

100 SERIES
WINDOWS & DOORS

2017-18
PRODUCT
GUIDE
FOR PROFESSIONALS



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100 SERIES

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THE ANDERSEN ADVANTAGE.

For over a century, Andersen has been helping families make their homes brighter, more comfortable and more beautiful. We do it by making windows and doors that are different and better than any others.

Our commitment to constant innovation as well as rigorous testing means that you can count on Andersen to deliver unsurpassed quality and reliability. **That's why peace of mind comes standard on all Andersen® windows and patio doors.**



100 SERIES

WINDOWS & PATIO DOORS

THE SMART ALTERNATIVE TO VINYL

Whether you're replacing, remodeling or building, Andersen® 100 Series windows and patio doors are a smart step up from vinyl. They provide uncommon value, combining time-tested performance with long-lasting beauty. Our 100 Series products are made with our revolutionary Fibrex® composite material, which comes in deep, rich colors that can dramatically enhance any project. In addition, Fibrex material is environmentally responsible and energy efficient, making 100 Series products a winning choice for anyone considering vinyl windows and doors.

DURABILITY

Fibrex material is twice as strong as vinyl, so weathertight seals stay weathertight. And 100 Series products come with durable, low-maintenance finishes that won't fade, flake, blister or peel.*



DEEP, RICH COLORS

Our 100 Series windows come in beautiful colors that can set a project apart.

ENVIRONMENTALLY SMART

Our Fibrex composite material is composed of 40% reclaimed wood fiber by weight.



*Visit andersenwindows.com/warranty for details.



100 SERIES WINDOWS AND PATIO DOORS
ARE AVAILABLE IN CUSTOM SIZES



ANDERSEN® 100 SERIES WINDOWS & DOORS DELIVER BEAUTY, PERFORMANCE AND VALUE.

All 100 Series windows and patio doors feature the performance, durability and ease of use you've come to expect from Andersen. They not only provide energy efficiency, beauty and reliability today, but they'll also continue to add value to your projects tomorrow and for years* to come.

ENERGY EFFICIENCY



ENERGY EFFICIENT IN EVERY CLIMATE

Energy-efficient 100 Series products are available with options that make them ENERGY STAR® certified throughout the U.S., so they can help lower heating and cooling bills. What's more, the Fibrex® material used for 100 Series frames and sash blocks thermal transfer nearly 700 times better than aluminum.

IT PAYS TO UNDERSTAND PERFORMANCE

Whatever your project, you want to make sure you have accurate energy performance ratings. The National Fenestration Rating Council® (NFRC) is a nonpartisan, nonprofit organization that provides ratings you can rely on. Go to pages 90-95 for product performance information or visit andersenwindows.com/100series for details.

GLASS OPTIONS THAT MAXIMIZE PERFORMANCE

Andersen® 100 Series windows and patio doors feature glass options designed to suit every climate, project and customer. Choose from several high-performance glass options that help reduce energy bills, including patterned glass that adds beauty and privacy. See page 10 for details.

WEATHERSTRIPPING SELECTED FOR STYLE AND COMFORT

We carefully select weatherstripping to match each style of window and door so your customers can enjoy superior comfort and reliability.

*Visit andersenwindows.com/warranty for details.

DURABILITY

EASY OPERATION FOR YEARS* TO COME

All Andersen® 100 Series products are rigorously tested to deliver years* of smooth, reliable operation.

DESIGNED FOR PERFORMANCE

100 Series products are designed to meet or exceed performance requirements in all 50 states.** See pages 90-95 for details.

TAKE COMFORT IN SUPERIOR WEATHER RESISTANCE

Our weather-resistant construction seals out drafts, wind and water so well that your reputation is protected whatever the weather.

OWNER2OWNER® LIMITED WARRANTY

QUALITY SO SOLID THAT THE WARRANTY IS TRANSFERABLE*

Most 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 homeowner to the next. And, because it's not prorated, the coverage offers full benefits, year after year, owner after owner.

DURABLE, LOW-MAINTENANCE FINISHES

100 Series windows and patio doors won't fade, flake, blister or peel.*

BEAUTY

ATTRACTIVE CORNER SEAMS

100 Series windows and patio doors feature low-visibility corner seams for a cleaner and more contemporary look.

SIX COLORS FOR BEAUTIFUL CURB APPEAL

From White and Sandtone to deep, rich Terratone, Cocoa Bean, Dark Bronze and Black colors, 100 Series windows and doors complement any project.



APPEALING MATTE INTERIORS

Durable, matte White, Sandtone, Dark Bronze† and Black† interiors are available. Interiors may also be painted to match a home's décor.††



DESIGN FLEXIBILITY

Choose from a complete product line (single-hung, gliding, casement, awning, picture and specialty windows and gliding patio doors) in a variety of shapes, sizes and combinations.

IMPROVE YOUR VIEW WITH TRUSCENE® INSECT SCREENS

With 50% more clarity than conventional insect screens, optional TruScene® insect screens for windows give you beautifully unobstructed views. They let more sunlight and fresh air into the home while keeping the smallest insects out.‡



*Visit andersenwindows.com/warranty for details.

**See your local code official for building code requirements in your area.

†Dark Bronze and Black interiors are only available with Dark Bronze and Black exteriors respectively.

††Visit help.andersenwindows.com for more information.

‡All comparisons made to conventional Andersen® insect screens.

FIBREX® MATERIAL. STRONG ON PERFORMANCE. GENTLE ON THE ENVIRONMENT.

With Fibrex® composite material, you get the best of both worlds: a top-performing product that is environmentally responsible.

Developed by Andersen, Fibrex material is a revolutionary structural composite material that blends the very best attributes of vinyl and wood. Fibrex material saves on natural resources because it is composed of 40% reclaimed wood fiber by weight. Special polymer formulations surround and fill each wood fiber, enabling top performance.

The result is a material that provides uncommon value and enhances the quality of any project. In use for nearly two decades in Andersen® products, Fibrex material has proven its strength and durability in all types of climates.

A REVOLUTIONARY BUILDING MATERIAL

- Fibrex material is twice as strong as vinyl, so weathertight seals stay weathertight
- It blocks thermal transfer nearly 700 times better than aluminum to help reduce heating and cooling bills
- For exceptional durability, Fibrex material retains its stability and rigidity in all climates

ENVIRONMENTALLY RESPONSIBLE

- Since Andersen developed the highly sustainable Fibrex material, reuse of waste wood fiber has prevented the harvesting of nearly 90 million board-feet of timber
- 100 Series windows can help builders earn LEED® points in three key categories: Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality
- 100 Series products meet or exceed California Section 01350 Specification, a California indoor emission standard — one of the toughest in the country
- Like all Andersen windows, the 100 Series product line is designed to last* and help reduce future waste streams



See how Andersen created Fibrex material at andersenwindows.com/fibrex.



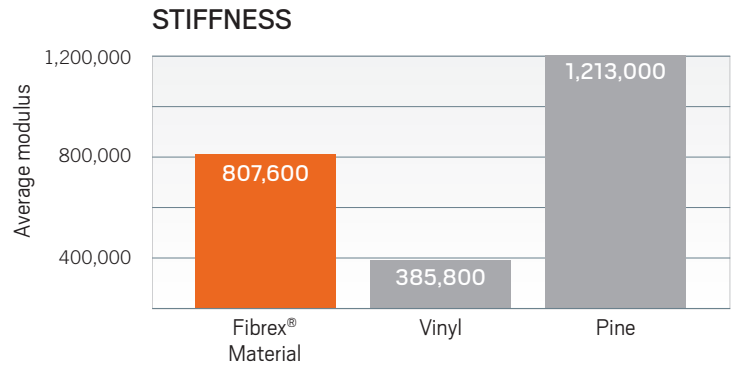
*Visit andersenwindows.com/warranty for details.

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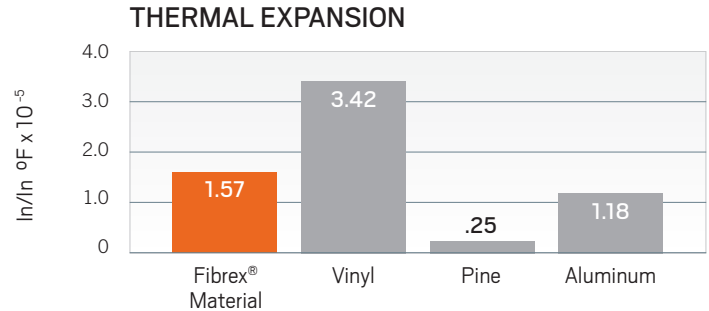
STABLE & PREDICTABLE

Fibrex® material is twice as stiff as vinyl. This strength makes it a better choice over time.



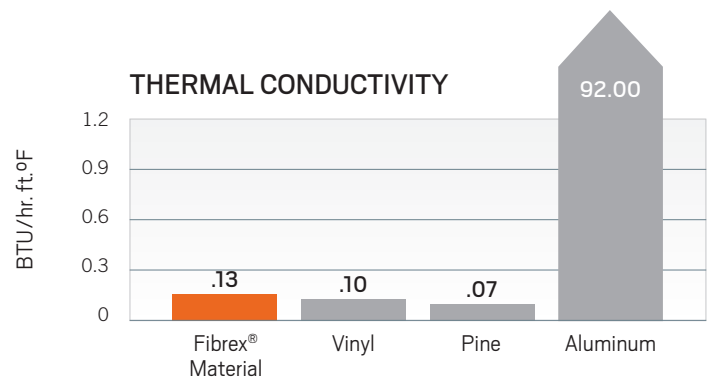
DURABLE & RELIABLE

All materials expand and contract when exposed to extreme temperatures. In these types of conditions, Fibrex material performs twice as well as vinyl, which can bow and crack over time.



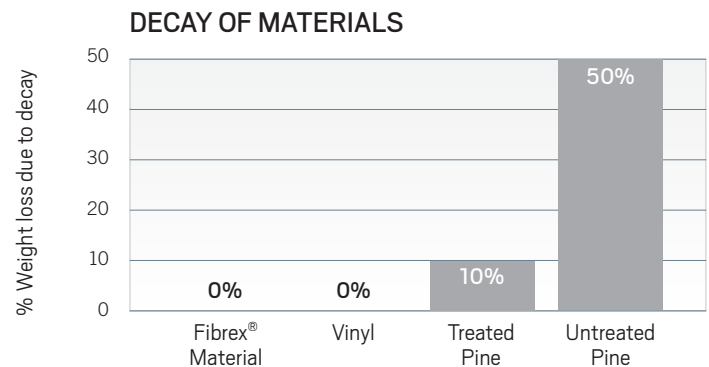
AN EXCELLENT INSULATOR

The built-in thermal qualities of Fibrex material mean that less heat and cold get transferred through the unit into your customers' homes. As an insulator, it's on par with vinyl and is far superior to aluminum.



MOISTURE-RESISTANT

Because Fibrex material combines wood fiber and a special polymer formula, water has a tough time penetrating. The result is an increased resistance to rot.



HEAT-RESISTANT

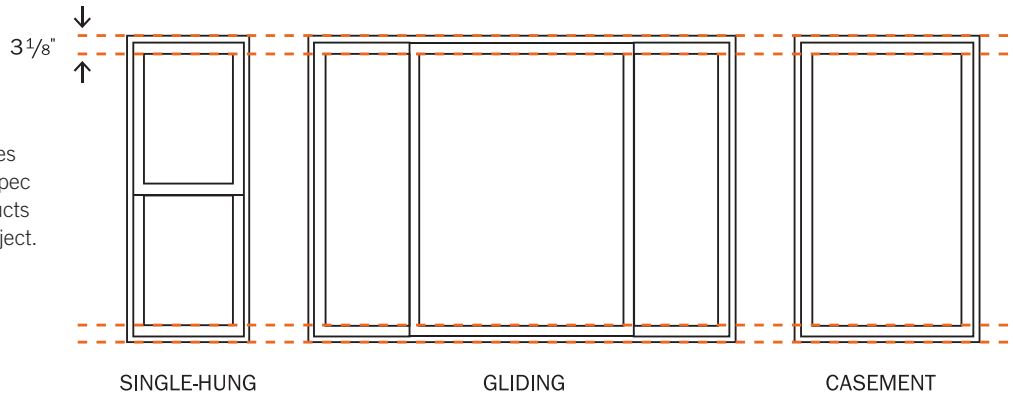
Designed to withstand direct sunlight, Fibrex material can withstand temperatures in excess of 160°F, even in dark colors.

