass options are available. See page 12 for more details.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Sandtone | Terratone | Forest Green

INTERIOR OPTIONS



Pine | Maple | Oak | White

HARDWARE OPTIONS Sold Separately

ANVERS®
Bright Brass
Oil Rubbed Bronze
Satin Nickel

YUMA®
Distressed Bronze
Distressed Nickel

NEWBURY®
Antique Brass
Bright Brass
Brushed Chrome
Oil Rubbed Bronze
Polished Chrome
Satin Nickel

ALBANY
Black
Gold Dust
Stone
White

COVINGTON™
Antique Brass
Bright Brass
Oil Rubbed Bronze

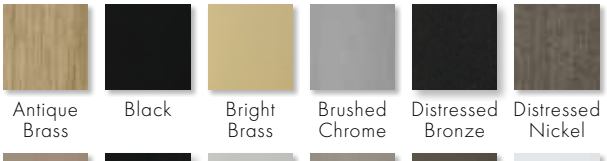
ENCINO®
Distressed Bronze
Distressed Nickel

WHITMORE®
Antique Brass
Bright Brass
Oil Rubbed Bronze
Satin Nickel

TRIBECA®
Black
Stone
White

Bold name denotes finish shown.

HARDWARE FINISHES



Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

ACCESSORIES Sold Separately

Blinds-Between-the-Glass

Blinds-between-the-glass are available for select gliding patio door sizes when ordered with Low-E4® tempered glass, and a pine or prefinished white door interior and any of our four exterior colors. White ½" (13) aluminum slat blinds come mounted between two panes of insulated glass in a dust-free environment. Blinds are magnetically controlled and can be tilted, raised and lowered using low-profile controls. Smooth, simple operation allows for customized light and privacy control. Available in 3368, 33611, 6068, 60611, 12068-4 and 120611-4 door sizes.

HARDWARE

Reachout Locking Hardware

The unique Andersen® reachout locking hardware pulls the door panel snugly into the jamb for a weathertight seal and enhanced security.

FRAME

Standard jamb depth is 4 9/16" (116). Pine, maple and oak veneers or prefinished white interior extension jambs are available in 1/16" (1.5) increments between 5 1/16" (116) and 7 1/8" (181).

Threshold

A maple or oak threshold is available for finishing the interior of the sill.

Ramped Sill Insert

Ramped sills in maple or oak provide smooth transition from interior to exterior, and can be used with a retractable insect screen but not a gliding insect screen. Check with local and federal officials to determine if product meets accessibility codes.

Sill Support

An aluminum sill support is designed to lock into a channel under the sill and tie back into the wall. This offers support to the outermost sill section when needed. Available in a neutral gray finish.

HARDWARE

Exterior Keyed Lock

A six-pin key cylinder lock is available in finishes that coordinate with the hardware. This lock allows the gliding door to be locked and unlocked from the exterior.

Auxiliary Foot Lock

Provides an extra measure of security when the door is in a locked position. Lock can be set so the door is fully closed or partially open to provide a secure venting position. Available in all hardware finishes.

GLASS

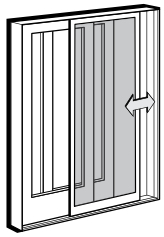
Andersen Art Glass

Andersen art glass panels come in a variety of original patterns. Available for stationary panels, sidelights and transoms. See art glass section starting on page 173 for more information or visit **andersenwindows.com/artglass**.

INSECT SCREENS

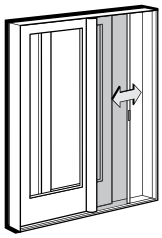
All insect screens have a long-lasting* fiberglass screen mesh with a charcoal finish, and frames are color matched to the exterior of the door unless otherwise specified.

Gliding Insect Screen



Patented square-corner joint construction adds considerable strength to the frame members. The insect screen is available for both two-panel doors and four-panel doors. Gliding insect screens have Delrin® injection-molded bottom rollers with self-contained leveling adjusters, providing smooth operation. Interior and exterior pulls and latch are provided.

Retractable Insect Screen



The retractable insect screen is installed on the exterior of the door and opens side to side across the width of the opening. When the insect screen is not in use, it neatly retracts into a small canister mounted on the exterior of the door. The retractable insect screen canister is available for two-panel patio doors in our four standard exterior colors. Please note that the retractable insect screen track reduces clear opening height by 1" (25).

GRILLES

Grilles are available in a variety of configurations and widths. For patio door grille patterns, see page 155.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

SIDELIGHTS & TRANSOMS

Andersen Frenchwood® patio door sidelights and transoms feature elegant lines that match our Frenchwood gliding patio doors. They feature pine, maple, oak and prefinished white interior options, plus our four standard exterior colors. Stationary units can also be selected for use as sidelights. For details, see pages 159-162.

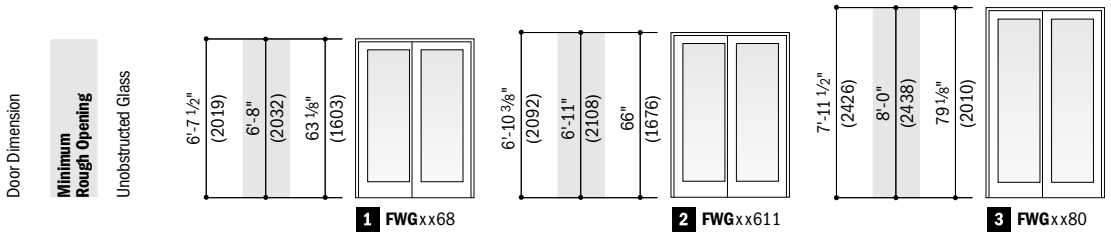
CAUTION:

- Painting and staining may cause damage to rigid vinyl.
- 400 Series patio door in Terratone color may be painted any color lighter than Terratone color using quality oil-based or latex paint.
- Do not paint 400 Series patio doors in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Visit andersenwindows.com/warranty for details.
"Delrin" is a registered trademark of E.I. du Pont de Nemours and Company.
Andersen patio doors are not intended for use as entrance doors.
Dimensions in parentheses are in millimeters.

FRENCHWOOD® GLIDING PATIO DOORS

Three Patio Door Heights

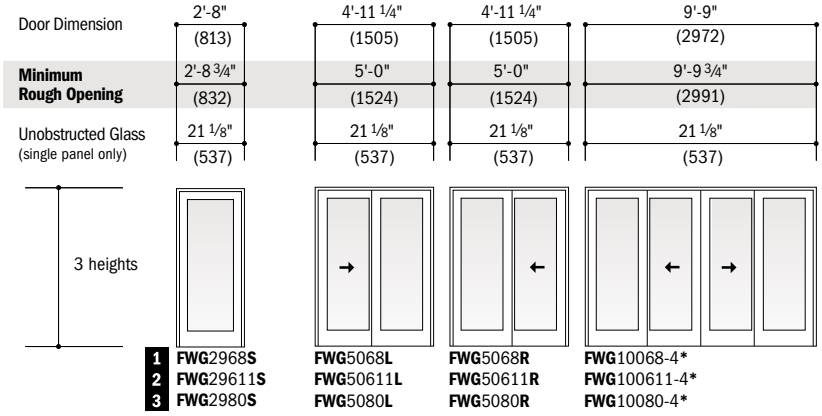


1 **FWG**xx68 **2** **FWG**xx611 **3** **FWG**xx80

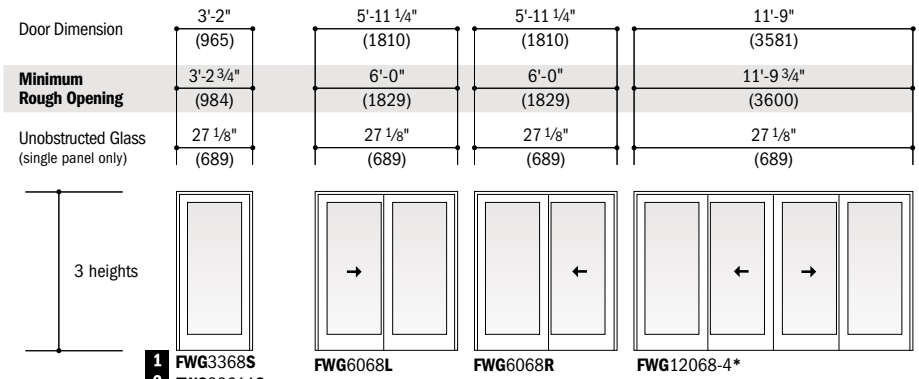
For all four-panel gliding patio doors, add 1/4" (6) to the "Minimum Rough Opening" height dimension.

Table of Frenchwood® Gliding Patio Door Sizes

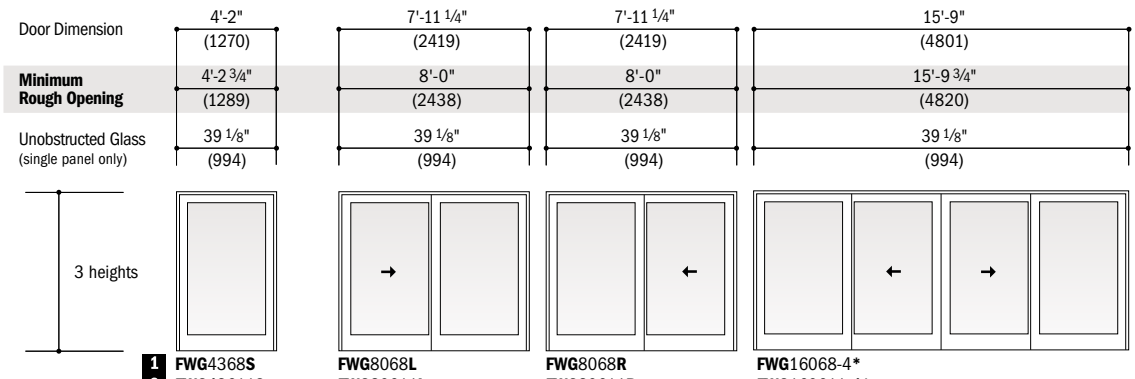
Scale 1/8" (3) = 1'-0" (305) – 1:96



1	**FWG**2968**S**	**FWG**5068**L**	**FWG**5068**R**	**FWG**10068-4*
2	**FWG**29611**S**	**FWG**50611**L**	**FWG**50611**R**	**FWG**100611-4*
3	**FWG**2980**S**	**FWG**5080**L**	**FWG**5080**R**	**FWG**10080-4*



1	**FWG**3368**S**	**FWG**6068**L**	**FWG**6068**R**	**FWG**12068-4*
2	**FWG**33611**S**	**FWG**60611**L**	**FWG**60611**R**	**FWG**120611-4*
3	**FWG**3380**S**	**FWG**6080**L**	**FWG**6080**R**	**FWG**12080-4*



1	**FWG**4368**S**	**FWG**8068**L**	**FWG**8068**R**	**FWG**16068-4*
2	**FWG**43611**S**	**FWG**80611**L**	**FWG**80611**R**	**FWG**160611-4*
3	**FWG**4380**S**	**FWG**8080**L**	**FWG**8080**R**	**FWG**16080-4*

Custom-size doors are available in 1/8" (3) increments. See page 145 for custom sizes and specifications.

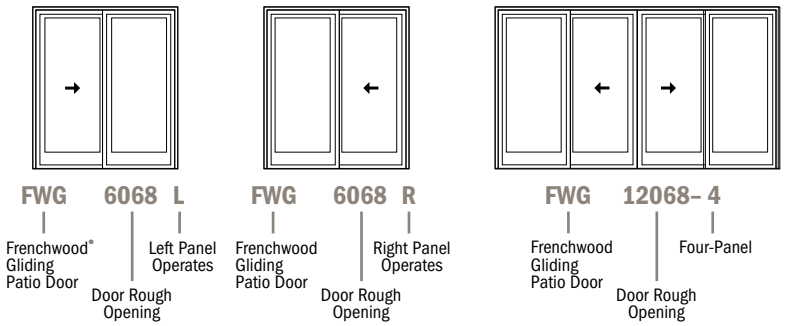
Viewed from the exterior. Arrow indicates direction of panel operation. Stationary (**S**) doors can be used as an individual unit or as a sidelight. Two-panel doors are available factory assembled and arrive at the jobsite ready to install.

Grille patterns shown on page 155.

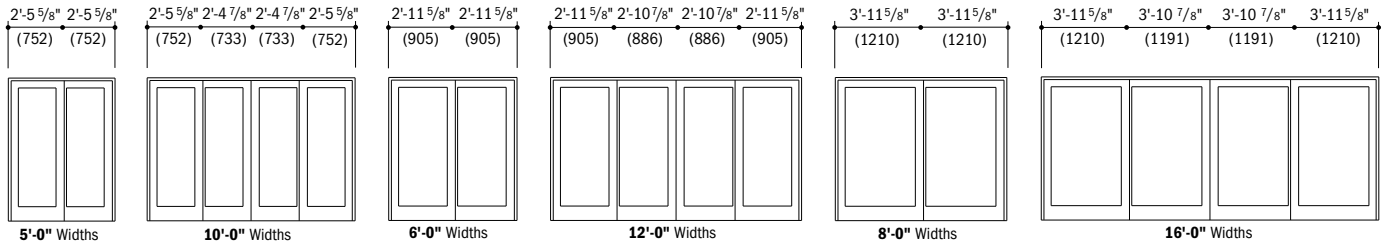
- "Door Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.
- *Add 1/4" (6) to the "Minimum Rough Opening" height dimension for four-panel doors.

Order Designation Description

Viewed from the exterior.

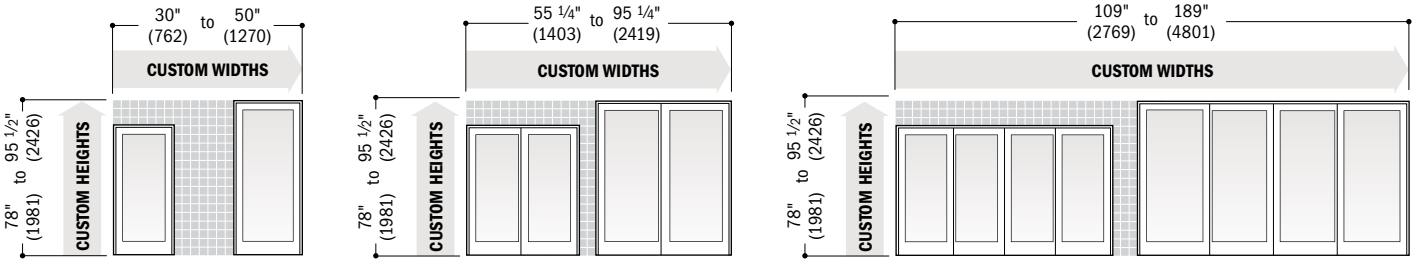


Frenchwood® Gliding Patio Door Centerline Astragal Dimensions



Custom Sizes and Specification Formulas

Available in 1/8" (3) increments between minimum and maximum widths and heights shown. Some restrictions apply. Measurement guide for custom-size patio doors can be found at **andersenwindows.com/measure**.



Clear Opening	**Two-Panel** **Width** = (width ÷ 2) – 7.773" (197) **Height** = height – 4.155" (106) **Four-Panel** **Width** = (width ÷ 2) – 14.322" (364) **Height** = height – 4.155" (106)	**Minimum R.O.**	**Single-Panel and Two-Panel** **Width** = width + 3/4" (19) **Height** = height + 1/2" (13) **Four-Panel** **Width** = width + 3/4" (19) **Height** = height + 3/4" (19)	**Unobst. Glass**	**Single-Panel** **Width** = width – 10.876" (276) **Height** = height – 16.391" (416) **Two-Panel** **Width** = width – 17.002" (432) **Height** = height – 16.391" (416) **Four-Panel** **Width** = width – 32.504" (826) **Height** = height – 16.391" (416)

• Dimensions in parentheses are in millimeters.
• **Clear Opening** formulas provide dimensions for determining area available for egress. Vent opening, or area available for passage of air, is equal to clear opening. **Minimum R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

Two-Panel and Four-Panel Frenchwood® Gliding Patio Door Opening and Area Specifications

Door Number	Clear Opening Area Sq. Ft./(m²)		Clear Opening in Full Open Position Width Inches/(mm)		Height Inches/(mm)		Glass Area Sq. Ft./(m²)		Vent Area Sq. Ft./(m²)		Overall Door Area Sq. Ft./(m²)	
FWG5068	11.43	(1.06)	21 13/16"	(555)	75 5/16"	(1914)	18.52	(1.72)	11.43	(1.06)	32.71	(3.04)
FWG6068	14.57	(1.35)	27 13/16"	(707)	75 5/16"	(1914)	23.77	(2.21)	14.57	(1.35)	39.34	(3.65)
FWG8068	20.85	(1.94)	39 13/16"	(1012)	75 5/16"	(1914)	34.29	(3.19)	20.85	(1.94)	52.59	(4.89)
FWG10068	23.12	(2.15)	44 1/8"	(1122)	75 5/16"	(1914)	37.03	(3.44)	23.12	(2.15)	64.59	(6.00)
FWG12068	29.39	(2.73)	56 1/8"	(1427)	75 5/16"	(1914)	47.55	(4.42)	29.39	(2.73)	77.84	(7.23)
FWG16068	41.95	(3.90)	80 1/8"	(2037)	75 5/16"	(1914)	68.59	(6.37)	41.95	(3.90)	104.34	(9.69)
FWG50611	11.87	(1.10)	21 13/16"	(555)	78 3/16"	(1987)	19.36	(1.80)	11.87	(1.10)	33.89	(3.15)
FWG60611	15.13	(1.41)	27 13/16"	(707)	78 3/16"	(1987)	24.86	(2.31)	15.13	(1.41)	40.76	(3.79)
FWG80611	21.65	(2.01)	39 13/16"	(1012)	78 3/16"	(1987)	35.85	(3.33)	21.65	(2.01)	54.49	(5.06)
FWG100611	24.00	(2.23)	44 1/8"	(1122)	78 3/16"	(1987)	38.72	(3.60)	24.00	(2.23)	66.93	(6.22)
FWG120611	30.52	(2.83)	56 1/8"	(1427)	78 3/16"	(1987)	49.72	(4.62)	30.52	(2.83)	80.66	(7.49)
FWG160611	43.55	(4.05)	80 1/8"	(2037)	78 3/16"	(1987)	71.71	(6.66)	43.55	(4.05)	108.12	(10.04)
FWG5080	13.86	(1.29)	21 13/16"	(555)	91 5/16"	(2320)	23.21	(2.16)	13.86	(1.29)	39.29	(3.65)
FWG6080	17.67	(1.64)	27 13/16"	(707)	91 5/16"	(2320)	29.80	(2.77)	17.67	(1.64)	47.25	(4.39)
FWG8080	25.28	(2.35)	39 13/16"	(1012)	91 5/16"	(2320)	42.99	(3.99)	25.28	(2.35)	63.17	(5.87)
FWG10080	28.02	(2.60)	44 1/8"	(1122)	91 5/16"	(2320)	46.42	(4.31)	28.02	(2.60)	77.59	(7.21)
FWG12080	35.64	(3.31)	56 1/8"	(1427)	91 5/16"	(2320)	59.60	(5.54)	35.64	(3.31)	93.51	(8.69)
FWG16080	50.86	(4.73)	80 1/8"	(2037)	91 5/16"	(2320)	85.97	(7.99)	50.86	(4.73)	125.34	(11.64)

• Dimensions in parentheses are in millimeters or square meters

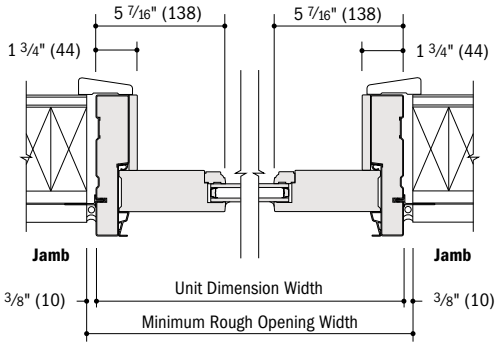
Stationary Frenchwood Gliding Patio Door Area Specifications

Door Number	Glass Area Sq. Ft./(m²)		Overall Door Area Sq. Ft./(m²)	
FWG2968	9.26	(0.86)	17.67	(1.64)
FWG3368	11.89	(1.11)	20.98	(1.95)
FWG4368	17.15	(1.59)	27.60	(2.56)
FWG29611	9.68	(0.90)	18.31	(1.70)
FWG33611	12.43	(1.16)	21.74	(2.02)
FWG43611	17.93	(1.67)	28.60	(2.66)
FWG2980	11.60	(1.08)	21.22	(1.97)
FWG3380	14.90	(1.38)	25.20	(2.34)
FWG4380	21.49	(2.00)	33.16	(3.08)

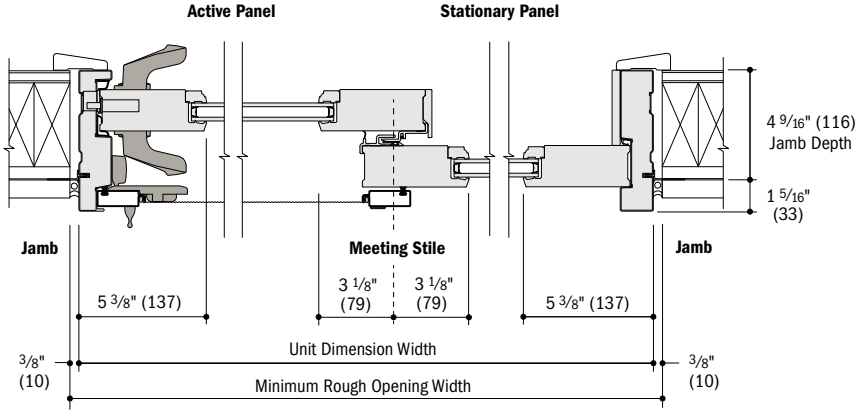
• Dimensions in parentheses are in square meters

Frenchwood Gliding Patio Door Details

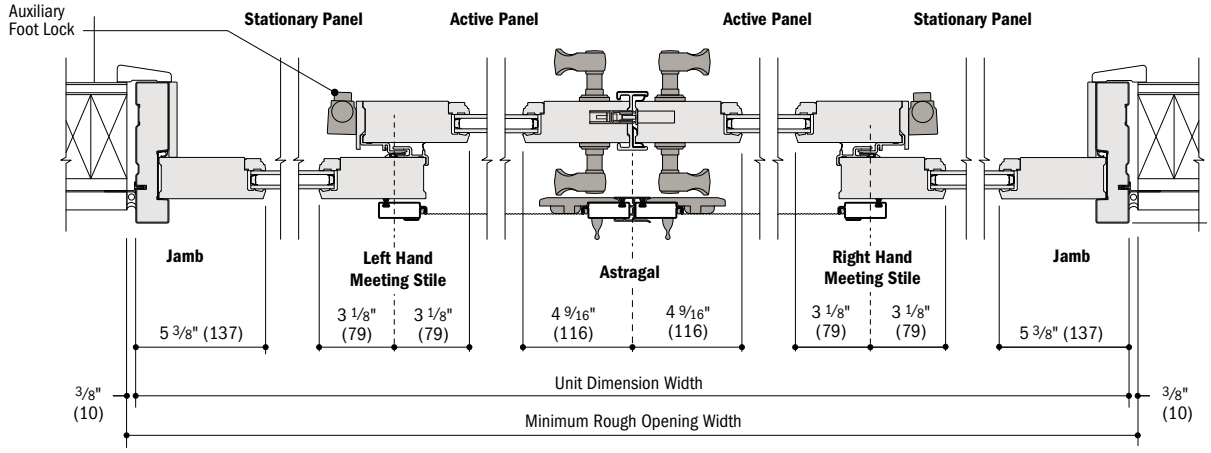
Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section
Stationary



Horizontal Section
Two-Panel

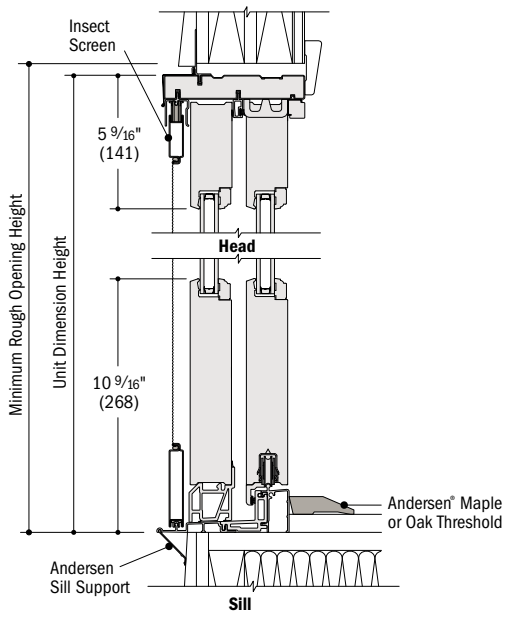


Horizontal Section
Four-Panel

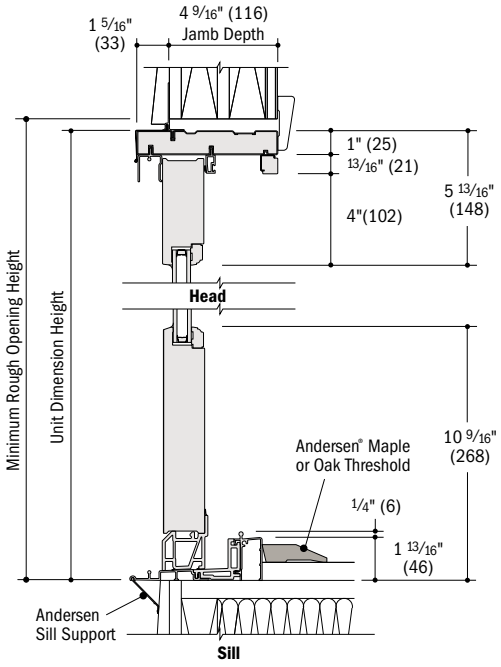
• 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
• Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
• **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
• 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.

Frenchwood® Gliding Patio Door Details

Scale 1½" (38) = 1'-0" (305) – 1:8



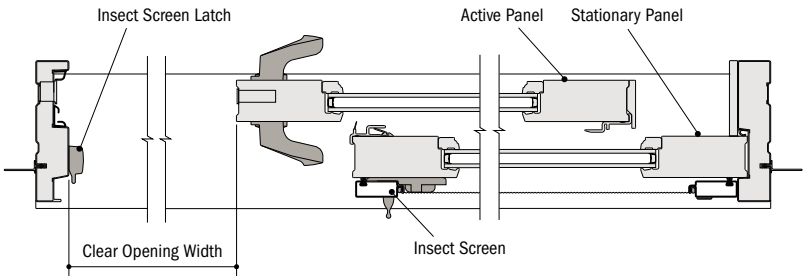
Vertical Section



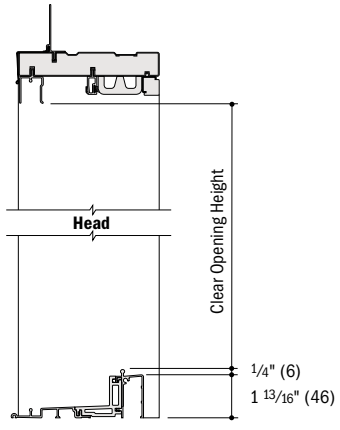
Vertical Section
Stationary

Clear Opening Details

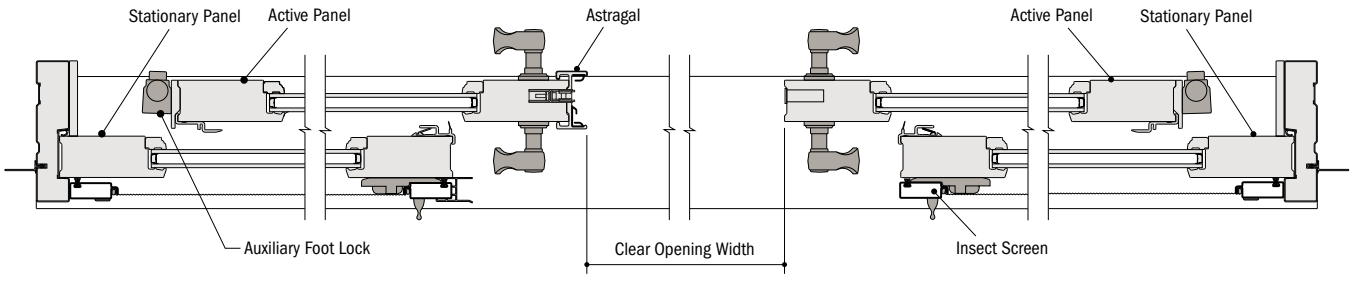
Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section
Two-Panel



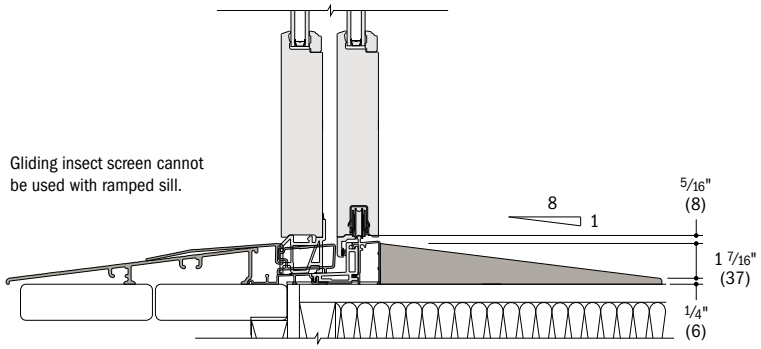
Vertical Section



Horizontal Section
Four-Panel

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Ramped Sill Detail
Scale 1½" (38) = 1'-0" (305) – 1:8



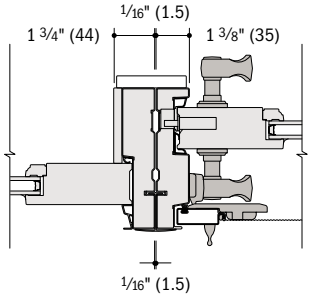
Vertical Joining Detail
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Door Dimension Width

Sum of individual door widths plus 1/16" (1.5) for each join.

Overall Rough Opening Width

Overall door width plus 3/4" (19).



Horizontal Section
Frenchwood® Gliding to Frenchwood Gliding

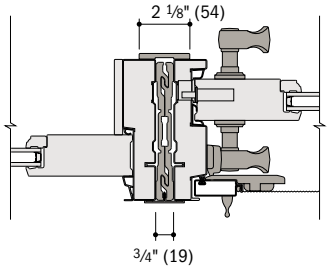
Vertical Joining Detail – Fiberglass
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Door Dimension Width

Sum of individual door widths plus 3/4" (19) for each join.

Overall Rough Opening Width

Overall door width plus 3/4" (19).



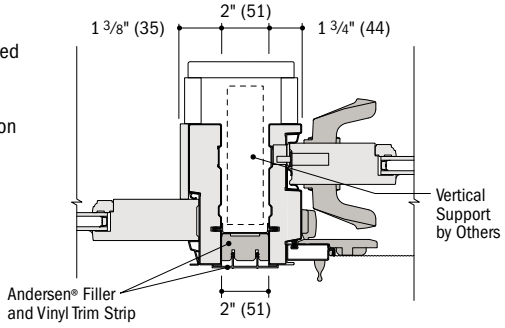
Horizontal Section
Frenchwood® Gliding to Frenchwood Gliding

Andersen does not recommend joining of receiver jamb to receiver jamb.

For more joining information, see the combination designs section starting on page 181.

Separate Rough Openings Detail
Scale 1½" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, doors may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Horizontal Section
Frenchwood® Gliding and Frenchwood Gliding

- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Andersen recommends installation of doors into separate rough openings. Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.

FRENCHWOOD® HINGED INSWING PATIO DOORS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FRENCHWOOD® HINGED INSWING PATIO DOORS

FEATURES

FRAME

A The sill is made with three-piece construction. The subsill is made of Fibrex® material, and the sill step is solid oak. The exterior sill member is made of extruded aluminum with an attractive wear-resistant, heat-baked finish in neutral gray. This combination of materials combines durability and low maintenance with excellent insulating characteristics.

B All basic exterior frame members are fiberglass reinforced composite, which maintains an attractive appearance while minimizing maintenance.

C The exterior frame members are attached to a water-repellent preservative-treated wood subframe for long-lasting* protection and performance. The subframe is grooved to accept extension jambs.

PANEL

D Panel interior surfaces are unfinished pine veneer. Unfinished maple or oak veneers are available as options. Low-maintenance prefinished white interiors are also available.

Hinged inswing operating panels are left-hand active, right-hand active or two-panel active-passive jamb hinged.

E The exterior of the wood door panel is protected with a long-lasting* urethane base finish available in white, Sandtone, Terratone and forest green.

F A factory-applied, one-piece compression-type rubber weatherstrip continues in one plane around the panel to provide maximum effectiveness against water and air infiltration. Corners of the weatherstrip are welded to eliminate gaps between the panel and the frame/sill shoulder.

Mortise-and-Tenon Joints

Mortise and tenon joints prevent panel sag and maintain smooth operation.

GLASS

G In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

H Panels are silicone bed glazed and finished with an interior wood stop.

I High-Performance options include:

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

Additional 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 job site.

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

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Sandtone | Terratone | Forest Green

INTERIOR OPTIONS

Pine | Maple | Oak | White

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

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

HARDWARE OPTIONS Sold Separately

ANVERS®
Bright Brass
Oil Rubbed Bronze
Satin Nickel

YUMA®
Distressed Bronze
Distressed Nickel

NEWBURY®
Antique Brass
Bright Brass
Brushed Chrome
Oil Rubbed Bronze
Polished Chrome
Satin Nickel

ALBANY
Black
Gold Dust
Stone
White

COVINGTON™
Antique Brass
Bright Brass
Oil Rubbed Bronze

ENCINO®
Distressed Bronze
Distressed Nickel

WHITMORE®
Antique Brass
Bright Brass
Oil Rubbed Bronze
Satin Nickel

TRIBECA®
Black
Stone
White

Bold name denotes finish shown.

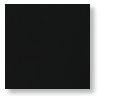
HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

FSB® HARDWARE & FINISHES

1035 | 1075 | 1076 | 1102**



Black Anodized Aluminum

Satin Stainless Steel

*Visit andersenwindows.com/warranty for details.
**FSB style 1102 is not available in black anodized aluminum.
"FSB" is a registered trademark of Franz Schneider Brakel GmbH & Co.
Matching hinges are available for inswing patio doors.

Mix-and-match interior and exterior style and finish options are available; excludes FSB hardware.
Bright brass and satin nickel finishes feature a 10-year limited warranty.
Tribeca and Albany hardware are zinc die cast with powder-coated durable finish. Other hardware is solid forged brass.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.

ACCESSORIES Sold Separately

Blinds-Between-the-Glass

Blinds-between-the-glass are available for select hinged patio door sizes when ordered with Low-E4® tempered glass, and a pine or prefinished white door interior and any of our four exterior colors. White ½" (13) aluminum slat blinds come mounted between two panes of insulated glass in a dust-free environment. Blinds are magnetically controlled and can be tilted, raised and lowered using low-profile controls. Smooth, simple operation allows for customized light and privacy control. Available in 2768, 27611, 3168, 31611, 5068, 50611, 6068, 60611, 9068 and 90611 door sizes.

HARDWARE

Hinges

Adjustable hinges are standard on inswing patio doors and have ball-bearing pivots for smooth, frictionless movement. Feature easy horizontal and vertical adjustment, plus quick-release for easy panel removal. The release feature is ideal for transporting large units up stairs or to other hard-to-reach areas.

Gold dust finish

Gold dust finish is standard on wood interior doors. For units with prefinished white interior, white is standard. Also available in finishes that coordinate with the hardware.

Multi-Point Locking System

The multi-point locking system, with a hook bolt above and below the center dead bolt, provides a weathertight seal and enhanced security.

FRAME

Interior Extension Jambs

Standard jamb depth is 4 9/16" (116). Pine, maple and oak veneers, or prefinished white extension jambs are available in 1/16" (1.5) increments between 5 1/16" (129) and 7 1/8" (181). Interior extension jambs on inswing units will restrict the full opening of the door.

Exterior Extension Jambs*

Exterior extension jamb system is available for the following wall thicknesses: 5 1/4" (133), 6 9/16" (167) and 7 9/16" (192). In walls over 4 1/2" (114), the exterior sill extender and exterior extension jamb system allows the unit to be installed flush to the interior, so the hinged doors will open flat against the interior wall. Color matched to the exterior of the finished unit, this system provides a low-maintenance, finished exterior appearance. An extended double-insect screen track is available for jamb-hinged doors that require gliding insect screens. Exterior extension jamb kits are available with or without the double-insect screen track.

Threshold

A maple or oak threshold is available for finishing the interior of the sill.

Ramped Sill Insert

Ramped sills in maple or oak provide smooth transition from interior to exterior. Ramped sill cannot be used with insect screens. Check with local and federal officials to determine if product meets accessibility codes. Shown with a Frenchwood® gliding patio door.

Sill Support

An aluminum sill support is designed to lock into a channel under the sill and tie back into the wall. This offers support to the outermost sill section when needed. Available in a neutral gray finish.

HARDWARE

Exterior Keyed Lock

A six-pin key cylinder lock is available in styles and finishes that coordinate with the hardware. This lock allows the hinged patio door to be locked and unlocked from the exterior.

Handle Extension

Extends interior door handle an additional 1" (25) from the door interior panel to accommodate blinds or shades. Kit includes one handle extender and spindle. A second extender may be added to increase the length an additional 1" (25) to a 2" (51) total extension. Extenders are available in finishes that coordinate with hardware.

Strike Plate Extensions

Bright brass, antique brass, polished chrome, oil rubbed bronze, brushed chrome and satin nickel strike plate extensions are available for the following wall thicknesses: 5 1/4" (133), 6 9/16" (167), 7 1/8" (181) and 7 9/16" (192).

Construction Lock

This hardware can be used on all Andersen® hinged doors to help secure the structure during the construction phase of the project. It features an undersized escutcheon plate, which makes on-site finishing easier.

Panel Stop

This hinged door panel stop helps prevent wall damage when opening the inswing door. Available in finishes that coordinate with the hardware.

GLASS

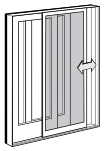
Andersen® Art Glass

Andersen art glass panels come in a variety of original patterns. Available for stationary panels, sidelights and transoms. See art glass section starting on page 173 for more information or visit andersenwindows.com/artglass.

INSECT SCREENS

All insect screens have a long-lasting** fiberglass screen mesh with a charcoal finish, and frames are color matched to the exterior of the door unless otherwise specified.

Gliding Insect Screen

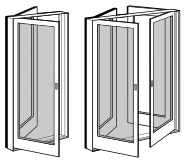


Available for all two- and three-panel doors. Features Delrin® material injection-molded bottom rollers with self-contained leveling adjusters. A double insect screen track is required for two-panel active-passive or passive-active doors. Gliding insect screens are not available for 4' (1219)-wide doors.

Double-Insect Screen Track

An extended insect screen track is required for two-panel active-passive or passive-active hinged doors that use gliding insect screens.

Hinged Insect Screens



Available for single-panel hinged doors, and two-panel active-passive or passive-active doors.

GRILLES

Available in a variety of configurations and widths. See page 155.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

SIDELIGHTS & TRANSOMS

Andersen Frenchwood patio door sidelights and transoms feature elegant lines that match our Frenchwood hinged patio doors. See pages 159-162 for details.

CAUTION:

- Painting and staining may cause damage to rigid vinyl.
- Do not paint 400 Series patio doors in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.

See page 143 for a complete list of painting, staining and cleaning cautions.

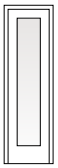
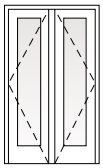
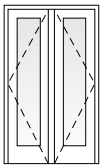
*Exterior extension jambs for hinged inswing patio doors must be applied before installing into opening.
**Visit andersenwindows.com/warranty for details.

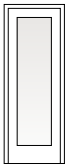
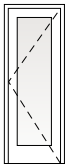
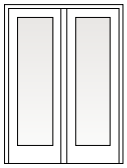
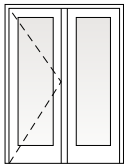
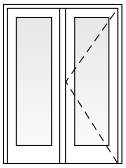
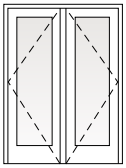
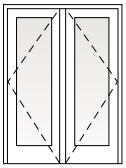
Andersen patio doors are not intended for use as entrance doors.
Dimensions in parentheses are in millimeters.

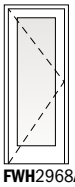
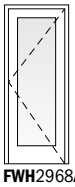
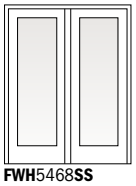
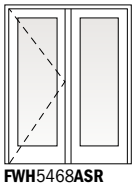
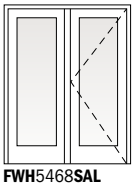
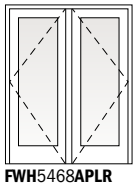
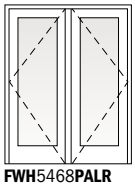
FRENCHWOOD® HINGED INSWING PATIO DOORS

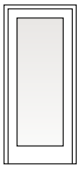
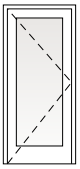
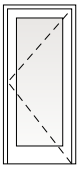
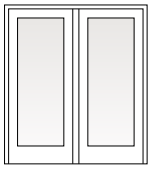
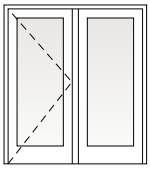
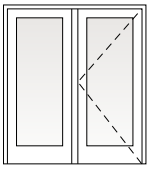
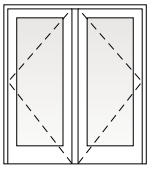
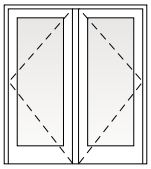
Table of Frenchwood® Hinged Inswing Patio Door Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Door Dimension	2'-0 1/2" (620)			4'-0" (1219)	4'-0" (1219)			
Minimum Rough Opening	2'-1" (634)			4'-1" (1242)	4'-1" (1242)			
Unobstructed Glass (single panel only)	13 1/4" (336)			13 1/4" (336)	13 1/4" (336)			
3 heights								
1	**FWH**2168**S**			**FWH**4168**APLR**	**FWH**4168**PALR**			
2	**FWH**21611**S**			**FWH**41611**APLR**	**FWH**41611**PALR**			
3	**FWH**2180**S**			**FWH**4180**APLR**	**FWH**4180**PALR**			

Door Dimension	2'-6 1/8" (765)	2'-6 1/8" (765)	2'-6 1/8" (765)	4'-11 1/4" (1504)	4'-11 1/4" (1504)	4'-11 1/4" (1504)	4'-11 1/4" (1504)	4'-11 1/4" (1504)
Minimum Rough Opening	2'-7" (787)	2'-7" (787)	2'-7" (787)	5'-0" (1524)	5'-0" (1524)	5'-0" (1524)	5'-0" (1524)	5'-0" (1524)
Unobstructed Glass (single panel only)	18 7/8" (479)	18 7/8" (479)	18 7/8" (479)	18 7/8" (479)	18 7/8" (479)	18 7/8" (479)	18 7/8" (479)	18 7/8" (479)
3 heights								
1	**FWH**2768**S**	**FWH**2768**AR**	**FWH**2768**AL**	**FWH**5068**SS**	**FWH**5068**ASR**	**FWH**5068**SAL**	**FWH**5068**APLR**	**FWH**5068**PALR**
2	**FWH**27611**S**	**FWH**27611**AR**	**FWH**27611**AL**	**FWH**50611**SS**	**FWH**50611**ASR**	**FWH**50611**SAL**	**FWH**50611**APLR**	**FWH**50611**PALR**
3	**FWH**2780**S**	**FWH**2780**AR**	**FWH**2780**AL**	**FWH**5080**SS**	**FWH**5080**ASR**	**FWH**5080**SAL**	**FWH**5080**APLR**	**FWH**5080**PALR**

Door Dimension	2'-8 1/8" (816)	2'-8 1/8" (816)	2'-8 1/8" (816)	5'-3 1/4" (1607)	5'-3 1/4" (1607)	5'-3 1/4" (1607)	5'-3 1/4" (1607)	5'-3 1/4" (1607)
Minimum Rough Opening	2'-9" (838)	2'-9" (838)	2'-9" (838)	5'-4" (1626)	5'-4" (1626)	5'-4" (1626)	5'-4" (1626)	5'-4" (1626)
Unobstructed Glass (single panel only)	20 7/8" (530)	20 7/8" (530)	20 7/8" (530)	20 7/8" (530)	20 7/8" (530)	20 7/8" (530)	20 7/8" (530)	20 7/8" (530)
3 heights								
1	**FWH**2968**S**	**FWH**2968**AR**	**FWH**2968**AL**	**FWH**5468**SS**	**FWH**5468**ASR**	**FWH**5468**SAL**	**FWH**5468**APLR**	**FWH**5468**PALR**
2	**FWH**29611**S**	**FWH**29611**AR**	**FWH**29611**AL**	**FWH**54611**SS**	**FWH**54611**ASR**	**FWH**54611**SAL**	**FWH**54611**APLR**	**FWH**54611**PALR**
3	**FWH**2980**S**	**FWH**2980**AR**	**FWH**2980**AL**	**FWH**5480**SS**	**FWH**5480**ASR**	**FWH**5480**SAL**	**FWH**5480**APLR**	**FWH**5480**PALR**

Door Dimension	3'-0 1/8" (918)	3'-0 1/8" (918)	3'-0 1/8" (918)	5'-11 1/4" (1810)	5'-11 1/4" (1810)	5'-11 1/4" (1810)	5'-11 1/4" (1810)	5'-11 1/4" (1810)
Minimum Rough Opening	3'-1" (940)	3'-1" (940)	3'-1" (940)	6'-0" (1829)	6'-0" (1829)	6'-0" (1829)	6'-0" (1829)	6'-0" (1829)
Unobstructed Glass (single panel only)	24 7/8" (632)	24 7/8" (632)	24 7/8" (632)	24 7/8" (632)	24 7/8" (632)	24 7/8" (632)	24 7/8" (632)	24 7/8" (632)
3 heights								
1	**FWH**3168**S**	**FWH**3168**AR**	**FWH**3168**AL**	**FWH**6068**SS**	**FWH**6068**ASR**	**FWH**6068**SAL**	**FWH**6068**APLR**	**FWH**6068**PALR**
2	**FWH**31611**S**	**FWH**31611**AR**	**FWH**31611**AL**	**FWH**60611**SS**	**FWH**60611**ASR**	**FWH**60611**SAL**	**FWH**60611**APLR**	**FWH**60611**PALR**
3	**FWH**3180**S**	**FWH**3180**AR**	**FWH**3180**AL**	**FWH**6080**SS**	**FWH**6080**ASR**	**FWH**6080**SAL**	**FWH**6080**APLR**	**FWH**6080**PALR**

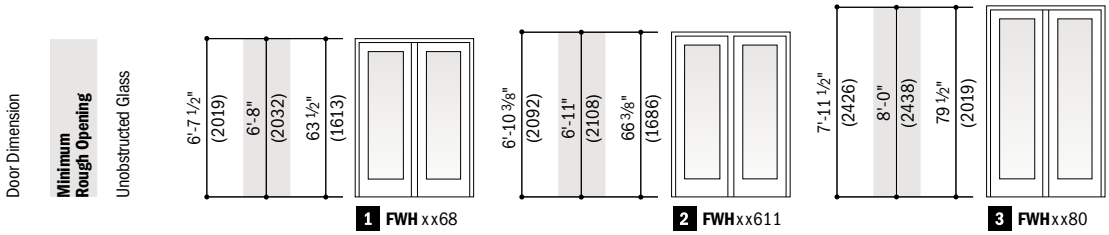
Custom-size doors are available in 1/8" (3) increments. See page 155 for custom sizes and specifications.