WHATEVER YOUR PROJECT, ANDERSEN DELIVERS.



BUILD

Wherever you work and whatever style of home you're building, you'll find a window or door to match in the Andersen® 100 Series product line. Choose from six exterior colors that won't fade, flake, blister or peel*—no matter what the climate. Virtually seamless corners create a beautiful, clean look.



Uniform sight lines make it easy to spec 100 Series products for the whole project.



SINGLE-HUNG DRYWALL WINDOW (DRYWALL PASS-THROUGH WINDOW)

- Upper sash (normally stationary) is easily removed on jobsite after the window is installed
- With both sash removed, drywall passes through the window into upper floors

EXTENSION JAMB ATTACHMENT FLANGE

- Easily apply extension jambs to products on the jobsite
- Flanges consist of 8" lengths of PVC applied to the outside edges of frames with VHB (very high bond) tape
- Watch a video on this convenient feature at andersenwindows.com/builder



*Visit andersenwindows.com/warranty for details.



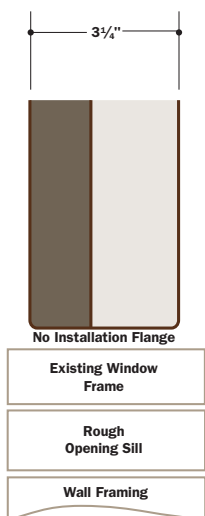
REMODEL

Whether you're adding or updating, Andersen® 100 Series windows and doors enhance your project with beauty, craftsmanship and time-tested performance. 100 Series windows and doors come in styles, shapes and custom sizes that allow you to create the look you want. And you can choose from six exterior colors including dark, rich tones.



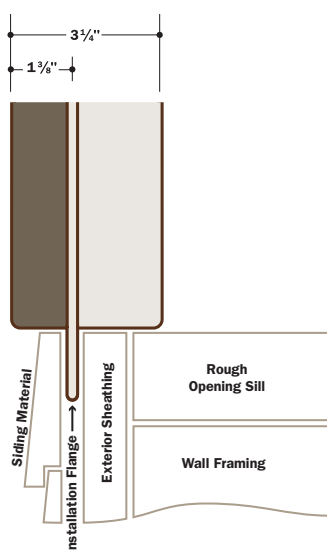
REPLACE

Andersen is committed to being your window and door company for replacement. Measurement guides simplify the ordering process. Custom sizes are available in $\frac{1}{8}$ " increments and are priced the same as the next larger standard size. And installation on the jobsite is easy. The flangeless configuration includes through-the-jamb installation holes. And the sloped sill adapter for insert applications fits the existing sill slope.



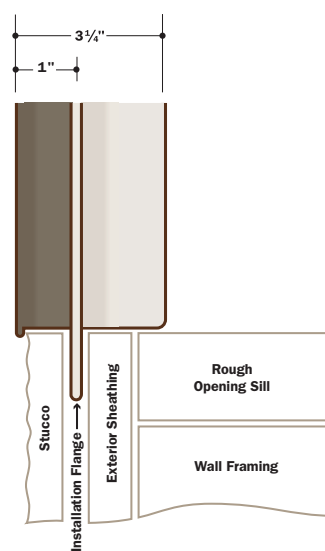
REPLACEMENT CONFIGURATION

This frame allows for fast and easy window replacement. Install the window into your existing window frame without disturbing interior or exterior trim, which saves you time and money.



1 3/8" FLANGE SETBACK

The integral installation flange makes it easy to install windows into a new opening and helps make sure the windows and doors are weathertight.



1" FLANGE SETBACK WITH STUCCO KEY

The integral installation flange makes it easy to install windows into a new opening and helps make sure the windows and doors are weathertight. The stucco key eliminates gaps that can result from the natural contraction of exterior stucco.



COLOR OPTIONS

EXTERIOR COLORS

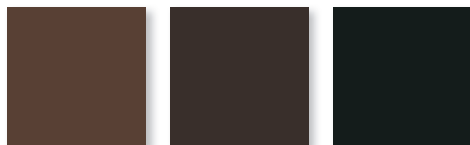
Andersen® 100 Series products come in six exterior colors, including Cocoa Bean, Dark Bronze and Black — colors that are darker and richer than those of most vinyl windows.



White

Sandtone

Terratone



Cocoa Bean

Dark Bronze

Black

INTERIOR COLORS

100 Series windows and doors feature an attractive matte finish inside. This gives you the ability to select the exterior color without compromising options for interior decoration.



White

Sandtone

Dark Bronze*

Black*



*Dark Bronze and Black interiors are only available with Dark Bronze and Black exteriors respectively. Printing limitations prevent exact color duplication. See your Andersen supplier for actual color samples.



CHOOSE THE
RIGHT COLOR
TO ENHANCE
THE BEAUTY
OF YOUR
PROJECT.



GLASS OPTIONS

Andersen has the glass you need to get the performance you want with options for every climate, project and customer. Check with your supplier for the selections that are ENERGY STAR® certified in your area.

PERFORMANCE COMPARISON OF ANDERSEN® 100 SERIES GLASS OPTIONS

GLASS	E N E R G Y		L I G H T	
	U-FACTOR	SOLAR HEAT GAIN COEFFICIENT	VISIBLE LIGHT TRANSMITTANCE	UV PROTECTION
	How well a product prevents heat from escaping.	How well a product blocks heat caused by sunlight.	How much visible light comes through a product.	How well a product blocks ultraviolet rays.
High-Performance Low-E Energy-efficient Low-E glass is available in all Andersen® 100 Series products, and can help reduce energy bills in any climate.	★★★★☆	★★★★☆	★★★★☆	★★★★☆
High-Performance Low-E with HeatLock® Coating Applied to the room-side glass surface, it reflects heat back into the home and improves U-Factors.	★★★★☆	★★★★☆	★★★★☆	★★★★☆
High-Performance SmartSun™ Thermal control similar to tinted glass, but with the visible light transmittance of clear glass.	★★★★☆	★★★★★	★★★★☆	★★★★★
High-Performance SmartSun with HeatLock Coating Applied to the room-side glass surface, it reflects heat back into the home and improves U-Factors.	★★★★☆	★★★★★	★★★☆☆	★★★★★
Clear Dual-Pane Dual-pane glass is available for projects where codes allow its use.*	★★☆☆☆	☆☆☆☆☆	★★★★★	☆☆☆☆☆

Center of glass performance only. Ratings based on glass options available as of January 2018. Visit andersenwindows.com/energystar for ENERGY STAR® map and NFRC total unit performance data.

TIME-SAVING TRANSLUCENT FILM

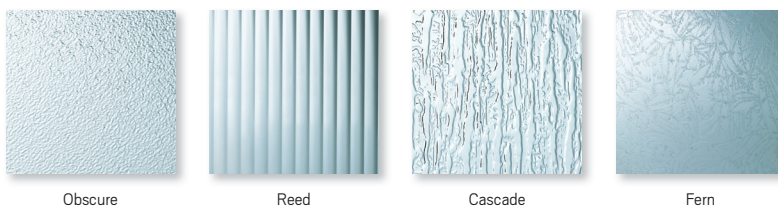
We help protect 100 Series windows and doors during delivery and construction with a translucent film that minimizes time spent masking on the jobsite, then peels away for a spotless window. For details, contact your Andersen supplier.



ADDITIONAL GLASS OPTIONS

Tempered safety glass is available (standard on gliding patio doors) as well as sound-reducing glass options.

Patterned glass lets in light while obscuring vision and adds a unique, decorative touch to your home.



Cascade and Reed patterns are only available in a vertical orientation.

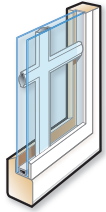
*See your local code official for building code requirements in your area.

GRILLE OPTIONS

Grilles for Andersen® 100 Series windows and patio doors are available in a wide variety of patterns to complement virtually any style of home. Plus, they give you options for easy cleaning and architectural authenticity many vinyl windows can't match.

CONFIGURATIONS

FINELIGHT™ GRILLES-BETWEEN-THE-GLASS



Finelight grilles make glass easy to clean. They have an elegant, sculpted profile, plus they offer a two-sided color scheme, allowing you to have grilles that match not only the interior but also your exterior color choice.



Finelight with Exterior Grilles make interior glass easier to clean, while permanent exterior grilles provide architectural style and detail.

FULL DIVIDED LIGHT

For an authentic look, Full Divided Light features permanently applied grilles to the interior and exterior of the window with a spacer between the glass.

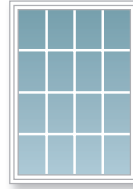


SIMULATED DIVIDED LIGHT

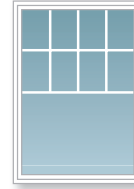
Simulated Divided Light offers permanent grilles on the exterior and interior with no spacer between the glass.



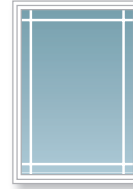
PATTERNS



Colonial



Modified Colonial



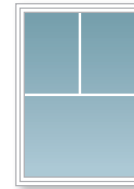
Prairie A



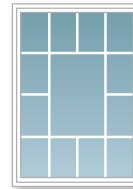
Simulated Single-Hung*



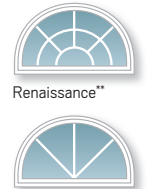
Short Fractional



Tall Fractional



Victorian



Renaissance**



Sunburst**

Specified Equal Light

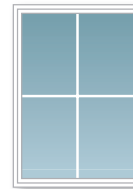
Any number of same-size rectangles across or down. Some limitations apply.



2 x 1



1 x 3



2 x 2



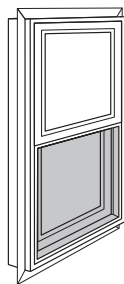
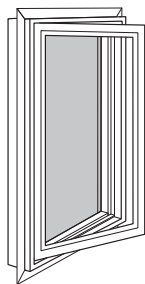
2 x 4

Note: Some grille patterns not available in all configurations and products.

INSECT SCREENS

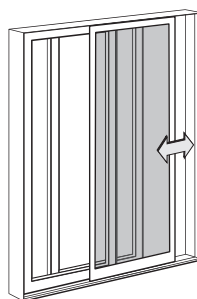
Insect screens for windows and patio doors have a fiberglass screen mesh. Optional TruScene® insect screens for windows are made with a micro-fine stainless steel mesh, providing 50% more clarity than our conventional insect screens.

WINDOWS



Insect screens are available for all 100 Series venting windows.

PATIO DOORS



Gliding Insect Screen

Gliding insect screens are available for two-panel doors.

*Our 2 1/4" wide grille can make a casement window look like a single-hung. Can also be used with a Specified Equal Light pattern grille.

**Renaissance and Sunburst patterns are only available with Finelight grilles.

WINDOW & DOOR TYPES

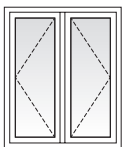
Building an energy-efficient home doesn't mean you have to compromise. Andersen® 100 Series windows and doors come in styles, shapes and custom sizes to create the look you want.



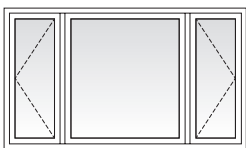
Available in custom sizes to fit all projects, including replacement.

CASEMENT & AWNING WINDOWS

Casement windows are hinged and open outward to the left or right, while awning windows are hinged at the top and open outward. Both are also available in stationary versions.



Twin Casement



Picture with Flanking Casements

More combination options available.

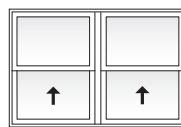
SINGLE-HUNG WINDOWS

This style features a stationary upper sash with a movable lower sash that allows ventilation. For convenience, the hardware locks automatically when the window is closed. An arch style is also available to add architectural interest and greater curb appeal.

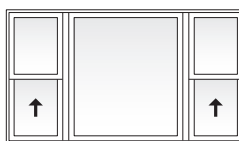
Single-hung drywall windows (also known as drywall pass-through windows) feature a removable upper sash which makes it easier to get drywall to the upper floors of your project.



Arch Single-Hung



Twin Single-Hung

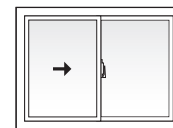


Picture with Flanking Single-Hungs

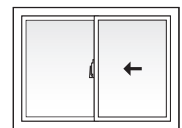
More combination options available.

GLIDING WINDOWS

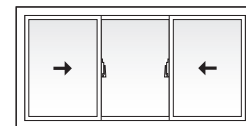
These windows have one stationary sash and one that opens. A three-sash configuration, where two sash glide past a fixed center sash, is also available.



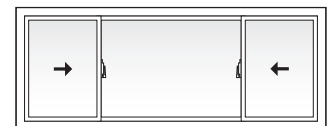
Gliding - XO
(active-stationary)



Gliding - OX
(stationary-active)



Gliding - XOX 1:1:1 Sash Ratio
(active-stationary-active)

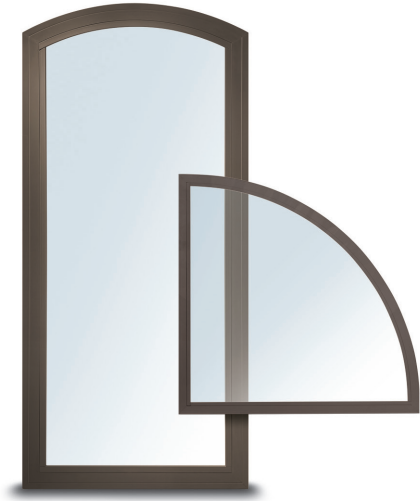


Gliding - XOX 1:2:1 Sash Ratio
(active-stationary-active)

More combination options available.

PICTURE, TRANSOM & SPECIALTY WINDOWS

Arch, Springline™, half circle, quarter circle, full circle and rectangular shapes are available, along with seven new custom shapes including: right and isosceles triangles, trapezoid, angled and peak pentagons, octagon and unequal leg arch.



GLIDING PATIO DOORS

Patio doors feature one stationary panel and one that glides smoothly on adjustable rollers. They feature a multi-point locking system for enhanced security and an optional exterior keyed lock for convenience. Sidelight and transom windows are also available.



HARDWARE WINDOWS

Single-Hung & Gliding Options STANDARD HARDWARE



Lock automatically engages when window is closed. Hardware color matches the window's interior.

SLIM LINE METAL HARDWARE (Optional)



Antique Brass | Black | Satin Nickel | **Dark Bronze** | Sandtone | White

Casement & Awning



Hardware folds down so it doesn't interfere with window treatments.

Antique Brass | Black | Satin Nickel
Dark Bronze | Sandtone | White

Bold name denotes finish shown.

PATIO DOORS

Tulsa hardware exterior handles match the door's exterior color, while interior handles match the interior. Afton hardware has the same finish inside and out. Also available, an optional auxiliary foot lock that secures the gliding panel in the track. It provides an extra measure of security when the door is in a locked position.

TULSA HARDWARE (Standard)



Exterior Handle
Matches exterior door color; shown in Dark Bronze

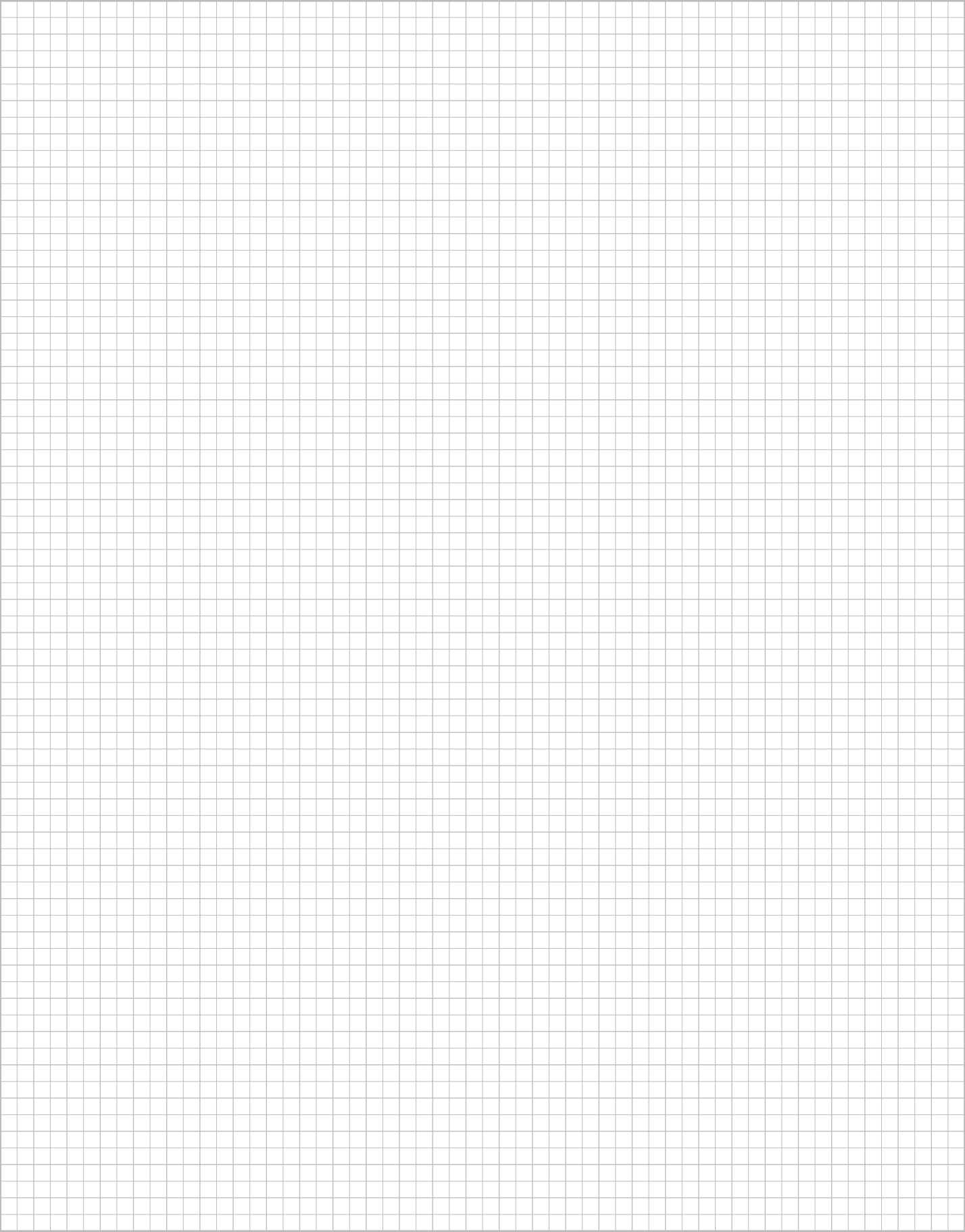
Interior Handle
Matches interior door color; shown in White

AFTON HARDWARE (Optional)



Exterior Handle Interior Handle
Antique Brass | Bright Brass
Black | **Satin Nickel**

Bold name denotes finish shown.



WINDOWS

CUSTOM SIZING
in 1/8" (3) increments



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Dimensions in parentheses are in millimeters.

WINDOWS

FEATURES

CASEMENT & AWNING

Frame

- A** Frame constructed with Fibrex® composite material. This construction produces a rigid frame.
- B** Durable, low-maintenance finish won't fade, flake, blister or peel.*

Concealed receiving brackets mounted on the hinge side of the frame keep the sash tightly secured within the window frame when closed.

C Three flange options include:

- 1 3/8" (35) flange setback for siding applications. An integral rigid vinyl flange helps seal the unit to the structure.
- 1" (25) flange setback with stucco key.
- No-flange option for use as an insert/replacement window.

Sash

D Fibrex material construction provides long-lasting performance*. The sash, finished with a durable capping, provides maximum protection and a matte, low-maintenance finish.

E The dual weatherstripping system combines both an exterior watershed design and a bulb weatherstrip seal between the sash and frame. The result is a long-lasting*, energy-efficient barrier against wind, water and dust.

Glass

- F** A glazing bead and silicone provide superior weathertightness and durability.
- G** High-Performance glass options include:

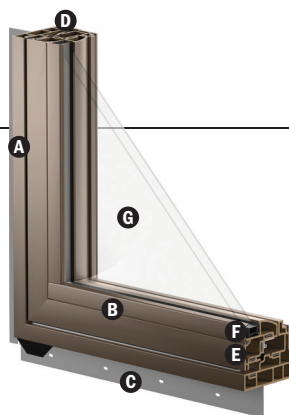
- Low-E SmartSun™ glass
- Low-E SmartSun HeatLock® glass
- Low-E glass
- Low-E HeatLock glass
- Dual-pane glass

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

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

Patterned Glass

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



Hardware

Sash operator provides almost effortless opening and closing, regardless of unit size.

Long-lasting stainless steel hinge channels are used at the head and sill to provide easy operation.



Single-Action Casement Lock

Single-action lock easily releases all concealed locking points on casement sash. The lock and folding handle match the window's interior.

Awning Sash Locks



Awning sash locks provide an added measure of security and weathertightness. Awning hardware style and color options are compatible with 100 Series casement windows to ensure a consistent appearance when used in combination designs.

SINGLE-HUNG

Frame

- A** Frame constructed with Fibrex composite material. This construction produces a rigid frame.
- B** A durable, side-loaded balancer provides for easy sash opening and closing. The lower sash can be removed without the use of tools.

C Durable, low-maintenance finish won't fade, flake, blister or peel.*

D Three flange options include:

- 1 3/8" (35) flange setback for siding applications. An integral rigid vinyl flange helps seal the unit to the structure.
- 1" (25) flange setback with stucco key.
- No-flange option for use as an insert/replacement window.

E Weep holes are located on the exterior sill nose for proper water management.

Sash

The lower sash has a check rail cover with a unique raised profile design, allowing the sash to be opened and closed easily.

F Fibrex material construction provides long-lasting performance*. The sash, finished with a durable capping, provides maximum protection and a matte, low-maintenance finish.

G Dual-felt weatherstripping provides a long-lasting*, energy-efficient barrier against wind, water and dust.

Glass

- H** A glazing bead and silicone provide superior weathertightness and durability.
- I** High-Performance glass options include:

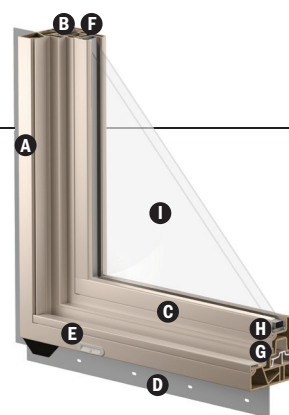
- Low-E SmartSun™ glass
- Low-E SmartSun HeatLock® glass
- Low-E glass
- Low-E HeatLock glass
- Dual-pane glass

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

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

Patterned Glass

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

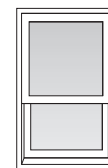


Hardware

Sash Lock

Sash lock engages automatically when lower sash is closed. The sash lock matches the window's interior. An optional sash lift is available.

Sash Options



Reverse Cottage Style

Shapes



Arch Single-Hung

*Visit andersenwindows.com/warranty for details. Dimensions in parentheses are in millimeters.

FEATURES

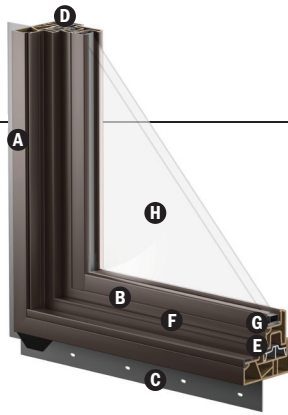
GLIDING

Frame

- A** Frame constructed with Fibrex® composite material. This construction produces a rigid frame.
- B** Durable, low-maintenance finish won't fade, flake, blister or peel.*
- C** Three flange options include:
 - 1 3/8" (35) flange setback for siding applications. An integral rigid vinyl flange helps seal the unit to the structure.
 - 1" (25) flange setback with stucco key.
 - No-flange option for use as an insert/replacement window.