Stationary (**S**) doors can be used as an individual unit or as a sidelight. In addition to venting door panels shown in table, other standard configurations are available for two- and three-panel doors.

Grille patterns shown on page 155.

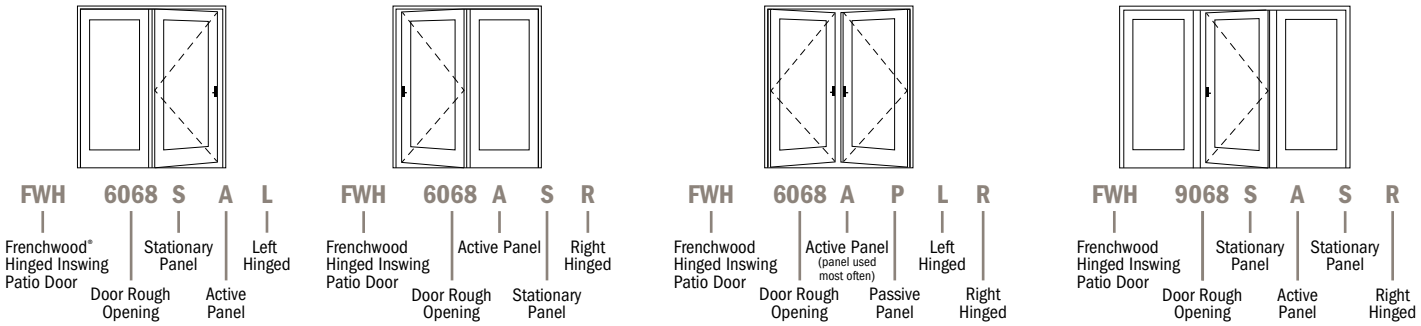
• "Door Dimension" always refers to outside frame-to-frame dimension.
• "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.

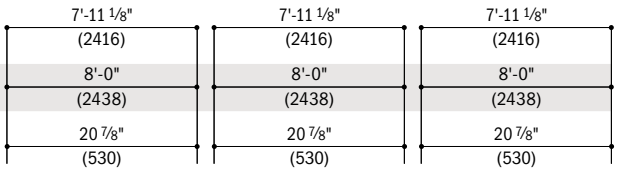
Three Patio Door Heights



Order Designation Description

Viewed from the exterior.

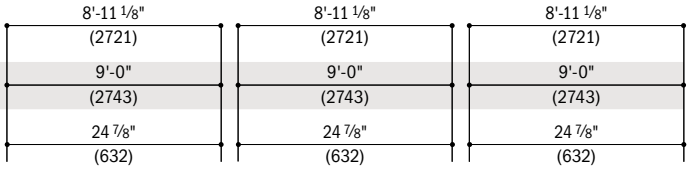




FWH8068**SSS**
FWH80611**SSS**
FWH8080**SSS**

FWH8068**SASR**
FWH80611**SASR**
FWH8080**SASR**

FWH8068**SASL**
FWH80611**SASL**
FWH8080**SASL**



FWH9068**SSS**
FWH90611**SSS**
FWH9080**SSS**

FWH9068**SASR**
FWH90611**SASR**
FWH9080**SASR**

FWH9068**SASL**
FWH90611**SASL**
FWH9080**SASL**

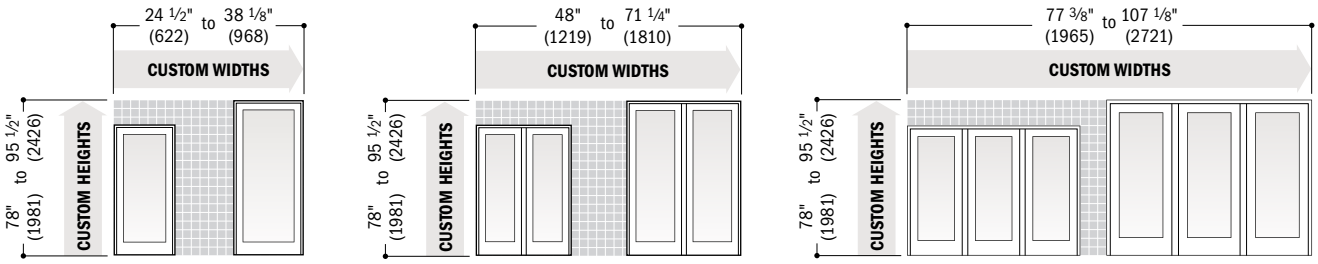
- "Door Dimension" always refers to outside frame-to-frame dimension.
- **"Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

Frenchwood® Hinged Inswing Patio Door Opening and Area Specifications

Door Number	Number of Panels in Open Position*	Clear Opening Maximums								Glass Area Sq. Ft./(m²)		Vent Area Sq. Ft./(m²)		Overall Door Area Sq. Ft./(m²)	
		Clear Opening Area Sq. Ft./(m²)		90° Open Position Width Inches/(mm)		Full Open Position Width Inches/(mm)		Height Inches/(mm)							
FWH2168**S**	-	-		-		-		-		5.74	(0.53)	-		13.39	(1.24)
FWH2768	1	12.98	(1.21)	24 13/16"	(630)	26"	(660)	75 1/4"	(1911)	8.32	(0.77)	12.98	(1.21)	16.63	(1.55)
FWH2968	1	14.02	(1.30)	26 13/16"	(681)	28"	(711)	75 1/4"	(1911)	9.20	(0.86)	14.02	(1.30)	17.74	(1.65)
FWH3168	1	16.11	(1.50)	30 13/16"	(783)	32"	(813)	75 1/4"	(1911)	10.96	(1.02)	16.11	(1.50)	19.95	(1.85)
FWH4168	2	21.43	(1.99)	41"	(1039)	43 7/8"	(1112)	75 1/4"	(1911)	11.68	(1.09)	21.43	(1.99)	26.50	(2.46)
FWH4168	1	11.01	(1.02)	19 7/8"	(505)	21 1/16"	(535)	75 1/4"	(1911)	11.68	(1.09)	11.01	(1.02)	26.50	(2.46)
FWH5068	1 - AS/SA	12.98	(1.21)	24 13/16"	(630)	26"	(660)	75 1/4"	(1911)	16.64	(1.55)	12.98	(1.21)	32.71	(3.04)
FWH5068	2 - AP/PA	27.30	(2.54)	52 1/4"	(1327)	55 1/8"	(1400)	75 1/4"	(1911)	16.64	(1.55)	27.30	(2.54)	32.71	(3.04)
FWH5068	1 - AP/PA	13.32	(1.23)	25 1/2"	(647)	26 11/16"	(678)	75 1/4"	(1911)	16.64	(1.55)	13.32	(1.23)	32.71	(3.04)
FWH5468	1 - AS/SA	14.02	(1.30)	26 13/16"	(681)	28"	(711)	75 1/4"	(1911)	18.39	(1.71)	14.02	(1.30)	34.92	(3.24)
FWH5468	2 - AP/PA	29.39	(2.73)	56 1/4"	(1429)	59 1/8"	(1502)	75 1/4"	(1911)	18.39	(1.71)	29.39	(2.73)	34.92	(3.24)
FWH5468	1 - AP/PA	14.37	(1.33)	27 1/2"	(698)	28 11/16"	(729)	75 1/4"	(1911)	18.39	(1.71)	14.37	(1.33)	34.92	(3.24)
FWH6068	1 - AS/SA	16.11	(1.50)	30 13/16"	(783)	32"	(813)	75 1/4"	(1911)	21.92	(2.04)	16.11	(1.50)	39.34	(3.66)
FWH6068	2 - AP/PA	33.58	(3.12)	64 1/2"	(1632)	67 1/8"	(1705)	75 1/4"	(1911)	21.92	(2.04)	33.58	(3.12)	39.34	(3.66)
FWH6068	1 - AP/PA	16.46	(1.52)	31 1/2"	(800)	32 11/16"	(830)	75 1/4"	(1911)	21.92	(2.04)	16.46	(1.52)	39.34	(3.66)
FWH8068	1	14.02	(1.30)	26 13/16"	(681)	28"	(711)	75 1/4"	(1911)	27.60	(2.56)	14.02	(1.30)	52.52	(4.88)
FWH9068	1	16.11	(1.50)	30 13/16"	(783)	32"	(813)	75 1/4"	(1911)	32.88	(3.06)	16.11	(1.50)	59.14	(5.49)
FWH21611**S**	-	-		-		-		-		6.01	(0.56)	-		13.89	(1.29)
FWH27611	1	13.48	(1.25)	24 13/16"	(630)	26"	(660)	78 1/8"	(1984)	8.69	(0.81)	13.48	(1.25)	17.21	(1.60)
FWH29611	1	14.55	(1.35)	26 13/16"	(681)	28"	(711)	78 1/8"	(1984)	9.61	(0.89)	14.55	(1.35)	18.36	(1.71)
FWH31611	1	16.72	(1.55)	30 13/16"	(783)	32"	(813)	78 1/8"	(1984)	11.45	(1.06)	16.72	(1.55)	20.64	(1.92)
FWH41611	2	22.24	(2.07)	41"	(1039)	43 7/8"	(1112)	78 1/8"	(1984)	12.20	(1.13)	22.24	(2.07)	27.46	(2.55)
FWH41611	1	11.43	(1.06)	19 7/8"	(505)	21 1/16"	(535)	78 1/8"	(1984)	12.20	(1.13)	11.43	(1.06)	27.46	(2.55)
FWH50611	1 - AS/SA	13.48	(1.25)	24 13/16"	(630)	26"	(660)	78 1/8"	(1984)	17.38	(1.62)	13.48	(1.25)	33.89	(3.15)
FWH50611	2 - AP/PA	28.34	(2.63)	52 1/4"	(1327)	55 1/8"	(1400)	78 1/8"	(1984)	17.38	(1.62)	28.34	(2.63)	33.89	(3.15)
FWH50611	1 - AP/PA	13.83	(1.28)	25 1/2"	(647)	26 11/16"	(678)	78 1/8"	(1984)	17.38	(1.62)	13.83	(1.28)	33.89	(3.15)
FWH54611	1 - AS/SA	14.55	(1.35)	26 13/16"	(681)	28"	(660)	78 1/8"	(1984)	19.22	(1.79)	14.55	(1.35)	36.18	(3.36)
FWH54611	2 - AP/PA	30.51	(2.83)	56 1/4"	(1429)	59 1/8"	(1502)	78 1/8"	(1984)	19.22	(1.79)	30.51	(2.83)	36.18	(3.36)
FWH54611	1 - AP/PA	14.91	(1.58)	27 1/2"	(698)	28 11/16"	(729)	78 1/8"	(1984)	19.22	(1.79)	14.91	(1.58)	36.18	(3.36)
FWH60611	1 - AS/SA	16.72	(1.55)	30 13/16"	(783)	32"	(813)	78 1/8"	(1984)	22.91	(2.13)	16.72	(1.55)	40.76	(3.79)
FWH60611	2 - AP/PA	34.86	(3.24)	64 1/2"	(1632)	67 1/8"	(1705)	78 1/8"	(1984)	22.91	(2.13)	34.86	(3.24)	40.76	(3.79)
FWH60611	1 - AP/PA	17.08	(1.68)	31 1/2"	(800)	32 11/16"	(830)	78 1/8"	(1984)	22.91	(2.13)	17.08	(1.68)	40.76	(3.79)
FWH80611	1	14.55	(1.35)	26 13/16"	(681)	28"	(660)	78 1/8"	(1984)	28.83	(2.68)	14.55	(1.35)	54.43	(5.06)
FWH90611	1	16.72	(1.55)	30 13/16"	(783)	32"	(813)	78 1/8"	(1984)	34.36	(3.19)	16.72	(1.55)	61.30	(5.70)
FWH2180**S**	-	-		-		-		-		7.19	(0.67)	-		16.08	(1.49)
FWH2780	1	15.73	(1.46)	24 13/16"	(630)	26"	(660)	91 1/4"	(2318)	10.41	(0.97)	15.73	(1.46)	19.98	(1.86)
FWH2980	1	17.00	(1.58)	26 13/16"	(681)	28"	(711)	91 1/4"	(2318)	11.52	(1.07)	17.00	(1.58)	21.31	(1.98)
FWH3180	1	19.54	(1.82)	30 13/16"	(783)	32"	(813)	91 1/4"	(2318)	13.72	(1.28)	19.54	(1.82)	23.96	(2.23)
FWH4180	2	25.98	(2.41)	41"	(1039)	43 7/8"	(1112)	91 1/4"	(2318)	14.62	(1.36)	25.98	(2.41)	31.83	(2.96)
FWH4180	1	13.35	(1.24)	19 7/8"	(505)	21 1/16"	(535)	91 1/4"	(2318)	14.62	(1.36)	13.35	(1.24)	31.83	(2.96)
FWH5080	1 - AS/SA	15.73	(1.46)	24 13/16"	(630)	26"	(660)	91 1/4"	(2318)	20.82	(1.93)	15.73	(1.46)	39.30	(3.65)
FWH5080	2 - AP/PA	33.11	(3.08)	52 1/4"	(1327)	55 1/8"	(1400)	91 1/4"	(2318)	20.82	(1.93)	33.11	(3.08)	39.30	(3.65)
FWH5080	1 - AP/PA	16.15	(1.50)	25 1/2"	(647)	26 11/16"	(678)	91 1/4"	(2318)	20.82	(1.93)	16.15	(1.50)	39.30	(3.65)
FWH5480	1 - AS/SA	17.00	(1.58)	26 13/16"	(681)	28"	(660)	91 1/4"	(2318)	23.03	(2.14)	17.00	(1.58)	41.95	(3.90)
FWH5480	2 - AP/PA	35.64	(3.31)	56 1/4"	(1429)	59 1/8"	(1502)	91 1/4"	(2318)	23.03	(2.14)	35.64	(3.31)	41.95	(3.90)
FWH5480	1 - AP/PA	17.42	(1.61)	27 1/2"	(698)	28 11/16"	(729)	91 1/4"	(2318)	23.03	(2.14)	17.42	(1.61)	41.95	(3.90)
FWH6080	1 - AS/SA	19.54	(1.82)	30 13/16"	(783)	32"	(813)	91 1/4"	(2318)	27.44	(2.55)	19.54	(1.82)	47.25	(4.39)
FWH6080	2 - AP/PA	40.71	(3.78)	64 1/2"	(1632)	67 1/8"	(1705)	91 1/4"	(2318)	27.44	(2.55)	40.71	(3.78)	47.25	(4.39)
FWH6080	1 - AP/PA	19.96	(1.85)	31 1/2"	(800)	32 11/16"	(830)	91 1/4"	(2318)	27.44	(2.55)	19.96	(1.85)	47.25	(4.39)
FWH8080	1	17.00	(1.58)	26 13/16"	(681)	28"	(660)	91 1/4"	(2318)	34.55	(3.21)	17.00	(1.58)	63.09	(5.86)
FWH9080	1	19.54	(1.82)	30 13/16"	(783)	32"	(813)	91 1/4"	(2318)	41.16	(3.82)	19.54	(1.82)	71.05	(6.60)

• Dimensions in parentheses are in millimeters or square meters.
*For two-panel AP/PA doors with only one panel open, clear opening is based on the active panel open and the passive panel closed.

Custom Sizes and Specification Formulas

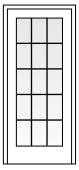
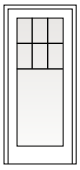
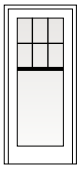
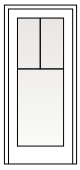
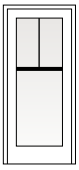
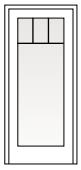
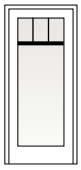


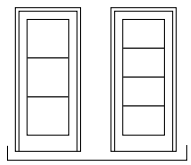
Clear Opening	Minimum R.O.	Unobst. Glass
Height = height − 4.22" (107)	**Width =** width + 3/4" (19)	**Single-Panel**
Single-Panel	**Height =** height + 1/2" (13)	**Width =** width − 11.22" (285)
Width = width − 5.744" (145)		**Height =** height − 16.05" (408)
Two-Panel, two panels open		**Two-Panel**
Width = width − 7.394" (187)		**Width =** width − 21.5" (546)
Two-Panel, one panel open		**Height =** height − 16.05" (408)
Width = (width − 10.550" (267)) ÷ 2		**Three-Panel**
Three-Panel		**Width =** width − 32.55" (827)
Width = (width − 16.106" (409)) ÷ 3		**Height =** height − 16.05" (408)

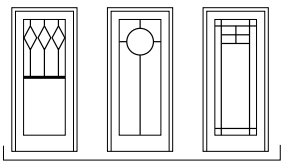
Available in 1/8" (3) increments between minimum and maximum widths and heights. Some restrictions apply. Measurement guide can be found at **andersenwindows.com/measure**.

- Clear opening width formulas are based on panel(s) in a 90° open position.
- Dimensions in parentheses are in millimeters.
- **Clear Opening** formulas provide dimensions for determining area available for egress. Vent opening, or area available for passage of air, is equal to clear opening. **Minimum R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

Grille Patterns

	Prairie A	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail
Frenchwood® Gliding and Hinged Inswing Patio Doors								

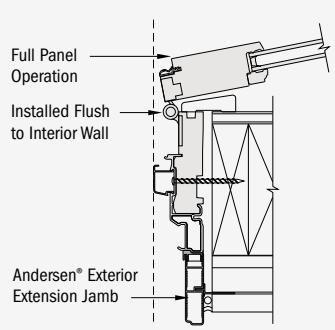

Specified Equal Light Examples


Custom Pattern Examples

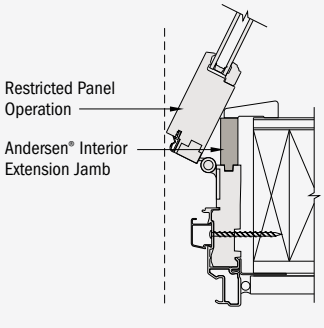
Number of lights and overall pattern varies with panel size. Patterns not available in all configurations. Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.

Interior Extension Jambs

Use of interior extension jambs or drywall return will restrict panel operation on jamb-hinged patio doors. Jamb-hinged patio doors must be installed flush to the interior to achieve full panel operation.



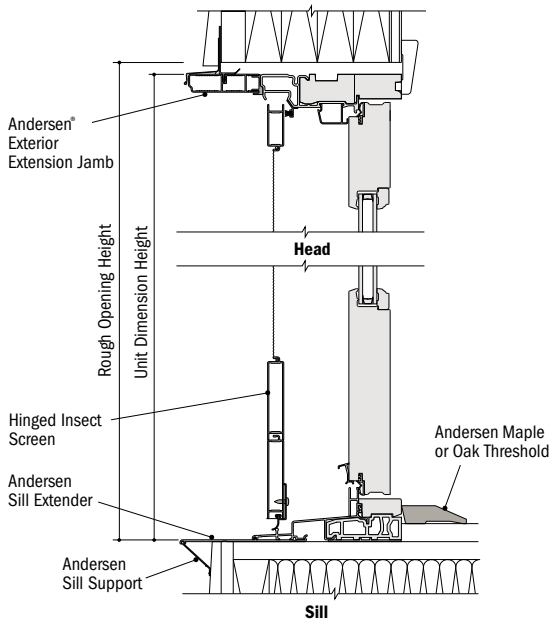
Jamb-Hinged Patio Door in 2 x 6 Wall without Interior Extension Jambs



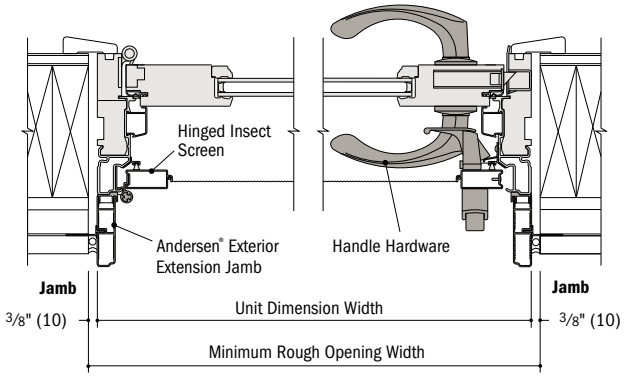
Jamb-Hinged Patio Door in 2 x 6 Wall with Interior Extension Jambs

Frenchwood® Hinged Inswing Patio Door Details

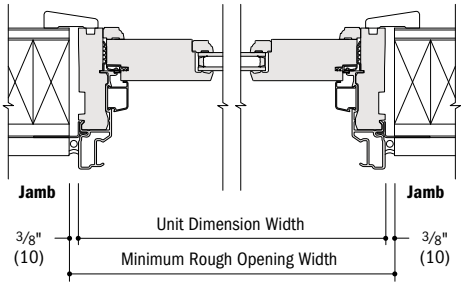
Scale 1½" (38) = 1'-0" (305) – 1:8



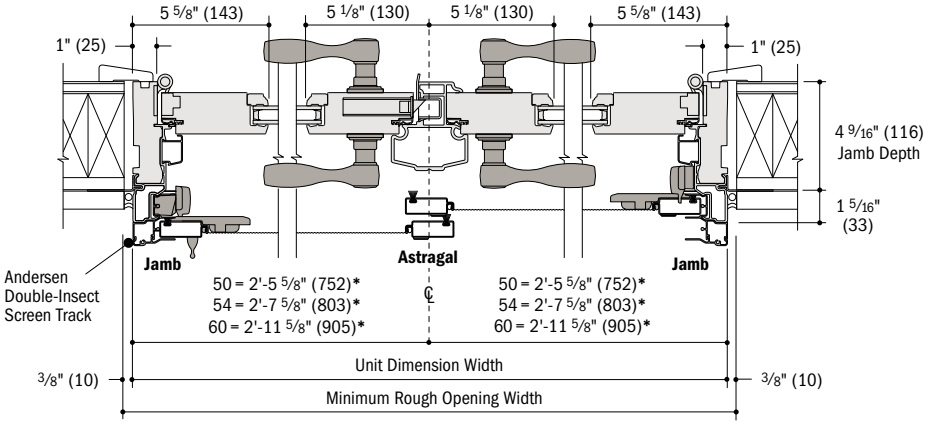
Vertical Section



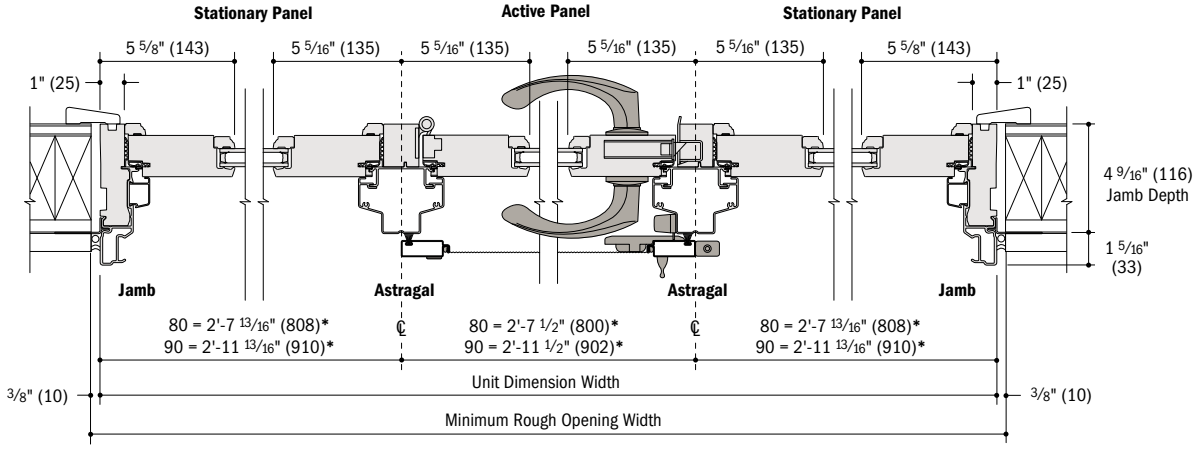
Horizontal Section
Active



Horizontal Section
Stationary



Horizontal Section
Two-Panel



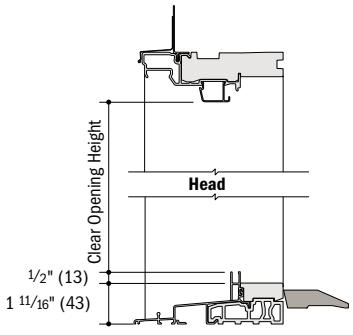
Horizontal Section
Three-Panel

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

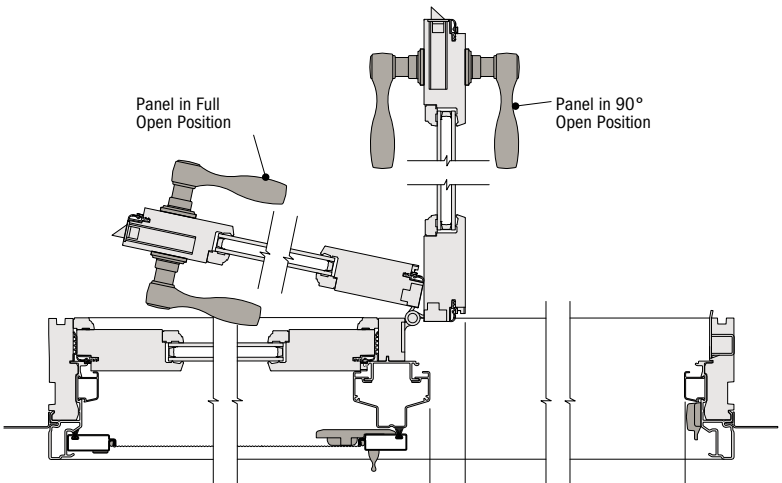
*Dimension indicates location of astragal centerline.

Clear Opening Details

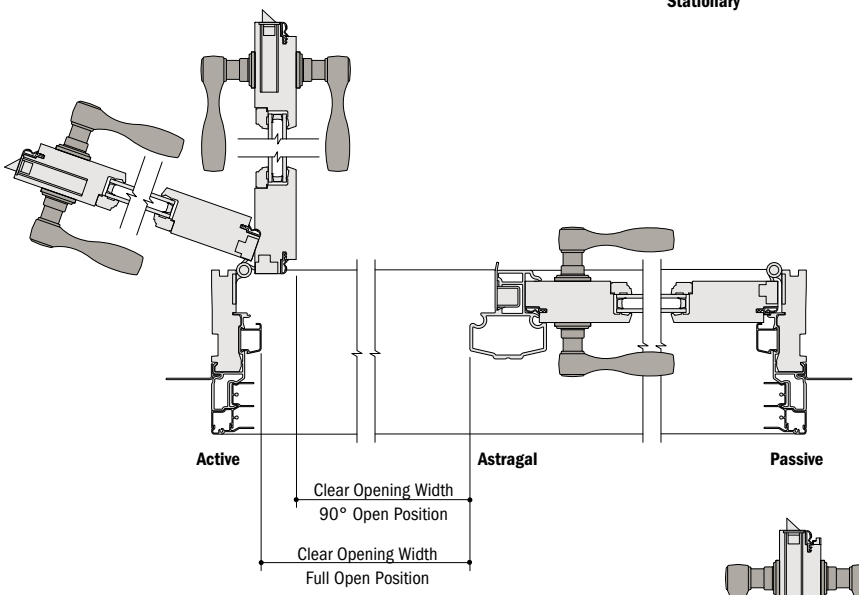
Scale 1½" (38) = 1'-0" (305) – 1:8



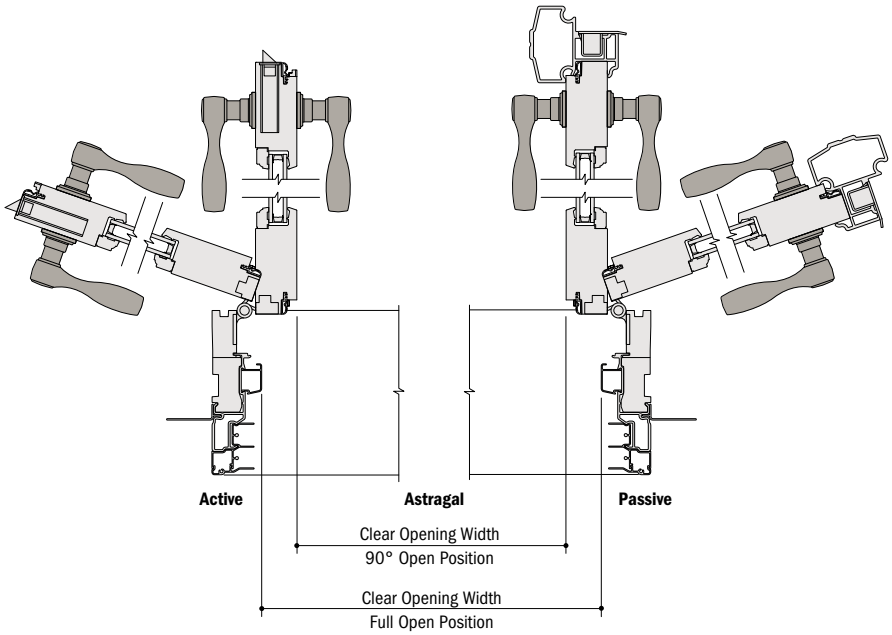
Vertical Section



Horizontal Section
Two-Panel, Stationary-Active (open)



Horizontal Section
Two-Panel, Active (open) and Passive (closed)

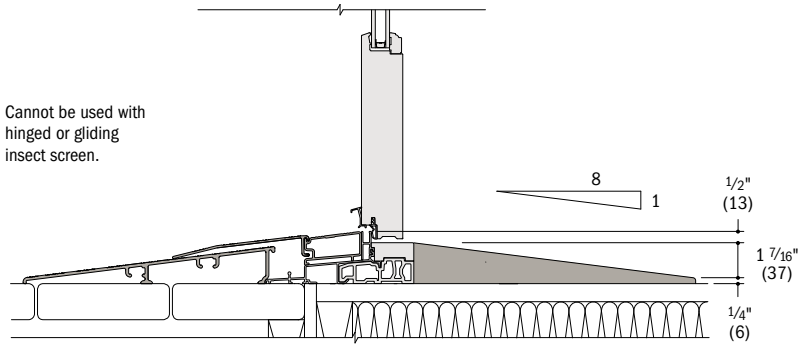


Horizontal Section
Two-Panel, Active (open) and Passive (open)

- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Ramped Sill Detail

Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section

Vertical Joining Detail

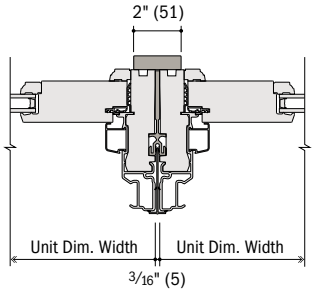
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Door Dimension Width

Sum of individual door widths plus 3/16" (5) for each join.

Overall Rough Opening Width

Overall door dimension width plus ¾" (19).



Horizontal Section
Frenchwood® Hinged Inswing to Frenchwood Hinged Inswing

Vertical Joining Detail – Fiberglass

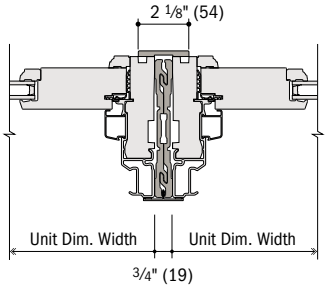
Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Door Dimension Width

Sum of individual door widths plus ¾" (19) for each join.

Overall Rough Opening Width

Overall door dimension width plus ¾" (19).



Horizontal Section
Frenchwood® Hinged Inswing to Frenchwood Hinged Inswing

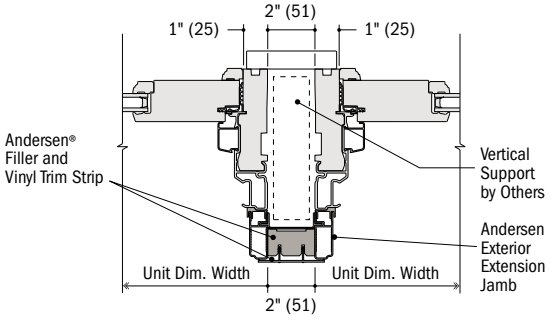
Andersen does not recommend joining of hinge jamb to hinge jamb.

For more joining information, see the combination designs section starting on page 181.

Separate Rough Openings Detail

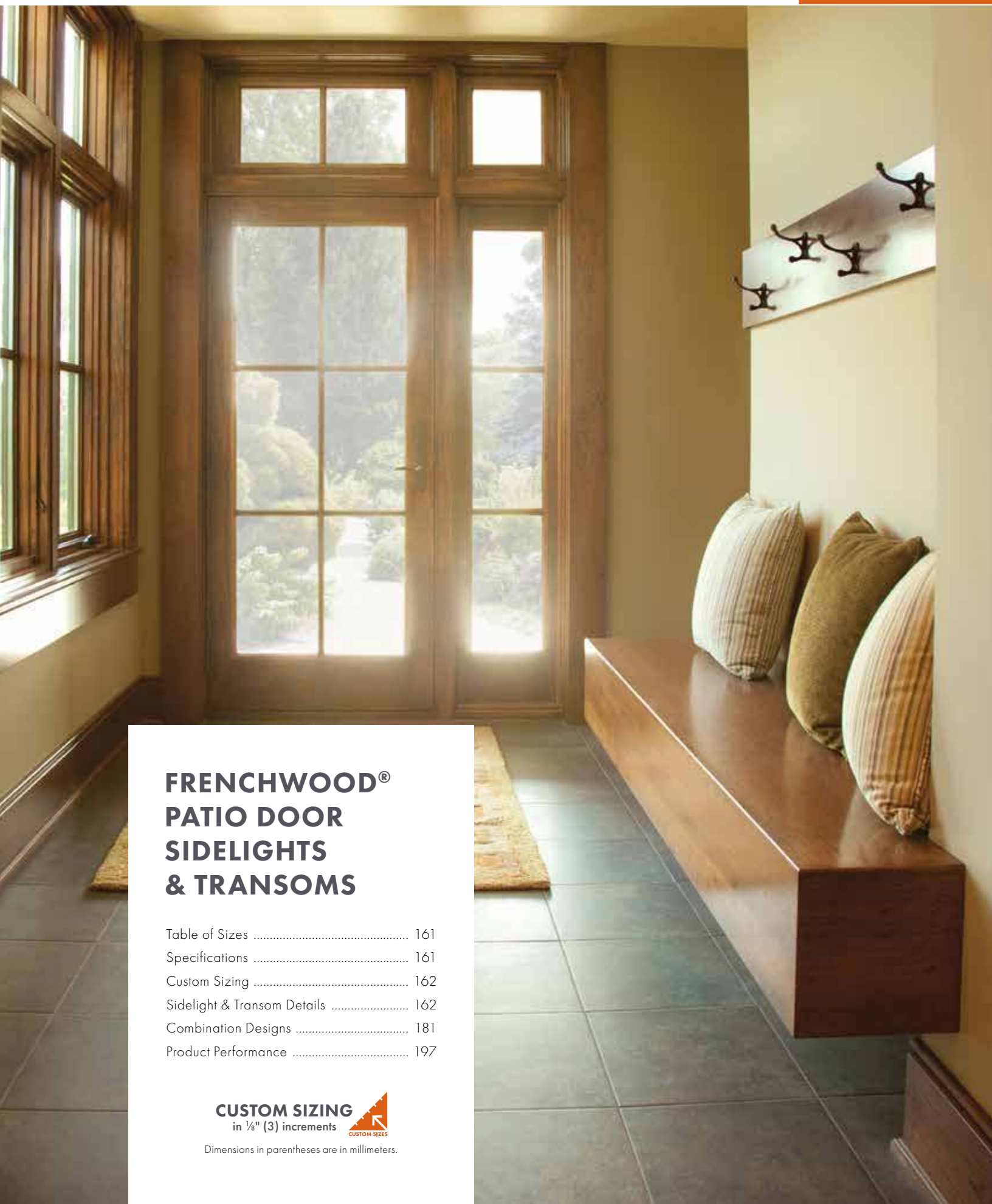
Scale 1½" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, doors may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.



Horizontal Section
Frenchwood® Hinged Inswing and Frenchwood Hinged Inswing

- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on page 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Andersen recommends installation of doors into separate rough openings. Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.



FRENCHWOOD® PATIO DOOR SIDELIGHTS & TRANSOMS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

FRENCHWOOD® PATIO DOOR SIDELIGHTS & TRANSOMS

FEATURES

FRAME

A All basic exterior frame members are fiberglass-reinforced composite, which maintains an attractive appearance while minimizing maintenance.

B The frame members are attached to a water-repellent preservative-treated wood subframe for long-lasting* protection and performance. The subframe is grooved to accept extension jambs.

C The exterior of the wood door panel is protected with a long-lasting* urethane base finish in white, Sandtone, Terratone or forest green.

D Panel interior surfaces are unfinished pine veneer. Unfinished maple or oak veneers are available as options. Low-maintenance prefinished white interiors are also available.

E The sill of the Frenchwood patio door sidelight is made with three-piece construction. The subsill is made of Fibrex® material, and the sill step is solid oak. The exterior sill member is made of extruded aluminum with an attractive wear-resistant, heat-baked finish in neutral gray. This combination of materials combines durability and low maintenance with excellent insulating characteristics.

GLASS

F In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

G Panels are silicone bed glazed and finished with an interior wood stop.

H High-Performance options include:

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

Additional 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 job site.

Patterned Glass

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

Sidelight

Transom

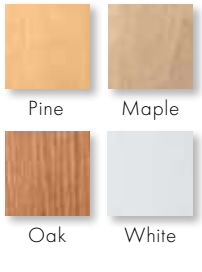
EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White Sandtone

Terratone Forest Green

INTERIOR OPTIONS

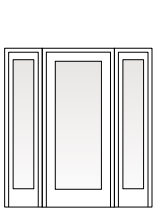


Pine Maple

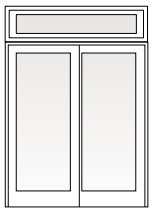
Oak White

Frenchwood patio door sidelights, transoms and sidelight transoms elegantly frame our 400 Series Frenchwood patio doors.

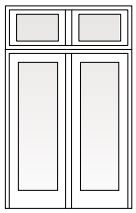
Fiberglass-reinforced joining materials are available in 4 9/16" (116) and 6 9/16" (167) depths. See joining information on pages 191-196.



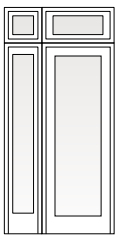
FWO3168
FWSL1768 **FWSL**1768



FWT6016
FWG60611



FWT-2-54110
FWO5468



FWSLT1716 **FWT**3116
FWSL1780 **FWO**3180

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Standard jamb depth is 4 9/16" (116). Pine, maple and oak veneers, or prefinished white interior extension jambs are available in 1/16" (1.5) increments between 5 1/16" (129) and 7 1/8" (181).

GLASS

Andersen® Art Glass

Andersen art glass panels come in a variety of original patterns. Available for stationary panels, sidelights and transoms. See art glass section starting on page 173 for more information or visit andersenwindows.com/artglass.

GRILLES

Grilles are available in a variety of configurations and widths.

EXTERIOR TRIM

Available with Andersen exterior trim. See exterior trim section starting on page 175.

CAUTION:

- Painting and staining may cause damage to rigid vinyl.
- 400 Series patio door sidelights and transoms in Terratone color may be painted any color lighter than Terratone color using quality oil-based or latex paint.
- Do not paint 400 Series patio door sidelights or transoms in white, canvas, Sandtone, dark bronze, forest green or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

*Visit andersenwindows.com/warranty for details.

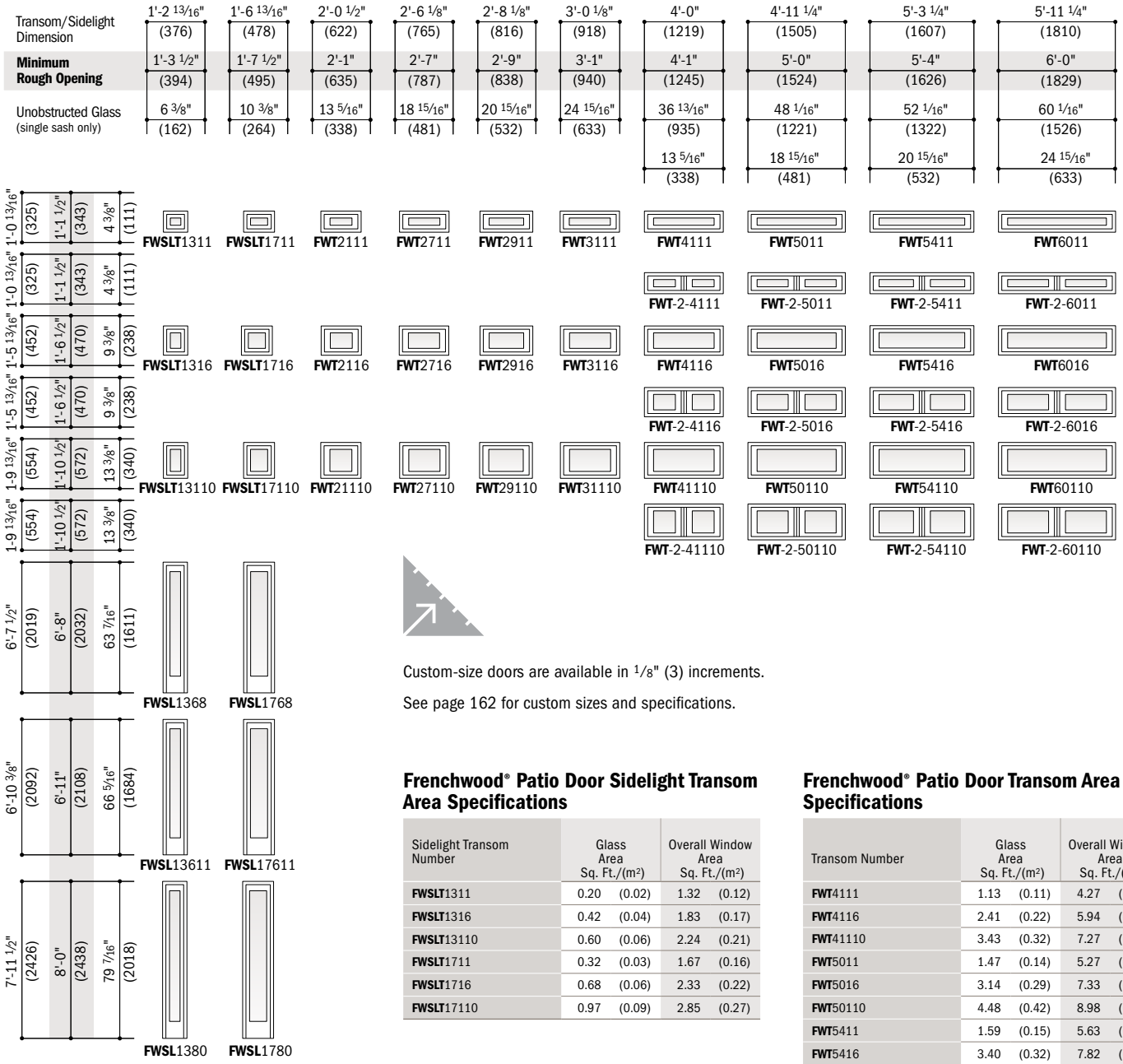
Dimensions in parentheses are in millimeters.

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

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

Table of Frenchwood® Patio Door Transom, Sidelight Transom and Sidelight Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96



• "Transom/Sidelight Dimension" always refers to outside 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. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.

Custom-size doors are available in 1/8" (3) increments.

See page 162 for custom sizes and specifications.

Frenchwood® Patio Door Sidelight Area Specifications

Sidelight Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
FWSL1368	2.82	(0.26)	8.18	(0.76)
FWSL1768	4.58	(0.43)	10.39	(0.97)
FWSL13611	2.95	(0.27)	8.47	(0.79)
FWSL17611	4.79	(0.45)	10.76	(1.00)
FWSL1380	3.53	(0.33)	9.82	(0.91)
FWSL1780	5.74	(0.53)	12.48	(0.16)

Frenchwood® Patio Door Sidelight Transom Area Specifications

Sidelight Transom Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
FWSLT1311	0.20	(0.02)	1.32	(0.12)
FWSLT1316	0.42	(0.04)	1.83	(0.17)
FWSLT13110	0.60	(0.06)	2.24	(0.21)
FWSLT1711	0.32	(0.03)	1.67	(0.16)
FWSLT1716	0.68	(0.06)	2.33	(0.22)
FWSLT17110	0.97	(0.09)	2.85	(0.27)

Frenchwood® Patio Door Transom Area Specifications

Transom Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
FWT2111	0.41	(0.04)	2.18	(0.20)
FWT2116	0.87	(0.08)	3.03	(0.28)
FWT21110	1.24	(0.12)	3.71	(0.35)
FWT2711	0.58	(0.05)	2.68	(0.25)
FWT2716	1.24	(0.12)	3.73	(0.35)
FWT27110	1.77	(0.16)	4.56	(0.42)
FWT2911	0.64	(0.06)	2.86	(0.27)
FWT2916	1.37	(0.13)	3.97	(0.37)
FWT29110	1.95	(0.18)	4.87	(0.45)
FWT3111	0.76	(0.07)	3.21	(0.30)
FWT3116	1.63	(0.15)	4.47	(0.42)
FWT31110	2.33	(0.22)	5.47	(0.51)

Frenchwood® Patio Door Transom Area Specifications

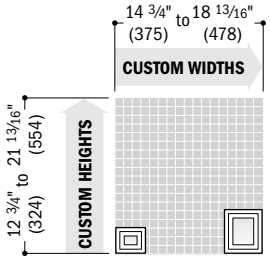
Transom Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
FWT4111	1.13	(0.11)	4.27	(0.40)
FWT4116	2.41	(0.22)	5.94	(0.55)
FWT41110	3.43	(0.32)	7.27	(0.68)
FWT5011	1.47	(0.14)	5.27	(0.49)
FWT5016	3.14	(0.29)	7.33	(0.68)
FWT50110	4.48	(0.42)	8.98	(0.83)
FWT5411	1.59	(0.15)	5.63	(0.52)
FWT5416	3.40	(0.32)	7.82	(0.73)
FWT54110	4.85	(0.45)	9.58	(0.89)
FWT6011	1.84	(0.17)	6.34	(0.59)
FWT6016	3.93	(0.37)	8.81	(0.82)
FWT60110	5.60	(0.52)	10.79	(1.00)
FWT-2 4111	0.82	(0.08)	4.27	(0.40)
FWT-2 4116	1.74	(0.16)	5.94	(0.55)
FWT-2 41110	2.49	(0.23)	7.27	(0.68)
FWT-2 5011	1.16	(0.11)	5.27	(0.49)
FWT-2 5016	2.48	(0.23)	7.33	(0.68)
FWT-2 50110	3.53	(0.33)	8.98	(0.83)
FWT-2 5411	1.28	(0.12)	5.63	(0.52)
FWT-2 5416	2.74	(0.26)	7.82	(0.73)
FWT-2 54110	3.91	(0.36)	9.58	(0.89)
FWT-2 6011	1.53	(0.14)	6.34	(0.59)
FWT-2 6016	3.26	(0.30)	8.81	(0.82)
FWT-2 60110	4.65	(0.43)	10.79	(1.00)

• Dimensions in parentheses are in square meters

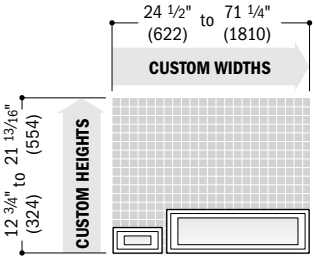
Custom Sizes and Specification Formulas

Available in 1/8" (3) increments between minimum and maximum widths and heights. Some restrictions apply. Measurement guide can be found at **andersenwindows.com/measure**.

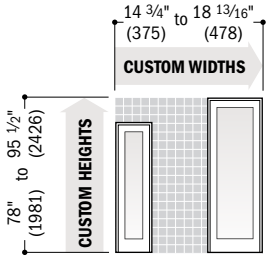
Sidelight Transoms



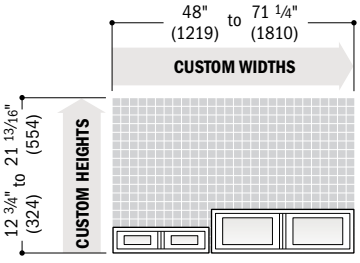
Transoms

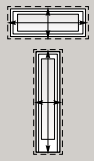
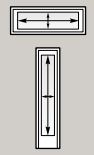


Sidelights



Twin Transoms

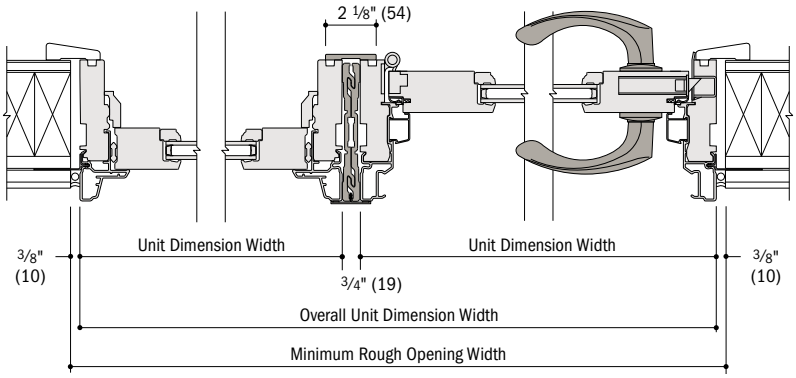


Minimum R.O. 	**Transoms, Twin Transoms and Sidelight Transoms** **Width** = width + 3/4" (19) **Height** = height + 3/4" (19) **Sidelights** **Width** = width + 3/4" (19) **Height** = height + 1/2" (13)
Unobst. Glass 	**Transoms** **Width** = window width − 11.15" (283) **Height** = window height − 8.4" (213) **Twin Transoms** **Width** = window width − 21.30" (541) **Height** = window height − 8.4" (213) **Sidelight Transoms** **Width** = window width − 8.4" (213) **Height** = window height − 8.4" (213) **Sidelights** **Width** = window width − 8.4" (213) **Height** = window height − 16.06" (408)

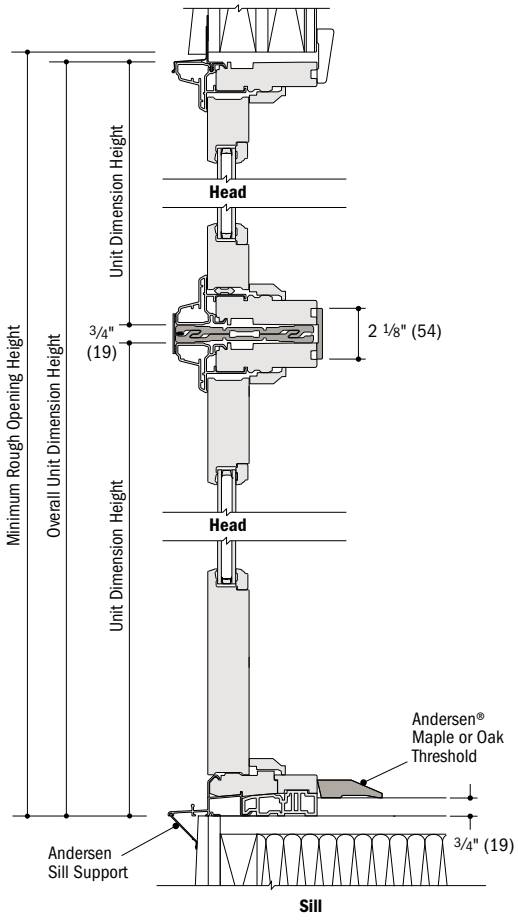
• **Minimum R.O.** (minimum rough opening) formulas provide minimum rough opening width and height dimensions. **Unobst. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

Frenchwood® Patio Door Transom and Sidelight Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section
Frenchwood® Patio Door Sidelight to Frenchwood Hinged Inswing Patio Door



Vertical Section
Frenchwood® Patio Door Transom over Frenchwood Patio Door Sidelight

For more joining information, see the combination designs section starting on page 181.

• Light-colored areas are parts included with patio door sidelights/transoms or doors. Dark-colored areas are additional Andersen® parts required to complete patio door sidelights/transoms or door assembly as shown.
• **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
• 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.

COMPLEMENTARY CURVED TOP PATIO DOORS

CUSTOM SIZING
in ⅛" (3) increments

CUSTOM SIZES

Dimensions in parentheses are in millimeters.

COMPLEMENTARY CURVED TOP PATIO DOORS

FEATURES

FRAME

Ⓐ Heavy-duty extruded aluminum cladding protects the frame exterior, providing low-maintenance durability. Standard cladding finish meets the AAMA 2604 specification. An optional finish that meets the AAMA 2605 specification is also available.

Installation flange extends 1 ½" (38) around three sides of the unit to help properly position the unit in the opening. Installation clips are standard for increased structural anchoring to building members. Mounted around the frame perimeter, the clips rotate into position and can be bent into place against the framing members to suit all jamb conditions.

Ⓑ Wood frame members are treated with a water-repellent wood preservative for long-lasting* protection and performance. Radii are made of laminated continuous veneers. Lineal components are engineered wood with a pine core.

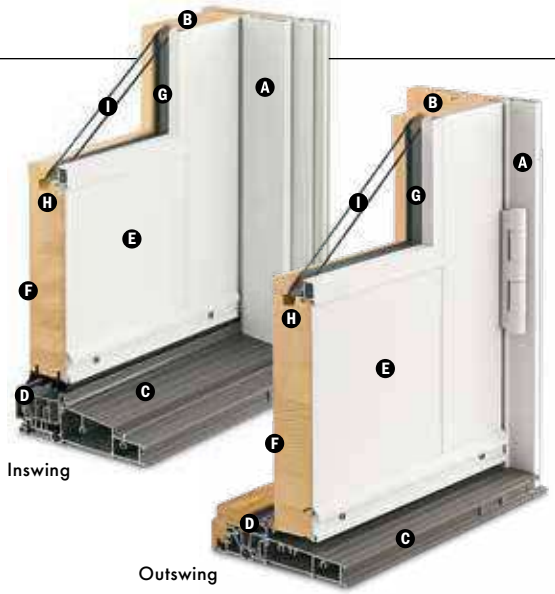
Ⓒ Extruded aluminum sill is thermally broken and available in a painted bronze or gray finish. Innovative sill design provides superior water management. Standard outswing sills have an oak cap. Maple or mahogany** is optional. Inswing sills have an interior wood trim strip to match the interior finish.

Ⓓ One-piece compression weatherstrip at the frame sides and head protects against air and water infiltration. Flexible thermoplastic sweep is featured at the bottom of the panel on inswing units. Outswing doors also feature a polypropylene rain skirt at the panel sides and top for added protection.

PANEL

Ⓔ Heavy-duty extruded aluminum cladding protects the panel exterior, providing low-maintenance durability.

Ⓕ Panel interior surfaces are unfinished wood veneers. Available species are pine, maple and oak.



GLASS

Ⓖ In addition to stainless steel glass spacers, black or white glass spacers are now available to allow the spacer to blend in with the unit color.

Ⓗ Silicone glazing bead combined with two-sided silicone tape provide superior weathertightness.

Ⓘ High-Performance options include:

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

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

Additional glass options are available. Contact your Andersen supplier.

OPERATION

Inswing and outswing units are available. Choose left-hinged, right-hinged or stationary as viewed from the exterior.

HARDWARE

Multi-Point Locking System

The complementary hinged patio door has a multi-point locking system with a hook bolt above and below the center dead bolt. This system provides a weathertight seal and enhanced security.

Hinges

Adjustable hinges are standard on inswing patio doors and have ball-bearing pivots for smooth, frictionless movement. Feature easy horizontal and vertical adjustment, plus quick-release for easy panel removal. The release feature is ideal for transporting large units up stairs or to other hard-to-reach areas.

Ball-bearing hinges are standard on outswing patio doors and are available in finishes that coordinate with hardware trim sets. Gold dust finish is standard on wood interior doors. For units with a prefinished white interior, white finish hinges are standard. Also available in finishes that coordinate with hardware.

Hardware Options†

Mix-and-match style and finish options are available to get just the right look inside and out. See pages 10-11 for hardware styles and finishes, including FSB® hardware.

ACCESSORIES Sold Separately

FRAME

Extension Jambs

Inswing and outswing standard jamb depth is 4 9/16" (116). Inswing is also available in a 6 9/16" (167) jamb depth. Interior extension jambs are available in 1/16" (1.5) increments between 4 9/16" (116) and 7 1/8" (181). Additional dimensions are available. Contact your Andersen supplier for more information.

Interior extension jambs on inswing units will restrict the full opening of the door.

Casings

Curved interior casings are available in the same profiles as other Andersen® products. Curved exterior aluminum and wood casings are available in matching radii and a variety of profiles.

HARDWARE

Exterior Keyed Lock

A six-pin key cylinder lock is available for all patio doors in styles and finishes that coordinate with the hardware. This lock allows the door to be locked and unlocked from the exterior.

GRILLES

Grilles are available in a variety of configurations and widths.

ART GLASS

Decorative insulated art glass designs are available.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS

White | Canvas | Prairie Grass | Sandtone | Terratone | Cocoa Bean

Dark Bronze | Red Rock | Forest Green | Dove Gray | Black

INTERIOR OPTIONS††

Pine | Maple | Oak

White | Dark Bronze | Black

*Visit andersenwindows.com/warranty for details.

**Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

†Sold separately.

††Painted options available on pine only. Additional interior wood species and colors are available.

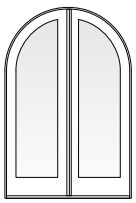
"FSB" is a registered trademark of Franz Schneider Brakel GmbH & Co.

Dimensions in parentheses are in millimeters.

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

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

1 **AHISD**xx80



1 **AHISD**xx80**AP/PA**

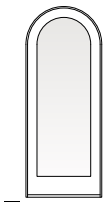
Custom-size doors are available in 1/8" (3) increments.

Traditional panels are standard. Custom-designed and 3/4-light panels are also available. Stationary doors are also available (i.e., 3180**S** or 4080**SS**). Add **AHISD** to "Door Number" listed in table (i.e., **AHISD**3180).

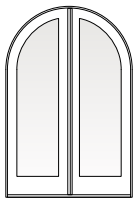
Complementary Springline™ Hinged Inswing Patio Door Dimensions and Specifications

Door Number	Number of Panels Open*	Door Dimensions				Min. Rough Opening		Clear Opening Area	Clear Opening Maximums			Glass Area	Vent Area	Overall Door Area
		Radius Inches/(mm)	Side Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m^2)	90° Open Position Width Inches/(mm)	Full Open Position Width Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m^2)	Sq. Ft./(m^2)	Sq. Ft./(m^2)
3180	1	18" (457)	77 1/2" (1969)	35 15/16" (913)	95 1/2" (2426)	37" (940)	96" (2438)	17.26 (1.60)	30 7/8" (784)	32 13/16" (833)	75 3/4" (1924)	13.28 (1.23)	20.27 (1.88)	22.88 (2.13)
3380	1	19" (483)	76 1/2" (1943)	37 15/16" (964)	95 1/2" (2426)	39" (991)	96" (2438)	18.07 (1.68)	32 7/8" (835)	34 13/16" (884)	74 3/4" (1899)	14.31 (1.33)	21.45 (1.99)	24.09 (2.24)
4080	2	23 5/8" (600)	71 7/8" (1826)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	21.34 (1.98)	39 15/16" (1014)	43 13/16" (1113)	70 1/8" (1781)	13.27 (1.23)	26.72 (2.48)	29.67 (2.76)
4080	1	23 5/8" (600)	71 7/8" (1826)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	10.17 (0.94)	18 15/16" (481)	20 7/8" (530)	70 1/8" (1781)	13.27 (1.23)	11.72 (1.09)	29.67 (2.76)
5080	2	29 5/8" (752)	65 7/8" (1673)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	24.85 (2.31)	51 15/16" (1319)	55 13/16" (1418)	64 1/8" (1629)	19.14 (1.78)	33.54 (3.12)	36.68 (3.41)
5080	1	29 5/8" (752)	65 7/8" (1673)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	11.97 (1.11)	24 15/16" (633)	26 7/8" (683)	64 1/8" (1629)	19.14 (1.78)	14.53 (1.35)	36.68 (3.41)
5480	2	31 5/8" (803)	63 7/8" (1622)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	25.80 (2.40)	55 15/16" (1421)	59 13/16" (1519)	62 1/8" (1578)	21.05 (1.96)	35.77 (3.32)	38.97 (3.62)
5480	1	31 5/8" (803)	63 7/8" (1622)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	12.46 (1.16)	26 15/16" (684)	28 7/8" (733)	62 1/8" (1578)	21.05 (1.96)	15.45 (1.44)	38.97 (3.62)
6080	2	35 5/8" (905)	59 7/8" (1521)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	27.37 (2.54)	63 15/16" (1624)	67 13/16" (1722)	58 1/8" (1476)	24.79 (2.30)	40.15 (3.73)	43.47 (4.04)
6080	1	35 5/8" (905)	59 7/8" (1521)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	13.27 (1.23)	30 15/16" (786)	32 7/8" (835)	58 1/8" (1476)	24.79 (2.30)	17.24 (1.60)	43.47 (4.04)
6480	2	37 5/8" (956)	57 7/8" (1470)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	27.99 (2.60)	67 15/16" (1726)	71 13/16" (1824)	56 1/8" (1426)	26.63 (2.47)	42.30 (3.93)	45.69 (4.24)
6480	1	37 5/8" (956)	57 7/8" (1470)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	13.59 (1.26)	32 15/16" (837)	34 7/8" (886)	56 1/8" (1426)	26.63 (2.47)	19.84 (1.84)	45.69 (4.24)

- "Door Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters or square meters.
- *For two-panel patio doors with one panel open, clear opening is based on active panel being open and passive panel being closed.



1 **AOSD**xx80



1 **AOSD**xx80**AP/PA**

Custom-size doors are available in 1/8" (3) increments.

Traditional panels are standard. Custom-designed and 3/4-light panels are also available. Stationary doors are also available (i.e., 3180**S** or 4080**SS**). Add **AOSD** to "Door Number" listed in table (i.e., **AOSD**3180).

Complementary Springline™ Hinged Outswing Patio Door Dimensions and Specifications

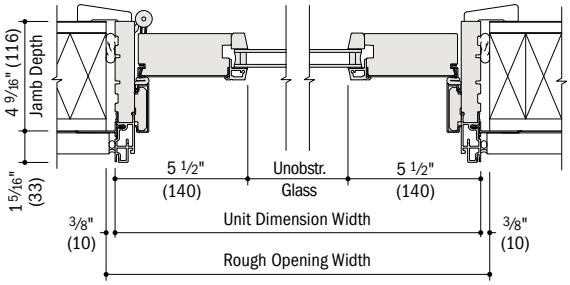
Door Number	Number of Panels Open*	Door Dimensions				Min. Rough Opening		Clear Opening Area	Clear Opening Maximums			Glass Area	Vent Area	Overall Door Area
		Radius Inches/(mm)	Side Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m^2)	90° Open Position Width Inches/(mm)	Full Open Position Width Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m^2)	Sq. Ft./(m^2)	Sq. Ft./(m^2)
3180	1	18" (457)	77 1/2" (1969)	35 15/16" (913)	95 1/2" (2426)	37" (940)	96" (2438)	17.52 (1.63)	31 3/8" (797)	33 5/16" (846)	75 3/4" (1924)	13.28 (1.23)	20.53 (1.91)	22.88 (2.13)
3380	1	19" (483)	76 1/2" (1943)	37 15/16" (964)	95 1/2" (2426)	39" (991)	96" (2438)	18.33 (1.70)	33 3/8" (848)	35 5/16" (897)	74 3/4" (1899)	14.31 (1.33)	21.71 (2.02)	24.09 (2.24)
4080	2	23 5/8" (600)	71 7/8" (1826)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	21.73 (2.02)	40 11/16" (1033)	44 5/8" (1133)	70 1/8" (1781)	13.27 (1.23)	27.12 (2.52)	29.67 (2.76)
4080	1	23 5/8" (600)	71 7/8" (1826)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	10.35 (0.96)	19 1/4" (489)	21 1/4" (540)	70 1/8" (1781)	13.27 (1.23)	11.72 (1.09)	29.67 (2.76)
5080	2	29 5/8" (752)	65 7/8" (1673)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	25.22 (2.34)	52 11/16" (1338)	56 5/8" (1438)	64 1/8" (1629)	19.14 (1.78)	33.90 (3.15)	36.68 (3.41)
5080	1	29 5/8" (752)	65 7/8" (1673)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	12.13 (1.13)	25 1/4" (641)	27 1/4" (692)	64 1/8" (1629)	19.14 (1.78)	14.53 (1.35)	36.68 (3.41)
5480	2	31 5/8" (803)	63 7/8" (1622)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	26.16 (2.43)	56 11/16" (1440)	60 5/8" (1540)	62 1/8" (1578)	21.05 (1.96)	36.12 (3.36)	38.97 (3.62)
5480	1	31 5/8" (803)	63 7/8" (1622)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	12.62 (1.17)	27 1/4" (692)	29 1/4" (743)	62 1/8" (1578)	21.05 (1.96)	15.45 (1.44)	38.97 (3.62)
6080	2	35 5/8" (905)	59 7/8" (1521)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	27.70 (2.57)	64 11/16" (1643)	68 5/8" (1743)	58 1/8" (1476)	24.79 (2.30)	40.48 (3.76)	43.47 (4.04)
6080	1	35 5/8" (905)	59 7/8" (1521)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	13.42 (1.25)	31 1/4" (794)	33 1/4" (845)	58 1/8" (1476)	24.79 (2.30)	17.24 (1.60)	43.47 (4.04)
6480	2	37 5/8" (956)	57 7/8" (1470)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	28.31 (2.63)	68 11/16" (1745)	72 5/8" (1845)	56 1/8" (1426)	26.63 (2.47)	42.62 (3.96)	45.69 (4.24)
6480	1	37 5/8" (956)	57 7/8" (1470)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	13.74 (1.28)	33 1/4" (845)	35 1/4" (895)	56 1/8" (1426)	26.63 (2.47)	19.84 (1.84)	45.69 (4.24)

- "Door Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters or square meters.
- *For two-panel patio doors with one panel open, clear opening is based on active panel being open and passive panel being closed.

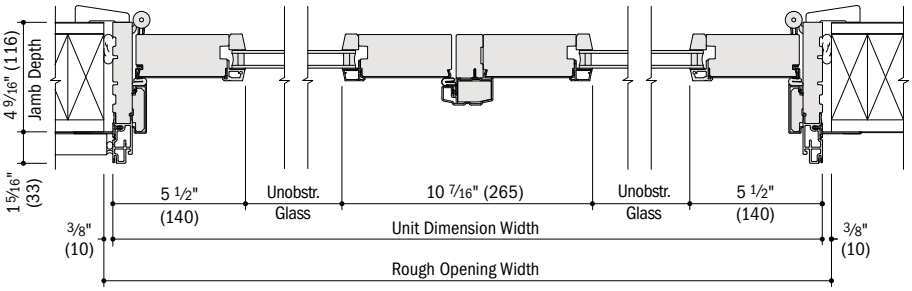
COMPLEMENTARY CURVED TOP PATIO DOORS

Complementary Springline™ Hinged Inswing Patio Door Details – 4 9/16" (116) Jamb Depth

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

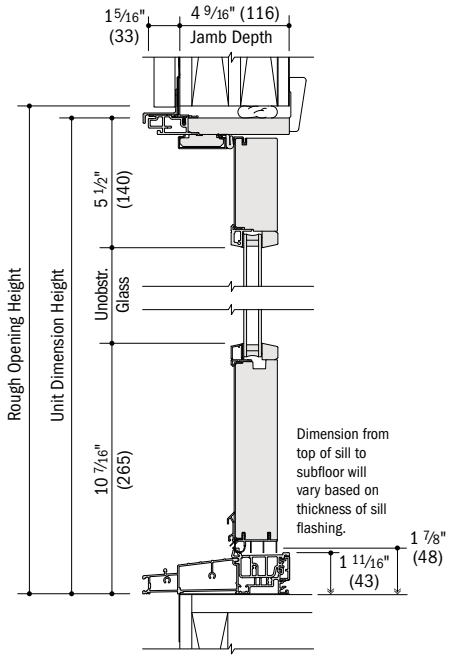


Horizontal Section



Horizontal Section

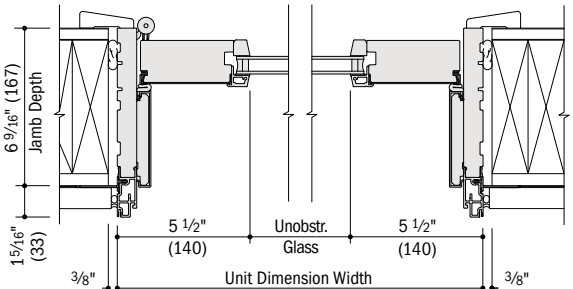
Two-Panel



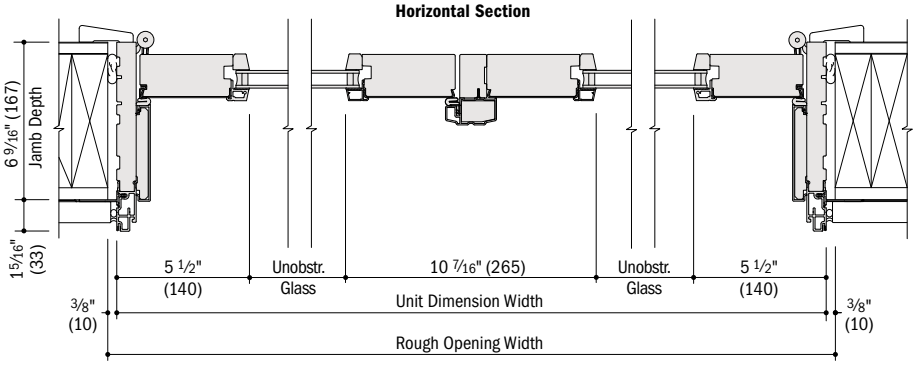
Vertical Section

Complementary Springline™ Hinged Inswing Patio Door Details – 6 9/16" (167) Jamb Depth

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

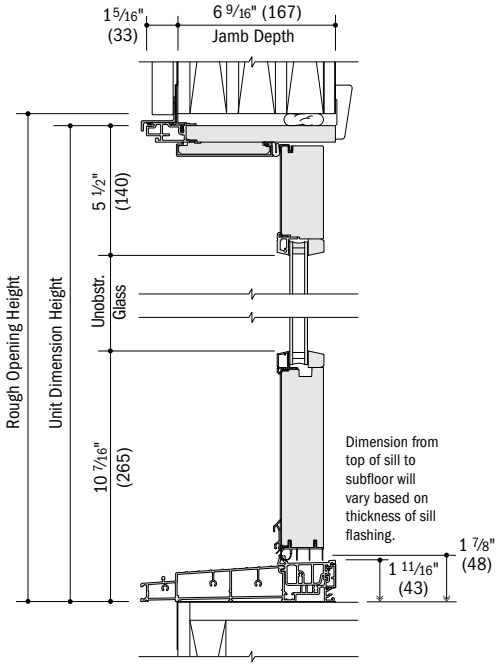


Horizontal Section



Horizontal Section

Two-Panel

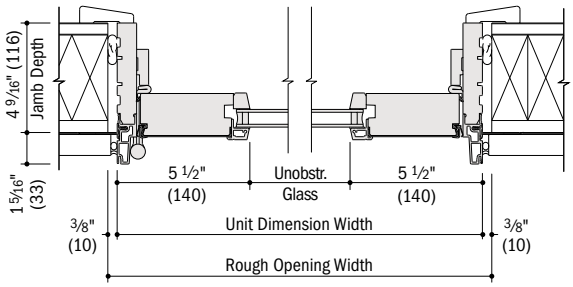


Vertical Section

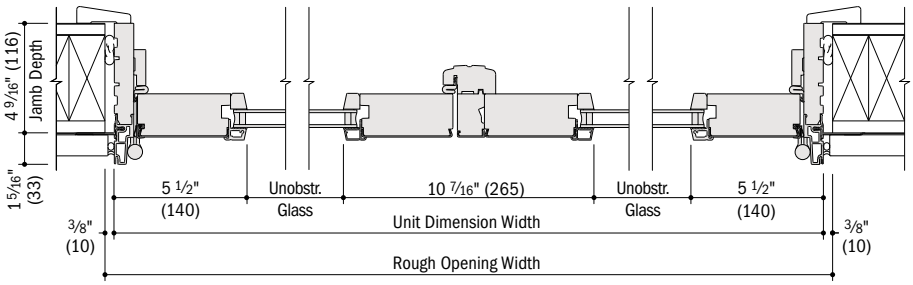
- 4 9/16" (116) and 6 9/16" (167) overall jamb depth measurements are from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Complementary Springline™ Hinged Outswing Patio Door Details – 4 9/16" (116) Jamb Depth

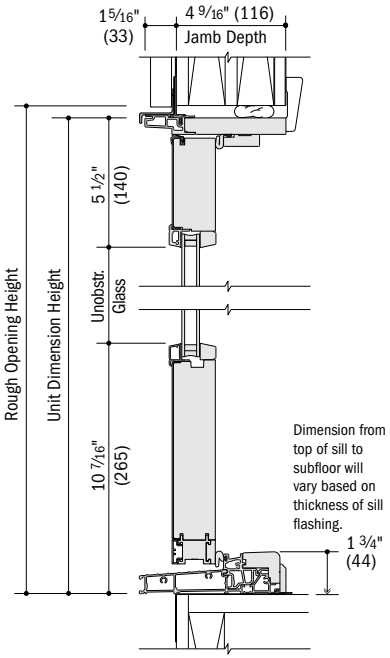
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section



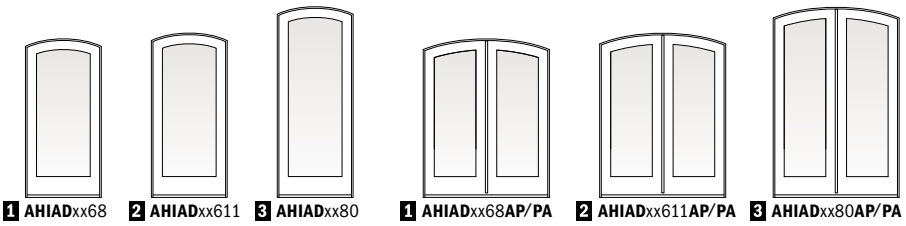
Horizontal Section
Two-Panel



Vertical Section

- 4 9/16" (116) overall jamb depth measurements are from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

COMPLEMENTARY CURVED TOP PATIO DOORS



1 AHIADxx68 **2 AHIAD**xx611 **3 AHIAD**xx80 **1 AHIAD**xx68**AP/PA** **2 AHIAD**xx611**AP/PA** **3 AHIAD**xx80**AP/PA**

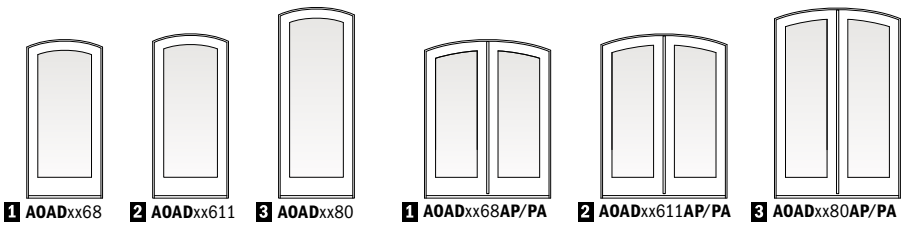
Custom-size doors are available in 1/8" (3) increments. Traditional panels are standard. Custom-designed and 3/4-light panels are also available. Stationary doors are also available (i.e., 2168**S** or 4068**SS**). Add **AHIAD** to "Door Number" listed in table (i.e., **AHIAD**2168).

Complementary Arch Hinged Inswing Patio Door Dimensions and Specifications

Door Number	Number of Panels Open*	Door Dimensions				Min. Rough Opening		Clear Opening Area	Clear Opening Maximums			Glass Area	Vent Area	Overall Door Area
		Radius Inches/(mm)	Side Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m^2)	90° Open Position Width Inches/(mm)	Full Open Position Width Inches/(mm)	Height Inches/(mm)	Sq. Ft./(m^2)	Sq. Ft./(m^2)	Sq. Ft./(m^2)
2168	1	36" (914)	77 7/16" (1967)	23 15/16" (608)	79 1/2" (2019)	25" (635)	80" (2032)	10.79 (1.00)	18 7/8" (479)	20 13/16" (529)	74 11/16" (1897)	5.66 (0.53)	12.46 (1.16)	14.49 (1.35)
2768	1	48" (1219)	77 1/8" (1959)	29 15/16" (760)	79 1/2" (2019)	31" (787)	80" (2032)	13.84 (1.29)	24 7/8" (632)	26 13/16" (681)	74 5/16" (1888)	8.28 (0.77)	15.70 (1.46)	17.85 (1.66)
2968	1	48" (1219)	76 3/4" (1949)	31 15/16" (811)	79 1/2" (2019)	33" (838)	80" (2032)	14.81 (1.38)	26 7/8" (683)	28 13/16" (732)	74" (1880)	9.15 (0.85)	16.77 (1.56)	18.95 (1.76)
3168	1	48" (1219)	76" (1930)	35 15/16" (913)	79 1/2" (2019)	37" (940)	80" (2032)	16.71 (1.55)	30 7/8" (784)	32 13/16" (833)	73 5/16" (1862)	10.87 (1.01)	18.88 (1.75)	21.13 (1.96)
3368	1	48" (1219)	75 5/8" (1921)	37 15/16" (964)	79 1/2" (2019)	39" (991)	80" (2032)	17.86 (1.66)	32 7/8" (835)	34 13/16" (884)	73 7/8" (1876)	11.72 (1.09)	22.01 (2.04)	24.36 (2.26)
21611	1	36" (914)	80 5/16" (2040)	23 15/16" (608)	82 3/8" (2092)	25" (635)	83" (2108)	11.21 (1.04)	18 7/8" (479)	20 13/16" (529)	77 9/16" (1970)	5.93 (0.55)	14.39 (1.34)	16.65 (1.55)
27611	1	48" (1219)	80" (2032)	29 15/16" (760)	82 3/8" (2092)	31" (787)	83" (2108);	14.37 (1.33)	24 7/8" (632)	26 13/16" (681)	77 3/16" (1961)	8.68 (0.81)	18.17 (1.69)	20.55 (1.91)
29611	1	48" (1219)	79 5/8" (2022)	31 15/16" (811)	82 3/8" (2092)	33" (838)	83" (2108)	15.38 (1.43)	26 7/8" (683)	28 13/16" (732)	76 7/8" (1953)	9.58 (0.89)	19.41 (1.80)	21.83 (2.03)
31611	1	48" (1219)	78 7/8" (2003)	35 15/16" (913)	82 3/8" (2092)	37" (940)	83" (2108)	17.36 (1.61)	30 7/8" (784)	32 13/16" (833)	76 3/16" (1935)	11.39 (1.06)	21.89 (2.03)	24.37 (2.26)
33611	1	48" (1219)	78 1/2" (1994)	37 15/16" (964)	82 3/8" (2092)	39" (991)	83" (2108)	18.55 (1.72)	32 7/8" (835)	34 13/16" (884)	76 3/4" (1949)	12.28 (1.14)	25.19 (2.34)	27.78 (2.58)
2180	1	36" (914)	93 7/16" (2373)	23 15/16" (608)	95 1/2" (2426)	25" (635)	96" (2438)	13.11 (1.22)	18 7/8" (479)	20 13/16" (529)	90 11/16" (2303)	7.09 (0.66)	16.31 (1.52)	18.81 (1.75)
2780	1	48" (1219)	93 1/8" (2365)	29 15/16" (760)	95 1/2" (2426)	31" (787)	96" (2438)	16.82 (1.56)	24 7/8" (632)	26 13/16" (681)	90 5/16" (2294)	10.38 (0.96)	20.63 (1.92)	23.25 (2.16)
2980	1	48" (1219)	92 3/4" (2356)	31 15/16" (811)	95 1/2" (2426)	33" (838)	96" (2438)	18.01 (1.67)	26 7/8" (683)	28 13/16" (732)	90" (2286)	11.47 (1.07)	22.06 (2.05)	24.71 (2.30)
3180	1	48" (1219)	92" (2337)	35 15/16" (913)	95 1/2" (2426)	37" (940)	96" (2438)	20.35 (1.89)	30 7/8" (784)	32 13/16" (833)	89 5/16" (2269)	13.63 (1.27)	24.89 (2.31)	27.62 (2.57)
3380	1	48" (1219)	91 5/8" (2327)	37 15/16" (964)	95 1/2" (2426)	39" (991)	96" (2438)	21.73 (2.02)	32 7/8" (835)	34 13/16" (884)	89 7/8" (2283)	14.71 (1.37)	28.38 (2.64)	31.20 (2.90)
4068	2	48" (1219)	73 5/16" (1862)	47 1/4" (1200)	79 1/2" (2019)	48" (1219)	80" (2032)	21.56 (2.00)	39 15/16" (1014)	43 13/16" (1113)	70 7/8" (1800)	10.93 (1.02)	25.61 (2.38)	28.07 (2.61)
4068	1	48" (1219)	73 5/16" (1862)	47 1/4" (1200)	79 1/2" (2019)	48" (1219)	80" (2032)	10.27 (0.95)	18 15/16" (481)	20 7/8" (530)	70 7/8" (1800)	10.93 (1.02)	12.22 (1.14)	28.07 (2.61)
5068	2	96" (2438)	74 13/16" (1900)	59 1/4" (1505)	79 1/2" (2019)	60" (1524)	80" (2032)	27.95 (2.60)	51 15/16" (1319)	55 13/16" (1418)	72 1/8" (1832)	16.30 (1.51)	32.24 (3.00)	34.97 (3.25)
5068	1	96" (2438)	74 13/16" (1900)	59 1/4" (1505)	79 1/2" (2019)	60" (1524)	80" (2032)	13.46 (1.25)	24 15/16" (633)	26 7/8" (683)	72 1/8" (1832)	16.30 (1.51)	15.54 (1.44)	34.97 (3.25)
5468	2	96" (2438)	74 1/8" (1883)	63 1/4" (1607)	79 1/2" (2019)	64" (1626)	80" (2032)	29.70 (2.76)	55 15/16" (1421)	59 13/16" (1519)	71 1/2" (1816)	17.97 (1.67)	34.29 (3.19)	37.09 (3.45)
5468	1	96" (2438)	74 1/8" (1883)	63 1/4" (1607)	79 1/2" (2019)	64" (1626)	80" (2032)	14.34 (1.33)	26 15/16" (684)	28 7/8" (733)	71 1/2" (1816)	17.97 (1.67)	16.56 (1.54)	37.09 (3.45)
6068	2	96" (2438)	72 5/8" (1845)	71 1/4" (1810)	79 1/2" (2019)	72" (1829)	80" (2032)	32.99 (3.06)	63 15/16" (1624)	67 13/16" (1722)	70 1/16" (1780)	21.25 (1.97)	38.33 (3.56)	41.27 (3.83)
6068	1	96" (2438)	72 5/8" (1845)	71 1/4" (1810)	79 1/2" (2019)	72" (1829)	80" (2032)	16.00 (1.49)	30 15/16" (786)	32 7/8" (835)	70 1/16" (1780)	21.25 (1.97)	18.58 (1.73)	41.27 (3.83)
6468	2	96" (2438)	71 13/16" (1824)	75 1/4" (1911)	79 1/2" (2019)	76" (1930)	80" (2032)	34.53 (3.21)	67 15/16" (1726)	71 13/16" (1824)	69 1/4" (1759)	22.86 (2.12)	44.22 (4.11)	47.36 (4.40)
6468	1	96" (2438)	71 13/16" (1824)	75 1/4" (1911)	79 1/2" (2019)	76" (1930)	80" (2032)	16.77 (1.56)	32 15/16" (837)	34 7/8" (886)	69 1/4" (1759)	22.86 (2.12)	21.53 (2.00)	47.36 (4.40)
40611	2	48" (1219)	76 3/16" (1935)	47 1/4" (1200)	82 3/8" (2092)	48" (1219)	83" (2108)	22.44 (2.08)	39 15/16" (1014)	43 13/16" (1113)	73 3/4" (1873)	11.46 (1.06)	29.64 (2.75)	32.34 (3.00)
40611	1	48" (1219)	76 3/16" (1935)	47 1/4" (1200)	82 3/8" (2092)	48" (1219)	83" (2108)	10.69 (0.99)	18 15/16" (481)	20 7/8" (530)	73 3/4" (1873)	11.46 (1.06)	14.29 (1.33)	32.34 (3.00)
50611	2	96" (2438)	77 11/16" (1973)	59 1/4" (1505)	82 3/8" (2092)	60" (1524)	83" (2108)	29.07 (2.70)	51 15/16" (1319)	55 13/16" (1418)	75" (1905)	17.09 (1.59)	37.35 (3.47)	40.32 (3.75)
50611	1	96" (2438)	77 11/16" (1973)	59 1/4" (1505)	82 3/8" (2092)	60" (1524)	83" (2108)	14.00 (1.30)	24 15/16" (633)	26 7/8" (683)	75" (1905)	17.09 (1.59)	18.15 (1.69)	40.32 (3.75)
54611	2	96" (2438)	77" (1956)	63 1/4" (1607)	82 3/8" (2092)	64" (1626)	83" (2108)	30.89 (2.87)	55 15/16" (1421)	59 13/16" (1519)	74 3/8" (1889)	18.84 (1.75)	39.77 (3.69)	42.80 (3.98)
54611	1	96" (2438)	77" (1956)	63 1/4" (1607)	82 3/8" (2092)	64" (1626)	83" (2108)	14.91 (1.39)	26 15/16" (684)	28 7/8" (733)	74 3/8" (1889)	18.84 (1.75)	19.35 (1.80)	42.80 (3.98)
60611	2	96" (2438)	75 1/2" (1918)	71 1/4" (1810)	82 3/8" (2092)	72" (1829)	83" (2108)	34.35 (3.19)	63 15/16" (1624)	67 13/16" (1722)	72 15/16" (1853)	22.28 (2.07)	44.53 (4.14)	47.71 (4.43)
60611	1	96" (2438)	75 1/2" (1918)	71 1/4" (1810)	82 3/8" (2092)	72" (1829)	83" (2108)	16.65 (1.55)	30 15/16" (786)	32 7/8" (835)	72 15/16" (1853)	22.28 (2.07)	21.74 (2.02)	47.71 (4.43)
64611	2	96" (2438)	74 11/16" (1897)	75 1/4" (1911)	82 3/8" (2092)	76" (1930)	83" (2108)	35.97 (3.34)	67 15/16" (1726)	71 13/16" (1824)	72 1/8" (1832)	23.98 (2.23)	50.78 (4.72)	54.16 (5.03)
64611	1	96" (2438)	74 11/16" (1897)	75 1/4" (1911)	82 3/8" (2092)	76" (1930)	83" (2108)	17.47 (1.62)	32 15/16" (837)	34 7/8" (886)	72 1/8" (1832)	23.98 (2.23)	25.22 (2.34)	54.16 (5.03)
4080	2	48" (1219)	89 5/16" (2269)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	26.43 (2.46)	39 15/16" (1014)	43 13/16" (1113)	86 7/8" (2207)	13.76 (1.28)	33.66 (3.13)	36.60 (3.40)
4080	1	48" (1219)	89 5/16" (2269)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	12.59 (1.17)	18 15/16" (481)	20 7/8" (530)	86 7/8" (2207)	13.76 (1.28)	14.29 (1.33)	36.60 (3.40)
5080	2	96" (2438)	90 13/16" (2307)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	34.16 (3.17)	51 15/16" (1319)	55 13/16" (1418)	88 1/8" (2238)	20.50 (1.90)	42.47 (3.95)	45.67 (4.24)
5080	1	96" (2438)	90 13/16" (2307)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	16.45 (1.53)	24 15/16" (633)	26 7/8" (683)	88 1/8" (2238)	20.50 (1.90)	18.15 (1.69)	45.67 (4.24)
5480	2	96" (2438)	90 1/8" (2289)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	36.34 (3.38)	55 15/16" (1421)	59 13/16" (1519)	87 1/2" (2223)	22.61 (2.10)	45.24 (4.20)	48.51 (4.51)
5480	1	96" (2438)	90 1/8" (2289)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	17.55 (1.63)	26 15/16" (684)	28 7/8" (733)	87 1/2" (2223)	22.61 (2.10)	19.35 (1.80)	48.51 (4.51)
6080	2	96" (2438)	88 5/8" (2251)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	40.53 (3.77)	63 15/16" (1624)	67 13/16" (1722)	86 1/16" (2186)	26.78 (2.49)	50.73 (4.71)	54.14 (5.03)
6080	1	96" (2438)	88 5/8" (2251)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	19.65 (1.83)	30 15/16" (786)	32 7/8" (835)	86 1/16" (2186)	26.78 (2.49)	21.74 (2.02)	54.14 (5.03)
6480	2	96" (2438)	87 13/16" (2230)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	42.51 (3.95)	67 15/16" (1726)	71 13/16" (1824)	85 1/4" (2165)	28.83 (2.68)	57.33 (5.33)	60.95 (5.66)
6480	1	96" (2438)	87 13/16" (2230)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	20.65 (1.92)	32 15/16" (837)	34 7/8" (886)	85 1/4" (2165)	28.83 (2.68)	25.22 (2.34)	60.95 (5.66)

- "Door Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters or square meters.

*For two-panel patio doors with one panel open, clear opening is based on active panel being open and passive panel being closed.



1 **AOAD**xx68 2 **AOAD**xx611 3 **AOAD**xx80 1 **AOAD**xx68**AP/PA** 2 **AOAD**xx611**AP/PA** 3 **AOAD**xx80**AP/PA**

Custom-size doors are available in 1/8" (3) increments. Traditional panels are standard. Custom-designed and 3/4-light panels are also available. Stationary doors are also available (i.e., 2168**S** or 4068**SS**). Add **AOAD** to "Door Number" listed in table (i.e., **AOAD**2168).