Sash

- The operating sash has a meeting stile cover with a unique raised profile design, allowing the sash to be opened and closed easily.
- D** Fibrex material construction provides long-lasting performance. The sash, finished with a durable capping, provides maximum protection and a matte, low-maintenance finish.
 - E** Dual-felt weatherstripping provides a long-lasting, energy-efficient barrier against wind, water and dust.
 - F** Operating sash has four metal rollers mounted at the bottom of the sash for easy, smooth travel over the sill.



Glass

- G** A glazing bead and silicone provide superior weathertightness and durability.
- H** High-Performance glass options include:
 - Low-E SmartSun™ glass
 - Low-E SmartSun HeatLock® glass
 - Low-E glass
 - Low-E HeatLock glass
 - Dual-pane glass

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

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

Patterned Glass

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

Hardware

Sash Lock

Gliding window sash lock engages automatically when operable sash is closed. The sash lock matches the window's interior. An optional sash pull is available.

PICTURE, TRANSOM & SPECIALTY

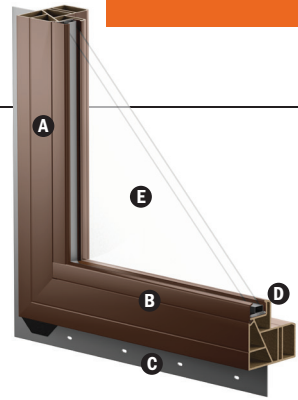
Frame

- A** Frame constructed with Fibrex composite material. This construction produces a rigid frame.
- B** Durable, low-maintenance finish won't fade, flake, blister or peel.*
- C** Three flange options include:
 - 1 3/8" (35) flange setback for siding applications. An integral rigid vinyl flange helps seal the unit to the structure.
 - 1" (25) flange setback with stucco key.
 - No-flange option for use as an insert/replacement window.

Glass

- D** The glass is direct-set into the frame for superior weathertightness and durability.
- E** High-Performance glass options include:
 - Low-E SmartSun™ glass
 - Low-E SmartSun HeatLock® glass
 - Low-E glass
 - Low-E HeatLock glass
 - Dual-pane glass

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



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

Patterned Glass

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

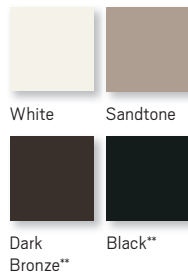
Shapes

Along with rectangular windows, arch, Springline™ half circle, quarter circle and circle windows are available in both standard and custom sizes. Custom windows are now available in triangle, trapezoid, pentagon, octagon and unequal leg arch shapes.

EXTERIOR COLORS



INTERIOR COLORS



HARDWARE

Single-Hung & Gliding

STANDARD HARDWARE



Hardware color matches the window's interior.

SLIM LINE METAL HARDWARE (Optional)



Antique Brass | Black
Satin Nickel | **Dark Bronze**
Sandtone | White

Casement & Awning



Antique Brass | Black | Satin Nickel
Dark Bronze | Sandtone | White

Bold name denotes finish shown.

ACCESSORIES Sold Separately

Hardware

Window Opening Control Device

A window opening control device is available for casement, single-hung and gliding windows which limits sash travel to less than 4" (102) when the window is first opened. Available factory-installed or as a kit for field-application.

Vent Limiter

A vent limiter is available for awning windows which prevents opening the sash more than 4" (102). Available factory-installed or as a kit for field-application.

Grilles

Grilles are available in a variety of configurations. See page 11 for details.

Insect Screens

For casement and awning windows, frames are available in White or Sandtone. For single-hung and gliding windows, stainless steel springs hold the insect screen tightly to the window frame and their frames are available in colors to match the product exteriors. Insect screens have gray fiberglass screen mesh.

TruScene® Insect Screen

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

*Visit andersenwindows.com/warranty for details.

**Dark Bronze and Black interiors are only available on Dark Bronze and Black exteriors respectively. Dimensions in parentheses are in millimeters.

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

CASEMENT WINDOWS

Table of Casement Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

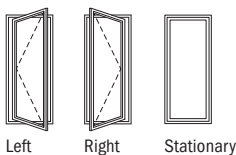
Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)
Unobstructed Glass	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)

CUSTOM WIDTHS – 1'-5 1/2" to 2'-11 1/2"				
Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"
	(445)	(597)	(749)	(902)
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)
Unobstructed Glass	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)
CUSTOM HEIGHTS – 1'-11 1/2" to 5'-11 1/2"				
Window Dimension	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"
	(597)	(749)	(902)	(1054)
Minimum Rough Opening	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)
Unobstructed Glass	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)
Window Dimension	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"
	(1207)	(1359)	(1511)	(1664)
Minimum Rough Opening	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)
Unobstructed Glass	41 1/4" (1048)	47 1/4" (1200)	53 1/4" (1353)	59 1/4" (1505)
Window Dimension	5'-11 1/2"	6'-5 1/2"	6'-11 1/2"	7'-5 1/2"
	(1816)	(1968)	(2120)	(2272)
Minimum Rough Opening	6'-0" (1829)	6'-6" (1981)	7'-0" (2133)	7'-6" (2285)
Unobstructed Glass	65 1/4" (1657)	71 1/4" (1809)	77 1/4" (1961)	83 1/4" (2113)



Custom-size windows are available in 1/8" (3) increments.

See page 78 for custom sizes and specifications.



Choose left, right or stationary as viewed from the exterior. Right venting shown in table.

Details shown on page 23. Grille patterns shown on page 22.

• "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 page 98 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 21.

Table of Twin Casement Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"	5'-11 1/2"
Minimum Rough Opening	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)	6'-0" (1829)
Unobstructed Glass (width of single sash)	11 1/4" (286)	14 1/4" (362)	17 1/4" (438)	20 1/4" (514)	23 1/4" (591)	26 1/4" (667)	29 1/4" (743)
1'-1 1/2"	1610-2	1910-2	2010-2	2310-2	2610-2	2910-2	3010-2
1'-5 1/2"	1616-2	1916-2	2016-2	2316-2	2616-2	2916-2	3016-2
1'-11 1/2"	1620-2	1920-2	2020-2	2320-2	2620-2	2920-2	3020-2
CUSTOM WIDTHS – 2'-11 1/2" to 5'-11 1/2"							
1'-11 1/2"	1620-2	1920-2	2020-2	2320-2	2620-2	2920-2	3020-2
2'-5 1/2"	1626-2	1926-2	2026-2	2326-2	2626-2	2926-2	3026-2
2'-11 1/2"	1630-2	1930-2	2030-2	2330-2	2630-2	2930-2	3030-2
3'-5 1/2"	1636-2	1936-2	2036-2	2336-2	2636-2	2936-2 ⁰	3036-2 ⁰
3'-11 1/2"	1640-2	1940-2	2040-2	2340-2	2640-2 ⁰	2940-2 ⁰	3040-2 ⁰
4'-5 1/2"	1646-2	1946-2	2046-2	2346-2	2646-2 ⁰	2946-2 ⁰	3046-2 ⁰
4'-11 1/2"	1650-2	1950-2	2050-2	2350-2	2650-2 ⁰	2950-2 ⁰	3050-2 ⁰
5'-5 1/2"	1656-2	1956-2	2056-2	2356-2	2656-2 ⁰	2956-2 ⁰	3056-2 ⁰
5'-11 1/2"	1660-2	1960-2	2060-2	2360-2	2660-2 ⁰	2960-2 ⁰	3060-2 ⁰



Custom-size windows are available in 1/8" (3) increments. See page 78 for custom sizes and specifications.

Choose left, right or stationary as viewed from the exterior. In addition to venting shown, other standard configurations are available. Windows have one continuous outer frame.

Twin transoms are also shown. See pages 64-65 for more information.

Details shown on page 23. Grille patterns shown on page 22.

• "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 page 98 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 pages 21-22.

CASEMENT WINDOWS

Table of Sizes for Picture Window with Flanking Casements

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	5'-11 1/2" (1816)	7'-11 1/2" (2426)	9'-11 1/2" (3035)	11'-11 1/2" (3645)
Minimum Rough Opening	6'-0" (1829)	8'-0" (2438)	10'-0" (3048)	12'-0" (3658)
Unobstructed Glass (width of center sash)	29 1/4" (743)	41 1/4" (1048)	53 1/4" (1353)	65 1/4" (1657)
Unobstructed Glass (width of single flanking sash)	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)

11'-1 1/2" (292)	1'-0" (305)	5'-1/4" (133)				
1'-5 1/2" (445)	1'-6" (457)	11'-1/4" (286)	16-3016-16	20-4016-20	26-5016-26	30-6016-30
1'-11 1/2" (597)	2'-0" (610)	17'-1/4" (438)	16-3020-16	20-4020-20	26-5020-26	30-6020-30
1'-11 1/2" (597)	2'-0" (610)	17'-1/4" (438)	16-3020-16	20-4020-20	26-5020-26	30-6020-30
2'-5 1/2" (749)	2'-6" (762)	23'-1/4" (591)	16-3026-16	20-4026-20	26-5026-26	30-6026-30
2'-11 1/2" (902)	3'-0" (914)	29'-1/4" (743)	16-3030-16	20-4030-20	26-5030-26	30-6030-30
3'-5 1/2" (1054)	3'-6" (1067)	35'-1/4" (895)	16-3036-16	20-4036-20	26-5036-26	30-6036-30 ^Ø
3'-11 1/2" (1207)	4'-0" (1219)	41'-1/4" (1048)	16-3040-16	20-4040-20	26-5040-26 ^Ø	30-6040-30 ^Ø
4'-5 1/2" (1359)	4'-6" (1372)	47'-1/4" (1200)	16-3046-16	20-4046-20	26-5046-26 ^Ø	30-6046-30 ^Ø
4'-11 1/2" (1511)	5'-0" (1524)	53'-1/4" (1353)	16-3050-16	20-4050-20	26-5050-26 ^Ø	30-6050-30 ^Ø
5'-5 1/2" (1664)	5'-6" (1676)	59'-1/4" (1505)	16-3056-16	20-4056-20	26-5056-26 ^Ø	30-6056-30 ^Ø
5'-11 1/2" (1816)	6'-0" (1829)	65'-1/4" (1657)	16-3060-16	20-4060-20	26-5060-26 ^Ø	30-6060-30 ^Ø

Choose left, right or stationary as viewed from the exterior. In addition to venting shown, other standard configurations are available. Windows have one continuous outer frame.

Transoms are also shown. See pages 64-65 for more information.

Details shown on page 23. Grille patterns shown on page 22.

- "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 page 98 for more details.
 - Dimensions in parentheses are in millimeters.
- Ø 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).

Casement Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)	Hinge Type
		Width Inches/(mm)	Height Inches/(mm)					
1620	0.67 (0.06)	5 3/8" (137)	17 13/16" (452)	1.35 (0.13)	1.46 (0.14)	61 9/16" (1564)	2.86 (0.27)	wash mode
1626	0.89 (0.08)	5 3/8" (137)	23 13/16" (605)	1.82 (0.17)	1.95 (0.18)	55 9/16" (1411)	3.59 (0.33)	wash mode
1630	1.12 (0.10)	5 3/8" (137)	29 13/16" (757)	2.29 (0.21)	2.44 (0.23)	49 9/16" (1259)	4.31 (0.40)	wash mode
1636	1.34 (0.12)	5 3/8" (137)	35 13/16" (909)	2.75 (0.26)	2.94 (0.27)	43 9/16" (1106)	5.04 (0.47)	wash mode
1640	1.57 (0.15)	5 3/8" (137)	41 13/16" (1062)	3.22 (0.30)	3.43 (0.32)	37 9/16" (954)	5.77 (0.54)	wash mode
1646	1.79 (0.17)	5 3/8" (137)	47 13/16" (1214)	3.69 (0.34)	3.92 (0.36)	31 9/16" (802)	6.50 (0.60)	wash mode
1650	2.02 (0.19)	5 3/8" (137)	53 13/16" (1367)	4.16 (0.39)	4.41 (0.41)	25 9/16" (649)	7.23 (0.67)	wash mode
1656	2.24 (0.21)	5 3/8" (137)	59 13/16" (1519)	4.63 (0.43)	4.90 (0.46)	19 9/16" (497)	7.96 (0.74)	wash mode
1660	2.47 (0.23)	5 3/8" (137)	65 13/16" (1671)	5.10 (0.47)	5.40 (0.50)	13 9/16" (344)	8.69 (0.81)	wash mode
2020	1.41 (0.13)	11 3/8" (289)	17 13/16" (452)	2.07 (0.19)	2.20 (0.20)	61 9/16" (1564)	3.84 (0.36)	wash mode
2026	1.88 (0.18)	11 3/8" (289)	23 13/16" (605)	2.79 (0.26)	2.94 (0.27)	55 9/16" (1411)	4.81 (0.45)	wash mode
2030	2.36 (0.22)	11 3/8" (289)	29 13/16" (757)	3.50 (0.33)	3.69 (0.34)	49 9/16" (1259)	5.79 (0.54)	wash mode
2036	2.83 (0.26)	11 3/8" (289)	35 13/16" (909)	4.22 (0.39)	4.43 (0.41)	43 9/16" (1106)	6.77 (0.63)	wash mode
2040	3.31 (0.31)	11 3/8" (289)	41 13/16" (1062)	4.94 (0.46)	5.17 (0.48)	37 9/16" (954)	7.75 (0.72)	wash mode
2046	3.78 (0.35)	11 3/8" (289)	47 13/16" (1214)	5.66 (0.53)	5.91 (0.55)	31 9/16" (802)	8.73 (0.81)	wash mode
2050	4.26 (0.40)	11 3/8" (289)	53 13/16" (1367)	6.38 (0.59)	6.65 (0.62)	25 9/16" (649)	9.71 (0.90)	wash mode
2056	4.73 (0.44)	11 3/8" (289)	59 13/16" (1519)	7.10 (0.66)	7.40 (0.69)	19 9/16" (497)	10.69 (0.99)	wash mode
2060	5.21 (0.48)	11 3/8" (289)	65 13/16" (1671)	7.82 (0.73)	8.14 (0.76)	13 9/16" (344)	11.67 (1.08)	wash mode
2620	2.15 (0.20)	17 3/8" (442)	17 13/16" (452)	2.79 (0.26)	2.94 (0.27)	61 9/16" (1564)	4.81 (0.45)	wash mode
2626	2.88 (0.27)	17 3/8" (442)	23 13/16" (605)	3.75 (0.35)	3.94 (0.37)	55 9/16" (1411)	6.04 (0.56)	wash mode
2630	3.60 (0.33)	17 3/8" (442)	29 13/16" (757)	4.72 (0.44)	4.93 (0.46)	49 9/16" (1259)	7.27 (0.68)	wash mode
2636	4.33 (0.40)	17 3/8" (442)	35 13/16" (909)	5.69 (0.53)	5.92 (0.55)	43 9/16" (1106)	8.50 (0.79)	wash mode
2640 ◊	6.30 (0.59)	21 11/16" (551)	41 13/16" (1062)	6.66 (0.62)	6.91 (0.64)	37 9/16" (954)	9.73 (0.90)	widest clear opening
2646 ◊	7.21 (0.67)	21 11/16" (551)	47 13/16" (1214)	7.63 (0.71)	7.90 (0.73)	31 9/16" (802)	10.96 (1.02)	widest clear opening
2650 ◊	8.11 (0.75)	21 11/16" (551)	53 13/16" (1367)	8.60 (0.80)	8.90 (0.83)	25 9/16" (649)	12.19 (1.13)	widest clear opening
2656 ◊	9.02 (0.84)	21 11/16" (551)	59 13/16" (1519)	9.57 (0.89)	9.89 (0.92)	19 9/16" (497)	13.42 (1.25)	widest clear opening
2660 ◊	9.92 (0.92)	21 11/16" (551)	65 13/16" (1671)	10.54 (0.98)	10.88 (1.01)	13 9/16" (344)	14.65 (1.36)	widest clear opening
3020	2.89 (0.27)	23 3/8" (594)	17 13/16" (452)	3.50 (0.33)	3.69 (0.34)	61 9/16" (1564)	5.79 (0.54)	wash mode
3026	3.87 (0.36)	23 3/8" (594)	23 13/16" (605)	4.72 (0.44)	4.93 (0.46)	55 9/16" (1411)	7.27 (0.68)	wash mode
3030	4.84 (0.45)	23 3/8" (594)	29 13/16" (757)	5.94 (0.55)	6.17 (0.57)	49 9/16" (1259)	8.75 (0.81)	wash mode
3036 ◊	5.82 (0.54)	23 3/8" (594)	35 13/16" (909)	7.16 (0.67)	7.41 (0.69)	43 9/16" (1106)	10.23 (0.95)	wash mode
3040 ◊	6.79 (0.63)	23 3/8" (594)	41 13/16" (1062)	8.38 (0.78)	8.65 (0.80)	37 9/16" (954)	11.71 (1.09)	wash mode
3046 ◊	7.77 (0.72)	23 3/8" (594)	47 13/16" (1214)	9.60 (0.89)	9.90 (0.92)	31 9/16" (802)	13.19 (1.23)	wash mode
3050 ◊	8.74 (0.81)	23 3/8" (594)	53 13/16" (1367)	10.82 (1.00)	11.14 (1.03)	25 9/16" (649)	14.67 (1.36)	wash mode
3056 ◊	9.72 (0.90)	23 3/8" (594)	59 13/16" (1519)	12.04 (1.12)	12.38 (1.15)	19 9/16" (497)	16.15 (1.50)	wash mode
3060 ◊	10.69 (0.99)	23 3/8" (594)	65 13/16" (1671)	13.25 (1.23)	13.62 (1.27)	13 9/16" (344)	17.63 (1.64)	wash mode

Twin Casement Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)	Hinge Type
		Width Inches/(mm)	Height Inches/(mm)					
1620-2	0.67 (0.06)	5 3/8" (137)	17 13/16" (452)	2.70 (0.25)	2.92 (0.27)	61 9/16" (1564)	5.79 (0.54)	wash mode
1626-2	0.89 (0.08)	5 3/8" (137)	23 13/16" (605)	3.63 (0.34)	3.90 (0.36)	55 9/16" (1411)	7.27 (0.68)	wash mode
1630-2	1.12 (0.10)	5 3/8" (137)	29 13/16" (757)	4.57 (0.42)	4.89 (0.45)	49 9/16" (1259)	8.75 (0.81)	wash mode
1636-2	1.34 (0.12)	5 3/8" (137)	35 13/16" (909)	5.51 (0.51)	5.87 (0.55)	43 9/16" (1106)	10.23 (0.95)	wash mode
1640-2	1.57 (0.15)	5 3/8" (137)	41 13/16" (1062)	6.45 (0.60)	6.86 (0.64)	37 9/16" (954)	11.71 (1.09)	wash mode
1646-2	1.79 (0.17)	5 3/8" (137)	47 13/16" (1214)	7.38 (0.69)	7.84 (0.73)	31 9/16" (802)	13.19 (1.23)	wash mode
1650-2	2.02 (0.19)	5 3/8" (137)	53 13/16" (1367)	8.32 (0.77)	8.82 (0.82)	25 9/16" (649)	14.67 (1.36)	wash mode
1656-2	2.24 (0.21)	5 3/8" (137)	59 13/16" (1519)	9.26 (0.86)	9.81 (0.91)	19 9/16" (497)	16.15 (1.50)	wash mode
1660-2	2.47 (0.23)	5 3/8" (137)	65 13/16" (1671)	10.20 (0.95)	10.79 (1.00)	13 9/16" (344)	17.63 (1.64)	wash mode
1920-2	1.04 (0.10)	8 3/8" (213)	17 13/16" (452)	3.41 (0.32)	3.66 (0.34)	61 9/16" (1564)	6.77 (0.63)	wash mode
1926-2	1.39 (0.13)	8 3/8" (213)	23 13/16" (605)	4.60 (0.43)	4.90 (0.45)	55 9/16" (1411)	8.50 (0.79)	wash mode
1930-2	1.74 (0.16)	8 3/8" (213)	29 13/16" (757)	5.79 (0.54)	6.13 (0.57)	49 9/16" (1259)	10.23 (0.95)	wash mode
1936-2	2.09 (0.19)	8 3/8" (213)	35 13/16" (909)	6.98 (0.65)	7.36 (0.68)	43 9/16" (1106)	11.96 (1.11)	wash mode
1940-2	2.44 (0.23)	8 3/8" (213)	41 13/16" (1062)	8.16 (0.76)	8.60 (0.80)	37 9/16" (954)	13.69 (1.27)	wash mode
1946-2	2.79 (0.26)	8 3/8" (213)	47 13/16" (1214)	9.35 (0.87)	9.83 (0.91)	31 9/16" (802)	15.42 (1.43)	wash mode
1950-2	3.14 (0.29)	8 3/8" (213)	53 13/16" (1367)	10.54 (0.98)	11.06 (1.03)	25 9/16" (649)	17.15 (1.59)	wash mode
1956-2	3.49 (0.32)	8 3/8" (213)	59 13/16" (1519)	11.73 (1.09)	12.30 (1.14)	19 9/16" (497)	18.88 (1.75)	wash mode
1960-2	3.84 (0.36)	8 3/8" (213)	65 13/16" (1671)	12.91 (1.20)	13.53 (1.26)	13 9/16" (344)	20.61 (1.91)	wash mode

- "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 meters squared.
- ◊ 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).

continued on next page

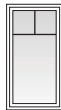
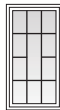
CASEMENT WINDOWS

Twin Casement Window Opening and Area Specifications (continued)