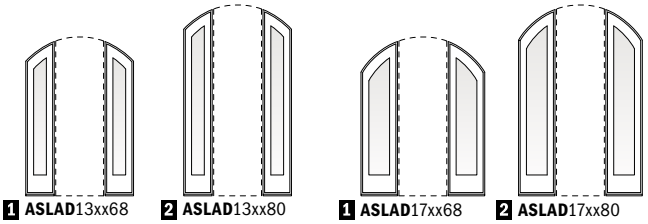
Complementary Arch Hinged Outswing Patio Door Dimensions and Specifications

Door Number	Number of Panels Open*	Door Dimensions				Min. Rough Opening		Clear Opening Area Sq. Ft./(m²)	Clear Opening Maximums			Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Overall Door Area Sq. Ft./(m²)
		Radius Inches/(mm)	Side Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)		90° Open Position Width Inches/(mm)	Full Open Position Width Inches/(mm)	Height Inches/(mm)			
2168	1	36" (914)	77 7/16" (1967)	23 15/16" (608)	79 1/2" (2019)	25" (635)	80" (2032)	11.06 (1.03)	19 3/8" (492)	21 5/16" (541)	74 3/4" (1899)	5.66 (0.53)	12.46 (1.16)	14.49 (1.35)
2768	1	48" (1219)	77 1/8" (1959)	29 15/16" (760)	79 1/2" (2019)	31" (787)	80" (2032)	14.11 (1.31)	25 3/8" (645)	27 5/16" (694)	74 3/8" (1889)	8.28 (0.77)	15.70 (1.46)	17.85 (1.66)
2968	1	48" (1219)	76 3/4" (1949)	31 15/16" (811)	79 1/2" (2019)	33" (838)	80" (2032)	15.08 (1.40)	27 3/8" (695)	29 5/16" (745)	74 1/16" (1881)	9.15 (0.85)	16.77 (1.56)	18.95 (1.76)
3168	1	48" (1219)	76" (1930)	35 15/16" (913)	79 1/2" (2019)	37" (940)	80" (2032)	16.97 (1.58)	31 3/8" (797)	33 5/16" (846)	73 3/8" (1864)	10.87 (1.01)	18.88 (1.75)	21.13 (1.96)
3368	1	48" (1219)	75 5/8" (1921)	37 15/16" (964)	79 1/2" (2019)	39" (991)	80" (2032)	17.90 (1.66)	33 3/8" (848)	35 5/16" (897)	73" (1854)	11.72 (1.09)	22.01 (2.04)	24.36 (2.26)
21611	1	36" (914)	80 5/16" (2040)	23 15/16" (608)	82 3/8" (2092)	25" (635)	83" (2108)	11.49 (1.07)	19 3/8" (492)	21 5/16" (541)	77 5/8" (1972)	5.93 (0.55)	14.39 (1.34)	16.65 (1.55)
27611	1	48" (1219)	80" (2032)	29 15/16" (760)	82 3/8" (2092)	31" (787)	83" (2108)	14.65 (1.36)	25 3/8" (645)	27 5/16" (694)	77 1/4" (1962)	8.68 (0.81)	18.17 (1.69)	20.55 (1.91)
29611	1	48" (1219)	79 5/8" (2022)	31 15/16" (811)	82 3/8" (2092)	33" (838)	83" (2108)	15.66 (1.45)	27 3/8" (695)	29 5/16" (745)	76 15/16" (1954)	9.58 (0.89)	19.41 (1.80)	21.83 (2.03)
31611	1	48" (1219)	78 7/8" (2003)	35 15/16" (913)	82 3/8" (2092)	37" (940)	83" (2108)	17.64 (1.64)	31 3/8" (797)	33 5/16" (846)	76 1/4" (1937)	11.39 (1.06)	21.89 (2.03)	24.37 (2.26)
33611	1	48" (1219)	78 1/2" (1994)	37 15/16" (964)	82 3/8" (2092)	39" (991)	83" (2108)	18.61 (1.73)	33 3/8" (848)	35 5/16" (897)	75 7/8" (1927)	12.28 (1.14)	25.19 (2.34)	27.78 (2.58)
2180	1	36" (914)	93 7/16" (2373)	23 15/16" (608)	95 1/2" (2426)	25" (635)	96" (2438)	13.43 (1.25)	19 3/8" (492)	21 5/16" (541)	90 3/4" (2305)	7.09 (0.66)	16.31 (1.52)	18.81 (1.75)
2780	1	48" (1219)	93 1/8" (2365)	29 15/16" (760)	95 1/2" (2426)	31" (787)	96" (2438)	17.14 (1.59)	25 3/8" (645)	27 5/16" (694)	90 3/8" (2296)	10.38 (0.96)	20.63 (1.92)	23.25 (2.16)
2980	1	48" (1219)	92 3/4" (2356)	31 15/16" (811)	95 1/2" (2426)	33" (838)	96" (2438)	18.33 (1.70)	27 3/8" (695)	29 5/16" (745)	90 1/16" (2288)	11.47 (1.07)	22.06 (2.05)	24.71 (2.30)
3180	1	48" (1219)	92" (2337)	35 15/16" (913)	95 1/2" (2426)	37" (940)	96" (2438)	20.68 (1.92)	31 3/8" (797)	33 5/16" (846)	89 3/8" (2270)	13.63 (1.27)	24.89 (2.31)	27.62 (2.57)
3380	1	48" (1219)	91 5/8" (2327)	37 15/16" (964)	95 1/2" (2426)	39" (991)	96" (2438)	21.83 (2.03)	33 3/8" (848)	35 5/16" (897)	89" (2261)	14.71 (1.37)	28.38 (2.64)	31.20 (2.90)
4068	2	48" (1219)	73 5/16" (1862)	47 1/4" (1200)	79 1/2" (2019)	48" (1219)	80" (2032)	21.93 (2.04)	40 11/16" (1033)	44 5/8" (1133)	70 3/4" (1797)	10.93 (1.02)	25.61 (2.38)	28.07 (2.61)
4068	1	48" (1219)	73 5/16" (1862)	47 1/4" (1200)	79 1/2" (2019)	48" (1219)	80" (2032)	10.44 (0.97)	19 1/4" (489)	21 1/4" (540)	70 3/4" (1797)	10.93 (1.02)	12.22 (1.14)	28.07 (2.61)
5068	2	96" (2438)	74 13/16" (1900)	59 1/4" (1505)	79 1/2" (2019)	60" (1524)	80" (2032)	28.36 (2.63)	52 11/16" (1338)	56 5/8" (1438)	72 1/8" (1832)	16.30 (1.51)	32.24 (3.00)	34.97 (3.25)
5068	1	96" (2438)	74 13/16" (1900)	59 1/4" (1505)	79 1/2" (2019)	60" (1524)	80" (2032)	13.65 (1.27)	25 1/4" (641)	27 1/4" (692)	72 1/8" (1832)	16.30 (1.51)	15.54 (1.44)	34.97 (3.25)
5468	2	96" (2438)	74 1/8" (1883)	63 1/4" (1607)	79 1/2" (2019)	64" (1626)	80" (2032)	30.08 (2.79)	56 11/16" (1440)	60 5/8" (1540)	71 7/16" (1815)	17.97 (1.67)	34.29 (3.19)	37.09 (3.45)
5468	1	96" (2438)	74 1/8" (1883)	63 1/4" (1607)	79 1/2" (2019)	64" (1626)	80" (2032)	14.51 (1.35)	27 1/4" (692)	29 1/4" (743)	71 7/16" (1815)	17.97 (1.67)	16.56 (1.54)	37.09 (3.45)
6068	2	96" (2438)	72 5/8" (1845)	71 1/4" (1810)	79 1/2" (2019)	72" (1829)	80" (2032)	33.36 (3.10)	64 11/16" (1643)	68 5/8" (1743)	70" (1778)	21.25 (1.97)	38.33 (3.56)	41.27 (3.83)
6068	1	96" (2438)	72 5/8" (1845)	71 1/4" (1810)	79 1/2" (2019)	72" (1829)	80" (2032)	16.16 (1.50)	31 1/4" (794)	33 1/4" (845)	70" (1778)	21.25 (1.97)	18.58 (1.73)	41.27 (3.83)
6468	2	96" (2438)	71 13/16" (1824)	75 1/4" (1911)	79 1/2" (2019)	76" (1930)	80" (2032)	34.89 (3.24)	68 11/16" (1745)	72 5/8" (1845)	69 3/16" (1757)	22.86 (2.12)	44.22 (4.11)	47.36 (4.40)
6468	1	96" (2438)	71 13/16" (1824)	75 1/4" (1911)	79 1/2" (2019)	76" (1930)	80" (2032)	16.94 (1.57)	33 1/4" (845)	35 1/4" (895)	69 3/16" (1757)	22.86 (2.12)	21.53 (2.00)	47.36 (4.40)
40611	2	48" (1219)	76 3/16" (1935)	47 1/4" (1200)	82 3/8" (2092)	48" (1219)	83" (2108)	22.82 (2.12)	40 11/16" (1033)	44 5/8" (1133)	73 5/8" (1870)	11.46 (1.06)	29.64 (2.75)	32.34 (3.00)
40611	1	48" (1219)	76 3/16" (1935)	47 1/4" (1200)	82 3/8" (2092)	48" (1219)	83" (2108)	10.86 (1.01)	19 1/4" (489)	21 1/4" (540)	73 5/8" (1870)	11.46 (1.06)	14.29 (1.33)	32.34 (3.00)
50611	2	96" (2438)	77 11/16" (1973)	59 1/4" (1505)	82 3/8" (2092)	60" (1524)	83" (2108)	29.49 (2.74)	52 11/16" (1338)	56 5/8" (1438)	75" (1905)	17.09 (1.59)	37.35 (3.47)	40.32 (3.75)
50611	1	96" (2438)	77 11/16" (1973)	59 1/4" (1505)	82 3/8" (2092)	60" (1524)	83" (2108)	14.19 (1.32)	25 1/4" (641)	27 1/4" (692)	75" (1905)	17.09 (1.59)	18.15 (1.69)	40.32 (3.75)
54611	2	96" (2438)	77" (1956)	63 1/4" (1607)	82 3/8" (2092)	64" (1626)	83" (2108)	31.29 (2.91)	56 11/16" (1440)	60 5/8" (1540)	74 5/16" (1888)	18.84 (1.75)	39.77 (3.69)	42.80 (3.98)
54611	1	96" (2438)	77" (1956)	63 1/4" (1607)	82 3/8" (2092)	64" (1626)	83" (2108)	15.09 (1.40)	27 1/4" (692)	29 1/4" (743)	74 5/16" (1888)	18.84 (1.75)	19.35 (1.80)	42.80 (3.98)
60611	2	96" (2438)	75 1/2" (1918)	71 1/4" (1810)	82 3/8" (2092)	72" (1829)	83" (2108)	34.73 (3.23)	64 11/16" (1643)	68 5/8" (1743)	72 7/8" (1851)	22.28 (2.07)	44.53 (4.14)	47.71 (4.43)
60611	1	96" (2438)	75 1/2" (1918)	71 1/4" (1810)	82 3/8" (2092)	72" (1829)	83" (2108)	16.83 (1.56)	31 1/4" (794)	33 1/4" (845)	72 7/8" (1851)	22.28 (2.07)	21.74 (2.02)	47.71 (4.43)
64611	2	96" (2438)	74 11/16" (1897)	75 1/4" (1911)	82 3/8" (2092)	76" (1930)	83" (2108)	36.34 (3.38)	68 11/16" (1745)	72 5/8" (1845)	72 1/16" (1830)	23.98 (2.23)	50.78 (4.72)	54.16 (5.03)
64611	1	96" (2438)	74 11/16" (1897)	75 1/4" (1911)	82 3/8" (2092)	76" (1930)	83" (2108)	17.64 (1.64)	33 1/4" (845)	35 1/4" (895)	72 1/16" (1830)	23.98 (2.23)	25.22 (2.34)	54.16 (5.03)
4080	2	48" (1219)	89 5/16" (2269)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	26.88 (2.50)	40 11/16" (1033)	44 5/8" (1133)	86 3/4" (2203)	13.76 (1.28)	33.66 (3.13)	36.60 (3.40)
4080	1	48" (1219)	89 5/16" (2269)	47 1/4" (1200)	95 1/2" (2426)	48" (1219)	96" (2438)	12.80 (1.19)	19 1/4" (489)	21 1/4" (540)	86 3/4" (2203)	13.76 (1.28)	14.29 (1.33)	36.60 (3.40)
5080	2	96" (2438)	90 13/16" (2307)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	34.65 (3.22)	52 11/16" (1338)	56 5/8" (1438)	88 1/8" (2238)	20.50 (1.90)	42.47 (3.95)	45.67 (4.24)
5080	1	96" (2438)	90 13/16" (2307)	59 1/4" (1505)	95 1/2" (2426)	60" (1524)	96" (2438)	16.68 (1.55)	25 1/4" (641)	27 1/4" (692)	88 1/8" (2238)	20.50 (1.90)	18.15 (1.69)	45.67 (4.24)
5480	2	96" (2438)	90 1/8" (2289)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	36.81 (3.42)	56 11/16" (1440)	60 5/8" (1540)	87 7/16" (2221)	22.61 (2.10)	45.24 (4.20)	48.51 (4.51)
5480	1	96" (2438)	90 1/8" (2289)	63 1/4" (1607)	95 1/2" (2426)	64" (1626)	96" (2438)	17.76 (1.65)	27 1/4" (692)	29 1/4" (743)	87 7/16" (2221)	22.61 (2.10)	19.35 (1.80)	48.51 (4.51)
6080	2	96" (2438)	88 5/8" (2251)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	40.98 (3.81)	64 11/16" (1643)	68 5/8" (1743)	86" (2184)	26.78 (2.49)	50.73 (4.71)	54.14 (5.03)
6080	1	96" (2438)	88 5/8" (2251)	71 1/4" (1810)	95 1/2" (2426)	72" (1829)	96" (2438)	19.86 (1.84)	31 1/4" (794)	33 1/4" (845)	86" (2184)	26.78 (2.49)	21.74 (2.02)	54.14 (5.03)
6480	2	96" (2438)	87 13/16" (2230)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	42.96 (3.99)	68 11/16" (1745)	72 5/8" (1845)	85 3/16" (2164)	28.83 (2.68)	57.33 (5.33)	60.95 (5.66)
6480	1	96" (2438)	87 13/16" (2230)	75 1/4" (1911)	95 1/2" (2426)	76" (1930)	96" (2438)	20.85 (1.94)	33 1/4" (845)	35 1/4" (895)	85 3/16" (2164)	28.83 (2.68)	25.22 (2.34)	60.95 (5.66)

- "Door Dimension" always refers to outside 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. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters or square meters.
- *For two-panel patio doors with one panel open, clear opening is based on active panel being open and passive panel being closed.

COMPLEMENTARY CURVED TOP PATIO DOORS

Complementary Arch Patio Door Sidelights



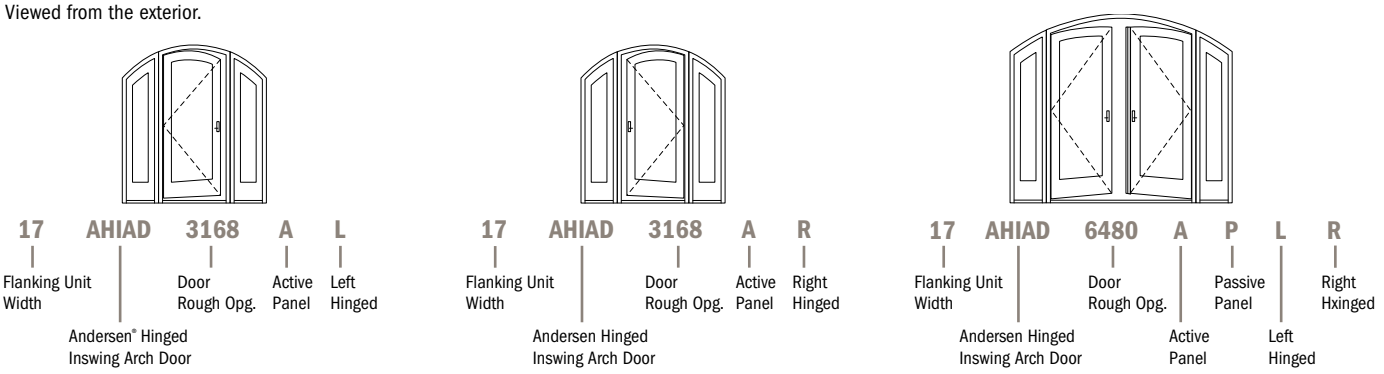
1 **ASLAD**13xx68 **2** **ASLAD**13xx80 **1** **ASLAD**17xx68 **2** **ASLAD**17xx80

Custom sized in 1/8" (3) increments.

Standard sizes in two widths and heights. Contact your Andersen supplier for sidelight dimensions and specifications. Sash-set arch patio door sidelights, shown, are standard. Direct-set sidelights are available by special order.

Order Designation Description

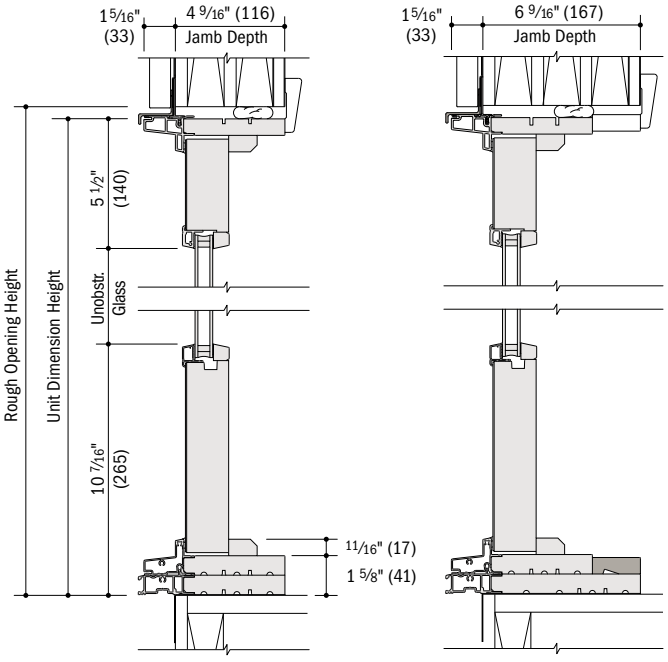
Viewed from the exterior.



Arch inswing patio doors (**AHIAD**) shown above; for arch outswing patio doors use **AOAD**. Outswing patio doors open outward to the exterior.

Complementary Arch Patio Door Sidelight Details

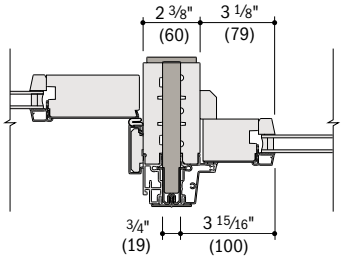
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



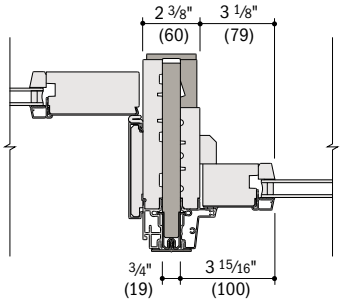
Vertical Sections

Vertical Joining Details

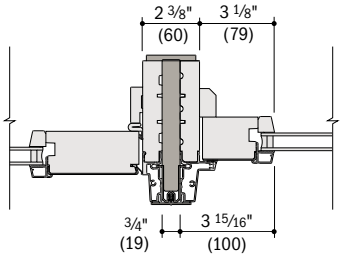
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Complementary Arch Inswing Patio Door to Complementary Arch Patio Door Sidelight
4 9/16" (116) Jamb Depth



Complementary Arch Inswing Patio Door to Complementary Arch Patio Door Sidelight
6 9/16" (167) Jamb Depth

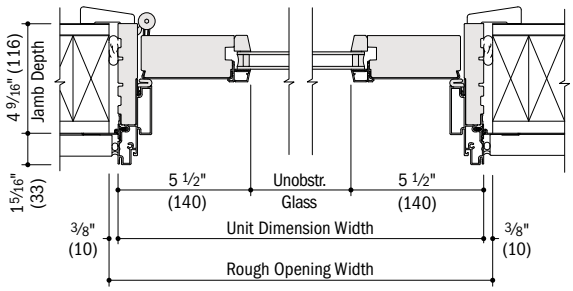


Complementary Arch Outswing Patio Door to Complementary Arch Patio Door Sidelight

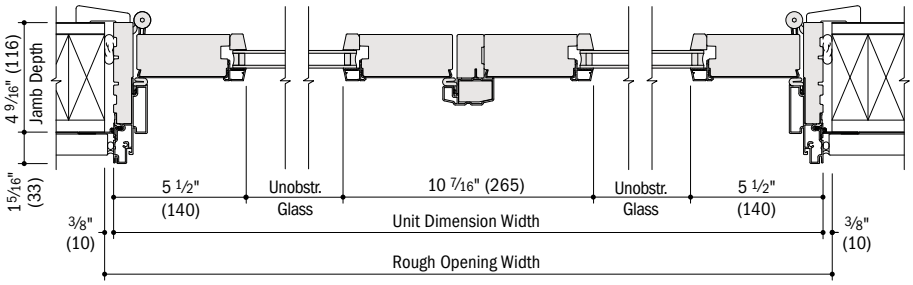
- 4 9/16" (116) and 6 9/16" (167) overall jamb depth measurements are from back side of installation flange.
- Light-colored areas are parts included with window and/or door. Dark-colored areas are additional Andersen® parts required to complete window and/or door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

Complementary Arch Hinged Inswing Patio Door Details – 4 9/16" (116) Jamb Depth

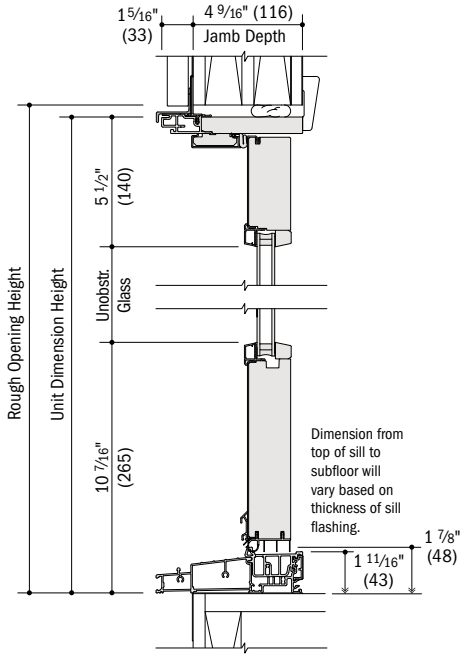
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section



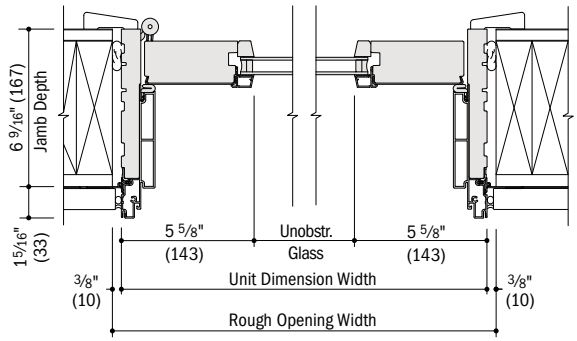
Horizontal Section
Two-Panel



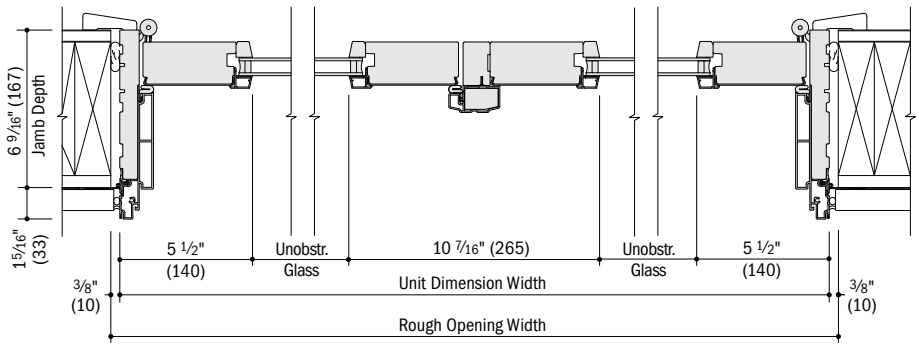
Vertical Section

Complementary Arch Hinged Inswing Patio Door Details – 6 9/16" (167) Jamb Depth

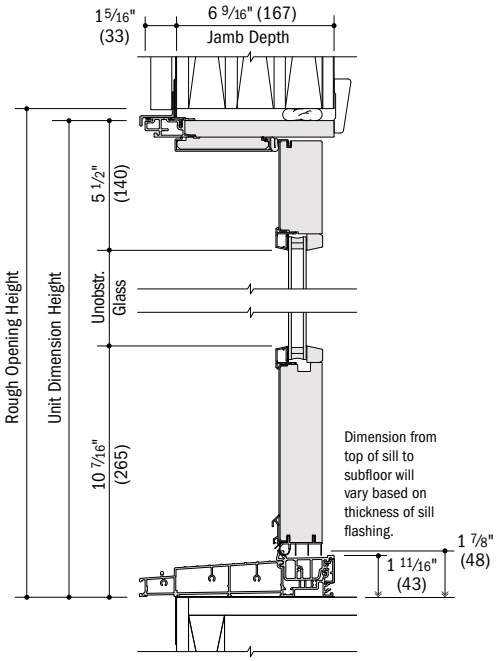
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section



Horizontal Section
Two-Panel



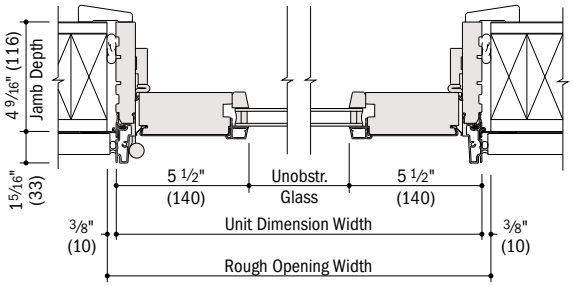
Vertical Section

- 4 9/16" (116) and 6 9/16" (167) overall jamb depth measurements are from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.

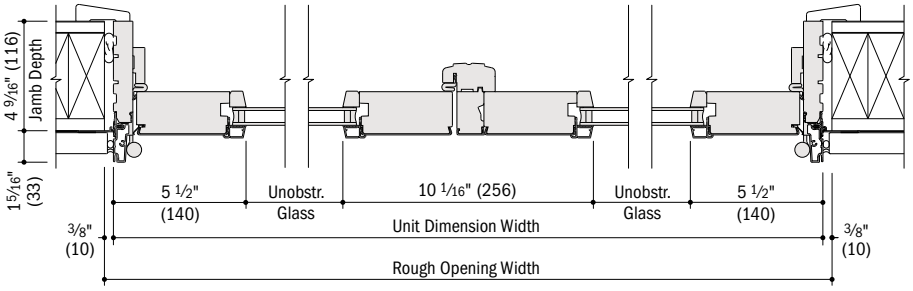
COMPLEMENTARY CURVED TOP PATIO DOORS

Complementary Arch Outswing Patio Door Details – 4 9/16" (116) Jamb Depth

Scale 1½" (38) = 1'-0" (305) – 1:8

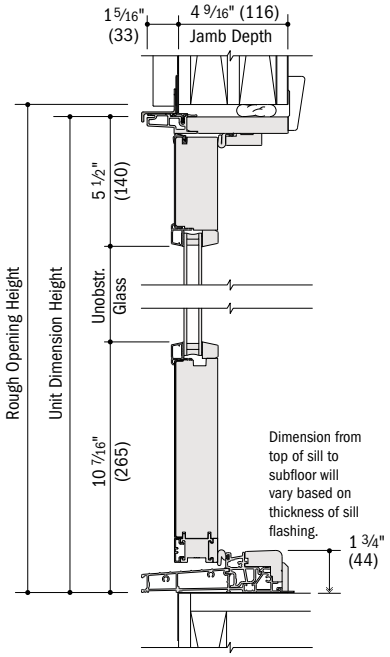


Horizontal Section



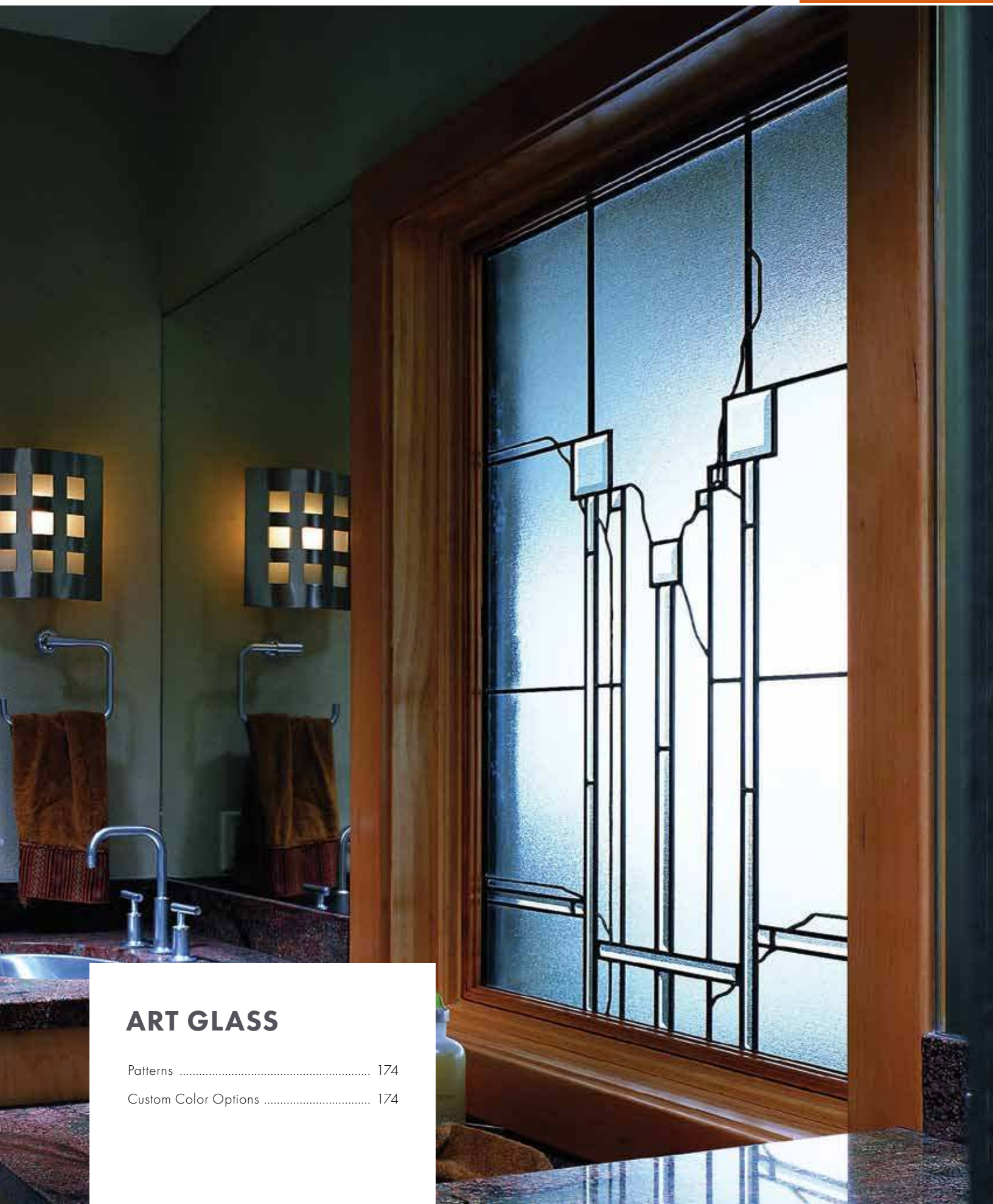
Horizontal Section

Two-Panel



Vertical Section

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- 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.



ART GLASS

ART GLASS

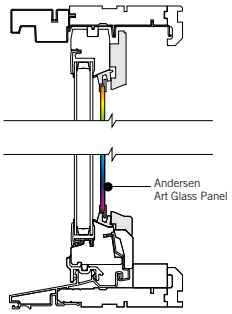
FEATURES

FRAME

For most units, Andersen® art glass panel kits include pine and laminated maple trim to give each installation a finished appearance. Panels are edged with steel-reinforced zinc caming for stability. Caming finish options are available in antique (bronze), bright goldtone and silvertone.

PACKAGE INCLUDES

Andersen art glass panel, installation brackets, wood trim pieces (where applicable), brass screws, and complete installation and cleaning instructions.



INSTALLATION

Panels are secured with polypropylene, snap-lock installation brackets.

AVAILABILITY

Andersen art glass panels are sized to fit Andersen casement, awning, half circle, elliptical, circle, oval, arch, Flexiframe,® double-hung transom and picture windows, Frenchwood® hinged patio doors, sidelights and transoms.

GLASS

Designs are offered in several standard color palettes, or choose from the many optional colors for glass and accent "jewels" to create your own unique color combinations.

PATTERN DETAILS

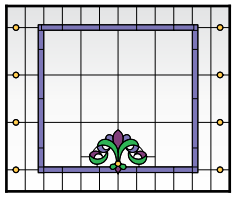
Each design can be ordered in many shapes and sizes, including detailed art glass patterns for specific unit sizes.

COLOR OPTIONS

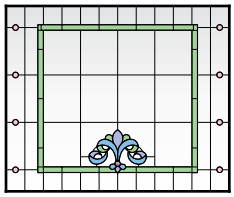
Andersen gives you a choice of antique, silvertone or bright goldtone caming, the ornamental material used to hold sections of decorative glass in place.

For more information, see your Andersen supplier or visit **andersenwindows.com/artglass**.

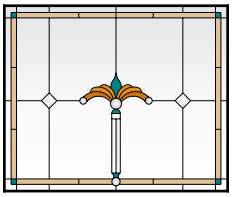
PATTERNS



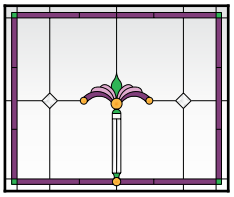
Victoria
Violet, deep rose, deep green and amber jewels



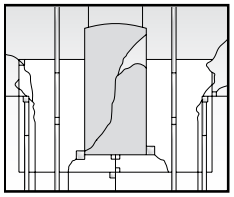
Victoria
Light green, lilac, light blue, pink jewels and lilac jewels



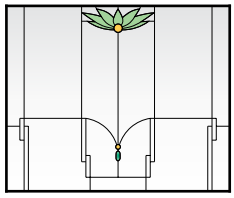
Regency
Sand, deep teal, topaz, copper and smoke jewels



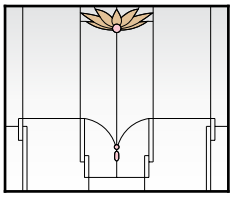
Regency
Deep rose, deep green, rose and opal amber jewels



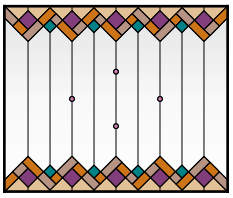
Harmonics
Opal, sage and clear bevels (right orientation)



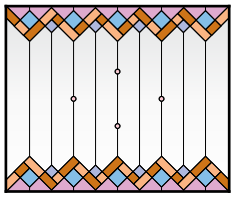
Lotus
Light green, amber jewels and green jewels



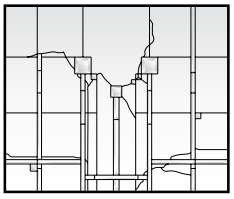
Lotus
Sand and pink jewels



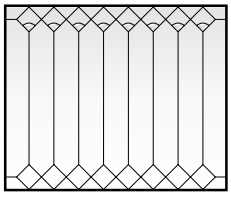
Taos
Dusty coral, copper, sand, deep rose, deep teal and lilac jewels



Taos
Peach, copper, rose, lilac, light blue and pink jewels



Affinity
No color, clear bevels (right orientation)



Diamond Lights
Clear fan-shaped bevels

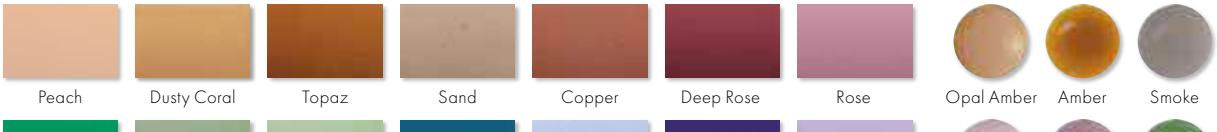
CLASSIC SERIES

The Classic Series includes five different styles that represent major architectural design themes from the late 1800s through the 1930s, as well as a Southwestern-inspired design. Classic Series glass patterns are also available with semi-privacy glass or clear antique glass in place of colored glass.

ARTISAN SERIES

Two designs influenced by 20th century American and European architectural schools feature striking visual patterns that evoke an extraordinary blend of art and nature. Artisan Series glass patterns are available in left or right orientations, as viewed from the exterior.

CUSTOM COLOR OPTIONS



Clear, clear antique and semi-privacy glass are also available as custom art class color options.

Andersen art glass panel patterns vary based on window size and shape. Contact your Andersen supplier for complete pattern information.
Colors in the Classic Series and Artisan Series may vary from photos and actual glass samples due to the unique character of the mouthblown glass.
Art glass changes appearance greatly based on lighting in its environment, making it beautiful to look at yet difficult to represent accurately in print. Printing limitations prevent exact color replication.

EXTERIOR TRIM

FEATURES

EXTERIOR TRIM SYSTEM

Easier Installation

- Installs independently of water management system
- No nail holes to fill
- No visible fasteners
- No painting

ENGINEERED WITH FIBREX®

Made of Fibrex® material that is an environmentally smart composite, containing 40% pre-consumer reclaimed wood fiber by weight.

ANDERSEN INNOVATION

EXTERIOR TRIM

Ⓐ For exceptional long-lasting* performance, exterior trim is made from Fibrex material or high-density urethane with low-maintenance exterior finishes.

Ⓑ Sill nose profile, made from Fibrex material, is placed at the sill for a traditional look.

Ⓒ Rigid vinyl exterior trim attachment strips (field applied) allow the trim to be securely fastened to the home.

Ⓓ Trim surrounds are assembled with corner keys and stainless steel fasteners for stability and strength.

Profiles

Exterior trim is available in four profiles made from our Fibrex material. Profiles include 3 ½" (89) flat casing, 4 ½" (114) flat casing, 2" (51) brick mould and sill nose for the bottom trim piece. See profiles and sill options on the next page.

Thick trim profiles overlap the window frame to create clean lines without visible sealant joints.

Drip Cap

Full-length, color-matched aluminum drip cap is included with kits and surrounds.

End Caps

Provide a clean appearance when joining two trim members.

Corner Keys

Provide tight alignment of corner joints.

EXTERIOR TRIM OPTIONS

EXTERIOR TRIM COLORS

White | Canvas | Prairie Grass | Sandtone | Terratone | Cocoa Bean

Dark Bronze | Red Rock | Forest Green | Dove Gray | Black

Design a window and view exterior trim installation guides at andersenwindows.com/exteriortrim.

Fasteners

Screws are made of high-quality stainless steel and provide corner joints with a secure, tight fit.

Head Trim Options

Three styles are available. All can be used above our flat casing and include an integrated installation flange. The decorative drip cap is made from our Fibrex material. Both the 2" (51) cornice and 3 ⅝" (92) cornice are made from highly durable urethane material. See head trim options on the next page.

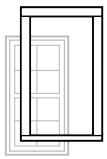
Specialty Trim

Made of highly durable factory-finished urethane material for selected shapes. Contact your Andersen supplier for availability.

INSTALLATION OPTIONS

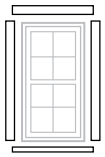
Preassembled Trim Surrounds

Factory-assembled surrounds install quickly and eliminate measuring, cutting, mitering and filling nail holes.



Precut Kits

Knock-down kits include precut and predrilled trim with all the necessary components for on-site assembly for windows.



Individual Trim Components

13' (3962) factory-finished trim lineals, end caps, corner keys, fasteners, metal drip caps and field attachment strips allow for field fabrication and assembly.

*See the 400 Series Limited Warranty for exterior trim applied to 400 Series products. Visit andersenwindows.com/warranty for details.

Dimensions in parentheses are in millimeters.

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

PROFILES

2" (51) Brick Mould in dove gray with Terratone window

3 ½" (89) Flat Casing in dark bronze with white window

4 ½" (114) Flat Casing in canvas with forest green window

HEAD TRIM OPTIONS

Decorative Drip Cap with 3 ½" (89) flat casing in red rock with Sandtone window

2" (51) Cornice with 3 ½" (89) flat casing in red rock with Sandtone window

3 5/8" (92) Cornice with 3 ½" (89) flat casing in red rock with Sandtone window

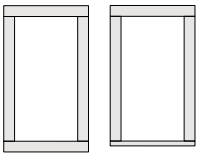
SILL OPTIONS

2" (51) Brick Mould with sill nose in dove gray with Terratone window

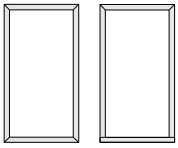
3 ½" (89) Flat Casing with sill nose in dark bronze with white window

4 ½" (114) Flat Casing with sill nose in canvas with forest green window

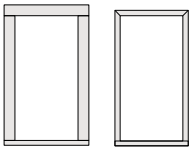
TRIM COMBINATIONS



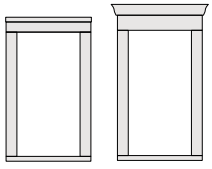
Flat Casing can be used on all four sides flush at the head and sill. Combine 3 ½" (89) and 4 ½" (114) flat casing or use with a flush sill nose.



Brick Mould can be used on all four sides or with a flush sill nose



Sill Nose can be used with flat casing or brick mould.



Decorative Drip Cap or **Cornices** can be used above flat casing at the head.

ACCESSORIES

INSTALLATION

Fibrex® Trim Board

Andersen offers a 3 ½" (89) wide by ¾" (19) thick cellular Fibrex trim board in 10' (3048) lengths. Available in the same 11 colors as the exterior trim system, this solid trim board can be ripped to size and can be fastened using nails or screws.

Coil Stock

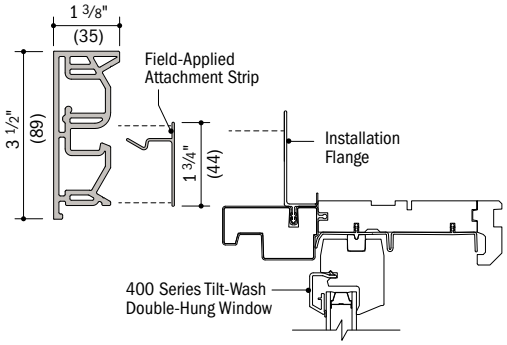
Factory finished in any of our 11 exterior trim colors, our aluminum coil stock allows you to form your own profiles in the field. Made from .018" thick aluminum, coil stock is available in 24" (610) x 50' (15240) rolls. Color-matched 1 ¼" (32)-long stainless steel trim nails are also available and can be ordered in 1 lb/.454 kg boxes.

Dimensions in parentheses are in millimeters.

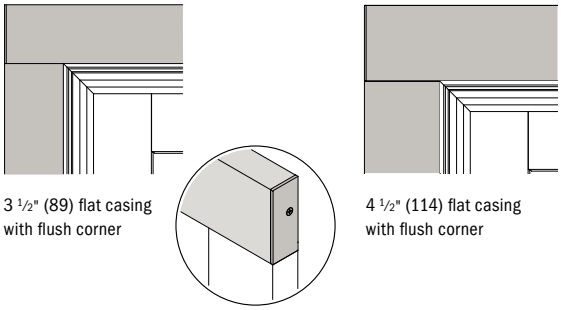
Window and Patio Door Attachment

Field-Applied Attachment Strip

Field-applied attachment strip fastens to framing through window or patio door installation flange and flashing tape with screws. Exterior trim connects securely to the field-applied attachment strip. Follow window and patio door installation guides for flashing instructions.



3 1/2" (89) and 4 1/2" (114) Flat Casing



3 1/2" (89) flat casing with flush corner

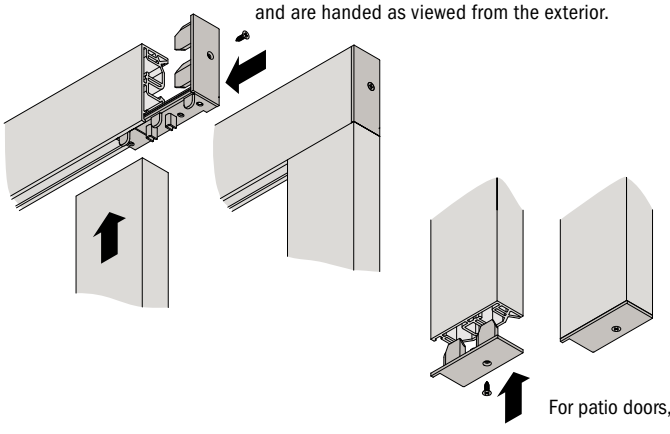
4 1/2" (114) flat casing with flush corner

Formula for dimension of window/door plus exterior trim:

Add 4 1/4" (108) per side for 4 1/2" (114) flat casing

Add 3 1/4" (83) per side for 3 1/2" (89) flat casing

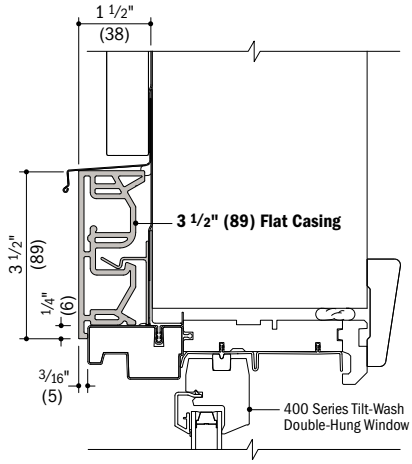
End caps are used at corners for flat casing and are handed as viewed from the exterior.



For patio doors, end caps are used at the sill.

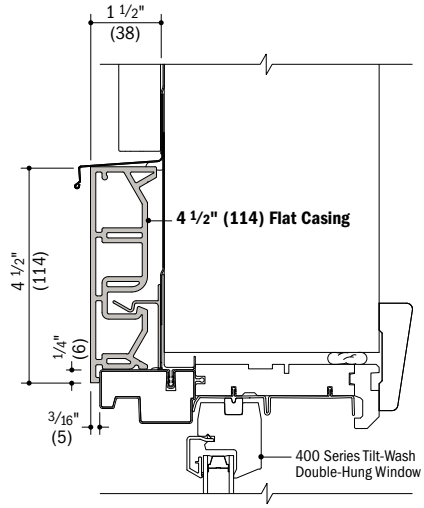
Trim Details

Scale 3" (76) = 1'-0" (305) – 1:4



Vertical Section

400 Series Tilt-Wash Double-Hung Window with 3 1/2" (89) Flat Casing

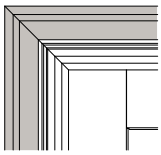


Vertical Section

400 Series Tilt-Wash Double-Hung Window with 4 1/2" (114) Flat Casing

- Dimensions in parentheses are in millimeters.
- Typical trim combinations shown. Additional combinations may also be used. Some restrictions apply. For more information, contact your Andersen supplier.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.

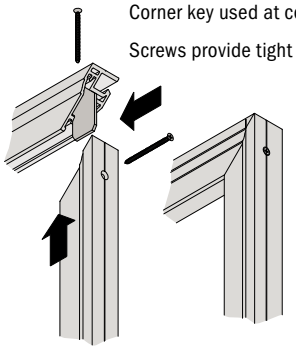
Brick Mould



Brick mould with mitered corners

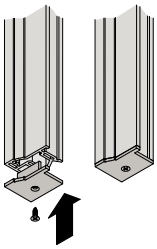
Formula for dimension of window/door plus exterior trim:

Add 1 ¾" (44) per side for brick mould



Corner key used at corner joints.

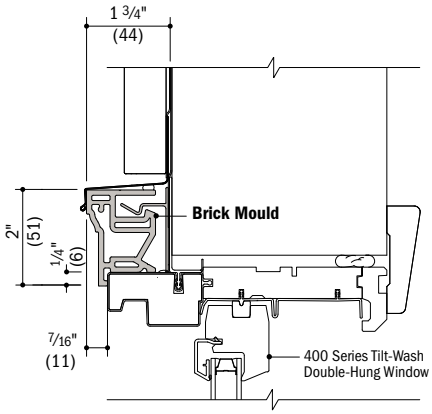
Screws provide tight fit.



For patio doors, end caps are used at the sill.

Trim Detail

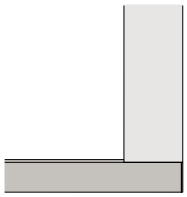
Scale 3" (76) = 1'-0" (305) — 1:4



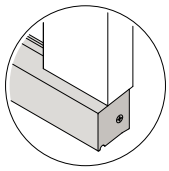
Vertical Section

400 Series Tilt-Wash Double-Hung Window with Brick Mould

Sill Nose

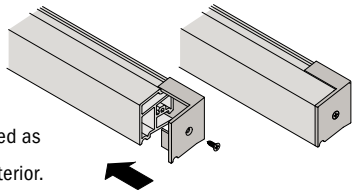


Sill nose and 3 ½" (89) flat casing with flush corner



Formula for dimension of window plus exterior trim:

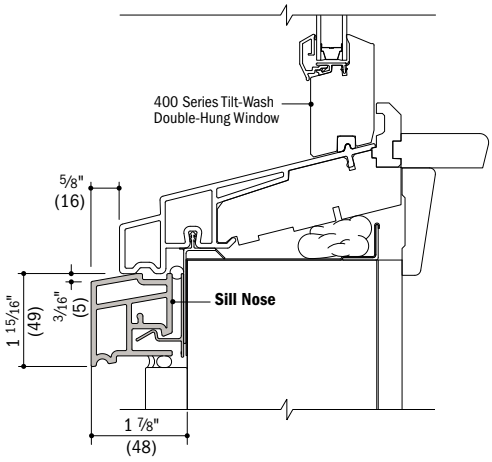
Add 1 15/16" (49) for sill nose



End caps are handed as viewed from the exterior.

Trim Detail

Scale 3" (76) = 1'-0" (305) — 1:4

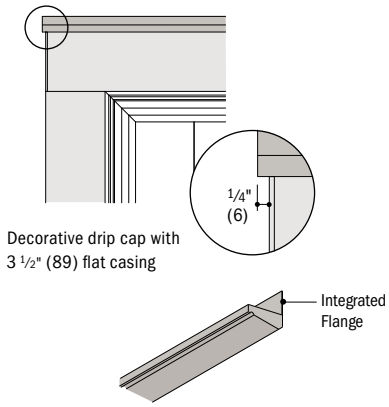


Vertical Section

400 Series Tilt-Wash Double-Hung Window with Sill Nose

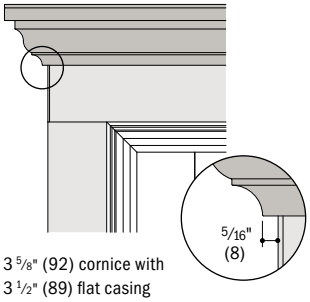
- Dimensions in parentheses are in millimeters.
- Typical trim combinations shown. Additional combinations may also be used. Some restrictions apply. For more information, contact your Andersen supplier.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.