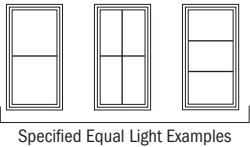
Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)	Hinge Type
		Width Inches/ (mm)	Height Inches/ (mm)					
2020-2	1.41 (0.13)	11 3/8" (289)	17 13/16" (452)	4.13 (0.38)	4.40 (0.41)	61 9/16" (1564)	7.75 (0.72)	wash mode
2026-2	1.88 (0.18)	11 3/8" (289)	23 13/16" (605)	5.57 (0.52)	5.89 (0.55)	55 9/16" (1411)	9.73 (0.90)	wash mode
2030-2	2.36 (0.22)	11 3/8" (289)	29 13/16" (757)	7.01 (0.65)	7.37 (0.68)	49 9/16" (1259)	11.71 (1.09)	wash mode
2036-2	2.83 (0.26)	11 3/8" (289)	35 13/16" (909)	8.45 (0.78)	8.86 (0.82)	43 9/16" (1106)	13.69 (1.27)	wash mode
2040-2	3.31 (0.31)	11 3/8" (289)	41 13/16" (1062)	9.88 (0.92)	10.34 (0.96)	37 9/16" (954)	15.67 (1.46)	wash mode
2046-2	3.78 (0.35)	11 3/8" (289)	47 13/16" (1214)	11.32 (1.05)	11.82 (1.10)	31 9/16" (802)	17.65 (1.64)	wash mode
2050-2	4.26 (0.40)	11 3/8" (289)	53 13/16" (1367)	12.76 (1.19)	13.31 (1.24)	25 9/16" (649)	19.63 (1.82)	wash mode
2056-2	4.73 (0.44)	11 3/8" (289)	59 13/16" (1519)	14.20 (1.32)	14.79 (1.37)	19 9/16" (497)	21.61 (2.01)	wash mode
2060-2	5.21 (0.48)	11 3/8" (289)	65 13/16" (1671)	15.63 (1.45)	16.27 (1.51)	13 9/16" (344)	23.59 (2.19)	wash mode
2320-2	1.78 (0.17)	14 3/8" (366)	17 13/16" (452)	4.85 (0.45)	5.15 (0.48)	61 9/16" (1564)	8.73 (0.81)	wash mode
2326-2	2.38 (0.22)	14 3/8" (366)	23 13/16" (605)	6.54 (0.61)	6.88 (0.64)	55 9/16" (1411)	10.96 (1.02)	wash mode
2330-2	2.98 (0.28)	14 3/8" (366)	29 13/16" (757)	8.23 (0.76)	8.61 (0.80)	49 9/16" (1259)	13.19 (1.23)	wash mode
2336-2	3.58 (0.33)	14 3/8" (366)	35 13/16" (909)	9.91 (0.92)	10.35 (0.96)	43 9/16" (1106)	15.42 (1.43)	wash mode
2340-2	4.18 (0.39)	14 3/8" (366)	41 13/16" (1062)	11.60 (1.08)	12.08 (1.12)	37 9/16" (954)	17.65 (1.64)	wash mode
2346-2	4.78 (0.44)	14 3/8" (366)	47 13/16" (1214)	13.29 (1.23)	13.81 (1.28)	31 9/16" (802)	19.88 (1.85)	wash mode
2350-2	5.38 (0.50)	14 3/8" (366)	53 13/16" (1367)	14.98 (1.39)	15.55 (1.44)	25 9/16" (649)	22.11 (2.05)	wash mode
2356-2	5.98 (0.56)	14 3/8" (366)	59 13/16" (1519)	16.66 (1.55)	17.28 (1.61)	19 9/16" (497)	24.34 (2.26)	wash mode
2360-2	6.58 (0.61)	14 3/8" (366)	65 13/16" (1671)	18.35 (1.70)	19.02 (1.77)	13 9/16" (344)	26.56 (2.47)	wash mode
2620-2	2.15 (0.20)	17 3/8" (442)	17 13/16" (452)	5.57 (0.52)	5.89 (0.55)	61 9/16" (1564)	9.71 (0.90)	wash mode
2626-2	2.88 (0.27)	17 3/8" (442)	23 13/16" (605)	7.51 (0.70)	7.87 (0.73)	55 9/16" (1411)	12.19 (1.13)	wash mode
2630-2	3.60 (0.33)	17 3/8" (442)	29 13/16" (757)	9.45 (0.88)	9.86 (0.92)	49 9/16" (1259)	14.67 (1.36)	wash mode
2636-2	4.33 (0.40)	17 3/8" (442)	35 13/16" (909)	11.38 (1.06)	11.84 (1.10)	43 9/16" (1106)	17.15 (1.59)	wash mode
2640-2 Ø	6.30 (0.59)	21 11/16" (551)	41 13/16" (1062)	13.32 (1.24)	13.82 (1.28)	37 9/16" (954)	19.63 (1.82)	widest clear opening
2646-2 Ø	7.21 (0.67)	21 11/16" (551)	47 13/16" (1214)	15.26 (1.42)	15.81 (1.47)	31 9/16" (802)	22.11 (2.05)	widest clear opening
2650-2 Ø	8.11 (0.75)	21 11/16" (551)	53 13/16" (1367)	17.20 (1.60)	17.79 (1.65)	25 9/16" (649)	24.59 (2.28)	widest clear opening
2656-2 Ø	9.02 (0.84)	21 11/16" (551)	59 13/16" (1519)	19.13 (1.78)	19.77 (1.84)	19 9/16" (497)	27.06 (2.51)	widest clear opening
2660-2 Ø	9.92 (0.92)	21 11/16" (551)	65 13/16" (1671)	21.07 (1.96)	21.76 (2.02)	13 9/16" (344)	29.54 (2.74)	widest clear opening
2920-2	2.52 (0.23)	20 3/8" (518)	17 13/16" (452)	6.29 (0.58)	6.63 (0.62)	61 9/16" (1564)	10.69 (0.99)	wash mode
2926-2	3.37 (0.31)	20 3/8" (518)	23 13/16" (605)	8.48 (0.79)	8.86 (0.82)	55 9/16" (1411)	13.42 (1.25)	wash mode
2930-2	4.22 (0.39)	20 3/8" (518)	29 13/16" (757)	10.66 (0.99)	11.10 (1.03)	49 9/16" (1259)	16.15 (1.50)	wash mode
2936-2 Ø	6.08 (0.57)	24 1/2" (621)	35 13/16" (909)	12.85 (1.19)	13.33 (1.24)	43 9/16" (1106)	18.88 (1.75)	widest clear opening
2940-2 Ø	5.92 (0.55)	20 3/8" (518)	41 13/16" (1062)	15.04 (1.40)	15.56 (1.45)	37 9/16" (954)	21.61 (2.01)	wash mode
2946-2 Ø	6.77 (0.63)	20 3/8" (518)	47 13/16" (1214)	17.23 (1.60)	17.80 (1.65)	31 9/16" (802)	24.34 (2.26)	wash mode
2950-2 Ø	7.62 (0.71)	20 3/8" (518)	53 13/16" (1367)	19.41 (1.80)	20.03 (1.86)	25 9/16" (649)	27.06 (2.51)	wash mode
2956-2 Ø	8.47 (0.79)	20 3/8" (518)	59 13/16" (1519)	21.60 (2.01)	22.27 (2.07)	19 9/16" (497)	29.79 (2.77)	wash mode
2960-2 Ø	9.32 (0.87)	20 3/8" (518)	65 13/16" (1671)	23.79 (2.21)	24.50 (2.28)	13 9/16" (344)	32.52 (3.02)	wash mode
3020-2	2.89 (0.27)	23 3/8" (594)	17 13/16" (452)	7.01 (0.65)	7.37 (0.68)	61 9/16" (1564)	11.67 (1.08)	wash mode
3026-2	3.87 (0.36)	23 3/8" (594)	23 13/16" (605)	9.45 (0.88)	9.86 (0.92)	55 9/16" (1411)	14.65 (1.36)	wash mode
3030-2	4.84 (0.45)	23 3/8" (594)	29 13/16" (757)	11.88 (1.10)	12.34 (1.15)	49 9/16" (1259)	17.63 (1.64)	wash mode
3036-2 Ø	5.82 (0.54)	23 3/8" (594)	35 13/16" (909)	14.32 (1.33)	14.82 (1.38)	43 9/16" (1106)	20.61 (1.91)	wash mode
3040-2 Ø	6.79 (0.63)	23 3/8" (594)	41 13/16" (1062)	16.76 (1.56)	17.31 (1.61)	37 9/16" (954)	23.59 (2.19)	wash mode
3046-2 Ø	7.77 (0.72)	23 3/8" (594)	47 13/16" (1214)	19.20 (1.78)	19.79 (1.84)	31 9/16" (802)	26.56 (2.47)	wash mode
3050-2 Ø	8.74 (0.81)	23 3/8" (594)	53 13/16" (1367)	21.63 (2.01)	22.27 (2.07)	25 9/16" (649)	29.54 (2.74)	wash mode
3056-2 Ø	9.72 (0.90)	23 3/8" (594)	59 13/16" (1519)	24.07 (2.24)	24.76 (2.30)	19 9/16" (497)	32.52 (3.02)	wash mode
3060-2 Ø	10.69 (0.99)	23 3/8" (594)	65 13/16" (1671)	26.51 (2.46)	27.24 (2.53)	13 9/16" (344)	35.50 (3.30)	wash mode

• "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 meters squared.
ØMeet 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	Specified Equal Light With Check Rail (Simulated Check Rail)	Modified Colonial	Tall Fractional	Short Fractional	Victorian
Casement							

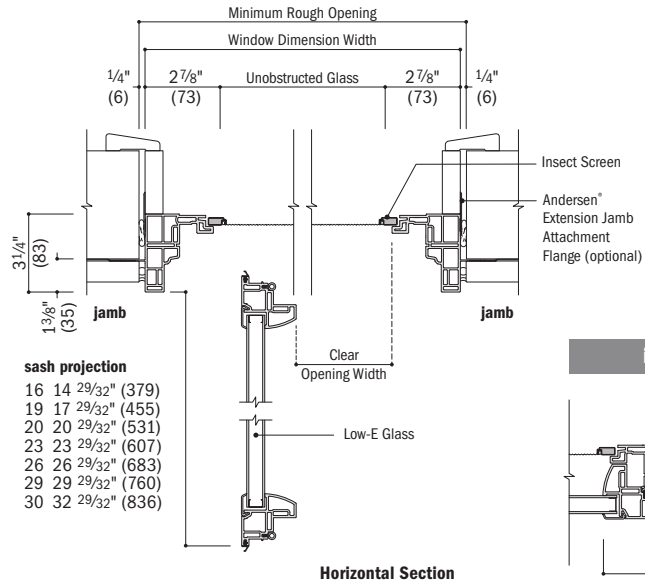
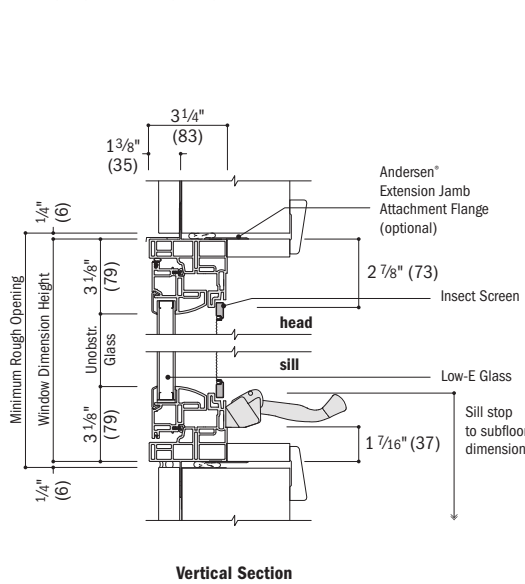
Number of lights and overall pattern varies with window size. Patterns shown may not be available for all sizes.
Specified equal light pattern is also available. For more information on divided light, see page 11 or visit andersenwindows.com/grilles.



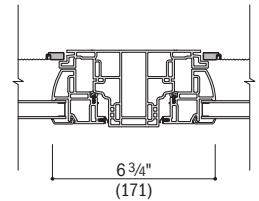
Casement Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

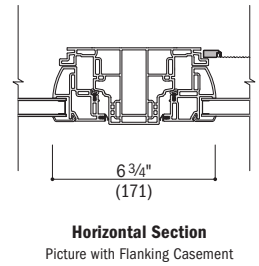
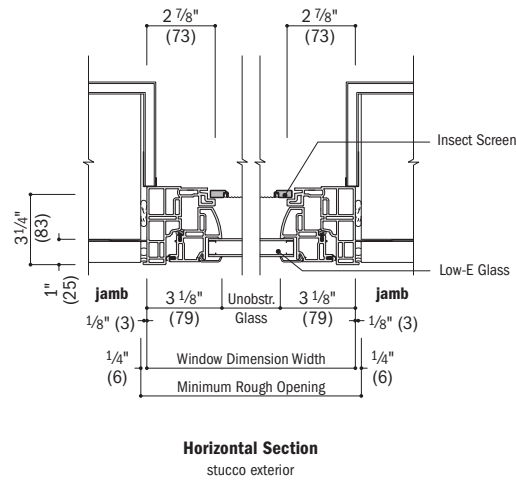
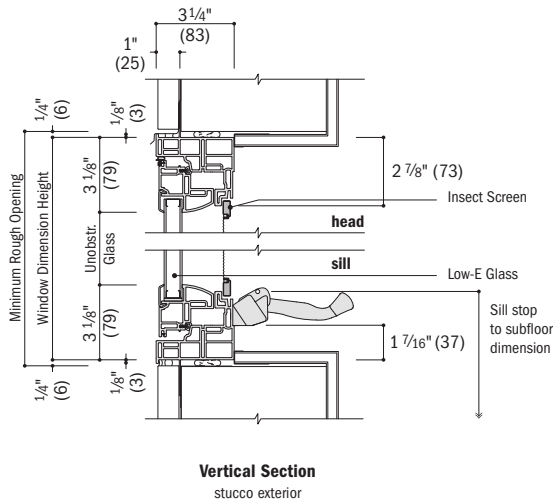
1 3/8" flange setback



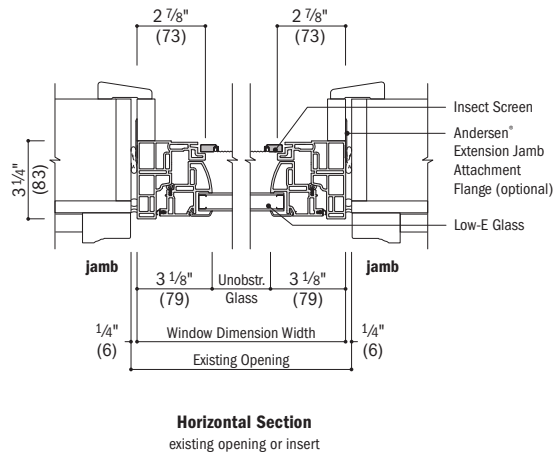
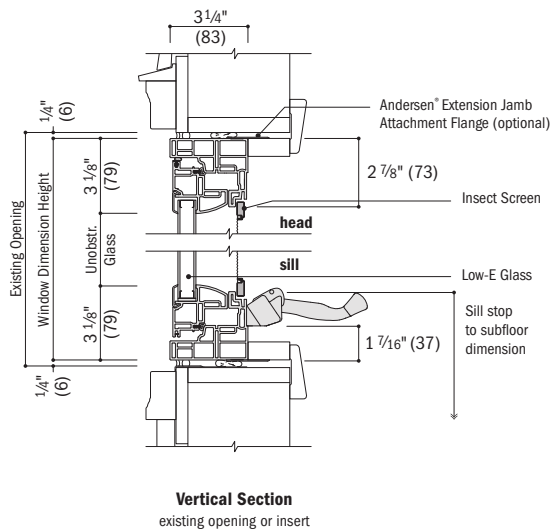
integrals



1" flange setback with stucco key



no flange



See pages 76-77 for horizontal and vertical joining details.

- Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- 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 98.
- 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.

AWNING WINDOWS

Table of Awning Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
Unobstructed Glass	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)

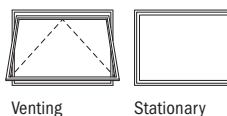
CUSTOM WIDTHS – 1'-5 1/2" to 3'-11 1/2"						
1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	
1616	2016	2616	3016	3616	4016	
1620	2020	2620	3020	3620	4020	
1626	2026	2626	3026	3626	4026	
1630	2030	2630	3030	3630	4030	

CUSTOM HEIGHTS – 1'-5 1/2" to 2'-11 1/2"						
1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"			
1616	2016	2616	3016	3616	4016	
1620	2020	2620	3020	3620	4020	
1626	2026	2626	3026	3626	4026	
1630	2030	2630	3030	3630	4030	



Custom-size windows are available in 1/8" (3) increments.

See page 78 for custom sizes and specifications.



Choose venting or stationary. **Awning window must be installed to vent as shown and should not be rotated and used as a hopper.** Details shown on page 27.

Grille patterns shown on page 25.

Table of Twin Awning Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"	5'-11 1/2"
Minimum Rough Opening	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)	6'-0" (1829)
Unobstructed Glass (width of single sash)	11 1/4" (286)	14 1/4" (362)	17 1/4" (438)	20 1/4" (514)	23 1/4" (591)	26 1/4" (667)	29 1/4" (743)

11 1/2"	1'-0"	1'-6"	1'-11 1/2"	2'-0"	2'-6"	2'-11 1/2"	3'-0"
1610-2	1910-2	2010-2	2310-2	2610-2	2910-2	3010-2	
1616-2	1916-2	2016-2	2316-2	2616-2	2916-2	3016-2	
1620-2	1920-2	2020-2	2320-2	2620-2	2920-2	3020-2	

CUSTOM WIDTHS – 2'-11 1/2" to 5'-11 1/2"							
2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"	5'-11 1/2"	
1616-2	1916-2	2016-2	2316-2	2616-2	2916-2	3016-2	
1620-2	1920-2	2020-2	2320-2	2620-2	2920-2	3020-2	
1626-2	1926-2	2026-2	2326-2	2626-2	2926-2	3026-2	
1630-2	1930-2	2030-2	2330-2	2630-2	2930-2	3030-2	



Custom-size windows are available in 1/8" (3) increments. See page 78 for custom sizes and specifications.

Windows have one continuous outer frame.

Twin transoms are also shown. See pages 64-65 for more information.

Details shown on page 27. Grille patterns shown on page 25.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Table of Sizes for Picture Window over Awning

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
	(597)	(749)	(902)	(1054)	(1207)
Minimum Rough Opening	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	(610)	(762)	(914)	(1067)	(1219)
Unobstructed Glass (height of upper sash)	17 1/4"	23 1/4"	29 1/4"	35 1/4"	41 1/4"
	(438)	(591)	(743)	(895)	(1048)
CUSTOM WIDTHS – 1'-5 1/2" to 3'-11 1/2"					
3'-11 1/2"					
	2020 2020	2620 2620	3020 3020	3620 3620	4020 4020
4'-11 1/2"					
	2026 2026	2626 2626	3026 3026	3626 3626	4026 4026
5'-11 1/2"					
	2030 2030	2630 2630	3030 3030	3630 3630	4030 4030
5'-11 1/2"					
	2040 2020	2640 2620	3040 3020	3640 3620	4040 4020
6'-11 1/2"					
	2040 2030	2640 2630	3040 3030	3640 3630	4040 4030
6'-11 1/2"					
	2050 2020	2650 2620	3050 3020	3650 3620	4050 4020
7'-11 1/2"					
	2050 2030	2650 2630	3050 3030	3650 3630	4050 4030



Custom-size windows are available in 1/8" (3) increments. See page 79 for custom sizes and specifications.

Windows have one continuous outer frame.

For unobstructed glass height dimensions of lower sash, see page 24.

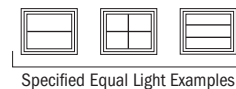
Details shown on page 27. Grille patterns shown below.

Grille Patterns

	Prairie A	Colonial	Modified Colonial*
Awning			
	Tall Fractional	Short Fractional	Victorian

*Available only for the upper sash of a picture window over awning configuration.

Number of lights and overall pattern varies with window size. Patterns shown may not be available for all sizes. Specified equal light pattern is also available. For more information on divided light, see page 11 or visit andersenwindows.com/grilles.



Specified Equal Light 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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

AWNING WINDOWS

Awning Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/(mm)	Depth Inches/(mm)				
1616	0.66 (0.06)	11 13/16" (300)	8" (203)	0.88 (0.08)	0.66 (0.06)	67 9/16" (1716)	2.13 (0.20)
1620	0.66 (0.06)	11 13/16" (300)	8" (203)	1.35 (0.13)	0.66 (0.06)	61 9/16" (1564)	2.86 (0.27)
1626	0.66 (0.06)	11 13/16" (300)	8" (203)	1.82 (0.17)	0.66 (0.06)	55 9/16" (1411)	3.59 (0.33)
1630	0.66 (0.06)	11 13/16" (300)	8" (203)	2.29 (0.21)	0.66 (0.06)	49 9/16" (1259)	4.31 (0.40)
2016	0.99 (0.09)	17 13/16" (452)	8" (203)	1.35 (0.13)	0.99 (0.09)	67 9/16" (1716)	2.86 (0.27)
2020	0.99 (0.09)	17 13/16" (452)	8" (203)	2.07 (0.19)	0.99 (0.09)	61 9/16" (1564)	3.84 (0.36)
2026	0.99 (0.09)	17 13/16" (452)	8" (203)	2.79 (0.26)	0.99 (0.09)	55 9/16" (1411)	4.81 (0.45)
2030	0.99 (0.09)	17 13/16" (452)	8" (203)	3.50 (0.33)	0.99 (0.09)	49 9/16" (1259)	5.79 (0.54)
2616	1.32 (0.12)	23 13/16" (605)	8" (203)	1.82 (0.17)	1.32 (0.12)	67 9/16" (1716)	3.59 (0.33)
2620	1.32 (0.12)	23 13/16" (605)	8" (203)	2.79 (0.26)	1.32 (0.12)	61 9/16" (1564)	4.81 (0.45)
2626	1.32 (0.12)	23 13/16" (605)	8" (203)	3.75 (0.35)	1.32 (0.12)	55 9/16" (1411)	6.04 (0.56)
2630	1.32 (0.12)	23 13/16" (605)	8" (203)	4.72 (0.44)	1.32 (0.12)	49 9/16" (1259)	7.27 (0.68)
3016	1.66 (0.15)	29 13/16" (757)	8" (203)	2.29 (0.21)	1.66 (0.15)	67 9/16" (1716)	4.31 (0.40)
3020	1.66 (0.15)	29 13/16" (757)	8" (203)	3.50 (0.33)	1.66 (0.15)	61 9/16" (1564)	5.79 (0.54)
3026	1.66 (0.15)	29 13/16" (757)	8" (203)	4.72 (0.44)	1.66 (0.15)	55 9/16" (1411)	7.27 (0.68)
3030	1.66 (0.15)	29 13/16" (757)	8" (203)	5.94 (0.55)	1.66 (0.15)	49 9/16" (1259)	8.75 (0.81)
3616	1.99 (0.18)	35 13/16" (909)	8" (203)	2.75 (0.26)	1.99 (0.18)	67 9/16" (1716)	5.04 (0.47)
3620	1.99 (0.18)	35 13/16" (909)	8" (203)	4.22 (0.39)	1.99 (0.18)	61 9/16" (1564)	6.77 (0.63)
3626	1.99 (0.18)	35 13/16" (909)	8" (203)	5.69 (0.53)	1.99 (0.18)	55 9/16" (1411)	8.50 (0.79)
3630	1.99 (0.18)	35 13/16" (909)	8" (203)	7.16 (0.67)	1.99 (0.18)	49 9/16" (1259)	10.23 (0.95)
4016	2.32 (0.22)	41 13/16" (1062)	8" (203)	3.22 (0.30)	2.32 (0.22)	67 9/16" (1716)	5.77 (0.54)
4020	2.32 (0.22)	41 13/16" (1062)	8" (203)	4.94 (0.46)	2.32 (0.22)	61 9/16" (1564)	7.75 (0.72)
4026	2.32 (0.22)	41 13/16" (1062)	8" (203)	6.66 (0.62)	2.32 (0.22)	55 9/16" (1411)	9.73 (0.90)
4030	2.32 (0.22)	41 13/16" (1062)	8" (203)	8.38 (0.78)	2.32 (0.22)	49 9/16" (1259)	11.71 (1.09)