Decorative Drip Cap

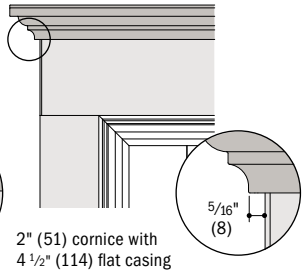


Decorative drip cap with
3 1/2" (89) flat casing

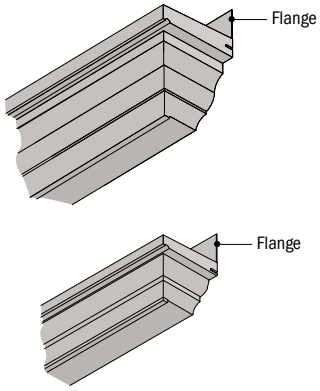
Cornices



3 5/8" (92) cornice with
3 1/2" (89) flat casing

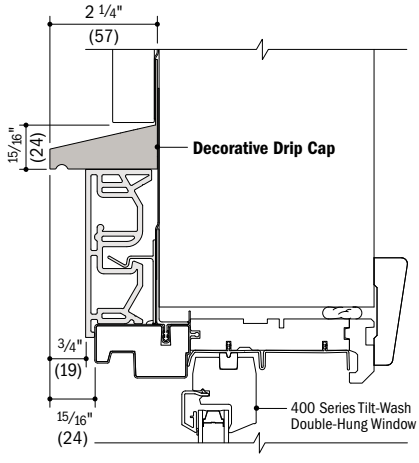


2" (51) cornice with
4 1/2" (114) flat casing



Trim Detail

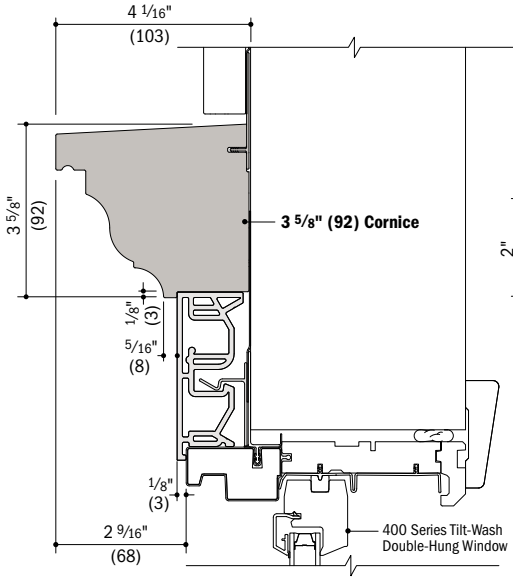
Scale 3" (76) = 1'-0" (305) – 1:4



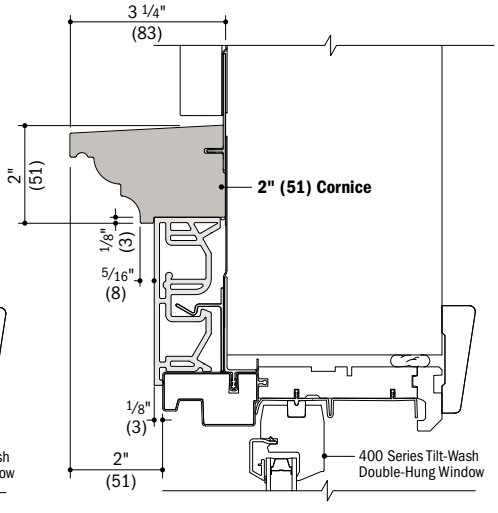
Vertical Section
400 Series Tilt-Wash Double-Hung Window
with 3 1/2" (89) Flat Casing and Decorative Drip Cap

Trim Details

Scale 3" (76) = 1'-0" (305) – 1:4



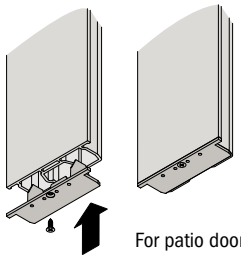
Vertical Section
400 Series Tilt-Wash Double-Hung Window
with 3 1/2" (89) Flat Casing and 3 5/8" (92) Cornice



Vertical Section
400 Series Tilt-Wash Double-Hung Window
with 3 1/2" (89) Flat Casing and 2" (51) Cornice

Mull Cover

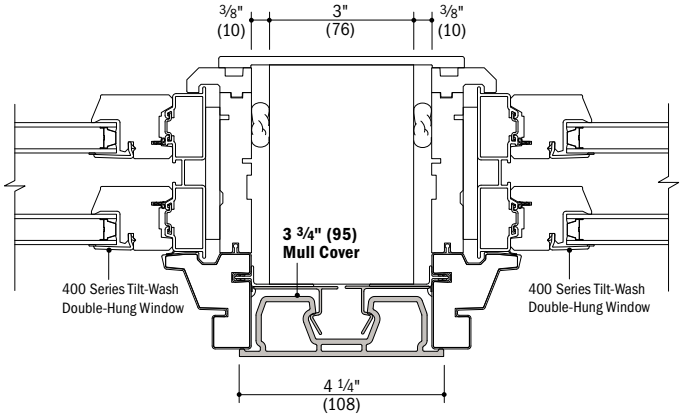
3 3/4" (95) mull cover is available for installations where windows or patio doors have been installed into separate rough openings to obtain a joined appearance.



For patio doors, end caps are used at the sill.

Separate Rough Openings Detail

Scale 3" (76) = 1'-0" (305) – 1:4



Horizontal Section
400 Series Tilt-Wash Double-Hung Windows and 3 3/4" (95) Mull Cover

- Dimensions in parentheses are in millimeters.
- Typical trim combinations shown. Additional combinations may also be used. Some restrictions apply. For more information, contact your Andersen supplier.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.

Andersen® window and patio doors make it easy to create a wide variety of combination designs

Combination Types

Ribbons

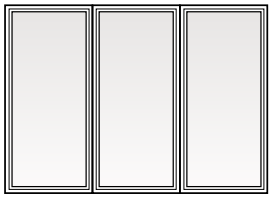
Ribbons are horizontal window combinations (vertical joins) where opposite ends (head and sill) of individual windows are fastened to the building structure.

Stacks

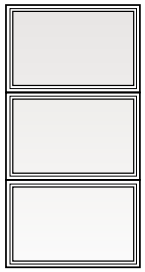
Stacks are vertical window combinations (horizontal joins) where opposite sides (both side jambs) of individual windows are fastened to the building structure.

Two basic configurations are used in combination designs: one-way or two-way.

One-Way

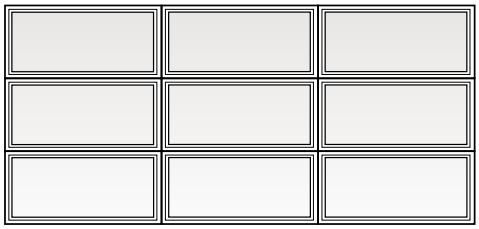


Ribbon Combination



Stack Combination

Two-Way



Multiple Ribbon/Stack Combination

Two-way combinations exist when multiple vertical stacks and horizontal ribbons are joined together. Unlike one-way combinations, the adjacent sides (head and sill, or both side jambs) of individual units are not necessarily fastened directly to the building structure. Two-way combinations are joined with both vertical and horizontal joining material, and may require reinforced joining materials and brackets depending on the local building code requirement for design wind load (measured in pounds per square foot, psf).

Determining Design Wind Load Performance

Proper combination design in conformance with local wind load requirements is vital to the success of your project. To make sure a combination is safe and that it complies with local building codes, the combination design wind load performance capacity must be determined.

Correctly determining this performance capacity involves the following three steps:

STEP 1

Determine Building Code Requirement

Make sure that you have the proper local codes and have identified specified compliance values. This calculated value (psf) will be used to determine if the combination will be acceptable (STEP 3).

STEP 2

Determine Product Performance

Compare product Design Pressure Rating data to the local building code (psf) requirement. This will show whether the individual units in a combination design are acceptable.

STEP 3

Determine Combination Performance

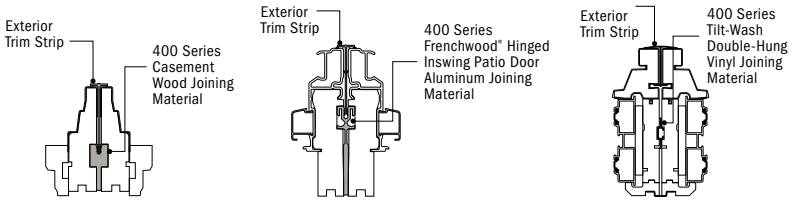
This step helps determine whether a given product, size, configuration and joining material type will meet the local building code design wind load requirement. To determine what joining material type to use (fiberglass, LVL, steel, aluminum or wood), compare the local building code design wind load requirement to the design wind load table value for a particular joining material on the following pages.

Andersen® Joining Materials and Installation Accessories

For a successful installation, designed to provide the required design pressure, it is important that Andersen joining materials and installation accessories be specified by a project architect or contractor. Andersen offers several types of joining materials. Each creates a joining system that maintains the look of Andersen products. Choose the type appropriate for your combination design. Components used with each joining system will vary depending on products being joined. Check with your Andersen supplier for more information. The addition of joining materials will affect the overall rough opening dimension, see page 210. **Instruction guides are available at andersenwindows.com. Read and follow instruction guides in their entirety.**

Andersen Exterior Trim Strips – A variety of trim strips for finishing the space between joined products are available in colors to match Andersen windows and doors.
Andersen Interior Wood Casing – Available in several wood types, pre-finished options, sizes and style options, including laminated arch casings, decorative plinths and key blocks.

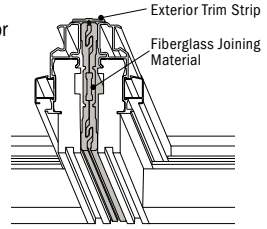
Materials vary depending on type of units being joined and wind load requirements. Non-reinforced joining materials are used to create alignment and positive joining between windows. Joining materials are not connected to the rough opening structure. Non-reinforced joins can also be achieved using accessory items such as V-notch gusset plates. Please contact your Andersen supplier for specific performance and product recommendations.

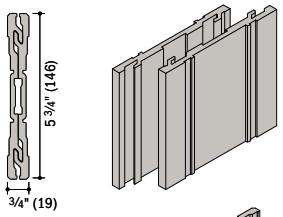


Reinforced joining materials are used to create product alignment, positive joining and load transfer between the Andersen windows and doors and the rough opening. They provide added strength capable of withstanding a variety of wind load pressures. The structural performance of any combination is only as high as the lowest structural performance rating of any individual window or joining material in the combination.

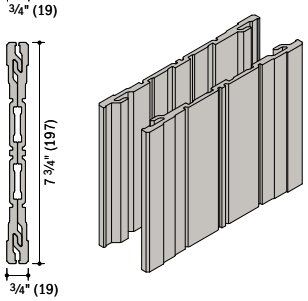
Fiberglass Joining Material

Fiberglass joining material is now available for 400 Series patio doors. The fiberglass joining material utilizes either 3/4" (19) x 5 3/4" (146) fiberglass interlocking joining plates for 4 9/16" (116) jamb depths or 3/4" (19) x 7 3/4" (197) fiberglass interlocking joining plates for higher performance for one-way and two-way joining, and is required for Frenchwood® hinged inswing patio doors with 6 9/16" (167) exterior extension jambs. Fiberglass reinforced joining kits are available for joining and installing patio door, sidelight and/or transom combinations at the job site. Extension jamb kits are also available. In some situations, joining material may prohibit the application of perimeter extension jambs. For more information, contact your Andersen supplier.





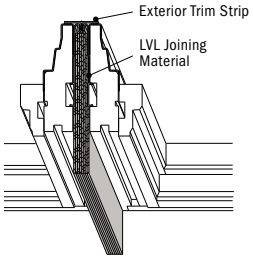
3/4" (19) x 5 3/4" (146)
Fiberglass Joining Material
For 4 9/16" (116) jamb depths.



3/4" (19) x 7 3/4" (197)
Fiberglass Joining Material
For higher performance for 1-way and 2-way joining. Required for Frenchwood® hinged inswing patio doors with 6 9/16" (167) base jamb depths.

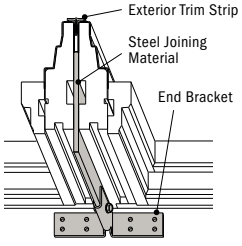
Laminated Veneer Lumber (LVL) Joining Material

Available in 3/4" (19) x 4 9/16" (116) and 3/4" (19) x 6 9/16" (167) sizes and includes an aluminum exterior trim strip retainer. Available in a variety of lengths up to 10' (3048). Use with casement, awning, double-hung and select specialty windows.



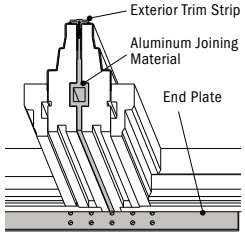
Steel Joining Material

Available in 8'-0 1/4" (2445), 9'-6" (2896) and 12'-6" (3810) lengths. Treated for corrosion resistance, a 4" (102) depth of material provides strength and rigidity. Adjacent windows attach to the steel joining material with screws. Use with casement, awning, double-hung, select specialty windows and patio doors.



Aluminum Joining Material

Available in 6'-0 3/32" (1831) and 7'-8" (2337) lengths. High-quality aluminum provides increased stiffness and is anodized for corrosion resistance. Aluminum joining material stays within the basic jamb of the window so interior casing can be used without extension jambs. Adjacent windows attach to the aluminum joining material with screws. Use with casement, awning, select specialty windows and patio doors.



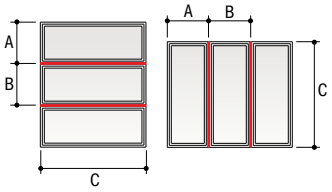
• Dimensions in parentheses are in millimeters.
• Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.

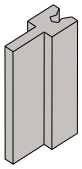
Casement and Awning Windows

1-Way Wood Joining

400 Series Casement, Awning, Complementary Specialty Joined with Flexiframe® Windows

Average Adjacent Window Dimension										
(A + B) ÷ 2 = **12'-6"** (3810)	70	58	40	29	22					
(A + B) ÷ 2 = **12'-0"** (3658)	70	58	40	29	22					
(A + B) ÷ 2 = **11'-6"** (3505)	70	58	40	29	22					
(A + B) ÷ 2 = **11'-0"** (3353)	70	58	40	29	22					
(A + B) ÷ 2 = **10'-6"** (3200)	70	58	40	29	22					
(A + B) ÷ 2 = **10'-0"** (3048)	70	58	40	29	22					
(A + B) ÷ 2 = **9'-6"** (2896)	70	58	40	29	22					
(A + B) ÷ 2 = **9'-0"** (2743)	70	58	40	29	22					
(A + B) ÷ 2 = **8'-6"** (2591)	70	58	40	29	22					
(A + B) ÷ 2 = **8'-0"** (2438)	70	58	40	29	22					
(A + B) ÷ 2 = **7'-6"** (2286)	70	58	40	29	22					
(A + B) ÷ 2 = **7'-0"** (2134)	70	58	40	29	22					
(A + B) ÷ 2 = **6'-6"** (1981)	70	58	40	29	22					
(A + B) ÷ 2 = **6'-0"** (1829)	70	58	40	29	22					
(A + B) ÷ 2 = **5'-6"** (1676)	70	58	40	29	22					
(A + B) ÷ 2 = **5'-0"** (1524)	70	58	40	29	22					
(A + B) ÷ 2 = **4'-6"** (1372)	70	58	40	30	23					
(A + B) ÷ 2 = **4'-0"** (1219)	70	58	41	31	24	20				
(A + B) ÷ 2 = **3'-6"** (1067)	70	59	43	33	27	22				
(A + B) ÷ 2 = **3'-0"** (914)	70	63	47	37	30	25	21			
(A + B) ÷ 2 = **2'-6"** (762)	70	70	54	43	35	29	24	21		
(A + B) ÷ 2 = **2'-0"** (610)	70	70	65	52	42	35	30	26	22	
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	68	56	46	39	34	29	26
C = (length of join)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)





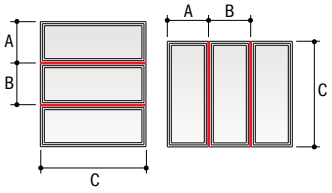
Wood Joining Material

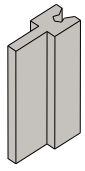
Note: Stacking of windows is allowed to a maximum height of 12'-6" (3810). Contact your Andersen supplier for information about taller combination heights.

1-Way Wood Joining

400 Series Casement, Awning and Complementary Specialty Windows

Average Adjacent Window Dimension										
(A + B) ÷ 2 = **12'-6"** (3810)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **12'-0"** (3658)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **11'-6"** (3505)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **11'-0"** (3353)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **10'-6"** (3200)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **10'-0"** (3048)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **9'-6"** (2896)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **9'-0"** (2743)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **8'-6"** (2591)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **8'-0"** (2438)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **7'-6"** (2286)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **7'-0"** (2134)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **6'-6"** (1981)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	58	42	32	24	20			
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	58	42	32	25	20			
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	58	42	32	25	21			
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	58	43	33	27	22			
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	59	45	35	29	24	20		
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	63	48	38	31	26	22		
(A + B) ÷ 2 = **3'-0"** (914)	70	70	68	54	43	36	30	25	22	
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	62	50	42	35	30	26	22
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	61	51	43	37	32	27
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	67	57	49	42	35
C = (length of join)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)





Wood Joining Material

Note: Stacking of windows is allowed to a maximum height of 12'-6" (3810). Contact your Andersen supplier for information about taller combination heights.

- Numerical values in charts represent structural pressure only.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

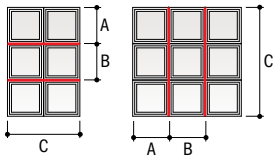
COMBINATION DESIGNS

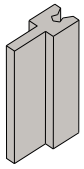
Casement and Awning Windows

2-Way Wood Joining

400 Series Casement, Awning, Complementary Specialty and Flexiframe® Windows

Average Adjacent Window Dimension	C = (length of join)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)
(A + B) ÷ 2 = **8'-6"** (2591)		20								
(A + B) ÷ 2 = **8'-0"** (2438)		21								
(A + B) ÷ 2 = **7'-6"** (2286)		23								
(A + B) ÷ 2 = **7'-0"** (2134)		24								
(A + B) ÷ 2 = **6'-6"** (1981)		26	20							
(A + B) ÷ 2 = **6'-0"** (1829)		28	22							
(A + B) ÷ 2 = **5'-6"** (1676)		31	24							
(A + B) ÷ 2 = **5'-0"** (1524)		34	26	20						
(A + B) ÷ 2 = **4'-6"** (1372)		38	29	23						
(A + B) ÷ 2 = **4'-0"** (1219)		43	33	26	21					
(A + B) ÷ 2 = **3'-6"** (1067)		49	37	29	24					
(A + B) ÷ 2 = **3'-0"** (914)		57	44	34	28	23				
(A + B) ÷ 2 = **2'-6"** (762)		69	52	41	33	27	23			
(A + B) ÷ 2 = **2'-0"** (610)		70	66	52	42	34	29	23		
(A + B) ÷ 2 = **1'-6"** (457)		70	70	69	56	46	39	31	24	20



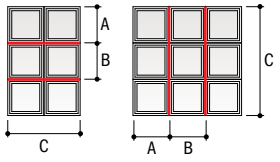


Wood Joining Material

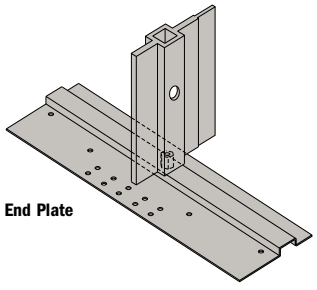
1-Way or 2-Way Aluminum Joining

400 Series Casement, Awning, Complementary Specialty and Flexiframe® Windows

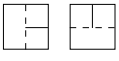
Average Adjacent Window Dimension	C = (length of join)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)
(A + B) ÷ 2 = **9'-0"** (2743)		70	56	41	31	23			
(A + B) ÷ 2 = **8'-6"** (2591)		70	60	43	32	25			
(A + B) ÷ 2 = **8'-0"** (2438)		70	63	46	34	26	21		
(A + B) ÷ 2 = **7'-6"** (2286)		70	67	49	36	28	22		
(A + B) ÷ 2 = **7'-0"** (2134)		70	70	52	39	30	23		
(A + B) ÷ 2 = **6'-6"** (1981)		70	70	56	42	32	25	20	
(A + B) ÷ 2 = **6'-0"** (1829)		70	70	60	45	35	27	21	
(A + B) ÷ 2 = **5'-6"** (1676)		70	70	66	49	38	29	23	
(A + B) ÷ 2 = **5'-0"** (1524)		70	70	70	54	41	32	26	21
(A + B) ÷ 2 = **4'-6"** (1372)		70	70	70	59	45	35	28	23
(A + B) ÷ 2 = **4'-0"** (1219)		70	70	70	66	50	39	31	25
(A + B) ÷ 2 = **3'-6"** (1067)		70	70	70	70	57	44	35	28
(A + B) ÷ 2 = **3'-0"** (914)		70	70	70	70	65	51	40	33
(A + B) ÷ 2 = **2'-6"** (762)		70	70	70	70	70	60	48	39
(A + B) ÷ 2 = **2'-0"** (610)		70	70	70	70	70	70	59	48
(A + B) ÷ 2 = **1'-6"** (457)		70	70	70	70	70	70	70	63



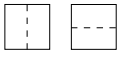
Aluminum Joining Material



End Plate



For a join with a continuous jamb on one side, multiply psf by 1.2.



For a join with a continuous jamb on both sides, multiply psf by 1.4.

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- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

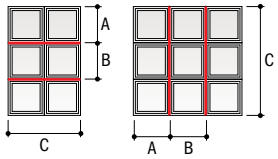
Casement and Awning Windows

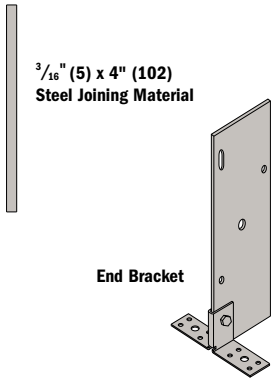
1-Way or 2-Way Steel Joining

400 Series Casement, Awning, Complementary Specialty and Flexiframe® Windows

Average Adjacent Window Dimension

(A + B) ÷ 2 =	C = (length of join)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)	9'-0" (2743)	9'-6" (2896)	10'-0" (3048)	10'-6" (3200)	11'-0" (3353)	11'-6" (3505)	12'-0" (3658)	12'-6" (3810)
(A + B) ÷ 2 = **12'-6"** (3810)		50	37	28	22																
(A + B) ÷ 2 = **12'-0"** (3658)		52	38	29	23																
(A + B) ÷ 2 = **11'-6"** (3505)		54	40	30	24																
(A + B) ÷ 2 = **11'-0"** (3353)		57	42	32	25	20															
(A + B) ÷ 2 = **10'-6"** (3200)		59	44	33	26	21															
(A + B) ÷ 2 = **10'-0"** (3048)		62	46	35	28	22															
(A + B) ÷ 2 = **9'-6"** (2896)		66	48	37	29	24															
(A + B) ÷ 2 = **9'-0"** (2743)		69	51	39	31	25	21														
(A + B) ÷ 2 = **8'-6"** (2591)		70	54	41	33	26	22														
(A + B) ÷ 2 = **8'-0"** (2438)		70	57	44	35	28	23														
(A + B) ÷ 2 = **7'-6"** (2286)		70	61	47	37	30	25	21													
(A + B) ÷ 2 = **7'-0"** (2134)		70	66	50	40	32	26	22													
(A + B) ÷ 2 = **6'-6"** (1981)		70	70	54	43	34	28	24	20												
(A + B) ÷ 2 = **6'-0"** (1829)		70	70	58	46	37	31	26	22												
(A + B) ÷ 2 = **5'-6"** (1676)		70	70	64	50	41	34	28	24	21											
(A + B) ÷ 2 = **5'-0"** (1524)		70	70	70	55	45	37	31	27	23	20										
(A + B) ÷ 2 = **4'-6"** (1372)		70	70	70	62	50	41	35	30	26	22										
(A + B) ÷ 2 = **4'-0"** (1219)		70	70	70	69	56	46	39	33	29	25	22									
(A + B) ÷ 2 = **3'-6"** (1067)		70	70	70	70	64	53	45	38	33	28	25	22								
(A + B) ÷ 2 = **3'-0"** (914)		70	70	70	70	70	62	52	44	38	33	29	26	23	21						
(A + B) ÷ 2 = **2'-6"** (762)		70	70	70	70	70	70	62	53	46	40	35	31	28	25	22	20				
(A + B) ÷ 2 = **2'-0"** (610)		70	70	70	70	70	70	70	66	57	50	44	39	35	31	28	26	23	21		
(A + B) ÷ 2 = **1'-6"** (457)		70	70	70	70	70	70	70	70	70	66	58	52	46	42	37	34	31	28	25	24





For a join with a continuous jamb on one side, multiply psf by 1.2.

For a join with a continuous jamb on both sides, multiply psf by 1.4.

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- Dimensions in parentheses are in millimeters.

COMBINATION DESIGNS

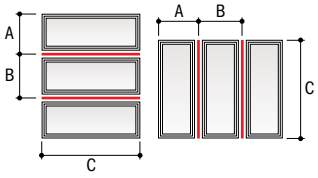
Casement and Awning Windows

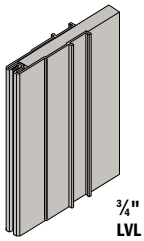
1-Way LVL Joining

400 Series Casement, Awning, Complementary Specialty and Flexiframe® Windows

4 9/16" (116) Minimum Wall Depth

Average Adjacent Window Dim.								
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	56	45				
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	61	50				
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	68	55	45	36		
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	70	61	51	43	37	
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	70	58	49	42	35
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	68	56	49	39
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	70	63	53	45
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	70	62	53
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	70	70	62	53
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	70	62	53
C = (length of join)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-0"** (1981)	**7'-0"** (2134)





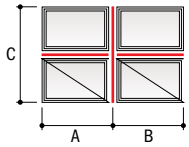
¾" (19) x 5 ¾" (146) LVL Joining Material
For 4 9/16" (116) base jamb depths.

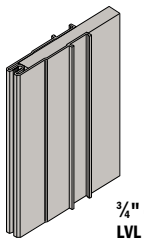
2-Way LVL Joining

400 Series Casement, Awning, Complementary Specialty and Flexiframe® Windows

4 9/16" (116) Minimum Wall Depth

Average Adjacent Window Dim.								
(A + B) ÷ 2 = **6'-0"** (1829)	65	65	51	41				
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	56	45				
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	62	50	41	34		
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	68	55	46	38	33	
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	62	51	43	37	32
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	59	49	42	36
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	69	58	49	42
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	69	59	51
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	61	69	59	51
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	61	69	59	51
C = (length of join)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-0"** (1981)	**7'-0"** (2134)

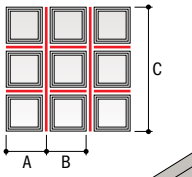


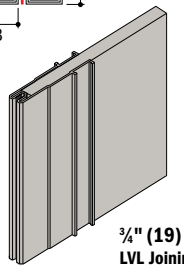


¾" (19) x 5 ¾" (146) LVL Joining Material
For 4 9/16" (116) base jamb depths.

6 9/16" (167) Minimum Wall Depth

Average Adjacent Window Dimension									
(A + B) ÷ 2 = **10'-0"** (3048)	70	70	63	56	48	44	37	31	24
(A + B) ÷ 2 = **9'-6"** (2896)	70	70	63	56	48	44	37	31	24
(A + B) ÷ 2 = **9'-0"** (2743)	70	70	63	56	48	44	37	31	24
(A + B) ÷ 2 = **8'-6"** (2591)	70	70	63	56	48	44	37	31	25
(A + B) ÷ 2 = **8'-0"** (2438)	70	70	63	56	48	44	37	31	25
(A + B) ÷ 2 = **7'-6"** (2286)	70	70	63	56	48	44	38	32	26
(A + B) ÷ 2 = **7'-0"** (2134)	70	70	63	56	49	45	39	33	26
(A + B) ÷ 2 = **6'-6"** (1981)	70	70	63	57	50	46	40	34	28
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	64	58	51	47	41	35	29
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	66	60	54	50	44	37	30
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	68	63	56	52	46	39	32
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	70	67	60	56	50	43	35
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	70	64	60	53	46	38
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	70	67	60	52	42
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	70	70	66	57	47
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	70	70	68	56
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	70	70	70	70	66
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	70	70	70	70
C = (length of join)	**6'-0"** (1829) **or less**	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)	**8'-6"** (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)





¾" (19) x 7 ¾" (197) LVL Joining Material
For 6 9/16" (167) base jamb depths.

Note: 2-way joining must be assembled on the job site within the rough opening.

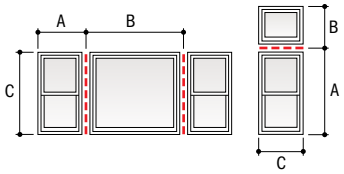
- Numerical values in charts represent structural pressure only.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Double-Hung Insert Windows

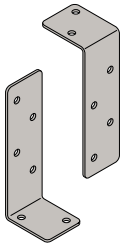
1-Way Joining with Joining Brackets

400 Series Woodwright® Double-Hung, Picture and Transom Insert Windows, and Tilt-Wash Double-Hung, Picture and Transom Insert Windows

Average Adjacent Window Dimension										
(A + B) ÷ 2 = **12'-0"** (3658)	50	34	24	18						
(A + B) ÷ 2 = **11'-0"** (3353)	50	34	24	18						
(A + B) ÷ 2 = **10'-0"** (3048)	50	34	24	18						
(A + B) ÷ 2 = **9'-0"** (2743)	50	34	24	18						
(A + B) ÷ 2 = **8'-0"** (2438)	50	34	25	19	15					
(A + B) ÷ 2 = **7'-0"** (2134)	50	35	26	20	16					
(A + B) ÷ 2 = **6'-0"** (1829)	50	38	28	22	18	15				
(A + B) ÷ 2 = **5'-0"** (1524)	50	42	32	26	21	17				
(A + B) ÷ 2 = **4'-0"** (1219)	50	50	39	31	25	21	17			
(A + B) ÷ 2 = **3'-0"** (914)	50	50	50	40	33	28	23	18	15	
(A + B) ÷ 2 = **2'-0"** (610)	50	50	50	50	49	41	34	27	22	
C = (length of join)	**3'-6"** (1067) **or less**	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	



Note: Only 1-way combinations similar to those shown above are allowed.



Joining Brackets

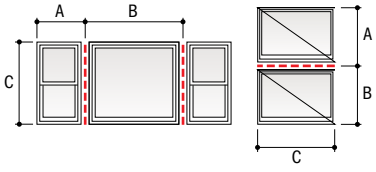
Joining brackets are used at the ends of each join to attach units to the opening.

Double-Hung Full-Frame Windows

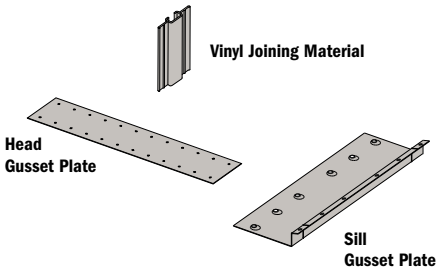
1-Way Vinyl Joining

400 Series Woodwright® Double-Hung, Picture and Transom Full-Frame Windows, and Tilt-Wash Double-Hung, Picture and Transom Full-Frame Windows

Average Adjacent Window Dimension																				
(A + B) ÷ 2 = **12'-6"** (3810)	50	42	33	28	23	20														
(A + B) ÷ 2 = **12'-0"** (3658)	50	42	33	28	23	20														
(A + B) ÷ 2 = **11'-6"** (3505)	50	42	33	28	23	20														
(A + B) ÷ 2 = **11'-0"** (3353)	50	42	33	28	23	20														
(A + B) ÷ 2 = **10'-6"** (3200)	50	42	33	28	23	20														
(A + B) ÷ 2 = **10'-0"** (3048)	50	42	33	28	23	20														
(A + B) ÷ 2 = **9'-6"** (2896)	50	42	33	28	23	20														
(A + B) ÷ 2 = **9'-0"** (2743)	50	42	33	28	23	20														
(A + B) ÷ 2 = **8'-6"** (2591)	50	42	33	28	23	20														
(A + B) ÷ 2 = **8'-0"** (2438)	50	42	33	28	23	20														
(A + B) ÷ 2 = **7'-6"** (2286)	50	42	33	28	23	20														
(A + B) ÷ 2 = **7'-0"** (2134)	50	42	33	28	23	20														
(A + B) ÷ 2 = **6'-6"** (1981)	50	42	33	28	23	20														
(A + B) ÷ 2 = **6'-0"** (1829)	50	42	33	28	23	20														
(A + B) ÷ 2 = **5'-6"** (1676)	50	42	33	28	23	21														
(A + B) ÷ 2 = **5'-0"** (1524)	50	42	33	28	24	21														
(A + B) ÷ 2 = **4'-6"** (1372)	50	42	33	29	25	22	20													
(A + B) ÷ 2 = **4'-0"** (1219)	50	42	34	30	26	23	21													
(A + B) ÷ 2 = **3'-6"** (1067)	50	44	37	32	28	26	23	21												
(A + B) ÷ 2 = **3'-0"** (914)	50	47	39	35	30	28	25	23	21	20										
(A + B) ÷ 2 = **2'-6"** (762)	50	50	44	40	35	32	29	27	25	24	22	21								
(A + B) ÷ 2 = **2'-0"** (610)	50	50	50	46	41	37	34	32	29	27	25	24	23	22	20	20				
(A + B) ÷ 2 = **1'-6"** (457)	50	50	50	50	50	49	45	42	39	37	34	32	30	29	27	26	25	24		
C = (length of join)	**4'-0"** (1219) **or less**	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)	**8'-6"** (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)	**10'-6"** (3200)	**11'-0"** (3353)	**11'-6"** (3505)	**12'-0"** (3658)	**12'-6"** (3810)		



Note: Only 1-way combinations similar to those shown above are allowed.



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- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

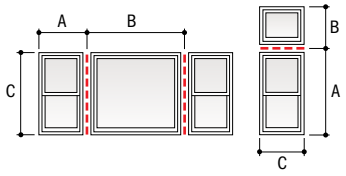
Double-Hung Full-Frame Windows

1-Way Vinyl Joining with V-Notch Gusset Plates

400 Series Woodwright® Double-Hung, Picture and Transom Full-Frame Windows, and Tilt-Wash Double-Hung, Picture and Transom Full-Frame Windows

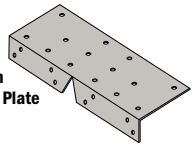
Average Adjacent Window Dimension

(A + B) ÷ 2 =	C = (length of join)	4'-6" (1372) or less	5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)	9'-0" (2743)	9'-6" (2896)	10'-0" (3048)	10'-6" (3200)	11'-0" (3353)	11'-6" (3505)	12'-0" (3658)	12'-6" (3810)
(A + B) ÷ 2 = **12'-6"** (3810)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **12'-0"** (3658)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **11'-6"** (3505)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **11'-0"** (3353)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **10'-6"** (3200)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **10'-0"** (3048)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **9'-6"** (2896)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **9'-0"** (2743)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **8'-6"** (2591)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **8'-0"** (2438)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **7'-6"** (2286)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **7'-0"** (2134)		50	48	41	33	29	24	22										
(A + B) ÷ 2 = **6'-6"** (1981)		50	48	41	33	29	25	22										
(A + B) ÷ 2 = **6'-0"** (1829)		50	48	41	33	29	25	23	20									
(A + B) ÷ 2 = **5'-6"** (1676)		50	48	41	33	30	26	24	21									
(A + B) ÷ 2 = **5'-0"** (1524)		50	48	41	34	31	27	24	22	20								
(A + B) ÷ 2 = **4'-6"** (1372)		50	48	42	36	32	28	26	23	22								
(A + B) ÷ 2 = **4'-0"** (1219)		50	49	43	37	34	30	28	25	23	21							
(A + B) ÷ 2 = **3'-6"** (1067)		50	50	47	40	37	33	31	28	26	24	23	20					
(A + B) ÷ 2 = **3'-0"** (914)		50	50	50	44	40	36	33	30	29	26	25	22	20				
(A + B) ÷ 2 = **2'-6"** (762)		50	50	50	50	47	42	39	36	34	31	30	26	24	21	20		
(A + B) ÷ 2 = **2'-0"** (610)		50	50	50	50	50	49	46	42	40	37	35	31	31	27	25	22	
(A + B) ÷ 2 = **1'-6"** (457)		50	50	50	50	50	50	50	50	50	49	47	44	41	37	34	30	26



Note: Only 1-way combinations similar to those shown above are allowed.

Vinyl Joining Material



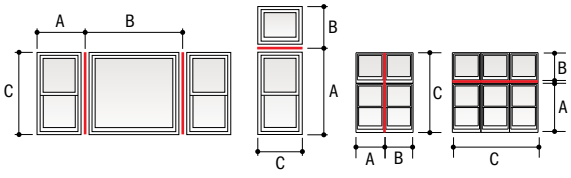
V-Notch Gusset Plate

1-Way or 2-Way Steel Joining with V-Notch Gusset Plates

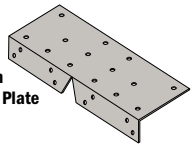
400 Series Woodwright® Double-Hung, Picture and Transom Full-Frame Windows, and Tilt-Wash Double-Hung, Picture and Transom Full-Frame Windows

Average Adjacent Window Dimension

(A + B) ÷ 2 =	C = (length of join)	5'-6" (1676) or less	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)	9'-0" (2743)	9'-6" (2896)	10'-0" (3048)	10'-6" (3200)	11'-0" (3353)	11'-6" (3505)	12'-0" (3658)	12'-6" (3810)
(A + B) ÷ 2 = **7'-6"** (2286)		50	40	35	30	27	23	21								
(A + B) ÷ 2 = **7'-0"** (2134)		50	40	35	30	27	23	21								
(A + B) ÷ 2 = **6'-6"** (1981)		50	40	35	30	27	24	22	20							
(A + B) ÷ 2 = **6'-0"** (1829)		50	40	36	30	28	24	23	20							
(A + B) ÷ 2 = **5'-6"** (1676)		50	41	36	31	29	26	24	21	20						
(A + B) ÷ 2 = **5'-0"** (1524)		50	42	37	32	30	27	25	22	21						
(A + B) ÷ 2 = **4'-6"** (1372)		50	43	39	34	32	28	27	24	23	21					
(A + B) ÷ 2 = **4'-0"** (1219)		50	45	41	36	34	30	28	26	25	22	21				
(A + B) ÷ 2 = **3'-6"** (1067)		50	50	45	40	37	34	32	29	28	26	24	20			
(A + B) ÷ 2 = **3'-0"** (914)		50	50	50	44	41	37	35	32	30	28	26	22			
(A + B) ÷ 2 = **2'-6"** (762)		50	50	50	50	48	44	41	38	36	34	31	26	23		
(A + B) ÷ 2 = **2'-0"** (610)		50	50	50	50	50	50	48	44	41	38	36	34	30	24	21



$^{3}/_{16}$" (5) x 4" (102) Steel Joining Material



V-Notch Gusset Plate

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- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

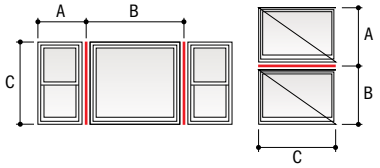
Double-Hung Full-Frame Windows

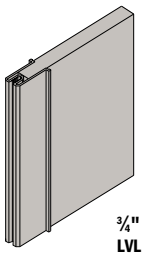
1-Way LVL Joining

400 Series Woodwright® Double-Hung, Picture and Transom Full-Frame Windows,
Tilt-Wash Double-Hung, Picture and Transom Full-Frame Windows, and Flexiframe® Windows

4 9/16" (116) Minimum Wall Depth

Average Adjacent Window Dimension							
(A + B) ÷ 2 = **6'-0"** (1829)	50	50	50	50	40	32
(A + B) ÷ 2 = **5'-6"** (1676)	50	50	50	50	42	33
(A + B) ÷ 2 = **5'-0"** (1524)	50	50	50	50	43	35
(A + B) ÷ 2 = **4'-6"** (1372)	50	50	50	50	46	38
(A + B) ÷ 2 = **4'-0"** (1219)	50	50	50	50	49	39
(A + B) ÷ 2 = **3'-6"** (1067)	50	50	50	50	50	44
(A + B) ÷ 2 = **3'-0"** (914)	50	50	50	50	50	48
(A + B) ÷ 2 = **2'-6"** (762)	50	50	50	50	50	50
(A + B) ÷ 2 = **2'-0"** (610)	50	50	50	50	50	50
(A + B) ÷ 2 = **1'-6"** (457)	50	50	50	50	50	50
(A + B) ÷ 2 = **1'-0"** (305)	50	50	50	50	50	50
C = (length of join)	**5'-6"** (1676) **or less**	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)





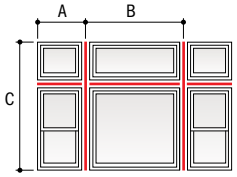
¾" (19) x 5 ¾" (146) LVL Joining Material
For 4 9/16" (116) base jamb depths.

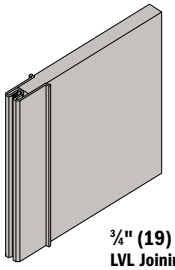
2-Way LVL Joining

400 Series Woodwright® Double-Hung, Picture and Transom Full-Frame Windows,
Tilt-Wash Double-Hung, Picture and Transom Full-Frame Windows, and Flexiframe® Windows

6 9/16" (167) Minimum Wall Depth

Average Adjacent Window Dimension									
(A + B) ÷ 2 = **10'-0"** (3048)	50	50	50	50	48	44	37	31	24
(A + B) ÷ 2 = **9'-6"** (2896)	50	50	50	50	48	44	37	31	24
(A + B) ÷ 2 = **9'-0"** (2743)	50	50	50	50	48	44	37	31	24
(A + B) ÷ 2 = **8'-6"** (2591)	50	50	50	50	48	44	37	31	25
(A + B) ÷ 2 = **8'-0"** (2438)	50	50	50	50	48	44	37	31	25
(A + B) ÷ 2 = **7'-6"** (2286)	50	50	50	50	48	44	38	32	26
(A + B) ÷ 2 = **7'-0"** (2134)	50	50	50	50	49	45	39	33	26
(A + B) ÷ 2 = **6'-6"** (1981)	50	50	50	50	50	46	40	34	28
(A + B) ÷ 2 = **6'-0"** (1829)	50	50	50	50	50	47	41	35	29
(A + B) ÷ 2 = **5'-6"** (1676)	50	50	50	50	50	50	44	37	30
(A + B) ÷ 2 = **5'-0"** (1524)	50	50	50	50	50	50	46	39	32
(A + B) ÷ 2 = **4'-6"** (1372)	50	50	50	50	50	50	50	43	35
(A + B) ÷ 2 = **4'-0"** (1219)	50	50	50	50	50	50	50	46	38
(A + B) ÷ 2 = **3'-6"** (1067)	50	50	50	50	50	50	50	50	42
(A + B) ÷ 2 = **3'-0"** (914)	50	50	50	50	50	50	50	50	47
(A + B) ÷ 2 = **2'-6"** (762)	50	50	50	50	50	50	50	50	50
(A + B) ÷ 2 = **2'-0"** (610)	50	50	50	50	50	50	50	50	50
(A + B) ÷ 2 = **1'-6"** (457)	50	50	50	50	50	50	50	50	50
C = (length of join)	**6'-0"** (1829) **or less**	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)	**8'-6"** (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)





¾" (19) x 7 ¾" (197) LVL Joining Material
For 6 9/16" (167) base jamb depths.

Note: 2-way joining must be assembled on the job site within the rough opening. When creating 2-way combinations for 6 9/16" (167) minimum wall thickness, 6 9/16" (167) LVL joining material is required.

- Numerical values in charts represent structural pressure only.
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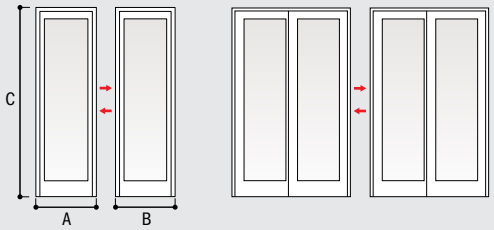
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

COMBINATION DESIGNS

Gliding Patio Doors

1-Way Jamb-to-Jamb Joining

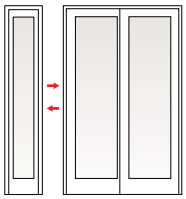
400 Series Stationary and Two-Panel Frenchwood® Gliding Patio Doors



Maximum design pressure 20 psf

1-Way Jamb-to-Jamb Vertical (Ribbon) Joining

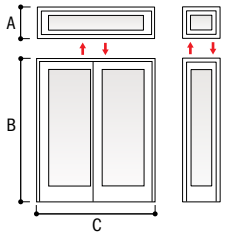
400 Series Stationary and Two-Panel Frenchwood® Gliding Patio Doors, and Frenchwood Patio Door Sidelights



Average Adjacent Door Dimension										
(A + B) ÷ 2 = **8'-0"** (2438)	65	65	65	65	61	51	44	37	33	29
(A + B) ÷ 2 = **7'-6"** (2286)	65	65	65	65	61	51	44	37	33	29
(A + B) ÷ 2 = **7'-0"** (2134)	65	65	65	65	61	51	44	37	33	29
(A + B) ÷ 2 = **6'-6"** (1981)	65	65	65	65	61	51	44	38	33	30
(A + B) ÷ 2 = **6'-0"** (1829)	65	65	65	65	61	51	44	38	34	31
(A + B) ÷ 2 = **5'-6"** (1676)	65	65	65	65	61	52	45	39	35	32
(A + B) ÷ 2 = **5'-0"** (1524)	65	65	65	65	62	53	46	41	37	33
(A + B) ÷ 2 = **4'-6"** (1372)	65	65	65	65	63	55	48	43	39	35
(A + B) ÷ 2 = **4'-0"** (1219)	65	65	65	65	65	58	51	46	42	38
(A + B) ÷ 2 = **3'-6"** (1067)	65	65	65	65	65	62	55	50	46	42
(A + B) ÷ 2 = **3'-0"** (914)	65	65	65	65	65	65	62	56	51	47
(A + B) ÷ 2 = **2'-6"** (762)	65	65	65	65	65	65	65	64	59	55
(A + B) ÷ 2 = **2'-0"** (610)	65	65	65	65	65	65	65	65	65	65
(A + B) ÷ 2 = **1'-6"** (457)	65	65	65	65	65	65	65	65	65	65
C = (length of join)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)

1-Way Jamb-to-Jamb Horizontal (Stacked) Joining

400 Series Stationary and Two-Panel Frenchwood® Gliding Patio Doors, and Frenchwood Patio Door Transoms



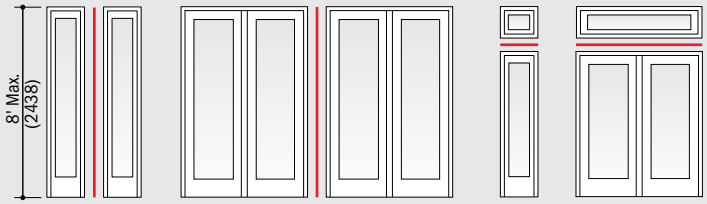
Average Adjacent Door Dimension										
(A + B) ÷ 2 = **12'-6"** (3810)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **12'-0"** (3658)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **11'-6"** (3505)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **11'-0"** (3353)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **10'-6"** (3200)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **10'-0"** (3048)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **9'-6"** (2896)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **9'-0"** (2743)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **8'-6"** (2591)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **8'-0"** (2438)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **7'-6"** (2286)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **7'-0"** (2134)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **6'-6"** (1981)	65	65	65	65	52	40	31	25		
(A + B) ÷ 2 = **6'-0"** (1829)	65	65	65	65	52	40	32	25	20	
(A + B) ÷ 2 = **5'-6"** (1676)	65	65	65	65	52	40	32	26	20	
(A + B) ÷ 2 = **5'-0"** (1524)	65	65	65	65	53	41	34	28	22	
(A + B) ÷ 2 = **4'-6"** (1372)	65	65	65	65	54	44	36	29	23	
(A + B) ÷ 2 = **4'-0"** (1219)	65	65	65	65	58	47	39	32	25	21
(A + B) ÷ 2 = **3'-6"** (1067)	65	65	65	65	63	51	43	35	28	23
(A + B) ÷ 2 = **3'-0"** (914)	65	65	65	65	65	58	49	40	32	26
(A + B) ÷ 2 = **2'-6"** (762)	65	65	65	65	65	65	57	47	38	31
(A + B) ÷ 2 = **2'-0"** (610)	65	65	65	65	65	65	65	58	47	38
(A + B) ÷ 2 = **1'-6"** (457)	65	65	65	65	65	65	65	65	62	51
C = (length of join)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)

- Numerical values in charts represent structural pressure only.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Hinged Patio Doors

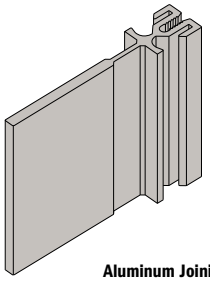
1-Way Aluminum Joining

400 Series Frenchwood® Hinged Inswing Patio Doors, and Frenchwood Patio Doors Sidelights and Transoms



Maximum design pressure 25 psf

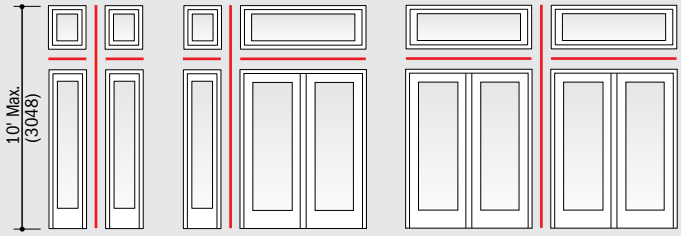
Note: When joining hinged inswing patio doors, do not join hinge jamb to hinge jamb.



Aluminum Joining Material

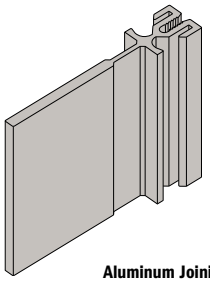
2-Way Aluminum Joining

400 Series Frenchwood® Hinged Inswing Patio Doors, and Frenchwood Patio Door Sidelights and Transoms



Maximum design pressure 20 psf

Note: When joining hinged inswing patio doors, do not join hinge jamb to hinge jamb.



Aluminum Joining Material

- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

1-Way Fiberglass Joining

400 Series Frenchwood® Gliding, Frenchwood Hinged Inswing Patio Doors, and Frenchwood Patio Door Sidelights and Transoms

4 9/16" (116) Minimum Wall Depth

Average Adjacent Window Dimension													
(A + B) ÷ 2 = **12'-0"** (3658)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **11'-6"** (3505)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **11'-0"** (3353)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **10'-6"** (3200)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **10'-0"** (3048)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **9'-6"** (2896)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **9'-0"** (2743)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **8'-6"** (2591)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **8'-0"** (2438)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **7'-6"** (2286)	70	70	70	70	70	70	70	70	70	70	70	70	67
(A + B) ÷ 2 = **7'-0"** (2134)	70	70	70	70	70	70	70	70	70	70	70	70	68
(A + B) ÷ 2 = **6'-6"** (1981)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	70	70	70	70	70	70	70	70
C = (length of join)	**2'-0"** (610)	**2'-6"** (762)	**3'-0"** (914)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)

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1-Way Fiberglass Joining

400 Series Frenchwood® Gliding, Frenchwood Hinged Inswing Patio Doors, and Frenchwood Patio Door Sidelights and Transoms

6 9/16" (167) Minimum Wall Depth

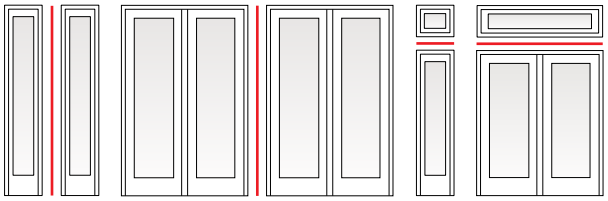
Average Adjacent Window Dimension													
(A + B) ÷ 2 = **12'-0"** (3658)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **11'-6"** (3505)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **11'-0"** (3048)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **10'-6"** (3200)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **10'-0"** (3048)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **9'-6"** (2896)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **9'-0"** (2743)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **8'-6"** (2591)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **8'-0"** (2438)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **7'-6"** (2286)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **7'-0"** (2134)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **6'-6"** (1981)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	70	70	70	70	70	70	70	70
C = (length of join)	**2'-0"** (610)	**2'-6"** (762)	**3'-0"** (914)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)

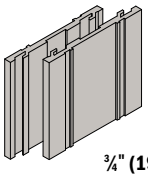
continued on next page

- Numeric value represents the certified Performance Grade (PG) rating of the combination.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Frenchwood® hinged inswing patio doors with a 6 9/16" (167) or greater exterior extension jamb depth require 7 3/4" (197) fiberglass joining material.
- Dimensions in parentheses are in millimeters.

1-Way Fiberglass Joining continued from previous page

52	42	33	27	22			
52	42	33	27	22			
52	42	33	27	22			
52	42	33	27	22			
52	42	33	27	22			
52	42	33	27	23			
52	42	34	27	23			
52	42	34	28	23	20		
53	42	35	29	24	20		
53	43	35	29	25	21		
55	44	37	31	26	22		
56	46	38	32	27	2	20	
59	48	40	34	29	25	21	
62	51	43	36	31	26	23	20
66	55	46	39	33	28	25	21
70	59	50	42	36	31	27	24
70	65	55	47	40	35	30	26
70	70	62	53	45	39	34	30
70	70	70	61	52	45	39	34
70	70	70	70	62	54	47	41
70	70	70	70	70	67	58	51
70	70	70	70	70	70	70	68
8'-6" (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)	**10'-6"** (3200)	**11'-0"** (3353)	**11'-6"** (3505)	**12'-0"** (3658)



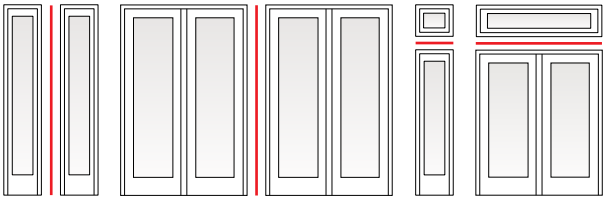


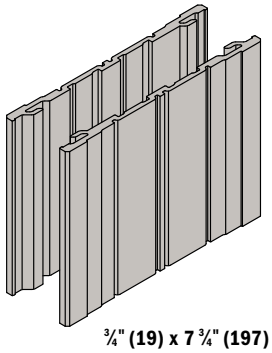
¾" (19) x 5 ¾" (146)
Fiberglass Joining Material
For 4 9/16" (116) base jamb depths.

Note: When joining hinged inswing patio doors, do not join hinge jamb to hinge jamb.

1-Way Fiberglass Joining continued from previous page

70	70	66	58	47	39	33	28	23	20	
70	70	66	58	47	39	33	28	24	20	
70	70	66	58	47	39	33	28	24	21	
70	70	66	58	47	39	33	28	24	21	
70	70	66	58	48	40	34	29	25	21	
70	70	66	58	48	40	34	29	25	22	
70	70	66	59	49	41	35	30	26	23	20
70	70	67	59	50	42	36	31	27	23	21
70	70	68	61	51	43	37	32	28	24	21
70	70	69	63	53	45	39	33	29	25	22	20
70	70	70	65	55	47	40	35	31	27	24	21
70	70	70	68	58	49	43	37	32	28	25	22
70	70	70	70	61	52	45	39	34	30	27	24
70	70	70	70	65	56	48	42	37	33	29	26
70	70	70	70	70	60	52	46	40	36	32	28
70	70	70	70	70	66	57	50	44	39	35	31
70	70	70	70	70	70	64	56	49	44	39	35
70	70	70	70	70	70	70	63	56	49	44	39
70	70	70	70	70	70	70	70	65	57	51	46
70	70	70	70	70	70	70	70	70	68	61	54
70	70	70	70	70	70	70	70	70	70	70	68
70	70	70	70	70	70	70	70	70	70	70	70
8'-6" (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)	**10'-6"** (3200)	**11'-0"** (3353)	**11'-6"** (3505)	**12'-0"** (3658)	**12'-6"** (3810)	**13'-0"** (3962)	**13'-6"** (4114)	**14'-0"** (4267)





¾" (19) x 7 ¾" (197)
Fiberglass Joining Material
For higher performance for 1-way and 2-way joining. Required for Frenchwood® hinged inswing patio doors with 6 9/16" (167) or greater exterior extension jamb depths.

Note: When joining hinged inswing patio doors, do not join hinge jamb to hinge jamb.

- Numeric value represents the certified Performance Grade (PG) rating of the combination.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Frenchwood® hinged inswing patio doors with a 6 9/16" (167) or greater exterior extension jamb depth require 7 ¾" (197) fiberglass joining material.
- Dimensions in parentheses are in millimeters.

2-Way Fiberglass Joining

400 Series Frenchwood® Gliding, Frenchwood Hinged Inswing Patio Doors, and Frenchwood Patio Door Sidelights and Transoms

4 9/16" (116) Minimum Wall Depth

Average Adjacent Window Dimension													
(A + B) ÷ 2 = **12'-0"** (3658)	70	70	70	70	62	55	50	45	41	38	35	31	25
(A + B) ÷ 2 = **11'-6"** (3505)	70	70	70	70	65	58	52	47	43	40	37	32	27
(A + B) ÷ 2 = **11'-0"** (3353)	70	70	70	70	68	60	54	49	45	42	39	34	28
(A + B) ÷ 2 = **10'-6"** (3200)	70	70	70	70	70	63	57	51	47	44	40	35	29
(A + B) ÷ 2 = **10'-0"** (3048)	70	70	70	70	70	66	60	54	50	46	42	37	31
(A + B) ÷ 2 = **9'-6"** (2896)	70	70	70	70	70	70	63	57	52	48	45	39	32
(A + B) ÷ 2 = **9'-0"** (2743)	70	70	70	70	70	70	66	60	55	51	47	41	34
(A + B) ÷ 2 = **8'-6"** (2591)	70	70	70	70	70	70	70	64	58	54	50	44	36
(A + B) ÷ 2 = **8'-0"** (2438)	70	70	70	70	70	70	70	68	62	57	53	47	38
(A + B) ÷ 2 = **7'-6"** (2286)	70	70	70	70	70	70	70	70	66	61	57	50	41
(A + B) ÷ 2 = **7'-0"** (2134)	70	70	70	70	70	70	70	70	70	65	61	53	44
(A + B) ÷ 2 = **6'-6"** (1981)	70	70	70	70	70	70	70	70	70	70	65	58	47
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	70	70	70	70	70	70	70	70	70	62	51
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	70	70	70	70	70	70	70	70	70	68	56
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	70	70	70	70	70	70	70	70	70	70	62
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	70	70	70	70	70	70	70	70	70	70	69
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	70	70	70	70	70	70	70	70
C = (length of join)	**2'-0"** (610)	**2'-6"** (762)	**3'-0"** (914)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)

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2-Way Fiberglass Joining

400 Series Frenchwood® Gliding, Frenchwood Hinged Inswing Patio Doors, and Frenchwood Patio Door Sidelights and Transoms

6 9/16" (167) Minimum Wall Depth

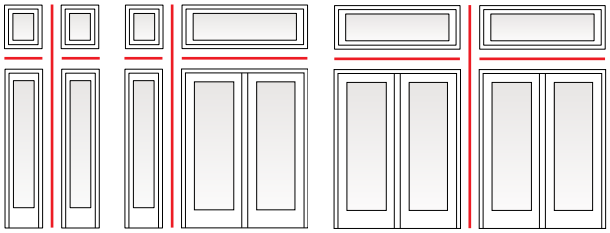
Average Adjacent Window Dimension													
(A + B) ÷ 2 = **12'-0"** (3658)	70	70	70	70	62	55	50	45	41	38	35	33	31
(A + B) ÷ 2 = **11'-6"** (3505)	70	70	70	70	65	58	52	47	43	40	37	34	32
(A + B) ÷ 2 = **11'-0"** (3048)	70	70	70	70	68	60	54	49	45	42	39	36	34
(A + B) ÷ 2 = **10'-6"** (3200)	70	70	70	70	70	63	57	51	47	44	40	38	35
(A + B) ÷ 2 = **10'-0"** (3048)	70	70	70	70	70	66	60	54	50	46	42	40	37
(A + B) ÷ 2 = **9'-6"** (2896)	70	70	70	70	70	70	63	57	52	48	45	42	39
(A + B) ÷ 2 = **9'-0"** (2743)	70	70	70	70	70	70	66	60	55	51	47	44	41
(A + B) ÷ 2 = **8'-6"** (2591)	70	70	70	70	70	70	70	64	58	54	50	47	44
(A + B) ÷ 2 = **8'-0"** (2438)	70	70	70	70	70	70	70	68	62	57	53	50	46
(A + B) ÷ 2 = **7'-6"** (2286)	70	70	70	70	70	70	70	70	66	61	57	53	50
(A + B) ÷ 2 = **7'-0"** (2134)	70	70	70	70	70	70	70	70	70	65	61	57	53
(A + B) ÷ 2 = **6'-6"** (1981)	70	70	70	70	70	70	70	70	70	70	65	61	57
(A + B) ÷ 2 = **6'-0"** (1829)	70	70	70	70	70	70	70	70	70	70	70	66	62
(A + B) ÷ 2 = **5'-6"** (1676)	70	70	70	70	70	70	70	70	70	70	70	70	68
(A + B) ÷ 2 = **5'-0"** (1524)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **4'-6"** (1372)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **4'-0"** (1219)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-6"** (1067)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **3'-0"** (914)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-6"** (762)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **2'-0"** (610)	70	70	70	70	70	70	70	70	70	70	70	70	70
(A + B) ÷ 2 = **1'-6"** (457)	70	70	70	70	70	70	70	70	70	70	70	70	70
C = (length of join)	**2'-0"** (610)	**2'-6"** (762)	**3'-0"** (914)	**3'-6"** (1067)	**4'-0"** (1219)	**4'-6"** (1372)	**5'-0"** (1524)	**5'-6"** (1676)	**6'-0"** (1829)	**6'-6"** (1981)	**7'-0"** (2134)	**7'-6"** (2286)	**8'-0"** (2438)

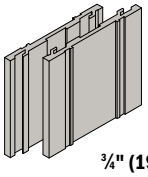
continued on next page

- Numeric value represents the certified Performance Grade (PG) rating of the combination.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Frenchwood® hinged inswing patio doors with a 6 9/16" (167) or greater exterior extension jamb depth require 7 3/4" (197) fiberglass joining material.
- Dimensions in parentheses are in millimeters.

2-Way Fiberglass Joining continued from previous page

21							
22							
23							
24	20						
25	21						
27	23						
28	24	20					
30	25	21					
32	27	23					
34	29	24	21				
37	31	26	22				
39	33	28	24	21			
43	36	30	26	22			
47	39	33	28	25	21		
51	43	37	31	27	23	20	
57	48	41	35	28	26	23	20
64	54	46	39	34	29	26	23
70	62	53	45	39	34	29	26
70	70	61	53	45	39	34	30
70	70	70	63	54	47	41	36
70	70	70	70	68	59	52	46
70	70	70	70	70	70	69	61
8'-6" (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)	**10'-6"** (3200)	**11'-0"** (3353)	**11'-6"** (3505)	**12'-0"** (3658)



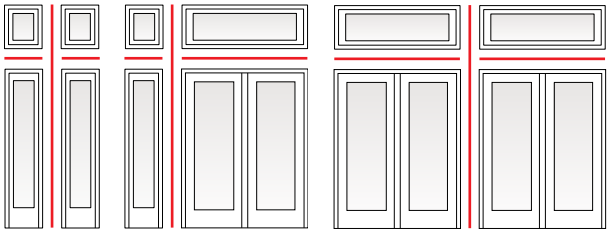


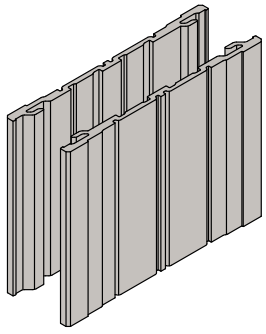
¾" (19) x 5 ¾" (146)
Fiberglass Joining Material
For 4 9/16" (116) base jamb depths.

Note: When joining hinged inswing patio doors, do not join hinge jamb to hinge jamb.

2-Way Fiberglass Joining continued from previous page

29	27	26	25	22	20						
30	29	27	26	23	21						
32	30	28	27	25	22						
33	31	30	28	26	23	21					
35	33	31	30	27	25	22	21				
37	35	33	31	28	26	24	22				
39	37	35	33	30	27	25	23	21			
41	39	37	35	32	29	27	24	22			
44	41	39	37	34	31	28	26	24	22		
47	44	42	40	36	33	30	28	25	23	22	
50	47	45	42	39	35	32	30	27	25	23	22
54	51	48	46	42	38	35	32	29	27	25	23
58	55	52	50	45	41	38	35	32	29	27	25
64	60	57	54	50	45	41	38	35	32	30	28
70	66	63	60	55	50	45	42	38	35	33	30
70	70	70	66	61	55	50	46	43	39	37	34
70	70	70	70	68	62	57	52	48	44	41	38
70	70	70	70	70	70	65	60	55	51	47	44
70	70	70	70	70	70	70	70	64	59	55	51
70	70	70	70	70	70	70	70	70	70	66	61
70	70	70	70	70	70	70	70	70	70	70	70
70	70	70	70	70	70	70	70	70	70	70	70
8'-6" (2591)	**9'-0"** (2743)	**9'-6"** (2896)	**10'-0"** (3048)	**10'-6"** (3200)	**11'-0"** (3353)	**11'-6"** (3505)	**12'-0"** (3658)	**12'-6"** (3810)	**13'-0"** (3962)	**13'-6"** (4114)	**14'-0"** (4267)





¾" (19) x 7 ¾" (197)
Fiberglass Joining Material
For higher performance for 1-way and 2-way joining. Required for Frenchwood® hinged inswing patio doors with 6 9/16" (167) or greater exterior extension jamb depths.

Note: When joining hinged inswing patio doors, do not join hinge jamb to hinge jamb.

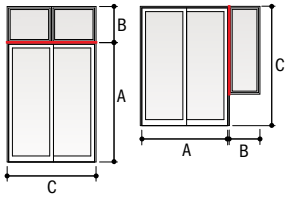
- Numeric value represents the certified Performance Grade (PG) rating of the combination.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Frenchwood® hinged inswing patio doors with a 6 9/16" (167) or greater exterior extension jamb depth require 7 ¾" (197) fiberglass joining material.
- Dimensions in parentheses are in millimeters.

Patio Doors and Windows

1-Way Steel Joining

400 Series Patio Doors and Windows

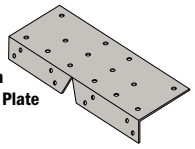
Average Adjacent Window/Door Dimension	C = (length of join)	5'-6" (1676) or less	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)	9'-0" (2743)	9'-6" (2896)	10'-0" (3048)	10'-6" (3200)	11'-0" (3353)	11'-6" (3505)	12'-0" (3658)	12'-6" (3810)
(A + B) ÷ 2 = **12'-6"** (3810)		40	37	33	25	22										
(A + B) ÷ 2 = **12'-0"** (3658)		40	37	34	26	23										
(A + B) ÷ 2 = **11'-6"** (3505)		40	38	35	27	24										
(A + B) ÷ 2 = **11'-0"** (3353)		40	39	36	29	25										
(A + B) ÷ 2 = **10'-6"** (3200)		40	40	37	30	27	21									
(A + B) ÷ 2 = **10'-0"** (3048)		40	40	37	32	28	22									
(A + B) ÷ 2 = **9'-6"** (2896)		40	40	39	34	30	23	20								
(A + B) ÷ 2 = **9'-0"** (2743)		40	40	40	36	32	25	21								
(A + B) ÷ 2 = **8'-6"** (2591)		40	40	40	37	34	27	22								
(A + B) ÷ 2 = **8'-0"** (2438)		40	40	40	39	36	28	24								
(A + B) ÷ 2 = **7'-6"** (2286)		40	40	40	40	37	31	27	21							
(A + B) ÷ 2 = **7'-0"** (2134)		40	40	40	40	40	32	28	22							
(A + B) ÷ 2 = **6'-6"** (1981)		40	40	40	40	40	36	31	25	23						
(A + B) ÷ 2 = **6'-0"** (1829)		40	40	40	40	40	39	36	27	24	20					
(A + B) ÷ 2 = **5'-6"** (1676)		40	40	40	40	40	40	37	30	25	24					
(A + B) ÷ 2 = **5'-0"** (1524)		40	40	40	40	40	40	40	36	28	25					
(A + B) ÷ 2 = **4'-6"** (1372)		40	40	40	40	40	40	40	37	31	27	23	20			
(A + B) ÷ 2 = **4'-0"** (1219)		40	40	40	40	40	40	40	40	37	30	26	25	21		
(A + B) ÷ 2 = **3'-6"** (1067)		40	40	40	40	40	40	40	40	40	36	27	26	25		
(A + B) ÷ 2 = **3'-0"** (914)		40	40	40	40	40	40	40	40	40	40	36	30	26	23	
(A + B) ÷ 2 = **2'-6"** (762)		40	40	40	40	40	40	40	40	40	40	40	38	34	26	20
(A + B) ÷ 2 = **2'-0"** (610)		40	40	40	40	40	40	40	40	40	40	40	40	40	34	28



Intended for use with patio door to window joins only. Please refer to patio door tables for further information regarding structural support between doors.

When using exterior extension jambs on Frenchwood® hinged patio doors, special conditions apply. For complete installation details, visit **andersenwindows.com**.

$^{3}/_{16}$" (5) x 4" (102) Steel Joining Material



V-Notch Gusset Plate

Figure 1

Andersen recommends use of a separating structural header between the door head and sill of any transom unit(s). If you choose not to use a header, and a single row of transom units is desired above the door, make sure the units are securely fastened to the adjacent framing and securely "hung" by screwing through the transom unit frame(s) into the header above. Steel joining may be required.

IMPORTANT: HEADER SAG MAY ADVERSELY AFFECT THE PROPER FUNCTIONING AND PERFORMANCE OF THE DOOR AND/OR WINDOW. No weight from the transom unit(s) may be transferred to the door head if proper operation of the door is to be achieved. For four-panel gliding patio doors, see Figure 3.

Figure 2

Any transom combination made up of more than a single row of windows must have a separating header (by others).

Figure 3

Always use a structural header to separate transom windows from four-panel gliding patio doors. For all other door types, see Figure 1.

Figure 4

Steel reinforcing is recommended whenever transom or sidelight windows are placed above or beside door units.

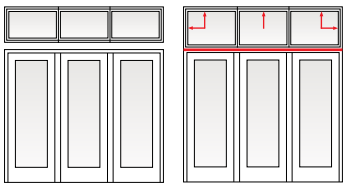


Figure 1

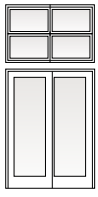


Figure 2

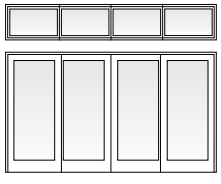


Figure 3

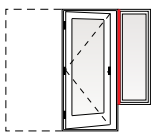


Figure 4

- Numerical values in charts represent structural pressure only.
- Structural performance of any combination is only as high as the lowest structural performance of any individual unit or joining material in the combination.
- Andersen® products must be installed and anchored properly according to joining and installation guides to meet rated structural performance. Refer to product joining and installation guides at andersenwindows.com.
- Additional wind load tables are available at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Andersen® 400 Series Window and Patio Door Altitude Limits

The chart below gives the altitude limit in feet for most 400 Series products in this catalog. If the installation of a given product is at an altitude greater than that shown in this chart, a capillary breather tube must be ordered. Be aware that the use of a capillary breather tube eliminates argon gas blend fill and will result in a slightly lower thermal performance (approximately 0.02 increase in window U-Factor). For NFRC certified total unit performance on units with capillary breather tubes for higher altitude applications, please visit **andersenwindows.com/nfrc**.

The use of dual-pane insulating glass without capillary breather tubes at altitudes higher than its rating will result in severe glass distortion, increased glass breakage potential and a risk for seal failure.

Smaller windows are most affected by altitude changes. An increase in altitude results in a decrease in atmospheric pressure. A sealed insulating glass unit attempts to combat this change by increasing its volume to reduce its pressure. One way to increase its volume is by glass deflection. A smaller window is stiffer and does not deflect as much as a larger window; therefore, it cannot relieve the pressure as readily. Thus, the load applied to the glass is greater, resulting in a greater risk for breakage. Another way the window tries to increase its volume is by increasing the edge area; i.e., the seal area. The increased pressure applied to the edge seal load for a smaller window is therefore greater, increasing the chance for seal failure.

Product	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
Casement and Awning Windows				CR12 CN12 CR13 CN13 CR135 CN135 CR14 CN14 CR15 CN145 CR16 CN15 CR45 CN155 CR155 CN16 CR125 AN251	C12 C14 AN251 C15 C13 C155 C135 C16 C145 CW12 A281 C125 CXW12		CW13 CW145 CW135 CW15 CW14 CW155 CX125 CW16 AX251 AW251 CW125 AW281 CXW125	CX13 AXW281 CX135 AX31 CX14 AX351 CX145 AX41 CX15 AX451 CX155 AX51 CX16 AX551 AX61	A335/CP353 CXW45 CP3535 CXW5/CP305 CXW3/CP303 CXW155 CXW35 CXW6 CXW4
		4,000		AN281					10,000
Casement/Awning Transom and Picture Windows		CTR1510 CTR3010 CTR5010 CTR1810 CTR2910 CTR5210 CTR2010 CTR3410 CTR51110 CTR2410 CTR4010 CTR6010 CTR2810 CTR4810 CTR7010					P3030 P3050 P3035 P3055 P3040 P3060 P3045	P3535 P5050 P3540 P3555 P3545 P3560 P3550 P4040	P4045 P4060 P5060 P4050 P4545 P4560 P5055 P4550 P4055 P4555
Woodwright® Double-Hung Windows E = equal sash C = cottage sash Designate product code as WDH, WU, WH or WA.			18210 34210 20210 28210 24210 210210 30210 38210 26210	1832 3032 1836 3036 18310 3832 1842 1862 2632 1856C 2636 2032 2832 2036 3436 2432 1846 2836 18410 3432 1852 21032 1856E 3836 18510 2436 21036	20310 2056C 2042 3442 2046 38310 20410 3842 210310 24310 21042 2442 30310 26310 3042 2642 2052 28310 2056E 34310 20510 2842 2062	2446 2646 24410 2846 2452 21046 2456E 3046 24510 3048 2462 3446 2456C 3846	26410 28410 2652 2852 2656E 2856E 26510 28510 3052 2862 34410 2856C 3452 210410 38410 21052 2662 3852 2656C 30410	21056E 3056E 210510 3456E 21062 3856E 21056C	30510 3456C 3062 38510 3056C 3862 34510 3856C 3462
		4,000							
Woodwright Transom Windows	WTR1810 WTR4210 WTR31015 WTR31017 WTR1815 WTR3410 WTR41010 WTR4217 WTR1817 WTR1823 WTR5610 WTR41017 WTR18111 WTR1827 WTR4215 WTR6210 WTR18121 WTR1831 WTR2017 WTR5617 WTR31010 WTR2010 WTR2410 WTR2815 WTR2015 WTR2415 WTR2817 WTR3415 WTR2417 WTR3010 WTR3417 WTR2810 WTR3015 WTR3810 WTR41015 WTR3017 WTR3815 WTR5615 WTR6217 WTR3817 WTR6215			WTR20111 WTR28121 WTR20121 WTR30111 WTR2023 WTR31021 WTR2027 WTR4221 WTR2031 WTR41021 WTR310111 WTR5621 WTR42111 WTR6221 WTR410111 WTR30121 WTR56111 WTR34111 WTR62111 WTR34121 WTR24111 WTR38111 WTR24121 WTR38121 WTR28111	WTR2423 WTR3823 WTR2427 WTR31023 WTR2431 WTR4223 WTR2823 WTR41023 WTR3023 WTR5623 WTR3423 WTR6223	WTR2827 WTR31027 WTR2831 WTR4227 WTR3027 WTR41027 WTR3427 WTR5627 WTR3827 WTR6227	WTR3031 WTR3431 WTR3831	WTR31031 WTR4231 WTR41031 WTR5631 WTR6231	
Woodwright Picture Windows		WPW10310 WPW1042 WPW1046 WPW10410 WPW1052 WPW1056 WPW10510 WPW1062					WPW30310 WPW3056 WPW3042 WPW30510 WPW3046 WPW3062 WPW30410 WPW3052	WPW34310 WPW3456 WPW3442 WPW34510 WPW3446 WPW3462 WPW34410 WPW3452	WPW310310 WPW31056 WPW42410 WPW31042 WPW310510 WPW4252 WPW31046 WPW31062 WPW4256 WPW310410 WPW42310 WPW5642 WPW4262 WPW41052 WPW5646 WPW410310 WPW41056 WPW56410 WPW41042 WPW410510 WPW5652 WPW41046 WPW41062 WPW56510 WPW410410 WPW56310 WPW5662 WPW5656 WPW4242 WPW42510 WPW31052 WPW4246
		5,000		6,000	7,000	8,000	9,000		
Tilt-Wash Double-Hung Windows E = equal sash C = cottage sash	TW18210 TW2828 TW21032 TW34210 TW1832 TW1842 TW3032 TW3432 TW1836 TW1846 TW30210 TW38210 TW18310 TW18410 TW18510 TW3832 TW2432 TW1852 TW1862 TW24210 TW26210 TW1856E TW1856C TW1872 TW2632 TW2832 TW20210 TW1876 TW28210 TW210210 TW2032			TW2036 TW20410 TW38310 TW20310 TW2052 TW2056C TW2042 TW2056E TW2436 TW2046 TW20510 TW24310 TW28310 TW2062 TW2636 TW21036 TW3436 TW26310 TW210310 TW34310 TW30310 TW3036 TW3836 TW2836 TW2072 TW2076	TW2442 TW2642 TW2842 TW21042 TW3042 TW3442 TW3842	TW2446 TW2646 TW24410 TW2846 TW2452 TW21046 TW2456E TW3046 TW24510 TW3048 TW2462 TW3446 TW2456C TW3846 TW2472 TW2476	TW26410 TW2656C TW2672 TW2652 TW28410 TW2676 TW2656E TW2852 TW2872 TW26510 TW2856E TW2876 TW2862 TW3052 TW2856C TW34410 TW210410 TW3452 TW21052 TW38410 TW30410 TW3852 TW2662 TW28510	TW21056E TW3456E TW21072 TW210510 TW34510 TW21076 TW21062 TW3462 TW3072 TW21056C TW3456C TW3076 TW3056E TW3856E TW3472 TW30510 TW38510 TW3476 TW3062 TW3856C TW3872 TW3056C TW3862 TW3876

continued on next page

- Deflection of glass will occur on units with larger glass areas. If interior/exterior grilles are used on double-hung windows, gliding windows or gliding patio doors, some interference may occur, affecting operation of these units.
- Altitude limits for patio doors shown in two-panel configurations. These limits also qualify for same size panels used in one or multiple panel configurations.
- **Contact your Andersen supplier for altitude limits for custom-sized windows and patio doors.**

Andersen® 400 Series Window and Patio Door Altitude Limits *(continued)*

Product	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
Tilt-Wash Picture Windows		DP10310 DP1042 DP1046 DP10410 DP1052 DP1056 DP10510 DP1062					DP3062	DP30310 DP3052 DP3042 DP3056 DP30510 DP30410 DP3462	DP34310 DP3456 DP310410 DP3442 DP34510 DP31052 DP3446 DP310310 DP31056 DP34410 DP31042 DP310510 DP42310 DP4256 DP41046 DP4242 DP42510 DP410410 DP4246 DP4262 DP41052 DP42410 DP410310 DP41056 DP41062 DP5652 DP5646 DP56310 DP5656 DP5662 DP41042 DP410510 DP56410 DP5642 DP56510 DP4252 DP3452 DP31046 DP31062
	4,000								
Tilt-Wash Transom Windows	TWT1810 TWT2017 TWT21010 TWT3817 TWT1815 TWT2410 TWT21015 TWT31010 TWT1817 TWT2415 TWT21017 TWT4210 TWT18111 TWT2417 TWT3010 TWT41010 TWT1821 TWT2610 TWT3015 TWT5610 TWT1823 TWT2615 TWT3017 TWT6210 TWT1827 TWT2617 TWT3410 TWT3417 TWT1831 TWT2810 TWT3415 TWT2010 TWT2815 TWT3810 TWT2015 TWT2817 TWT3815			TWT20111 TWT26111 TWT2021 TWT28111 TWT2023 TWT210111 TWT2027 TWT310111 TWT2031 TWT34111 TWT24111 TWT38111	TWT2421 TWT21021 TWT2423 TWT21023 TWT2427 TWT3021 TWT2431 TWT3023 TWT2621 TWT3421 TWT2623 TWT3423 TWT2821 TWT3821 TWT2823 TWT3823	TWT2627 TWT2631 TWT2827 TWT2831 TWT21027 TWT3027 TWT3427 TWT3827	TWT21031 TWT3031	TWT3431 TWT3831	
Gliding Windows			G32 G34 G33 G35 G336 G42	G43 G44 G436 G45		G53 G54 G536 G55	G63	G636 G64 G65	
Half Circle, Quarter Circle and Elliptical Windows			CTC1 CTN24 CTCW1 CTCX1 CTN20	CTN28 ET8 CTN30	CTN34 CTC2	CTC42 CTQC1 CTCW2	CTCX2 CTQCW1	CTC3 CTN28-2 CTQCX	CTN30-2 CTQA3
Circle and Oval Windows				OVL1824	CIR20 OVL2030		CIR24	OVL3048	CIR30
Flexiframe® Windows Rectangular*	0-19" (0-483)	20-24" (508-610)	25-28" (635-711)	29-31" (737-787)	32-36" (508-610)	37-41" (508-610)	42-46" (1067-1168)	47-51" (1194-1295)	>51" (>1295)
Flexiframe Windows Non-Rectangular*	0-35" (0-889)	36-46" (914-1168)	47-54" (1194-1372)	55-60" (1397-1524)	61-70" (1549-1778)	71-80" (1803-2032)	>80" (>2032)		
Arch Windows		AFC06 AFC11 AFCW06 AFCW11 AFCP3006 AFFW5006 AFCP301 AFCW206 AFC12	AFC13 AFC206 AFC135 AF21 AFC14 AFCW21 AFFW801 AFFW501 AFC145 AFFW6006 AFC15 AFFW601 AFC155 AFFW8006 AFC16 AFFW801 AFC18 AFFW1206 AFFW601	AFCW12 AFCW155 AFCW13 AFCW16 AFCW135 AFCW18 AFCW14 AFCP302 AFCW145 AFFW1201 AFCW15	AFCP303 AFC22 AFCW22 AFFW502	AFCP3035 AFCP306 AFCP304 AFCP308 AFCP3045 AFFW602 AFCP305 AFFW802 AFCP3055	AFFW1202 AFC23 AFCW23	AFC235 AFFW5035 AFFW603 AFFW6035 AFC24	AFCW24 AFFW505 AFC24 AFCW245 AFFW8045 AFC245 AFCW25 AFFW805 AFC25 AFCW255 AFFW8055 AFC255 AFFW6055 AFFW806 AFC26 AFFW606 AFFW5055 AFC28 AFFW608 AFFW506 AFCW235 AFFW8035 AFFW508 AFFW803 AFCW26 AFFW604 AFCW28 AFFW6045 AFFW504 AFFW804 AFFW5045 AFFW605
								9,000	10,000
Springline™ Windows				SE3106	SE311	SE312 SE313 SE3135 SE314 SE3145	SE315 SE3155 SE316 SE5406 SE5806 SE6006	SE541 SE581 SP402 SP403 SP4035	SE601 SE546 SE5845 SE603 SP404 SE582 SE585 SE6035 SP4045 SE583 SE5855 SE604 SP405 SE5835 SE586 SE6045 SP4055 SE6055 SE542 SE545 SP406 SE606 SE543 SE5455 ELFW6006 SP8006 SE5435 SP802 ELFW8006 SP801 SE544 SE5445 SE584 SE602 SE605 ELFW601 ELFW801 ELFW602 ELFW802
	3,000	4,000							
Springline Flanker Windows	SF CR3 SF CR35	SF CR4 SF CR5 SF CR6 SF CN3	SF CN35 SF C5 SF CN4 SF C6 SF CN5 SF CN6	SF CW35 SF CW6 SF CW4 SF C35 SF CW5 SF C4		SF CXW4 SF CXW5 SF CXW6			
	3,000		4,000						
Eyebrow Windows	FCD34 FCCW2 FCCXW3 FCFW50		FCD28 FCD38 FCD30 FCC2	FCFW60					
Extended Gothic, Octagon, Monumental Circle and Quarter Circle Windows	GT2036 GT2440 GT3046	OC20	OC24	GT4056			OC30		FR40 QR40 FR60
									10,000
Frenchwood® Gliding Patio Doors								FWG5068 FWG5080 FWG50611 FWG6068	FWG60611 FWG8068 FWG8080 FWG6080 FWG80611
Frenchwood Hinged Inswing Patio Doors				4168 4180 41611				5068 5080 50611	5468 5480 60611 54611 6068 6080
	4,000								
Frenchwood Patio Door Transoms	FWT6016 FWT5016 FWT4111 FWT2911 FWT6011 FWT2111 FWT3116 FWT2716 FWT5416 FWT5011 FWT3111 FWT2711 FWT5411 FWT4116 FWT2916 FWT2116			FWT60110 FWT31110 FWT54110 FWT29110 FWT50110 FWT27110 FWT41110 FWT21110					
Frenchwood Patio Door Sidelights	FWSL1368 FWSL1380 FWSL17611 FWSL13611 FWSL1768 FWSL1780								
Frenchwood Patio Door Sidelight Transoms	FWSLT17110 FWSLT1311 FWSLT13110 FWSLT1716 FWSLT1711 FWSLT1316								

- Deflection of glass will occur on units with larger glass areas. If interior/exterior grilles are used on double-hung windows, gliding windows or gliding patio doors, some interference may occur, affecting operation of these units.
- Altitude limits for patio doors shown in two-panel configurations. These limits also qualify for same size panels used in one or multiple panel configurations.
- **Contact your Andersen supplier for altitude limits for custom-sized windows and patio doors.**
- Dimensions in parentheses are in millimeters.

*Maximum short side window dimension. For Flexiframe units, use shortest dimension, width or length, and round to nearest whole number, then use limits given above for Flexiframe windows.

PERFORMANCE STANDARDS

The Window and Door Manufacturers Association (WDMA), the American Architectural Manufacturers Association (AAMA) and the Canadian Standards Association (CSA) jointly release the North American Fenestration Standard/Specification for Windows, Doors and Skylights (NAFS-11) where "-11" refers to the most recent publication year of 2011. NAFS is also referred to as AAMA/WDMA/CSA 101/I.S.2/A440, which is how the International Code Council (ICC) lists this standard in the 2012, 2015 and 2018 International Residential Code (IRC) and International Building Code (IBC) as the means to indicate the window, door or skylights design pressure rating used to determine compliance to the jobsite design pressure requirements.

A product only achieves a "Performance Grade" or "PG" rating when it complies with all of the NAFS performance requirements such as ease of operation, air infiltration resistance, resistance to water penetration and resistance to forced entry, etc. A "Design Pressure Rating" or "DP" rating only depicts the design and structural load performance.

Performance Classes

The NAFS Standard/Specification defines requirements for four performance classes. Performance classes are designated R, LC, CW and AW. This classification system provides for several levels of performance. Product selection is always based on the performance and building code requirements of the particular project.

Elements of Performance Grade (PG) Designations

In order to qualify for a given performance grade (PG), test specimens need to pass all required performance tests for the following, in addition to all required auxiliary (durability) and applicable material/component tests (not shown here) for the applicable product type and desired performance class:

(a) Operating force (if applicable): Maximum operating force varies by product type and performance class.

(b) Air leakage resistance: Tested in accordance with ASTM E283 at a test pressure of 1.57 psf. Allowable air infiltration for R, LC and CW class designations is 0.3 cubic feet per minute per square foot of frame (cfm/ft^2).

(c) Water penetration resistance: Tested in accordance with ASTM E547 with the specified test pressure applied per NAFS-11. Test consists of four cycles. Each cycle consists of five minutes with pressure applied and one minute with the pressure released, during which the water spray is continuously applied. Water spray shall be uniformly applied at a constant rate of 5 U.S. gal/ft^2 · hr.

(d) Uniform load deflection test: Tested in accordance with ASTM E330 for both positive and negative pressure (pressure defined by NAFS-11) with the load maintained for a period of 10 seconds. The test specimen shall be evaluated for deflection during each load for permanent damage after each load and for any effects on the normal operation of the specimen. *Starting with the 2008 version of NAFS, design pressure (DP) will only represent the "uniform load deflection test."*

(e) Uniform load structural test: Tested in accordance with ASTM E330 for both positive and negative pressure (pressure defined by NAFS-11) with the load maintained for a period of 10 seconds. After loads are removed, there shall be no permanent deformation in excess of 0.4% of its span and no damage to the unit, which would make it inoperable.

(f) Forced-entry resistance (if applicable): Tested in accordance with ASTM F588 (windows), F476 (swinging doors) and F842 (sliding doors) at a performance level 10 rating.

Performance Grades (PG) and Corresponding Test Pressures (psf)

Performance Class/ Performance Grade		Air Infiltration Test Pressure		Maximum Allowable Air Infiltration/ Exfiltration Rate		Water Penetration Resistance Test Pressure		Design Pressure		Structural Test Pressure	
R	LC	Pa	psf	L/s·m^2	cfm/ft^2	Pa	psf	Pa	psf	Pa	psf
15	-	75	1.57	1.5	0.30	140	2.92	720	15.04	1080	22.56
20	-	75	1.57	1.5	0.30	150	3.13	960	20.05	1440	30.08
25	25	75	1.57	1.5	0.30	180	3.76	1200	25.06	1800	37.59
30	30	75	1.57	1.5	0.30	220	4.59	1440	30.08	2160	45.11
35	35	75	1.57	1.5	0.30	260	5.43	1680	35.09	2520	52.63
40	40	75	1.57	1.5	0.30	290	6.06	1920	40.10	2880	60.15
45	45	75	1.57	1.5	0.30	330	6.89	2160	45.11	3240	67.67
50	50	75	1.57	1.5	0.30	360	7.52	2400	50.13	3600	75.19
55	55	75	1.57	1.5	0.30	400	8.35	2640	55.14	3960	82.71
60	60	75	1.57	1.5	0.30	440	9.19	2880	60.15	4320	90.23
65	65	75	1.57	1.5	0.30	470	9.82	3120	65.16	4680	97.74
70	70	75	1.57	1.5	0.30	510	10.65	3360	70.18	5040	105.26
75	75	75	1.57	1.5	0.30	540	11.28	3600	75.19	5400	112.78
80	80	75	1.57	1.5	0.30	580	12.11	3840	80.20	5760	120.30
85	85	75	1.57	1.5	0.30	580	12.11	4080	85.21	6120	127.82
90	90	75	1.57	1.5	0.30	580	12.11	4320	90.23	6480	135.34
95	95	75	1.57	1.5	0.30	580	12.11	4560	95.24	6840	142.86
100	100	75	1.57	1.5	0.30	580	12.11	4800	100.25	7200	150.38

HALLMARK CERTIFICATION

The Window and Door Manufacturers Association (WDMA)-sponsored Hallmark Certification Program provides manufacturers with certification to the AAMA/WDMA/CSA 101/I.S.2/A440-11 Standard and is designed to provide builders, architects, specifiers and consumers with an easily recognizable means of identifying products that have been manufactured and tested in accordance with NAFS (AAMA/WDMA/CSA 101/I.S.2/A440) industry standards and other applicable performance standards. Conformance is determined by periodic in-plant inspections by a third-party administrator. Inspections include auditing licensee quality control procedures and processes, and a review to confirm products are manufactured in accordance with the appropriate performance standards. Periodic testing of representative product constructions and components by an independent testing laboratory is also required. When all of the program requirements are met, the licensee is authorized to use the WDMA Hallmark registered logo on their certification label as a means of identifying products and their performance ratings.

Products successfully obtaining Hallmark Certification will be labeled with a three-part code, which includes performance class, performance grade and size tested. In addition to this mandatory requirement, you are allowed to list the design pressure on a separate line.

WDMA Hallmark Certified www.wdma.com	Andersen Corporation 400 SERIES CASEMENT WINDOW Manufacturer stipulates certification as indicated below.
STANDARD	RATING
AAMA/WDMA/CSA 101/I.S.2/A440-11	Class LC(1) – PG50(2) – Size Tested 56 x 71.8 in.(3) DP+50/-50(4)
AAMA/WDMA/CSA 101/I.S.2/A440-08	Class LC(1) – PG50(2) – Size Tested 56 x 71.8 in.(3) DP+50/-50(4)

(1) – Performance Class

(2) – Performance Grade

(3) – Size Tested

(4) – Design Pressure

In the example above, the performance class is LC, the performance grade (PG) is 50 pounds per square foot (psf) and the size tested is 56" x 71.8". What this means to the specifier is, based on the performance grade chart, the laboratory-tested air infiltration was less than 0.3 cfm/ft^2 (test pressure is always 1.57 psf and the allowable airflow is 0.3 cfm/ft^2), the product tested successfully resisted a laboratory water penetration test at a test pressure of 7.5 psf, the product tested successfully withstood a laboratory positive test pressure of 75 psf and a laboratory negative test pressure of 75 psf, and the product tested passed the laboratory requirements for operational force and forced-entry resistance. Based on this test, all products of the same design that are smaller than the tested size can be labeled with this product performance rating.

IMPORTANT

Building codes prescribe design pressure based on a variety of criteria (i.e., windspeed zone, building height, building type, jobsite exposure, etc.). Design pressures derived from Performance Grade (PG) test requirements should be used to determine compliance to building code required design pressures. Structural test pressures, which are tested at 1.5 times the design pressure, should **not** be used for determining design pressure code compliance. In the example above, a PG 50 performance grade rating, which passes a 50 psf design pressure, should be used for determining code compliance, not the structural test pressure of 75 psf.

If you need further details about how Andersen® products perform to this standard, contact your Andersen supplier.

If you need further information about the AAMA/WDMA/CSA 101/I.S.2/A440-11 standard or the Hallmark Certification Program, please contact: WDMA, 330 N. Wabash Avenue, Suite 2000, Chicago, IL 60611. Phone: 312-321-6802 Website: **wdma.com**

Where designated, Andersen products are tested, certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.

Performance Grade and Air Infiltration Ratings — 400 Series Windows

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT²
Casement Windows			
Single Stationary (CXW16)	Class LC-PG50 Size Tested 35" x 71"	50/50	< 0.2
Single Venting (CXW16-155, CX16-155)	Class LC-PG40 Size Tested 35" x 71"	40/40	< 0.2
Single Venting (CXW15)	Class LC-PG45 Size Tested 71" x 60"	45/45	< 0.2
Single Venting (CW16 and smaller)	Class LC-PG50 Size Tested 60" x 71"	50/50	< 0.2
Single Venting (CXW145 and smaller)	Class LC-PG50 Size Tested 71" x 52" *	50/50	< 0.2
Single Venting (CX15 and smaller)	Class LC-PG50 Size Tested 62" x 59" *	50/50	< 0.2
Twin Stationary (CXW245, CX25, CW26 and smaller)	Class LC-PG50 Size Tested 56" x 71" *	50/50	< 0.2
Twin Venting (CXW25)	Class LC-PG45 Size Tested 71" x 60"	45/45	< 0.2
Twin Venting (CXW245 and smaller)	Class LC-PG50 Size Tested 71" x 52"	50/50	< 0.2
Twin Venting (CX25 and smaller)	Class LC-PG50 Size Tested 62" x 59"	50/50	< 0.2
Twin Venting (CW26 and smaller)	Class LC-PG50 Size Tested 60" x 71"	50/50	< 0.2
Triple Venting (CW35 and smaller)	Class LC-PG40 Size Tested 84" x 60"	40/40	< 0.2
Triple Venting (C35 and smaller)	Class LC-PG50 Size Tested 71" x 60"	50/50	< 0.2
Casement/Awning Picture Windows (P5060 and smaller)	Class LC-PG70 Size Tested 59" x 71"	70/70	< 0.2
Casement/Awning Transom Windows (CTR32410 and smaller)	Class LC-PG70 Size Tested 84" x 12"	70/70	< 0.2
Casement Windows, PG Upgrade			
Single Stationary (tempered glass, CXW16)	Class LC-PG70 Size Tested 35" x 71"	70/70	< 0.2
Single Venting (CXW145 and smaller)	Class LC-PG70 Size Tested 35" x 52"	70/70	< 0.2
Single Venting (CX16 and smaller)	Class LC-PG70 Size Tested 31" x 71"	70/70	< 0.2
Twin Venting (CW26 and smaller)	Class LC-PG70 Size Tested 56" x 71"	70/70	< 0.2
Triple Venting (C35 and smaller)	Class LC-PG70 Size Tested 71" x 59"	70/70	< 0.2
Complementary Casement Windows			
Casement Venting	Class LC-PG50 Size Tested 35" x 84"	50/50	< 0.2
Casement Stationary	Class LC-PG60 Size Tested 120" x 78"	60/60	< 0.2
French Casement Venting	Class LC-PG30 Size Tested 56" x 72"	30/30	< 0.2
Awning Windows			
Single Stationary (AXW61)	Class LC-PG50 Size Tested 35" x 71"	50/50	< 0.2
Single Venting (AXW51 and smaller)	Class LC-PG35 Size Tested 59" x 35"	35/35	< 0.2
Single Venting (AX61 and smaller)	Class LC-PG35 Size Tested 72" x 31"	35/35	< 0.2
Twin Venting (AXW231 and smaller)	Class LC-PG35 Size Tested 71" x 36"	35/35	< 0.2
Triple Venting (AX3251 and smaller)	Class LC-PG35 Size Tested 84" x 31"	35/35	< 0.2
Triple Venting (A313 and smaller)	Class LC-PG35 Size Tested 35" x 71"	35/35	< 0.2
Picture Venting (PA4060 and smaller)	Class LC-PG35 Size Tested 48" x 71"	35/35	< 0.2
Awning Windows, PG Upgrade			
Single Stationary (tempered glass, AXW61)	Class LC-PG70 Size Tested 35" x 71"	70/70	< 0.2
Single, Twin and Triple Venting (AX3251 and smaller)	Class LC-PG60 Size Tested 84" x 31"	60/60	< 0.2
Triple Venting (A313 and smaller)	Class LC-PG60 Size Tested 35" x 71"	60/60	< 0.2

continued on next page

- "Performance Grade (PG)" ratings may vary from tested performance rating for larger or smaller units of a particular type.
- This data is accurate as of May 2021. Due to ongoing product changes, updated test results or new industry standards, this data may change over time.
- Where designated, Andersen products are certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.
- Contact your Andersen supplier for more information.

*Window size tested is an integral twin or triple window, and qualifies the window listed under the same test.

For sound transmission ratings, see page 202.

Performance Grade and Air Infiltration Ratings — 400 Series Windows *(continued)*

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT²
Woodwright® Full-Frame Windows			
Double-Hung (3862 and smaller)	Class LC-PG30 Size Tested 45" x 76"	30/30	< 0.2
Double-Hung (cottage sash, 3862 and smaller)	Class R-20 Size Tested 45" x 76"	20/20	< 0.2
Arch Double-Hung (3862 and smaller)	Class LC-PG30 Size Tested 45" x 76"	30/30	< 0.2
Springline™ Single-Hung (3872 and smaller)	Class LC-PG30 Size Tested 45" x 86"	30/30	< 0.2
Picture (5662 and smaller)	Class LC-PG65 Size Tested 67" x 76"	65/65	< 0.2
Transom (6231 and smaller)	Class LC-PG70 Size Tested 75" x 39"	70/70	< 0.2
Woodwright Full-Frame Windows, PG Upgrade			
Double-Hung (3052 and smaller)	Class LC-PG50 Size Tested 37" x 64"	50/50	< 0.2
Arch Double-Hung (3054)	Class LC-PG50 Size Tested 37" x 64"	50/50	< 0.2
Springline Single-Hung (3057)	Class LC-PG50 Size Tested 37" x 67"	50/50	< 0.2
Woodwright Insert Windows			
Double-Hung (3862 and smaller)	Class R-PG25 Size Tested 45" x 77"	25/25	< 0.2
Double-Hung (cottage sash, 3862 and smaller)	Class R-PG20 Size Tested 45" x 68"	20/20	< 0.2
Picture (5662 and smaller)	Class LC-PG30 Size Tested 68" x 78"	30/30	< 0.2
Transom (6878 and smaller)	Class LC-PG30 Size Tested 68" x 78"	30/35	< 0.2
Tilt-Wash Full-Frame Windows			
Double-Hung (3862 and smaller)	Class LC-PG40 Size Tested 45" x 76"	40/40	< 0.2
Double-Hung (cottage sash, 3856 and smaller)	Class LC-PG40 Size Tested 45" x 68"	40/40	< 0.2
Double-Hung** (3876 and smaller)	Class LC-PG30 Size Tested 45" x 92"	30/35	< 0.2
Picture (5662 and smaller)	Class LC-PG50 Size Tested 67" x 76"	50/65	< 0.2
Transom (6231 and smaller)	Class LC-PG50 Size Tested 75" x 39"	50/50	< 0.2
Tilt-Wash Windows, PG Upgrade			
Double-Hung	Class LC-PG50 Size Tested 45" x 76"	50/50	< 0.2
Tilt-Wash Insert Windows			
Double-Hung (double lock)	Class R-PG20 Size Tested 45" x 92"	20/20	< 0.2
Double-Hung (single lock)	Class R-PG20 Size Tested 35" x 92"	20/20	< 0.2
Double-Hung	Class LC-PG30 Size Tested 45" x 76"	30/30	< 0.2
Gliding Windows (G65 and smaller)	Class LC-PG30 Size Tested 71" x 59"	30/30	< 0.2
Specialty Windows			
Arch (AFFW6080 and smaller)	Class LC-PG50 Size Tested 71" x 105"	50/50	< 0.2
Flexiframe® (12050 and smaller)	Class LC-PG50 Size Tested 144" x 60"	50/50	< 0.2
Springline (SP802 and smaller)	Class LC-PG50 Size Tested 96" x 72"	50/50	< 0.2
Specialty Windows, PG Upgrade			
Arch (tempered glass, AFFW6080 and smaller)	Class LC-PG70 Size Tested 71" x 105"	70/70	< 0.2
Flexiframe (tempered glass, 12050 and smaller)	Class LC-PG70 Size Tested 144" x 60"	70/70	< 0.2
Springline (tempered glass, SP802 and smaller)	Class LC-PG70 Size Tested 96" x 72"	70/70	< 0.2
Complementary Specialty Windows (direct-set, fixed)	Class LC-PG50 Size Tested 125" x 84"	50/50	< 0.2

• "Performance Grade (PG)" ratings may vary from tested performance rating for larger or smaller units of a particular type.
• This data is accurate as of May 2021. Due to ongoing product changes, updated test results or new industry standards, this data may change over time.
• Where designated, Andersen products are certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.
• Contact your Andersen supplier for more information.
**Window heights equal to or greater than 7'-4 $^{9}/_{16}$" (2250) and 7'-8 $^{7}/_{8}$" (2359) have interior and exterior brackets. Interior brackets, located on each side of the meeting rail, must be flipped up for proper product performance.

For sound transmission ratings, see page 202.

Performance Grade and Air Infiltration Ratings — 400 Series Patio Doors

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT²
Frenchwood® Gliding Patio Doors			
Single Stationary	Class LC-PG40 Size Tested 50" x 95"	40/40	< 0.2
Two-Panel	Class LC-PG40 Size Tested 95" x 95"	40/40	< 0.2
Four-Panel (8')	Class LC-PG35 Size Tested 189" x 95"	35/35	< 0.2
Four-Panel (6'-11", 6'-8")	Class LC-PG25 Size Tested 189" x 82"	25/25	< 0.2
Frenchwood Hinged Inswing Patio Doors			
Single Active	Class LC-PG40 Size Tested 107" x 95"	40/40	< 0.2
Two-Panel	Class LC-PG40 Size Tested 71" x 95"	40/40	< 0.2
Three-Panel	Class LC-PG40 Size Tested 107" x 95"	40/40	< 0.2
Frenchwood Patio Door Sidelights	Class LC-PG40 Size Tested 18" x 95"	40/40	< 0.2
Frenchwood Patio Door Transoms	Class LC-PG40 Size Tested 71" x 21"	40/40	< 0.2
Complementary Springline™ and Arch Hinged Inswing Patio Doors			
Single Stationary	Class LC-PG45 Size Tested 37" x 95"	45/45	< 0.2
Single Active†	Class LC-PG45 Size Tested 37" x 95"	45/45	< 0.2
Two-Panel Stationary	Class LC-PG45 Size Tested 75" x 95"	45/45	< 0.2
Two-Panel Active†	Class LC-PG45 Size Tested 75" x 95"	45/45	< 0.2
Complementary Springline and Arch Hinged Outswing Patio Doors			
Single Stationary	Class LC-PG45 Size Tested 37" x 95"	45/45	< 0.2
Single Active†	Class LC-PG45 Size Tested 37" x 95"	45/45	< 0.2
Two-Panel Stationary	Class LC-PG45 Size Tested 75" x 95"	45/45	< 0.2
Two-Panel Active†	Class LC-PG45 Size Tested 75" x 95"	45/45	< 0.2

For sound transmission ratings, see chart below.

- "Performance Grade (PG)" ratings may vary from tested performance rating for larger or smaller units of a particular type.
- This data is accurate as of May 2021. Due to ongoing product changes, updated test results or new industry standards, this data may change over time.
- Where designated, Andersen products are certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.
- Contact your Andersen supplier for more information.

†Tested with standard multi-point hardware.

Sound Transmission Ratings for 400 Series Windows and Patio Doors

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	Test Size	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)
Casement Windows	36" x 72"	26	22
Awning Windows	30" x 60"	26	21
Casement/Awning Picture Windows	60" x 72"	29	25
Woodwright® Double-Hung Windows			
Double-Hung Full-Frame	46" x 77"	28	23
Picture Full-Frame	48" x 48"	28	23
Transom Full-Frame	40" x 46"	28	22
Double-Hung Insert	20" x 60"	26	21
Picture Insert	53" x 78"	30	26
Transom Insert	53" x 78"	30	26
Tilt-Wash Double-Hung Windows			
Double-Hung Full-Frame	46" x 78"	29	24
Picture Full-Frame	68" x 77"	30	25
Transom Full-Frame	-	-	-
Double-Hung Insert	32" x 76"	27	24
Picture Insert	-	-	-
Transom Insert	-	-	-
Gliding Windows	72" x 60"	26	22
Specialty Windows	72" x 60"	30	25

Andersen® Product	Test Size	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)
Complementary Specialty Windows	72" x 60"	30	25
Frenchwood® Gliding Patio Doors			
Single Stationary	50" x 80"	31	26
Two-Panel	72" x 80"	31	26
Four-Panel	-	-	-
Frenchwood Hinged Inswing Patio Doors			
Single Active	36" x 80"	30	26
Two-Panel	72" x 80"	30	26
Three-Panel	-	-	-
Frenchwood Patio Door Sidelights & Transoms			
Sidelight	18" x 82"	32	26
Transom	72" x 22"	29	25
Complementary Springline™ & Arch Hinged Inswing Patio Doors			
Single Active	38" x 90"	30	25
Two-Panel	75" x 90"	30	25
Complementary Springline & Arch Hinged Outswing Patio Doors			
Single-Panel	38" x 90"	31	25
Two-Panel	75" x 90"	31	25

- "Sound Transmission Class (STC)" and "Outdoor/Indoor Transmission Class (OITC)" ratings are for individual units based on independent tests and represent entire unit.
- This data is accurate as of May 2021. Due to ongoing product changes, updated test results or new industry standards, this data may change over time.
- Contact your Andersen supplier for more information.

Center of Glass Performance Data for products with **Low-E4®** Glass

For current performance information, please visit **andersenwindows.com**.

Andersen Product	VT[1]	SC[2]	SHGC[3]	RHG[4]	Fading Tuv[5]	Fading Tdw[6]	%RH @ Center[7]	IGST[8]
400 Series Casement, Awning, and Tilt-Wash Double-Hung Full-Frame Windows	73%	0.48	0.42	100	17%	34%	61%	56°F
400 Series Gliding Window, Half Circle, Circle, and Oval Windows	73%	0.48	0.42	99	17%	34%	61%	56°F
400 Series Casement/Awning Picture and Transom, Woodwright® Double-Hung, Picture and Transom Full-Frame, Woodwright Double-Hung, Picture and Transom Insert, Tilt-Wash Picture and Transom Full-Frame, Tilt-Wash Double-Hung, Picture and Transom Insert Windows	72%	0.47	0.41	98	16%	33%	61%	56°F
400 Series Elliptical Windows, Frenchwood® Hinged Inswing Patio Doors, Frenchwood Patio Door Sidelights, Sidelight Transoms and Transoms	72%	0.48	0.41	98	16%	33%	61%	56°F
400 Series Frenchwood Gliding Patio Doors	71%	0.47	0.41	98	16%	33%	61%	56°F
400 Series Flexiframe®, Arch and Springline™ Windows	70%	0.46	0.40	95	14%	31%	61%	56°F
400 Series Complementary Curved Top Springline and Arch Hinged Inswing Patio Doors	72%	0.48	0.41	310	16%	33%	61%	56°F

Center of Glass Performance Data for products with **Low-E4® SmartSun™** Glass

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	VT[1]	SC[2]	SHGC[3]	RHG[4]	Fading Tuv[5]	Fading Tdw[6]	%RH @ Center[7]	IGST[8]
400 Series Casement, Awning, and Tilt-Wash Double-Hung Full-Frame Windows	66%	0.32	0.28	66	5%	21%	61%	56°F
400 Series Gliding Window, Half Circle, Circle, and Oval Windows	66%	0.31	0.27	66	5%	21%	61%	56°F
400 Series Casement/Awning Picture and Transom, Woodwright® Double-Hung, Picture and Transom Full-Frame, Woodwright Double-Hung, Picture and Transom Insert, Tilt-Wash Picture and Transom Full-Frame, Tilt-Wash Double-Hung, Picture and Transom Insert Windows	65%	0.31	0.27	65	5%	21%	61%	56°F
400 Series Elliptical Windows, Frenchwood® Hinged Inswing Patio Doors, Frenchwood Patio Door Sidelights, Sidelight Transoms and Transoms	65%	0.31	0.27	66	5%	21%	61%	56°F
400 Series Frenchwood Gliding Patio Doors	64%	0.32	0.27	66	5%	21%	61%	56°F
400 Series Flexiframe®, Arch and Springline™ Windows	63%	0.31	0.27	65	4%	20%	61%	56°F
400 Series Complementary Curved Top Springline and Arch Hinged Inswing Patio Doors	65%	0.31	0.27	207	5%	21%	61%	56°F

Center of Glass Performance Data for products with **Low-E4® Sun** Glass

For current performance information, please visit **andersenwindows.com**.

Andersen Product	VT[1]	SC[2]	SHGC[3]	RHG[4]	Fading Tuv[5]	Fading Tdw[6]	%RH @ Center[7]	IGST[8]
400 Series Casement, Awning, and Tilt-Wash Double-Hung Full-Frame Windows	40%	0.30	0.26	62	17%	25%	61%	56°F
400 Series Gliding Window, Half Circle, Circle, and Oval Windows	40%	0.29	0.26	62	17%	25%	59%	55°F
400 Series Casement/Awning Picture and Transom, Woodwright® Double-Hung, Picture and Transom Full-Frame, Woodwright Double-Hung, Picture and Transom Insert, Tilt-Wash Picture and Transom Full-Frame, Tilt-Wash Double-Hung, Picture and Transom Insert Windows	40%	0.29	0.25	61	16%	24%	59%	55°F
400 Series Elliptical Windows, Frenchwood® Hinged Inswing Patio Doors, Frenchwood Patio Door Sidelights, Sidelight Transoms and Transoms	40%	0.29	0.25	61	16%	24%	59%	55°F
400 Series Frenchwood Gliding Patio Doors	39%	0.29	0.25	61	15%	23%	61%	56°F
400 Series Flexiframe®, Arch and Springline™ Windows	37%	0.28	0.24	59	13%	22%	61%	56°F
400 Series Complementary Curved Top Springline and Arch Hinged Inswing Patio Doors	40%	0.29	0.25	193	16%	24%	59%	55°F

• "Low-E4®," "Low-E4® SmartSun™" and "Low-E4® Sun" are Andersen trademarks for "Low-E" glass.
• Based on NFRC testing/simulation conditions using Windows v7.4.6.0 and NFRC validated spectral data. 0°F outside temperature, 70°F inside temperature and a 15 mph wind.
1) Visible Transmittance (VT) measures how much light comes through the glass. The higher the value, from 0 to 1, the more daylight the glass lets in. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.
2) Shading Coefficient (SC) defines the amount of heat gain through the glass compared to a single light of clear $^{1}/_{8}$" (3) glass.
3) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.
4) Relative Heat Gain (RHG) is the amount of heat gain through a glazing incorporating U-Factor and Solar Heat Gain Coefficient.
5) Transmission Ultra-Violet Energy (Tuv). The transmission of short-wave energy in the 300-380 nanometer portion of the solar spectrum. The energy can cause fabric fading.
6) Transmission Damage Function (Tdw). The transmission of UV and visible light energy in the 300-600 nanometer portion of the solar spectrum. The value includes both the UV and visible light energy that can cause fabric fading. This rating has also been referred to as the Krochmann Damage Function. This rating better predicts fading potential than UV transmission alone. The lower the Damage Function rating, the less transmission of short-wave energy through the glass that can potentially cause fabric fading. Fabric type is also a key component of fading potential.
7) Percent relative humidity before condensation occurs at the center of glass, taken using center of glass temperature.
8) Inside glass surface temperatures are taken at the center of glass.
• This data is accurate as of May 2021. Due to ongoing product changes, updated test results or new industry standards, this data may change over time. Contact your Andersen supplier for current performance information or upgrade options.
• Contact your Andersen supplier or visit andersenwindows.com/nfrc for total unit performance data on windows and patio doors (including units with patterned glass, tempered glass and glass with capillary breather tubes).

Andersen® NFRC Certified Total Unit Performance

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Casement Windows AND-N-1	Low-E4®	Without Grilles	0.29	0.32	0.54
		Simulated Divided Light Grilles	0.29	0.29	0.49
		Finelight™ Grilles	0.30	0.29	0.49
		Full Divided Light Grilles	0.29	0.29	0.49
	Low-E4 w/HeatLock®	Without Grilles	0.25	0.31	0.53
		Simulated Divided Light Grilles	0.25	0.28	0.48
		Finelight Grilles	0.26	0.28	0.48
		Full Divided Light Grilles	0.26	0.28	0.48
	Low-E4 Sun	Without Grilles	0.29	0.20	0.30
		Simulated Divided Light Grilles	0.29	0.18	0.27
		Finelight Grilles	0.30	0.18	0.27
		Full Divided Light Grilles	0.30	0.18	0.27
	Low-E4 SmartSun™	Without Grilles	0.28	0.21	0.49
		Simulated Divided Light Grilles	0.28	0.20	0.44
		Finelight Grilles	0.29	0.20	0.44
		Full Divided Light Grilles	0.29	0.20	0.44
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.25	0.21	0.47
		Simulated Divided Light Grilles	0.25	0.19	0.43
		Finelight Grilles	0.25	0.19	0.43
		Full Divided Light Grilles	0.26	0.19	0.43
400 Series Complementary Casement Windows AND-N-107	Low-E4®	Without Grilles	0.30	0.28	0.47
		Simulated Divided Light Grilles	0.30	0.25	0.42
		Finelight™ Grilles	0.31	0.25	0.42
		Full Divided Light Grilles	0.31	0.25	0.42
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.27	0.46
		Simulated Divided Light Grilles	0.27	0.25	0.41
		Finelight Grilles	0.27	0.25	0.41
		Full Divided Light Grilles	0.28	0.25	0.41
	Low-E4 Sun	Without Grilles	0.30	0.17	0.26
		Simulated Divided Light Grilles	0.30	0.16	0.23
		Finelight Grilles	0.31	0.16	0.23
		Full Divided Light Grilles	0.31	0.16	0.23
	Low-E4 SmartSun™	Without Grilles	0.30	0.18	0.42
		Simulated Divided Light Grilles	0.30	0.17	0.38
		Finelight Grilles	0.30	0.17	0.38
		Full Divided Light Grilles	0.30	0.17	0.38
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.18	0.41
		Simulated Divided Light Grilles	0.26	0.17	0.37
		Finelight Grilles	0.26	0.17	0.37
		Full Divided Light Grilles	0.28	0.17	0.37
400 Series Awning Windows AND-N-2	Low-E4®	Without Grilles	0.29	0.31	0.53
		Simulated Divided Light Grilles	0.29	0.29	0.48
		Finelight™ Grilles	0.29	0.29	0.48
		Full Divided Light Grilles	0.29	0.29	0.48
	Low-E4 w/HeatLock®	Without Grilles	0.26	0.30	0.52
		Simulated Divided Light Grilles	0.26	0.28	0.47
		Finelight Grilles	0.26	0.28	0.47
		Full Divided Light Grilles	0.27	0.28	0.47
	Low-E4 Sun	Without Grilles	0.29	0.19	0.29
		Simulated Divided Light Grilles	0.29	0.18	0.27
		Finelight Grilles	0.30	0.18	0.27
		Full Divided Light Grilles	0.30	0.18	0.27
	Low-E4 SmartSun™	Without Grilles	0.28	0.21	0.48
		Simulated Divided Light Grilles	0.28	0.19	0.43
		Finelight Grilles	0.29	0.19	0.43
		Full Divided Light Grilles	0.29	0.19	0.43
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.25	0.20	0.47
		Simulated Divided Light Grilles	0.25	0.19	0.42
		Finelight Grilles	0.25	0.19	0.42
		Full Divided Light Grilles	0.26	0.19	0.42

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Casement/Awning Picture and Transom Windows AND-N-54	Low-E4®	Without Grilles	0.27	0.34	0.60
		Simulated Divided Light Grilles	0.27	0.31	0.53
		Finelight™ Grilles	0.27	0.31	0.53
		Full Divided Light Grilles	0.28	0.31	0.53
	Low-E4 w/HeatLock®	Without Grilles	0.22	0.34	0.58
		Simulated Divided Light Grilles	0.22	0.31	0.52
		Finelight Grilles	0.22	0.31	0.52
		Full Divided Light Grilles	0.25	0.31	0.52
	Low-E4 Sun	Without Grilles	0.27	0.21	0.33
		Simulated Divided Light Grilles	0.27	0.19	0.30
		Finelight Grilles	0.27	0.19	0.30
		Full Divided Light Grilles	0.29	0.19	0.30
	Low-E4 SmartSun™	Without Grilles	0.26	0.23	0.54
		Simulated Divided Light Grilles	0.26	0.21	0.48
		Finelight Grilles	0.26	0.21	0.48
		Full Divided Light Grilles	0.28	0.21	0.48
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.52
		Simulated Divided Light Grilles	0.22	0.20	0.47
		Finelight Grilles	0.22	0.20	0.47
		Full Divided Light Grilles	0.24	0.20	0.47
400 Series Woodwright® Double-Hung Full-Frame Windows AND-N-66	Low-E4®	Without Grilles	0.30	0.30	0.52
		Simulated Divided Light Grilles	0.30	0.27	0.46
		Finelight™ Grilles	0.31	0.27	0.46
		Full Divided Light Grilles	0.31	0.27	0.46
	Low-E4 w/HeatLock®	Without Grilles	0.26	0.30	0.51
		Simulated Divided Light Grilles	0.26	0.27	0.45
		Finelight Grilles	0.27	0.27	0.45
		Full Divided Light Grilles	0.28	0.27	0.45
	Low-E4 Sun	Without Grilles	0.30	0.19	0.28
		Simulated Divided Light Grilles	0.30	0.17	0.25
		Finelight Grilles	0.31	0.17	0.25
		Full Divided Light Grilles	0.31	0.17	0.25
	Low-E4 SmartSun™	Without Grilles	0.29	0.21	0.47
		Simulated Divided Light Grilles	0.29	0.19	0.42
		Finelight Grilles	0.30	0.19	0.42
		Full Divided Light Grilles	0.30	0.19	0.42
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.20	0.46
		Simulated Divided Light Grilles	0.26	0.18	0.41
		Finelight Grilles	0.26	0.18	0.41
		Full Divided Light Grilles	0.27	0.18	0.41
400 Series Woodwright® Picture Full-Frame Windows AND-N-67	Low-E4®	Without Grilles	0.27	0.32	0.55
		Simulated Divided Light Grilles	0.27	0.29	0.49
		Finelight™ Grilles	0.27	0.29	0.49
		Full Divided Light Grilles	0.28	0.29	0.49
	Low-E4 w/HeatLock®	Without Grilles	0.23	0.31	0.54
		Simulated Divided Light Grilles	0.23	0.28	0.48
		Finelight Grilles	0.23	0.28	0.48
		Full Divided Light Grilles	0.25	0.28	0.48
	Low-E4 Sun	Without Grilles	0.27	0.20	0.31
		Simulated Divided Light Grilles	0.27	0.18	0.27
		Finelight Grilles	0.27	0.18	0.27
		Full Divided Light Grilles	0.29	0.18	0.27
	Low-E4 SmartSun™	Without Grilles	0.26	0.21	0.50
		Simulated Divided Light Grilles	0.26	0.19	0.44
		Finelight Grilles	0.26	0.19	0.44
		Full Divided Light Grilles	0.28	0.19	0.44
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.21	0.48
		Simulated Divided Light Grilles	0.22	0.19	0.43
		Finelight Grilles	0.22	0.19	0.43
		Full Divided Light Grilles	0.25	0.19	0.43
400 Series Woodwright® Transom Full-Frame Windows AND-N-68	Low-E4®	Without Grilles	0.27	0.33	0.57
		Simulated Divided Light Grilles	0.27	0.30	0.51
		Finelight™ Grilles	0.27	0.30	0.51
		Full Divided Light Grilles	0.29	0.30	0.51
	Low-E4 w/HeatLock®	Without Grilles	0.23	0.33	0.56
		Simulated Divided Light Grilles	0.23	0.29	0.50
		Finelight Grilles	0.23	0.29	0.50
		Full Divided Light Grilles	0.25	0.29	0.50
	Low-E4 Sun	Without Grilles	0.28	0.20	0.32
		Simulated Divided Light Grilles	0.28	0.18	0.29
		Finelight Grilles	0.28	0.18	0.29
		Full Divided Light Grilles	0.29	0.18	0.29
	Low-E4 SmartSun™	Without Grilles	0.27	0.22	0.52
		Simulated Divided Light Grilles	0.27	0.20	0.46
		Finelight Grilles	0.27	0.20	0.46
		Full Divided Light Grilles	0.28	0.20	0.46
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.50
		Simulated Divided Light Grilles	0.22	0.20	0.45
		Finelight Grilles	0.22	0.20	0.45
		Full Divided Light Grilles	0.25	0.20	0.45

continued on next page

Important information on NFRC Cerfified Total Unit Performance:

• "Low-E4®," "Low-E4® SmartSun™," "Low-E4® Sun" and "HeatLock®" are Andersen trademarks for "Low-E" glass. 1) U-Factor defines the amount of heat loss through the total unit in BTU/hr-ft²-°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass. Use of tempered glass can increase U-Factor ratings. See andersenwindows.com/nfrc for specific performance values. Door values represent tempered glass. 2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 3) Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Light Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.
• NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.
• This data is accurate as of May 2021. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass with capillary breather tubes for high altitudes, etc.

Andersen® NFRC Certified Total Unit Performance *(continued)*

For current performance information, please visit **andersenwindows.com**.

Refer to notes on page 204 for important information on performance data.

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Woodwright® Double-Hung Insert Windows AND-N-74	Low-E4®	Without Grilles	0.30	0.31	0.53
		Simulated Divided Light Grilles	0.30	0.28	0.47
		Finelight™ Grilles	0.30	0.28	0.47
		Full Divided Light Grilles	0.31	0.28	0.47
	Low-E4 w/HeatLock®	Without Grilles	0.26	0.30	0.52
		Simulated Divided Light Grilles	0.26	0.27	0.46
		Finelight Grilles	0.26	0.27	0.46
		Full Divided Light Grilles	0.28	0.27	0.46
	Low-E4 Sun	Without Grilles	0.30	0.19	0.30
		Simulated Divided Light Grilles	0.30	0.17	0.26
		Finelight Grilles	0.30	0.17	0.26
		Full Divided Light Grilles	0.31	0.17	0.26
	Low-E4 SmartSun™	Without Grilles	0.29	0.21	0.48
		Simulated Divided Light Grilles	0.29	0.19	0.43
		Finelight Grilles	0.29	0.19	0.43
		Full Divided Light Grilles	0.30	0.19	0.43
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.20	0.47
		Simulated Divided Light Grilles	0.26	0.18	0.42
		Finelight Grilles	0.26	0.18	0.42
		Full Divided Light Grilles	0.27	0.18	0.42
400 Series Woodwright® Picture Insert Windows AND-N-77	Low-E4®	Without Grilles	0.29	0.32	0.55
		Simulated Divided Light Grilles	0.29	0.29	0.49
		Finelight™ Grilles	0.29	0.29	0.49
		Full Divided Light Grilles	0.30	0.29	0.49
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.32	0.54
		Simulated Divided Light Grilles	0.24	0.29	0.48
		Finelight Grilles	0.24	0.29	0.48
		Full Divided Light Grilles	0.27	0.29	0.48
	Low-E4 Sun	Without Grilles	0.29	0.20	0.31
		Simulated Divided Light Grilles	0.29	0.18	0.27
		Finelight Grilles	0.29	0.18	0.27
		Full Divided Light Grilles	0.30	0.18	0.27
	Low-E4 SmartSun™	Without Grilles	0.28	0.21	0.50
		Simulated Divided Light Grilles	0.28	0.19	0.44
		Finelight Grilles	0.28	0.19	0.44
		Full Divided Light Grilles	0.29	0.19	0.44
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.24	0.21	0.49
		Simulated Divided Light Grilles	0.24	0.19	0.43
		Finelight Grilles	0.24	0.19	0.43
		Full Divided Light Grilles	0.26	0.19	0.43
400 Series Woodwright® Transom Insert Windows AND-N-78	Low-E4®	Without Grilles	0.29	0.33	0.56
		Simulated Divided Light Grilles	0.29	0.30	0.50
		Finelight™ Grilles	0.29	0.30	0.50
		Full Divided Light Grilles	0.30	0.30	0.50
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.32	0.55
		Simulated Divided Light Grilles	0.24	0.29	0.49
		Finelight Grilles	0.24	0.29	0.49
		Full Divided Light Grilles	0.27	0.29	0.49
	Low-E4 Sun	Without Grilles	0.29	0.20	0.31
		Simulated Divided Light Grilles	0.29	0.18	0.28
		Finelight Grilles	0.29	0.18	0.28
		Full Divided Light Grilles	0.31	0.18	0.28
	Low-E4 SmartSun™	Without Grilles	0.28	0.22	0.51
		Simulated Divided Light Grilles	0.28	0.20	0.45
		Finelight Grilles	0.28	0.20	0.45
		Full Divided Light Grilles	0.30	0.20	0.45
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.24	0.21	0.50
		Simulated Divided Light Grilles	0.24	0.19	0.44
		Finelight Grilles	0.24	0.19	0.44
		Full Divided Light Grilles	0.26	0.19	0.44
400 Series Woodwright® Springline™ Single-Hung, Arch Double-Hung Full-Frame Windows AND-N-111	Low-E4®	Without Grilles	0.28	0.30	0.52
		Simulated Divided Light Grilles	0.28	0.27	0.46
		Finelight™ Grilles	0.29	0.27	0.46
		Full Divided Light Grilles	0.29	0.27	0.46
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.30	0.51
		Simulated Divided Light Grilles	0.25	0.27	0.45
		Finelight Grilles	0.25	0.27	0.45
		Full Divided Light Grilles	0.26	0.27	0.45
	Low-E4 Sun	Without Grilles	0.28	0.19	0.29
		Simulated Divided Light Grilles	0.28	0.17	0.26
		Finelight Grilles	0.29	0.17	0.26
		Full Divided Light Grilles	0.29	0.17	0.26
	Low-E4 SmartSun™	Without Grilles	0.28	0.20	0.47
		Simulated Divided Light Grilles	0.27	0.18	0.42
		Finelight Grilles	0.28	0.18	0.42
		Full Divided Light Grilles	0.29	0.18	0.42
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.24	0.20	0.46
		Simulated Divided Light Grilles	0.24	0.18	0.41
		Finelight Grilles	0.25	0.18	0.41
		Full Divided Light Grilles	0.26	0.18	0.41

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Tilt-Wash Double-Hung Full-Frame Windows AND-N-24	Low-E4®	Without Grilles	0.30	0.31	0.53
		Simulated Divided Light Grilles	0.30	0.28	0.47
		Finelight™ Grilles	0.32	0.28	0.47
		Full Divided Light Grilles	0.31	0.28	0.47
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.30	0.52
		Simulated Divided Light Grilles	0.27	0.27	0.46
		Finelight Grilles	0.28	0.27	0.46
		Full Divided Light Grilles	0.28	0.27	0.46
	Low-E4 Sun	Without Grilles	0.31	0.19	0.29
		Simulated Divided Light Grilles	0.31	0.17	0.26
		Finelight Grilles	0.32	0.17	0.26
		Full Divided Light Grilles	0.31	0.17	0.26
	Low-E4 SmartSun™	Without Grilles	0.30	0.21	0.48
		Simulated Divided Light Grilles	0.29	0.19	0.42
		Finelight Grilles	0.31	0.19	0.42
		Full Divided Light Grilles	0.30	0.19	0.42
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.20	0.47
		Simulated Divided Light Grilles	0.26	0.18	0.41
		Finelight Grilles	0.27	0.18	0.41
		Full Divided Light Grilles	0.28	0.18	0.41
400 Series Tilt-Wash Picture Full-Frame Windows AND-N-27	Low-E4®	Without Grilles	0.29	0.33	0.57
		Simulated Divided Light Grilles	0.29	0.30	0.51
		Finelight™ Grilles	0.29	0.30	0.51
		Full Divided Light Grilles	0.31	0.30	0.51
	Low-E4 w/HeatLock®	Without Grilles	0.25	0.32	0.56
		Simulated Divided Light Grilles	0.25	0.29	0.50
		Finelight Grilles	0.25	0.29	0.50
		Full Divided Light Grilles	0.27	0.29	0.50
	Low-E4 Sun	Without Grilles	0.30	0.20	0.32
		Simulated Divided Light Grilles	0.30	0.18	0.28
		Finelight Grilles	0.30	0.18	0.28
		Full Divided Light Grilles	0.31	0.18	0.28
	Low-E4 SmartSun™	Without Grilles	0.29	0.22	0.51
		Simulated Divided Light Grilles	0.29	0.20	0.46
		Finelight Grilles	0.29	0.20	0.46
		Full Divided Light Grilles	0.30	0.20	0.46
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.25	0.21	0.50
		Simulated Divided Light Grilles	0.25	0.19	0.45
		Finelight Grilles	0.25	0.19	0.45
		Full Divided Light Grilles	0.27	0.19	0.45
400 Series Tilt-Wash Transom Full-Frame Windows AND-N-76	Low-E4®	Without Grilles	0.27	0.32	0.55
		Simulated Divided Light Grilles	0.27	0.29	0.49
		Finelight™ Grilles	0.27	0.29	0.49
		Full Divided Light Grilles	0.28	0.29	0.49
	Low-E4 w/HeatLock®	Without Grilles	0.22	0.31	0.54
		Simulated Divided Light Grilles	0.22	0.28	0.48
		Finelight Grilles	0.22	0.28	0.48
		Full Divided Light Grilles	0.25	0.28	0.48
	Low-E4 Sun	Without Grilles	0.27	0.19	0.31
		Simulated Divided Light Grilles	0.27	0.18	0.27
		Finelight Grilles	0.27	0.18	0.27
		Full Divided Light Grilles	0.28	0.18	0.27
	Low-E4 SmartSun™	Without Grilles	0.26	0.21	0.49
		Simulated Divided Light Grilles	0.26	0.19	0.44
		Finelight Grilles	0.26	0.19	0.44
		Full Divided Light Grilles	0.28	0.19	0.44
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.21	0.48
		Simulated Divided Light Grilles	0.22	0.19	0.43
		Finelight Grilles	0.22	0.19	0.43
		Full Divided Light Grilles	0.24	0.19	0.43
Narroline® Double-Hung Window Conversion Kit AND-N-101	Low-E4®	Without Grilles	0.30	0.31	0.53
		Simulated Divided Light Grilles	0.32	0.28	0.47
		Finelight™ Grilles	0.30	0.28	0.47
		Full Divided Light Grilles	0.31	0.28	0.47
	Low-E4 w/HeatLock®	Without Grilles	0.26	0.31	0.52
		Simulated Divided Light Grilles	0.29	0.27	0.46
		Finelight Grilles	0.26	0.27	0.46
		Full Divided Light Grilles	0.28	0.27	0.46
	Low-E4 Sun	Without Grilles	0.30	0.19	0.30
		Simulated Divided Light Grilles	0.32	0.17	0.26
		Finelight Grilles	0.30	0.17	0.26
		Full Divided Light Grilles	0.31	0.17	0.26
	Low-E4 SmartSun™	Without Grilles	0.29	0.21	0.48
		Simulated Divided Light Grilles	0.31	0.19	0.43
		Finelight Grilles	0.29	0.19	0.43
		Full Divided Light Grilles	0.30	0.19	0.43
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.20	0.47
		Simulated Divided Light Grilles	0.28	0.18	0.42
		Finelight Grilles	0.26	0.18	0.42
		Full Divided Light Grilles	0.28	0.18	0.42

• This data is accurate as of May 2021. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time.
Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass for high altitudes, etc.

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Andersen® NFRC Certified Total Unit Performance *(continued)*

For current performance information, please visit **andersenwindows.com**.

Refer to notes on page 207 for important information on performance data.

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Tilt-Wash Double-Hung Insert Windows AND-N-132	Low-E4®	Without Grilles	0.31	0.31	0.53
		Simulated Divided Light Grilles	0.31	0.28	0.47
		Finelight™ Grilles	0.32	0.28	0.47
		Full Divided Light Grilles	0.32	0.28	0.47
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.31	0.52
		Simulated Divided Light Grilles	0.27	0.28	0.46
		Finelight Grilles	0.28	0.28	0.46
		Full Divided Light Grilles	0.29	0.28	0.46
	Low-E4 Sun	Without Grilles	0.31	0.19	0.30
		Simulated Divided Light Grilles	0.31	0.18	0.26
		Finelight Grilles	0.32	0.18	0.26
		Full Divided Light Grilles	0.32	0.18	0.26
	Low-E4 SmartSun™	Without Grilles	0.30	0.21	0.48
		Simulated Divided Light Grilles	0.30	0.19	0.43
		Finelight Grilles	0.31	0.19	0.43
		Full Divided Light Grilles	0.31	0.19	0.43
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.27	0.20	0.47
		Simulated Divided Light Grilles	0.27	0.19	0.42
		Finelight Grilles	0.28	0.19	0.42
		Full Divided Light Grilles	0.29	0.19	0.42
400 Series Tilt-Wash Picture Insert Windows AND-N-133	Low-E4®	Without Grilles	0.29	0.32	0.55
		Simulated Divided Light Grilles	0.29	0.29	0.49
		Finelight™ Grilles	0.29	0.29	0.49
		Full Divided Light Grilles	0.30	0.29	0.49
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.32	0.54
		Simulated Divided Light Grilles	0.24	0.29	0.48
		Finelight Grilles	0.24	0.29	0.48
		Full Divided Light Grilles	0.27	0.29	0.48
	Low-E4 Sun	Without Grilles	0.29	0.20	0.31
		Simulated Divided Light Grilles	0.29	0.18	0.27
		Finelight Grilles	0.29	0.18	0.27
		Full Divided Light Grilles	0.30	0.18	0.27
	Low-E4 SmartSun™	Without Grilles	0.28	0.21	0.50
		Simulated Divided Light Grilles	0.28	0.19	0.44
		Finelight Grilles	0.28	0.19	0.44
		Full Divided Light Grilles	0.29	0.19	0.44
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.24	0.21	0.49
		Simulated Divided Light Grilles	0.24	0.19	0.43
		Finelight Grilles	0.24	0.19	0.43
		Full Divided Light Grilles	0.26	0.19	0.43
400 Series Tilt-Wash Transom Insert Windows AND-N-134	Low-E4®	Without Grilles	0.29	0.33	0.56
		Simulated Divided Light Grilles	0.29	0.30	0.50
		Finelight™ Grilles	0.29	0.30	0.50
		Full Divided Light Grilles	0.30	0.30	0.50
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.32	0.55
		Simulated Divided Light Grilles	0.24	0.29	0.49
		Finelight Grilles	0.24	0.29	0.49
		Full Divided Light Grilles	0.27	0.29	0.49
	Low-E4 Sun	Without Grilles	0.29	0.20	0.31
		Simulated Divided Light Grilles	0.29	0.18	0.28
		Finelight Grilles	0.29	0.18	0.28
		Full Divided Light Grilles	0.31	0.18	0.28
	Low-E4 SmartSun™	Without Grilles	0.28	0.22	0.51
		Simulated Divided Light Grilles	0.28	0.20	0.45
		Finelight Grilles	0.28	0.20	0.45
		Full Divided Light Grilles	0.30	0.20	0.45
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.24	0.21	0.50
		Simulated Divided Light Grilles	0.24	0.19	0.44
		Finelight Grilles	0.24	0.19	0.44
		Full Divided Light Grilles	0.26	0.19	0.44
400 Series Gliding Windows AND-N-19	Low-E4®	Without Grilles	0.30	0.29	0.50
		Simulated Divided Light Grilles	0.30	0.26	0.44
		Finelight™ Grilles	0.30	0.26	0.44
		Full Divided Light Grilles	0.31	0.26	0.44
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.28	0.48
		Simulated Divided Light Grilles	0.27	0.25	0.43
		Finelight Grilles	0.27	0.25	0.43
		Full Divided Light Grilles	0.28	0.25	0.43
	Low-E4 Sun	Without Grilles	0.31	0.18	0.27
		Simulated Divided Light Grilles	0.31	0.16	0.24
		Finelight Grilles	0.31	0.16	0.24
		Full Divided Light Grilles	0.32	0.16	0.24
	Low-E4 SmartSun™	Without Grilles	0.30	0.19	0.45
		Simulated Divided Light Grilles	0.30	0.17	0.39
		Finelight Grilles	0.30	0.17	0.39
		Full Divided Light Grilles	0.31	0.17	0.39
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.19	0.44
		Simulated Divided Light Grilles	0.26	0.17	0.39
		Finelight Grilles	0.26	0.17	0.39
		Full Divided Light Grilles	0.28	0.17	0.39

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Elliptical Windows AND-N-16	Low-E4®	Without Grilles	0.27	0.34	0.59
		Simulated Divided Light Grilles	0.27	0.31	0.53
		Finelight™ Grilles	0.27	0.31	0.53
		Full Divided Light Grilles	0.29	0.31	0.53
	Low-E4 w/HeatLock®	Without Grilles	0.23	0.34	0.58
		Simulated Divided Light Grilles	0.23	0.30	0.52
		Finelight Grilles	0.23	0.30	0.52
		Full Divided Light Grilles	0.25	0.30	0.52
	Low-E4 Sun	Without Grilles	0.28	0.21	0.33
		Simulated Divided Light Grilles	0.28	0.19	0.29
		Finelight Grilles	0.28	0.19	0.29
		Full Divided Light Grilles	0.29	0.19	0.29
	Low-E4 SmartSun™	Without Grilles	0.27	0.23	0.53
		Simulated Divided Light Grilles	0.27	0.21	0.48
		Finelight Grilles	0.27	0.21	0.48
		Full Divided Light Grilles	0.28	0.21	0.48
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.52
		Simulated Divided Light Grilles	0.22	0.20	0.46
		Finelight Grilles	0.22	0.20	0.46
		Full Divided Light Grilles	0.25	0.20	0.46
400 Series Half Circle Windows Casement AND-N-147	Low-E4®	Without Grilles	0.27	0.35	0.60
		Simulated Divided Light Grilles	0.27	0.32	0.53
		Finelight™ Grilles	0.27	0.31	0.53
		Full Divided Light Grilles	0.28	0.31	0.53
	Low-E4 w/HeatLock®	Without Grilles	0.22	0.34	0.58
		Simulated Divided Light Grilles	0.22	0.31	0.52
		Finelight Grilles	0.22	0.31	0.52
		Full Divided Light Grilles	0.25	0.31	0.52
	Low-E4 Sun	Without Grilles	0.27	0.21	0.33
		Simulated Divided Light Grilles	0.27	0.19	0.30
		Finelight Grilles	0.27	0.19	0.30
		Full Divided Light Grilles	0.29	0.19	0.30
	Low-E4 SmartSun™	Without Grilles	0.26	0.23	0.54
		Simulated Divided Light Grilles	0.26	0.21	0.48
		Finelight Grilles	0.26	0.21	0.48
		Full Divided Light Grilles	0.27	0.21	0.48
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.52
		Simulated Divided Light Grilles	0.22	0.20	0.47
		Finelight Grilles	0.22	0.20	0.47
		Full Divided Light Grilles	0.24	0.20	0.47
400 Series Circle and Oval Windows AND-N-148	Low-E4®	Without Grilles	0.27	0.35	0.60
		Simulated Divided Light Grilles	0.27	0.31	0.53
		Finelight™ Grilles	0.27	0.31	0.53
		Full Divided Light Grilles	0.28	0.31	0.53
	Low-E4 w/HeatLock®	Without Grilles	0.22	0.34	0.58
		Simulated Divided Light Grilles	0.22	0.31	0.52
		Finelight Grilles	0.22	0.31	0.52
		Full Divided Light Grilles	0.25	0.31	0.52
	Low-E4 Sun	Without Grilles	0.27	0.21	0.33
		Simulated Divided Light Grilles	0.27	0.19	0.30
		Finelight Grilles	0.27	0.19	0.30
		Full Divided Light Grilles	0.29	0.19	0.30
	Low-E4 SmartSun™	Without Grilles	0.26	0.23	0.54
		Simulated Divided Light Grilles	0.26	0.21	0.48
		Finelight Grilles	0.26	0.21	0.48
		Full Divided Light Grilles	0.28	0.21	0.48
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.52
		Simulated Divided Light Grilles	0.22	0.20	0.47
		Finelight Grilles	0.22	0.20	0.47
		Full Divided Light Grilles	0.24	0.20	0.47
400 Series Arch Windows AND-N-18	Low-E4®	Without Grilles	0.27	0.33	0.58
		Simulated Divided Light Grilles	0.27	0.30	0.52
		Finelight™ Grilles	0.27	0.30	0.52
		Full Divided Light Grilles	0.28	0.30	0.52
	Low-E4 w/HeatLock®	Without Grilles	0.23	0.32	0.56
		Simulated Divided Light Grilles	0.23	0.29	0.50
		Finelight Grilles	0.23	0.29	0.50
		Full Divided Light Grilles	0.25	0.29	0.50
	Low-E4 Sun	Without Grilles	0.27	0.20	0.31
		Simulated Divided Light Grilles	0.27	0.18	0.28
		Finelight Grilles	0.27	0.18	0.28
		Full Divided Light Grilles	0.29	0.18	0.28
	Low-E4 SmartSun™	Without Grilles	0.26	0.23	0.52
		Simulated Divided Light Grilles	0.26	0.21	0.46
		Finelight Grilles	0.26	0.21	0.46
		Full Divided Light Grilles	0.28	0.21	0.46
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.51
		Simulated Divided Light Grilles	0.22	0.20	0.45
		Finelight Grilles	0.22	0.20	0.45
		Full Divided Light Grilles	0.24	0.20	0.45

• This data is accurate as of May 2021. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time.

Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass for high altitudes, etc.

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Andersen® NFRC Certified Total Unit Performance *(continued)*

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Springline™ Windows AND-N-25	Low-E4®	Without Grilles	0.28	0.33	0.57
		Simulated Divided Light Grilles	0.28	0.30	0.51
		Finelight™ Grilles	0.28	0.30	0.51
		Full Divided Light Grilles	0.29	0.30	0.51
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.32	0.56
		Simulated Divided Light Grilles	0.24	0.29	0.50
		Finelight Grilles	0.24	0.29	0.50
		Full Divided Light Grilles	0.26	0.29	0.50
	Low-E4 Sun	Without Grilles	0.28	0.20	0.31
		Simulated Divided Light Grilles	0.28	0.18	0.28
		Finelight Grilles	0.28	0.18	0.28
		Full Divided Light Grilles	0.30	0.18	0.28
	Low-E4 SmartSun™	Without Grilles	0.27	0.23	0.52
		Simulated Divided Light Grilles	0.27	0.21	0.46
		Finelight Grilles	0.27	0.21	0.46
		Full Divided Light Grilles	0.29	0.21	0.46
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.23	0.22	0.50
		Simulated Divided Light Grilles	0.23	0.20	0.45
		Finelight Grilles	0.23	0.20	0.45
		Full Divided Light Grilles	0.25	0.20	0.45
400 Series Flexiframe® Windows AND-N-17	Low-E4®	Without Grilles	0.27	0.33	0.58
		Simulated Divided Light Grilles	0.27	0.30	0.52
		Finelight™ Grilles	0.27	0.30	0.52
		Full Divided Light Grilles	0.28	0.30	0.52
	Low-E4 w/HeatLock®	Without Grilles	0.22	0.32	0.56
		Simulated Divided Light Grilles	0.22	0.29	0.50
		Finelight Grilles	0.22	0.29	0.50
		Full Divided Light Grilles	0.25	0.29	0.50
	Low-E4 Sun	Without Grilles	0.27	0.20	0.31
		Simulated Divided Light Grilles	0.27	0.18	0.28
		Finelight Grilles	0.27	0.18	0.28
		Full Divided Light Grilles	0.28	0.18	0.28
	Low-E4 SmartSun™	Without Grilles	0.26	0.23	0.52
		Simulated Divided Light Grilles	0.26	0.21	0.46
		Finelight Grilles	0.26	0.21	0.46
		Full Divided Light Grilles	0.27	0.21	0.46
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.22	0.22	0.51
		Simulated Divided Light Grilles	0.22	0.20	0.45
		Finelight Grilles	0.22	0.20	0.45
		Full Divided Light Grilles	0.24	0.20	0.45
400 Series Complementary Specialty Windows 400 Series Casement, Awning and Picture Windows AND-N-105	Low-E4®	Without Grilles	0.29	0.35	0.61
		Simulated Divided Light Grilles	0.29	0.32	0.55
		Finelight™ Grilles	0.29	0.32	0.55
		Full Divided Light Grilles	0.30	0.32	0.55
	Low-E4 w/HeatLock®	Without Grilles	0.24	0.35	0.60
		Simulated Divided Light Grilles	0.24	0.31	0.54
		Finelight Grilles	0.24	0.31	0.54
		Full Divided Light Grilles	0.26	0.31	0.54
	Low-E4 Sun	Without Grilles	0.29	0.22	0.34
		Simulated Divided Light Grilles	0.29	0.20	0.30
		Finelight Grilles	0.29	0.20	0.30
		Full Divided Light Grilles	0.30	0.20	0.30
	Low-E4 SmartSun™	Without Grilles	0.28	0.23	0.55
		Simulated Divided Light Grilles	0.28	0.21	0.49
		Finelight Grilles	0.28	0.21	0.49
		Full Divided Light Grilles	0.29	0.21	0.49
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.24	0.23	0.54
		Simulated Divided Light Grilles	0.24	0.21	0.48
		Finelight Grilles	0.24	0.21	0.48
		Full Divided Light Grilles	0.27	0.21	0.48
400 Series Complementary Specialty Windows 400 Series Double-Hung Windows and Patio Doors AND-N-105	Low-E4®	Without Grilles	0.28	0.37	0.64
		Simulated Divided Light Grilles	0.28	0.33	0.57
		Finelight™ Grilles	0.28	0.33	0.57
		Full Divided Light Grilles	0.29	0.33	0.57
	Low-E4 w/HeatLock®	Without Grilles	0.23	0.36	0.62
		Simulated Divided Light Grilles	0.23	0.33	0.56
		Finelight Grilles	0.23	0.33	0.56
		Full Divided Light Grilles	0.25	0.33	0.56
	Low-E4 Sun	Without Grilles	0.29	0.22	0.35
		Simulated Divided Light Grilles	0.29	0.20	0.32
		Finelight Grilles	0.29	0.20	0.32
		Full Divided Light Grilles	0.30	0.20	0.32
	Low-E4 SmartSun™	Without Grilles	0.27	0.24	0.57
		Simulated Divided Light Grilles	0.27	0.22	0.51
		Finelight Grilles	0.27	0.22	0.51
		Full Divided Light Grilles	0.28	0.22	0.51
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.23	0.24	0.56
		Simulated Divided Light Grilles	0.23	0.22	0.50
		Finelight Grilles	0.23	0.22	0.50
		Full Divided Light Grilles	0.25	0.22	0.50

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Frenchwood® Gliding Patio Doors Two-Panel AND-N-6	Low-E4®	Without Grilles	0.30	0.26	0.45
		Blinds-Between-the-Glass*	0.36	0.24	0.40
		Simulated Divided Light Grilles	0.30	0.23	0.38
		Finelight™ Grilles	0.30	0.23	0.38
		Full Divided Light Grilles	0.32	0.23	0.38
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.26	0.44
		Simulated Divided Light Grilles	0.27	0.23	0.37
		Finelight Grilles	0.27	0.23	0.37
		Full Divided Light Grilles	0.29	0.23	0.37
	Low-E4 Sun	Without Grilles	0.31	0.16	0.25
		Simulated Divided Light Grilles	0.31	0.14	0.21
		Finelight Grilles	0.31	0.14	0.21
		Full Divided Light Grilles	0.32	0.14	0.21
	Low-E4 SmartSun™	Without Grilles	0.30	0.18	0.40
		Simulated Divided Light Grilles	0.30	0.16	0.35
		Finelight Grilles	0.30	0.16	0.35
		Full Divided Light Grilles	0.31	0.16	0.35
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.27	0.17	0.39
		Simulated Divided Light Grilles	0.27	0.15	0.34
		Finelight Grilles	0.27	0.15	0.34
		Full Divided Light Grilles	0.29	0.15	0.34
400 Series Frenchwood® Hinged Inswing Patio Doors AND-N-10	Low-E4®	Without Grilles	0.30	0.24	0.41
		Blinds-Between-the-Glass*	0.34	0.24	0.41
		Simulated Divided Light Grilles	0.30	0.21	0.35
		Finelight™ Grilles	0.30	0.21	0.35
		Full Divided Light Grilles	0.32	0.21	0.35
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.24	0.40
		Simulated Divided Light Grilles	0.27	0.21	0.34
		Finelight Grilles	0.27	0.21	0.34
		Full Divided Light Grilles	0.29	0.21	0.34
	Low-E4 Sun	Without Grilles	0.31	0.15	0.23
		Simulated Divided Light Grilles	0.31	0.13	0.19
		Finelight Grilles	0.31	0.13	0.19
		Full Divided Light Grilles	0.32	0.13	0.19
	Low-E4 SmartSun™	Without Grilles	0.30	0.16	0.37
		Simulated Divided Light Grilles	0.30	0.14	0.31
		Finelight Grilles	0.30	0.14	0.31
		Full Divided Light Grilles	0.31	0.14	0.31
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.27	0.16	0.36
		Simulated Divided Light Grilles	0.27	0.14	0.31
		Finelight Grilles	0.27	0.14	0.31
		Full Divided Light Grilles	0.29	0.14	0.31
400 Series Frenchwood® Patio Door Sidelights AND-N-64	Low-E4®	Without Grilles	0.30	0.22	0.37
		Simulated Divided Light Grilles	0.30	0.20	0.32
		Finelight™ Grilles	0.30	0.20	0.32
		Full Divided Light Grilles	0.31	0.20	0.32
	Low-E4 w/HeatLock®	Without Grilles	0.27	0.22	0.36
		Simulated Divided Light Grilles	0.27	0.20	0.32
		Finelight Grilles	0.27	0.20	0.32
		Full Divided Light Grilles	0.29	0.20	0.32
	Low-E4 Sun	Without Grilles	0.30	0.14	0.20
		Simulated Divided Light Grilles	0.30	0.13	0.18
		Finelight Grilles	0.30	0.13	0.18
		Full Divided Light Grilles	0.31	0.13	0.18
	Low-E4 SmartSun™	Without Grilles	0.29	0.15	0.33
		Simulated Divided Light Grilles	0.29	0.14	0.29
		Finelight Grilles	0.29	0.14	0.29
		Full Divided Light Grilles	0.30	0.14	0.29
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.27	0.15	0.32
		Simulated Divided Light Grilles	0.27	0.13	0.28
		Finelight Grilles	0.27	0.13	0.28
		Full Divided Light Grilles	0.28	0.13	0.28

continued on next page

Important information on NFRC Cerfified Total Unit Performance:

• "Low-E4®" "Low-E4® SmartSun™" "Low-E4® Sun" and "HeatLock®" are Andersen trademarks for "Low-E" glass. 1) U-Factor defines the amount of heat loss through the total unit in BTU/hr-ft²-°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass. Use of tempered glass can increase U-Factor ratings. See andersenwindows.com/nfrc for specific performance values. Door values represent tempered glass. 2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 3) Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Light Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

• NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

• This data is accurate as of May 2021. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass with capillary breather tubes for high altitudes, etc.

*Available for select patio door sizes. Data based on blinds in full open position.

Andersen® NFRC Certified Total Unit Performance *(continued)*

For current performance information, please visit **andersenwindows.com**.

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
400 Series Frenchwood® Patio Door Transoms AND-N-65	Low-E4®	Without Grilles	0.29	0.24	0.40
		Simulated Divided Light Grilles	0.29	0.21	0.35
		Finelight™ Grilles	0.29	0.21	0.35
		Full Divided Light Grilles	0.30	0.21	0.35
	Low-E4 w/HeatLock®	Without Grilles	0.26	0.23	0.39
		Simulated Divided Light Grilles	0.26	0.21	0.34
		Finelight Grilles	0.26	0.21	0.34
		Full Divided Light Grilles	0.28	0.21	0.34
	Low-E4 Sun	Without Grilles	0.29	0.15	0.22
		Simulated Divided Light Grilles	0.29	0.13	0.20
		Finelight Grilles	0.29	0.13	0.20
		Full Divided Light Grilles	0.30	0.13	0.20
	Low-E4 SmartSun™	Without Grilles	0.29	0.16	0.36
		Simulated Divided Light Grilles	0.29	0.14	0.32
		Finelight Grilles	0.29	0.14	0.32
		Full Divided Light Grilles	0.29	0.14	0.32
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.26	0.16	0.35
		Simulated Divided Light Grilles	0.26	0.14	0.31
		Finelight Grilles	0.26	0.14	0.31
		Full Divided Light Grilles	0.27	0.14	0.31
400 Series Complementary Springline™ and Arch Hinged Inswing Patio Doors AND-N-127	Low-E4®	Without Grilles	0.32	0.24	0.41
		Simulated Divided Light Grilles	0.32	0.21	0.35
		Finelight™ Grilles	0.32	0.21	0.35
		Full Divided Light Grilles	0.33	0.21	0.35
	Low-E4 w/HeatLock®	Without Grilles	0.29	0.24	0.40
		Simulated Divided Light Grilles	0.29	0.21	0.34
		Finelight Grilles	0.29	0.21	0.34
		Full Divided Light Grilles	0.30	0.21	0.34
	Low-E4 Sun	Without Grilles	0.33	0.15	0.23
		Simulated Divided Light Grilles	0.33	0.13	0.20
		Finelight Grilles	0.33	0.13	0.20
		Full Divided Light Grilles	0.34	0.13	0.20
	Low-E4 SmartSun™	Without Grilles	0.32	0.16	0.37
		Simulated Divided Light Grilles	0.32	0.14	0.32
		Finelight Grilles	0.32	0.14	0.32
		Full Divided Light Grilles	0.33	0.14	0.32
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.29	0.16	0.36
		Simulated Divided Light Grilles	0.29	0.14	0.31
		Finelight Grilles	0.29	0.14	0.31
		Full Divided Light Grilles	0.31	0.14	0.31
400 Series Complementary Springline™ and Arch Hinged Outswing Patio Doors AND-N-127	Low-E4®	Without Grilles	0.33	0.25	0.41
		Simulated Divided Light Grilles	0.33	0.22	0.35
		Finelight™ Grilles	0.33	0.22	0.35
		Full Divided Light Grilles	0.34	0.22	0.35
	Low-E4 w/HeatLock®	Without Grilles	0.30	0.24	0.40
		Simulated Divided Light Grilles	0.30	0.21	0.34
		Finelight Grilles	0.30	0.21	0.34
		Full Divided Light Grilles	0.32	0.21	0.34
	Low-E4 Sun	Without Grilles	0.33	0.16	0.23
		Simulated Divided Light Grilles	0.33	0.14	0.20
		Finelight Grilles	0.33	0.14	0.20
		Full Divided Light Grilles	0.34	0.14	0.20
	Low-E4 SmartSun™	Without Grilles	0.33	0.17	0.37
		Simulated Divided Light Grilles	0.33	0.15	0.32
		Finelight Grilles	0.33	0.15	0.32
		Full Divided Light Grilles	0.34	0.15	0.32
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.28	0.16	0.36
		Simulated Divided Light Grilles	0.30	0.14	0.31
		Finelight Grilles	0.30	0.14	0.31
		Full Divided Light Grilles	0.31	0.14	0.31
400 Series Complementary Arch Patio Door Sidelights AND-N-131	Low-E4®	Without Grilles	0.32	0.23	0.39
		Simulated Divided Light Grilles	0.32	0.21	0.34
		Finelight™ Grilles	0.32	0.21	0.34
		Full Divided Light Grilles	0.33	0.21	0.34
	Low-E4 w/HeatLock®	Without Grilles	0.29	0.23	0.38
		Simulated Divided Light Grilles	0.29	0.21	0.34
		Finelight Grilles	0.29	0.21	0.34
		Full Divided Light Grilles	0.30	0.21	0.34
	Low-E4 Sun	Without Grilles	0.33	0.15	0.22
		Simulated Divided Light Grilles	0.33	0.13	0.19
		Finelight Grilles	0.33	0.13	0.19
		Full Divided Light Grilles	0.34	0.13	0.19
	Low-E4 SmartSun™	Without Grilles	0.32	0.16	0.35
		Simulated Divided Light Grilles	0.32	0.14	0.31
		Finelight Grilles	0.32	0.14	0.31
		Full Divided Light Grilles	0.33	0.14	0.31
	Low-E4 SmartSun w/HeatLock	Without Grilles	0.29	0.15	0.34
		Simulated Divided Light Grilles	0.29	0.14	0.30
		Finelight Grilles	0.29	0.14	0.30
		Full Divided Light Grilles	0.30	0.14	0.30

Andersen® Products Total Unit Recycled Content Percentages

For current product certificates, please visit **andersenwindows.com**.

Andersen® Product	% Pre-Consumer Recycled Content
400 Series Windows	
Casement Window	4%
Awning Window	4%
Casement/Awning Picture Window	8%
Complementary Casement Window	5%
Woodwright® Double-Hung Full-Frame Window	13%
Woodwright Picture Full-Frame Window	14%
Woodwright Transom Full-Frame Window	13%
Woodwright Double-Hung Insert Window	9%
Woodwright Picture Insert Window	11%
Woodwright Transom Insert Window	10%
Woodwright Arch Double-Hung Window	9%
Woodwright Springline™ Single-Hung Window	8%
Tilt-Wash Double-Hung Full-Frame Window	6%
Tilt-Wash Picture Full-Frame Window	10%
Tilt-Wash Double-Hung Insert Window	6%
Gliding Window	4%
Specialty Window (all, based on Flexiframe® windows)	8%
Complementary Specialty Window (rectangular)	7%
400 Series Patio Doors	
Frenchwood® Gliding Patio Door	4%
Frenchwood Hinged Inswing Patio Door	4%
Frenchwood Patio Door Sidelight	3%
Frenchwood Patio Door Transom	3%
Complementary Springline Hinged Inswing Patio Door	3%
Complementary Arch Hinged Inswing Patio Door	3%

• "% Pre-Consumer Recycled Content" is calculated to meet ISO 14021 standards based on NFRC sizing. Actual recycled content dependent on product size.

• "Low-E4®," "Low-E4® SmartSun™," "Low-E4® Sun" and "HeatLock®" are Andersen trademarks for "Low-E" glass. 1) U-Factor defines the amount of heat loss through the total unit in BTU/hr-ft²-°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass. Use of tempered glass can increase U-Factor ratings. See andersenwindows.com/nfrc for specific performance values. Door values represent tempered glass. 2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 3) Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Light Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

• NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

• This data is accurate as of May 2021. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass with capillary breather tubes for high altitudes, etc.

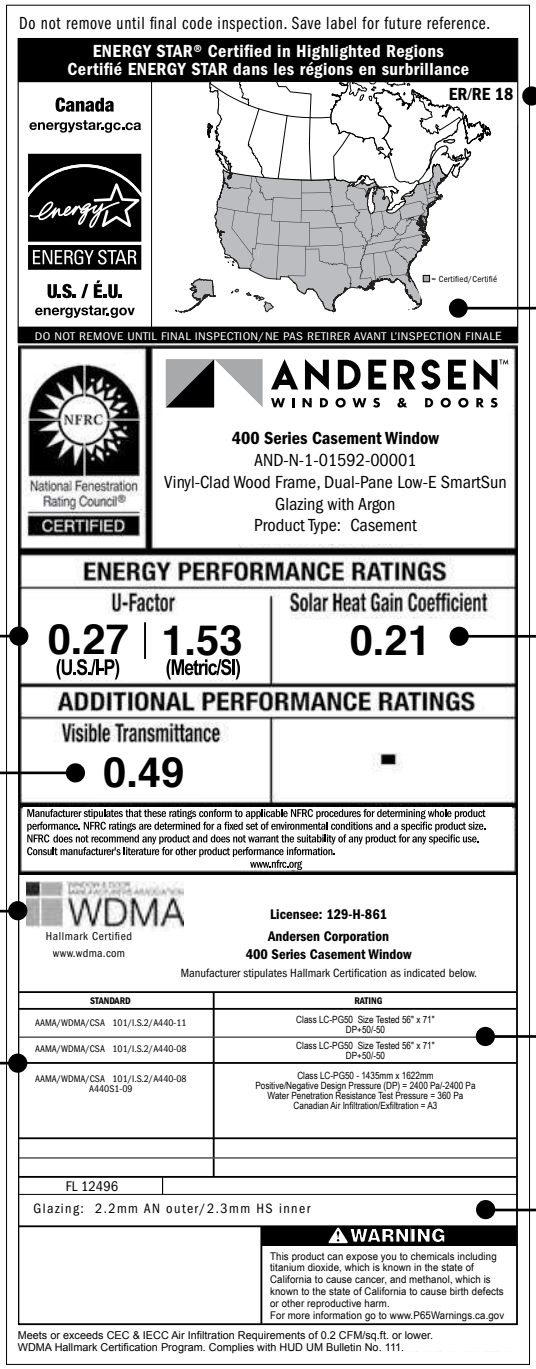
About the NFRC

The National Fenestration Rating Council (NFRC) is a nonpartisan coalition of professionals whose purpose is to provide fair, accurate and credible energy performance ratings for fenestration products. NFRC's membership includes manufacturers, suppliers, designers, specifiers, utility companies, government agencies and other building industry representatives.

Andersen Corporation is a founding member of the NFRC and continues to support its work by providing fair, accurate and credible energy performance ratings to consumers and the building industry. If you have any questions about the NFRC, its program or energy performance ratings, write them at: NFRC, 6305 Ivy Lane, Suite 140, Greenbelt, MD 20770. Phone: 301-589-1776 Website: **www.nfrc.org**

About the Label

Look for this certification label on every window and patio door you buy. The NFRC section was designed by the National Fenestration Rating Council to provide accurate information that helps you promote the energy efficiency of the homes you build. These ratings allow you — and your customers — to measure and compare the energy performance of similar products. If the product does not have this label, the NFRC has not verified its claims.



Energy Rating (ER) represents "Energy Rating" and is a rating used in Canada for product comparison purposes (the higher the ER number, the more energy saved during the heating season).

ENERGY STAR® Climate Zone Map is based on U-Factor and solar heat gain coefficient criteria for specific ENERGY STAR climate zones within the United States and Canada. The shading of the map shows which climate zone(s) a particular product and glass type is ENERGY STAR certified in.

U-Factor indicates how well a product prevents heat from escaping (the lower the number, the better).

Solar Heat Gain Coefficient measures how well a product blocks heat caused by sunlight (the lower the number, the more it will help reduce the use of air conditioning and as a result, reduce electrical bills and energy use).

Visible Transmittance refers to how much visible light comes through a product (the closer to 1.0, the more light is transmitted).

WDMA Hallmark Certification verifies the performance ratings of this product were tested by an independent testing laboratory and verified by a third-party certification program.

Test Standards

Performance Grade (PG) and **Design Pressure (DP) Ratings**

Glass Construction used with this product type.

• NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.
• "ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.

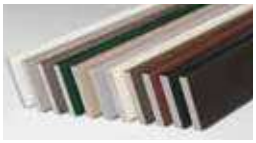
INSTALLATION ACCESSORIES

Optional accessories available for the installation of Andersen® windows and patio doors. Keep instruction guidelines and safety information in mind when considering the installation and use of any Andersen product. For questions, contact your local Andersen supplier.

COIL STOCK

Andersen aluminum coil stock can be ordered to match any of our 11 exterior trim colors. Made from .018" thick aluminum, coil stock is available in 24" (610) x 50' (15240) rolls. Color-matched 1 ¼" (32)-long stainless steel trim nails are also available and can be ordered in 1 lb/454 kg boxes.

FIBREX® TRIM BOARD



Available in the same 11 colors as our exterior trim, this solid cellular Fibrex trim board can be cut or ripped to size, and be fastened using nails or screws. 3 ½" (89) x ¾" (19) thick in 10' (3048) lengths.

AUXILIARY CASING

Made of cellular Fibrex material. Available in white, canvas, Sandtone, Terratone, forest green, dark bronze and black. 1 3/16" (30) x 1 3/16" (30) in 150" (3810) lengths.

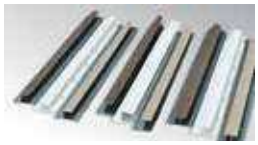
DRIP CAP

Included on 400 Series windows with vertical (ribbon) joins. Heavy 24-gauge corrosion-resistant aluminum construction. Available in 6' (1829), 10' (3048) and 12'–7 ½" (3848) lengths, and in any of our 11 exterior trim colors.

EXTENSION JAMBS

Available for most Andersen products. See product sections for details.

VINYL CHANNELS



Rigid vinyl "J" and "h" channels are available in white, Sandtone and Terratone. "J" and "h" channels are ½" (13) deep and come in 150" (3810) lengths. "J" channels are ¾" (19) wide and "h" channels are 1" (25) wide. "H" channels are ¾" (19) deep and come in 84" (2134) and 150" (3810) lengths. White "H" channels are ¾" (19) wide. Sandtone and Terratone "H" channels are 1" (25) wide.

COLOR-MATCHED SEALANT

Color-matched sealant is available in Andersen exterior colors. This high-quality sealant can be used during the installation of all Andersen products.

INSTALLATION INFORMATION

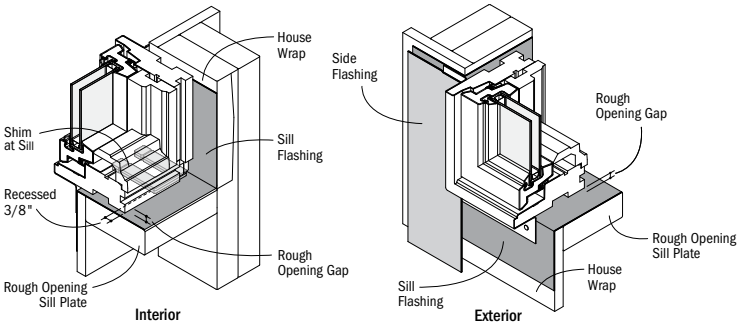
ROUGH OPENINGS

The purpose of a rough opening is to allow for proper spacing between the window or patio door unit and the building structure. The space is required for locating, leveling and squaring the unit during installation and to provide an area for insulation. A rough opening that is incorrectly sized may affect unit operation and may not allow for adequate fastening of the unit to the building structure. Andersen rough opening dimensions are provided as a guideline to help determine the minimum amount of space needed between the window or patio door and the building structure. See appropriate product sections for rough opening guidelines for each product.

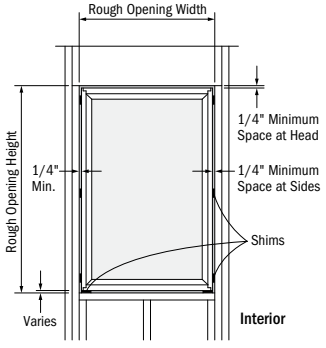
Keep in mind that rough opening dimensions may need to be altered from published guidelines, depending on installation methods, joining methods, replacement methods, etc. For example, flashing systems can reduce the amount of available rough opening space and should be factored in when calculating rough opening dimensions. The use of support or joining materials will encroach on the rough opening and may require additional rough opening space between the unit and the building structure, depending on the thickness of the flashing system and joining materials used. To facilitate drainage, the rough opening sill plate should never slope toward the interior. For challenging environments and other information, refer to EEBA's (Energy and Environmental Building Association) Water Management Guide (www.eeba.org).

IMPORTANCE OF PROPER INSTALLATION

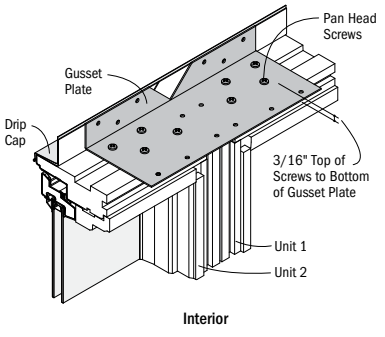
Proper installation and maintenance of Andersen products is essential to attain optimum performance and operation. Installation instructions that provide guidelines for proper installation are typically provided with Andersen products. They are also available by visiting andersenwindows.com. Remember that every installation is different, and Andersen strongly recommends consultation with the local supplier or an experienced contractor, architect or structural engineer prior to the installation of any Andersen product. The method of attachment for Andersen products, fastener selection and code compliance is the responsibility of the architect, building owner, contractor, installer and/or consumer. For more complete installation details, visit andersenwindows.com or see your Andersen supplier.



Example of window sill flashing in a membrane drainage system.



Example of window unit installed using Andersen published minimum rough opening dimensions.



Example of two units joined together with the use of gusset plates and pan head screws that will require additional rough opening space.

GENERAL NOTES

When ordering, make certain you specify, then verify, the exact product, unit dimensions, configuration requirements, color and options you desire on each window or patio door. Before installing the product, we suggest you verify that it includes the features and options you ordered. Visit andersenwindows.com for product installation and joining guides. Printing limitations prohibit exact color duplication of products. View actual samples for building specifications. Andersen Corporation reserves the right to change details, specifications or sizes without notice. The customer assumes all risk of alterations made to Andersen products.

Dimensions in parentheses are in millimeters.

CODES

Appropriate selection of Andersen products that conform to all applicable laws, ordinances, building codes and safety requirements is the sole responsibility of the architect, designer, building owner and/or contractor. Check with your local building code officials for specific information. Unit wind load, performance grade and energy performance information is provided on pages 181-209. For up-to-date product performance information, visit **andersenwindows.com**. The performance of any building system depends on the design and construction of the building system in its entirety, which should meet building code requirements, as well as address product and material limitations, and local environment and climate.

DRIP CAPS

Drip caps are a specific type of flashing or trim used at the head of a window or door to direct water from the drainage plane out beyond the face of the unit.

FLASHING

Flashing is an important element in a building's water management system. It is used to shed and direct water to the building exterior or to the drainage plane. Flashing materials are typically applied starting from the bottom and working upward, with each successive layer overlapping the previous one in shingle fashion. Water infiltration problems in any type of building can be reduced by properly flashing and/or sealing around all building openings, including windows and doors.

USE OF SHIMS

Shims are used along the side jambs of windows and doors to center the unit in the rough opening and to position it plumb, level and square. In addition, shims are always required for windows under the sill at the side jambs to lift it off the rough opening sill plate. Shims also enable a straight frame for proper weatherstrip contact and unit operation. If not placed properly, unit performance and operation can be affected. Use waterproof shims capable of supporting the weight of the product. When using tapered shims, use them in pairs with the tapers opposing each other to avoid tilting the unit or twisting (rotating) of the jambs.

SEALANTS

Sealants are elastic materials used to block the passage of water and/or air while allowing movement between the two sides of the joint. A sealant should bond tightly, and be able to expand and contract to accommodate joint movement without cracking or tearing away from the substrate. Surfaces must be clean, dry and sound for adequate sealant adhesion. Choose a sealant that is compatible with, and that will adhere adequately to, all building materials used in the window and patio door area. Proper sealant joint design is based upon the expected movement of adjacent materials and the movement capability of the sealant. A general rule of thumb is that the depth of the sealant joint should be equal to half the width (D = W/2), but generally not less than ¼" (6) or more than ½" (13). Foam-plastic backer rod can be used to limit the depth of the sealant joint, to provide a backstop for tooling the sealant without damage to the bond. It also acts as a bond breaker to help minimize stress in the sealant. Sealants should be maintained seasonally, and repaired and/or replaced as needed.

GENERAL INSTALLATION GUIDELINES

1. Read and follow the installation guide in its entirety.
2. Decide whether you are integrating to a surface barrier or a membrane drainage system before installing the product. The appropriate method for your installation may vary based on building design, application and industry practices.
3. Make certain the drainage plane is continuous (proper overlaps to shed water, taped seams, etc.).
4. Andersen products should be installed only in the vertical position.
5. Check the rough opening to make sure it is sized properly, is square and is level.
6. Install the window or door plumb.
7. Install the window or door level.
8. Install the window or door square. Diagonal measurements should be within ⅛" (3).
9. Follow installation instructions to properly locate shims and to make sure that units are plumb, level and square. Shims are always required under the window jambs at the sill and along the jambs on the sides for windows and doors.
10. Check for squareness of unit before final anchoring of the product into the wall.
11. Anchor unit as directed with appropriate fasteners.
12. Integrate the window and door into the drainage plane of the wall using quality flashing and sealing materials. All flashing materials should be properly overlapped to shed water.
13. Allow ¼" (6) minimum space for a sealant joint around perimeter of unit between exterior finish materials and unit.
14. Insulate and seal the interior cavity between the window or door frame and the rough opening.
15. Check operation before application of interior trim.
16. Stain and/or seal all unfinished wood surfaces promptly to minimize moisture absorption.

EXTERIOR PAINTING/SEALING OF ANDERSEN® PRODUCTS

The exterior of some Andersen products may be painted or stained. However, improper painting and staining may cause damage to vinyl, aluminum and other exterior materials. Please refer to the individual product sections for details on painting Andersen product exteriors.

CAUTIONS

1. Do not apply any type of film to insulating glass. Thermal stress and glass damage can result. Andersen Corporation is not responsible for product performance when films are applied to Andersen products.
2. The use of removable insulating materials such as insulated window coverings, shutters and other shading devices may also cause thermal stress conditions and/or deformation of protective vinyl. In addition, excessive condensation may result, which can have a deteriorating effect on the window or door unit(s) involved. Andersen Corporation is not responsible for product performance when these kinds of materials or devices are applied to or used in conjunction with Andersen products.
3. In wall construction utilizing brick facades, leave adequate clearance between sill, jambs and brick for sealing and dimensional change of framework.
4. Acid solutions commonly used to wash brick and other masonry materials will damage glass, fasteners, hardware and metal flashing. Protect unit and follow cleaning product instructions carefully. Damage caused by acid solution is not covered under the Andersen limited warranty.
5. Andersen windows may be combined in almost unlimited ribbons or stacks if each unit is positively secured to structural elements on opposing sides and if the proper joining system is used. See page 181 for more information.

SAFETY GLASS

Unless specifically ordered, Andersen windows are not made with safety glass and, if broken, the glass could fragment, causing injury. Andersen windows may be ordered with tempered glass which may reduce the likelihood of injury when broken. All Andersen patio doors are made with tempered glass. Differences in appearance between tempered and non-tempered glass can be expected. Slight visual distortions may be noticeable and occur normally as a result of the tempering process. Building codes require safety glass in locations adjacent to or near doors and other locations.

WINDOW AND PATIO DOOR SAFETY

Windows may provide a secondary avenue of escape or rescue in an emergency, such as a fire. Every family should develop an escape plan and make sure family members know how to escape from the home in an emergency. In your plan, include two ways to escape from every room in case one way is blocked by fire or smoke, and make sure you have a designated meeting place outside. A window or a patio door is an alternate means of escape or rescue. Practice your plan until each member of the family understands it and is able to escape without assistance. Remember, you may not be able to reach children during a fire emergency. Teach children – even very young children – that they must escape from a fire in the home and never hide from the fire or from emergency personnel.

LOOKOUT FOR KIDS® PROGRAM

The Consumer Product Safety Commission has said: "Keep children away from open windows to prevent falls. Don't depend on insect screens to keep the child from falling out of the window. They are designed to keep insects out, not children in. Avoid placing furniture near windows to keep children from climbing to a window seat or sill." In an effort to educate consumers about the potential for child falls from windows, Andersen Corporation created the LookOut For Kids Program. It combines a window and door safety brochure and specific product instructions to help make window and door safety an important priority for consumers. For more information on child safety, write:

Andersen Corporation
LookOut For Kids Program
100 Fourth Avenue North
Bayport, MN 55003
Call **800-313-8889** or email
lofk@andersencorp.com

LOOK OUT! for kids®

Dimensions in parentheses are in millimeters.

Andersen® windows and patio doors can make significant contributions to the success of sustainable design strategies

As a charter member of the U.S. Green Building Council, we're active supporters of certified green buildings. Our products can help customers in pursuing green building programs, such as Leadership in Energy and Environmental Design (LEED®), the National Green Building Standard, Green Globes, GreenStar and more. Below is an overview of how our products may assist project teams with pursuing LEED v4 or the NAHB National Green Building Standard rating systems. More detailed credit summaries, as well as information about how Andersen products can support earlier versions of LEED certification (e.g., LEED v3 or LEED 2008), are available at **andersenwindows.com**.

LEED V4 FOR BUILDING DESIGN AND CONSTRUCTION: NEW CONSTRUCTION AND MAJOR RENOVATIONS

Integrative Process Credit:

Energy & Atmosphere

- Minimum energy performance prerequisite
- Optimize energy performance credit
- Renewable energy production credit
- Green power and carbon offsets credit

Materials & Resources

- Construction and demolition waste management planning credit
- Building product disclosure and optimization sourcing of raw materials credit
- Construction and demolition waste management credit

Indoor Environmental Quality

- Minimum indoor air quality performance prerequisite
- Minimum acoustic performance prerequisite – schools
- Enhanced indoor air quality strategies credit
- Low-emitting materials credit
- Thermal comfort credit
- Daylight credit
- Quality views credit
- Acoustic performance credit (option 2)

LEED V4 FOR BUILDING DESIGN AND CONSTRUCTION: HOMES AND MULTI-FAMILY MIDRISES

Energy & Atmosphere

- Minimum energy performance prerequisite
- Education of the homeowner, tenant or building prerequisite
- Annual energy use credit
- Building orientation for passive solar credit
- Air infiltration credit
- Windows credit

Materials & Resources

- Durability management prerequisite
- Environmentally preferable products credit
- Construction waste management credit

Indoor Environmental Quality

- Ventilation prerequisite
- Low-emitting products credit

ANSI ICC/ASHRAE 700-2015 NATIONAL GREEN BUILDING STANDARD

NGBS section numbers are referenced in parentheses.

Resource Efficiency

- Prefinished materials (601.7)
- Flashing (602.12)
- Exterior doors, including storm doors (602.1.10)
- Recycled construction materials (605.3)
- Bio-based products (606.1)
- Wood-based products (606.2)
- Manufacturer's environmental management system concepts (611.1)

Energy Efficiency

- Mandatory requirements (701.1)
- Building thermal envelope air sealing (701.4.3.1)
- Multi-family air leakage alternative (701.4.3.3)
- Fenestration air leakage (701.4.3.4)
- ICC IECC analysis (702.2.1)
- Energy performance analysis (702.2.2)
- UA improvement (703.2.1)
- Fenestration (703.2.5)
- Sun-tempered design (703.7.1)
- Passive cooling design (703.7.3)
- Passive solar heating design (703.7.4)

Indoor Environmental Quality

- Wood materials (901.4)
- Interior architectural coatings (901.9)
- Interior adhesives & sealants (901.9)
- Operable windows & sliding glass doors (902.1.5)

Energy Efficient

- Homeowner's manual (1001.1)
- Building construction manual (1002.1)

THE ENVIRONMENT HAS A BUSINESS PARTNER

Respect for the environment is nothing new at Andersen. For more than a century, it has been part of who we are. Our commitment to recycle and reclaim materials began simply because it was good business. Now it's part of our broader commitment to sustainability and responsible stewardship of all of our resources. Andersen is committed to providing you with long-lasting,* energy-efficient windows and patio doors. Visit **andersenwindows.com/sustainability** for more information.

Andersen® products are certified under the National Fenestration Rating Council (NFRC) voluntary third-party certification program designed to ensure accurate energy performance ratings and labeling.

Andersen was one of the first U.S. window manufacturers to receive the Forest Stewardship Council® (FSC®) Chain-of-Custody certification (FSC CO16636). This certification is awarded to companies that meet FSC standards for traceability in their wood supply chain. Ask your sales representative about the availability of FSC certified products.

The Window & Door Manufacturers Association (WDMA) Hallmark Certification program includes product testing and quality-control process audits to verify that Andersen windows and doors are produced in conformance with the industry standards for air, water resistance and structural performance.

Andersen was the first window manufacturer to certify our products for indoor air quality, beginning in 2008. Our Indoor Advantage™ Gold certification by SCS Global Services (SCS) meets the rigorous high standards for healthier indoor air quality set by California Specification 01350.

Under U.S. Green Building Council (USGBC) guidelines, Andersen is able to claim a percentage of material in its Fibrex® product as pre-consumer recycled content. SCS Global Services (SCS) has certified this amount for Andersen.

Andersen Corporation is proud to be an ENERGY STAR® partner. For over 115 years, Andersen has built a reputation for environmental stewardship and energy-efficient products. In fact, Andersen has been part of the ENERGY STAR program since it started and was the first window manufacturer to be named an ENERGY STAR National Window Partner of the Year in 1999.

*Visit andersenwindows.com/warranty for details.

ANDERSEN™
WINDOWS & DOORS

ANDERSEN WINDOWS & DOORS

PDF NAVIGATION TIPS

Welcome to an overview of the enhanced navigation tools available in this PDF. Here are some simple tips on PDF navigation. Before you begin be sure you are using the latest version of **Adobe Acrobat Reader DC**, available at – **https://get.adobe.com/reader/**

To watch a 3-minute tutorial on navigating catalog PDFs, go to: https://youtu.be/sWWnYn60N3Y

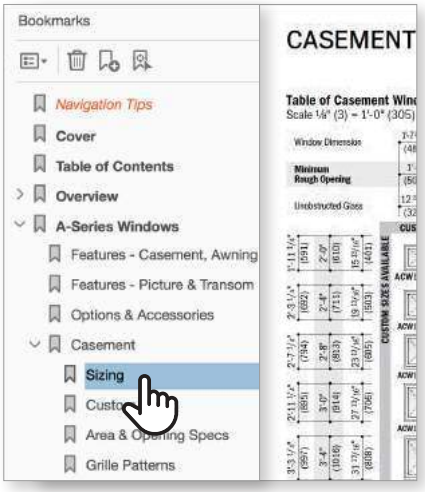
BOOKMARK NAVIGATION

①

Acrobat will display the bookmarks panel when you open the PDF.

Bookmarks are the easiest way to find specific product information.

Select a topic and that page will be displayed.



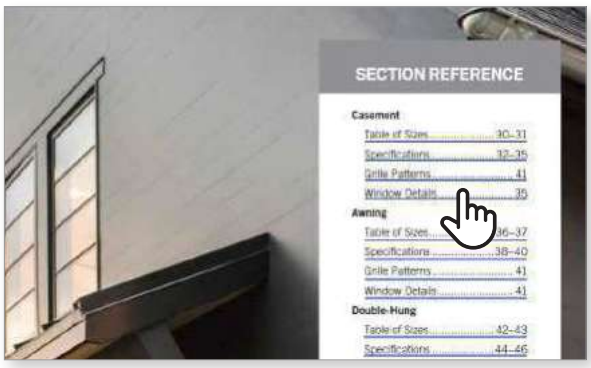
②

If you need to print a specific section, **right click on that section** within in the bookmarks panel and choose "**Print Section**."

LINKS AND URL NAVIGATION

①

You can also use the **embedded links** to navigate between sections. All links are underlined in blue.



②

Website links automatically open in your web browser.

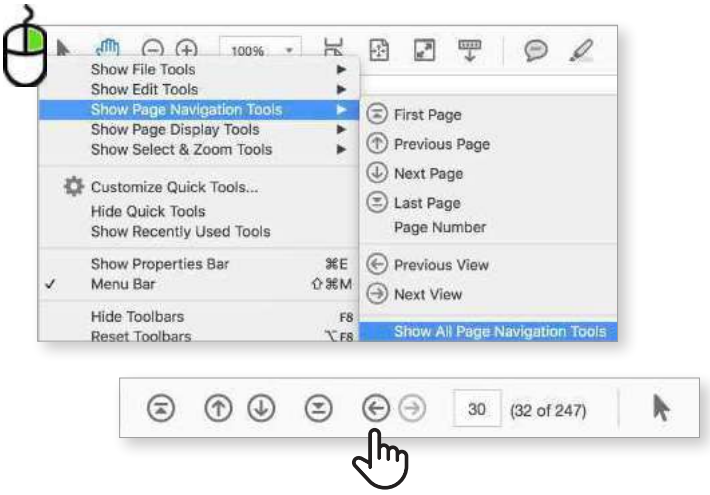
Add additional navigation tools by adjusting the default settings in Acrobat.

TOOL BAR NAVIGATION

1

To add a **“Jump Back” Button** to your tool bar. **Right click on tool bar**, select **Show Page Navigation Tools** and choose **Show All Page Navigation Tools.**

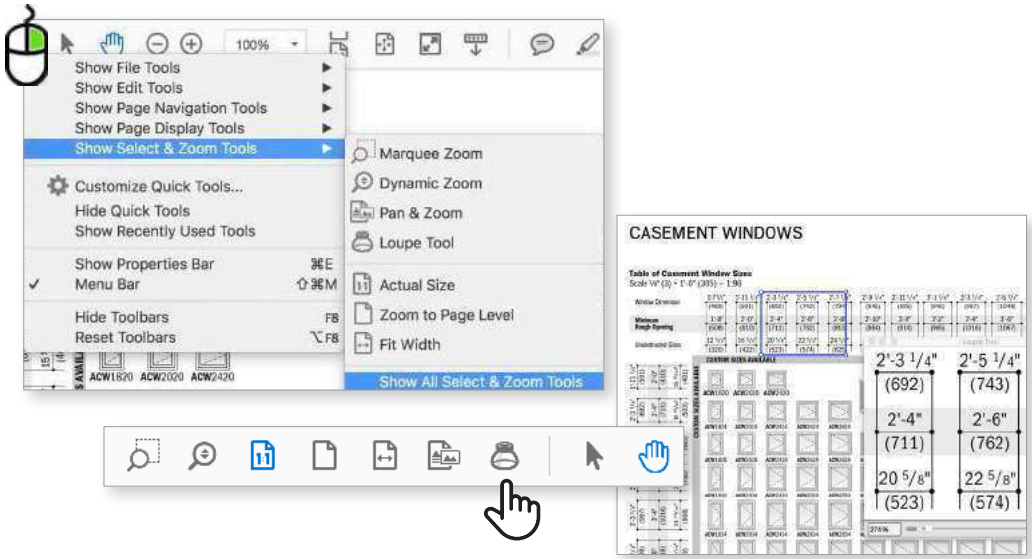
Right and left facing arrows are added to the tool bar allowing you to go back or forward to the last page you viewed.



2

Another helpful tool is the **Loupe Tool**. It allows you to zoom in on the page without having to increase the page size.

To add a **Loupe Tool** to your tool bar, **right click on tool bar**, select **Show Select & Zoom Tools** and then choose **Show All Select & Zoom Tools.**



3

You can also use the **commenting tools.** Add a post-it-note with your comments or highlight important information.

Be sure to save the file.

To watch a 3-minute tutorial on navigating catalog PDFs, go to: https://youtu.be/sWWnYn60N3Y

We are always looking for ways to improve.
Please send feedback to **webmarketing@andersencorp.com.**