Twin Awning Window Opening and Area Specifications

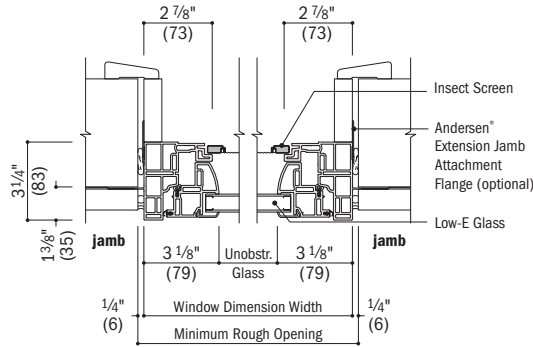
Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/(mm)	Depth Inches/(mm)				
1616-2	0.66 (0.06)	11 13/16" (300)	8" (203)	1.76 (0.16)	1.31 (0.12)	67 9/16" (1716)	4.31 (0.40)
1620-2	0.66 (0.06)	11 13/16" (300)	8" (203)	2.70 (0.25)	1.31 (0.12)	61 9/16" (1564)	5.79 (0.54)
1626-2	0.66 (0.06)	11 13/16" (300)	8" (203)	3.63 (0.34)	1.31 (0.12)	55 9/16" (1411)	7.27 (0.68)
1630-2	0.66 (0.06)	11 13/16" (300)	8" (203)	4.57 (0.42)	1.31 (0.12)	49 9/16" (1259)	8.75 (0.81)
1916-2	0.82 (0.08)	14 13/16" (376)	8" (203)	2.23 (0.21)	1.65 (0.15)	67 9/16" (1716)	5.04 (0.47)
1920-2	0.82 (0.08)	14 13/16" (376)	8" (203)	3.41 (0.32)	1.65 (0.15)	61 9/16" (1564)	6.77 (0.63)
1926-2	0.82 (0.08)	14 13/16" (376)	8" (203)	4.60 (0.43)	1.65 (0.15)	55 9/16" (1411)	8.50 (0.79)
1930-2	0.82 (0.08)	14 13/16" (376)	8" (203)	5.79 (0.54)	1.65 (0.15)	49 9/16" (1259)	10.23 (0.95)
2016-2	0.99 (0.09)	17 13/16" (452)	8" (203)	2.70 (0.25)	1.98 (0.18)	67 9/16" (1716)	5.77 (0.54)
2020-2	0.99 (0.09)	17 13/16" (452)	8" (203)	4.13 (0.38)	1.98 (0.18)	61 9/16" (1564)	7.75 (0.72)
2026-2	0.99 (0.09)	17 13/16" (452)	8" (203)	5.57 (0.52)	1.98 (0.18)	55 9/16" (1411)	9.73 (0.90)
2030-2	0.99 (0.09)	17 13/16" (452)	8" (203)	7.01 (0.65)	1.98 (0.18)	49 9/16" (1259)	11.71 (1.09)
2316-2	1.16 (0.11)	20 13/16" (528)	8" (203)	3.16 (0.29)	2.31 (0.21)	67 9/16" (1716)	6.50 (0.60)
2320-2	1.16 (0.11)	20 13/16" (528)	8" (203)	4.85 (0.45)	2.31 (0.21)	61 9/16" (1564)	8.73 (0.81)
2326-2	1.16 (0.11)	20 13/16" (528)	8" (203)	6.54 (0.61)	2.31 (0.21)	55 9/16" (1411)	10.96 (1.02)
2330-2	1.16 (0.11)	20 13/16" (528)	8" (203)	8.23 (0.76)	2.31 (0.21)	49 9/16" (1259)	13.19 (1.23)
2616-2	1.32 (0.12)	23 13/16" (605)	8" (203)	3.63 (0.34)	2.65 (0.25)	67 9/16" (1716)	7.23 (0.67)
2620-2	1.32 (0.12)	23 13/16" (605)	8" (203)	5.57 (0.52)	2.65 (0.25)	61 9/16" (1564)	9.71 (0.90)
2626-2	1.32 (0.12)	23 13/16" (605)	8" (203)	7.51 (0.70)	2.65 (0.25)	55 9/16" (1411)	12.19 (1.13)
2630-2	1.32 (0.12)	23 13/16" (605)	8" (203)	9.45 (0.88)	2.65 (0.25)	49 9/16" (1259)	14.67 (1.36)
2916-2	1.49 (0.14)	26 13/16" (681)	8" (203)	4.10 (0.38)	2.98 (0.28)	67 9/16" (1716)	7.96 (0.74)
2920-2	1.49 (0.14)	26 13/16" (681)	8" (203)	6.29 (0.58)	2.98 (0.28)	61 9/16" (1564)	10.69 (0.99)
2926-2	1.49 (0.14)	26 13/16" (681)	8" (203)	8.48 (0.79)	2.98 (0.28)	55 9/16" (1411)	13.42 (1.25)
2930-2	1.49 (0.14)	26 13/16" (681)	8" (203)	10.66 (0.99)	2.98 (0.28)	49 9/16" (1259)	16.15 (1.50)
3016-2	1.66 (0.15)	29 13/16" (757)	8" (203)	4.57 (0.42)	3.31 (0.31)	67 9/16" (1716)	8.69 (0.81)
3020-2	1.66 (0.15)	29 13/16" (757)	8" (203)	7.01 (0.65)	3.31 (0.31)	61 9/16" (1564)	11.67 (1.08)
3026-2	1.66 (0.15)	29 13/16" (757)	8" (203)	9.45 (0.88)	3.31 (0.31)	55 9/16" (1411)	14.65 (1.36)
3030-2	1.66 (0.15)	29 13/16" (757)	8" (203)	11.88 (1.10)	3.31 (0.31)	49 9/16" (1259)	17.63 (1.64)

• "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 meters squared.

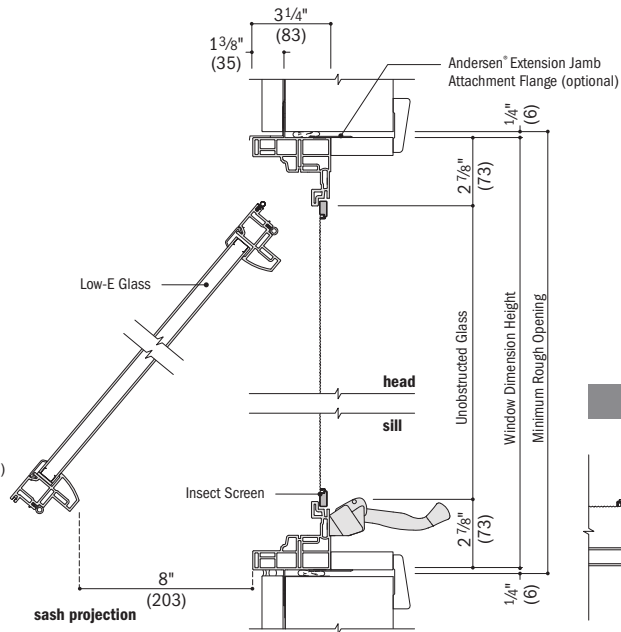
Awning Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

1 3/8" flange setback

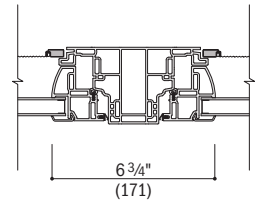


Horizontal Section



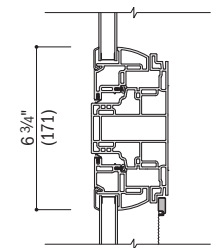
Vertical Section

Integrals



Horizontal Section

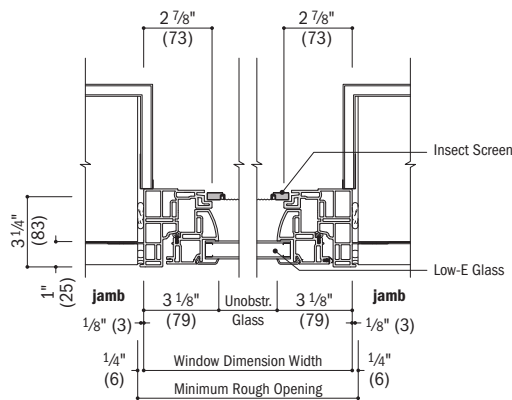
Twin Awning



Vertical Section

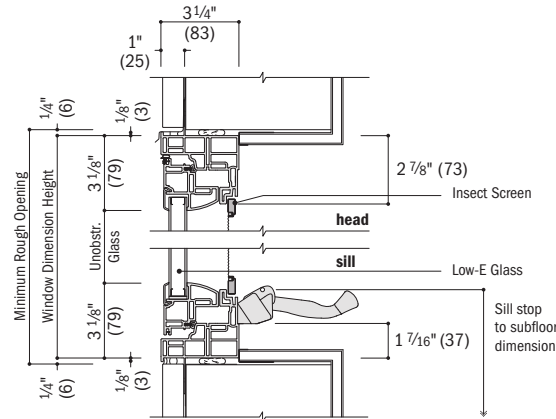
Picture over Awning

1" flange setback with stucco key



Horizontal Section

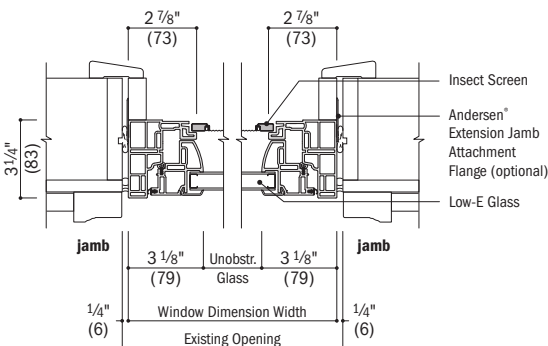
stucco exterior



Vertical Section

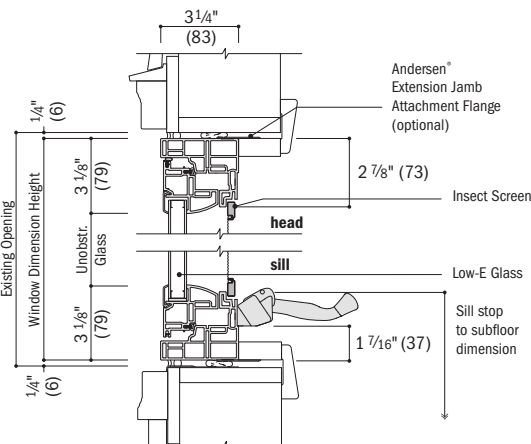
stucco exterior

no flange



Horizontal Section

existing opening or insert



Vertical Section

existing opening or insert

See pages 76-77 for horizontal and vertical joining details.

- Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- 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 98.
- 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.

SINGLE-HUNG WINDOWS

Table of Arch Single-Hung Window Sizes

Scale $\frac{1}{8}$ " (3) = 1'-0" (305) – 1:96

Window Width Dimension		1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"
		(597)	(749)	(902)	(1054)
Minimum Rough Opening		2'-0"	2'-6"	3'-0"	3'-6"
		(610)	(762)	(914)	(1067)
Unobstructed Glass (width of upper sash)		20"	26"	32"	38"
		(508)	(660)	(813)	(965)
Unobstructed Glass (width of lower sash)		17 1/4"	23 1/4"	29 1/4"	35 1/4"
		(438)	(591)	(743)	(895)
Radius		23 1/2" (597)	29 1/2" (749)	35 1/2" (902)	41 1/2" (1054)
Chord Height		3 1/8" (79)	4" (102)	4 3/4" (121)	5 1/2" (140)
Unobstructed Glass (height of lower sash shown below)		10 9/16" (268)	15 7/8" (403)	16 11/16" (424)	17 1/2" (445)
Shoulder Height		2'-5 1/2" (749)	2'-9 1/2" (851)	2'-10 1/4" (870)	2'-11" (889)
Window Height (shown left of window)		2'-8 5/8" (829)	2'-9 1/2" (851)	2'-10 1/4" (870)	2'-11" (889)
Minimum Rough Opening = window height + 1/2" (13)		2'-9 1/8" (842)	2'-10 1/8" (864)	2'-11 1/8" (883)	2'-11 5/8" (902)
		2026	2626	3026	3626
		13 9/16" (345)	18 7/8" (479)	19 11/16" (500)	20 1/2" (521)
		2'-11 1/2" (902)	3'-3 1/2" (1003)	3'-4 1/4" (1022)	3'-5" (1041)
		2030	2630	3030	3630
		16 9/16" (421)	21 7/8" (556)	22 11/16" (576)	23 1/2" (597)
		3'-5 1/2" (1054)	3'-9 1/2" (1156)	3'-10 1/4" (1175)	3'-11" (1194)
		2036	2636	3036	3636
		19 9/16" (497)	24 7/8" (632)	25 11/16" (652)	26 1/2" (673)
		3'-11 1/2" (1207)	4'-3 1/2" (1308)	4'-4 1/4" (1327)	4'-5" (1346)
		2040	2640	3040	3640
		22 9/16" (573)	27 7/8" (708)	28 11/16" (729)	29 1/2" (749)
		4'-5 1/2" (1359)	4'-9 1/2" (1461)	4'-10 1/4" (1480)	4'-11" (1499)
		2046	2646	3046	3646
		25 9/16" (649)	30 7/8" (784)	31 11/16" (805)	32 1/2" (826)
		4'-11 1/2" (1511)	5'-3 1/2" (1613)	5'-4 1/4" (1632)	5'-5" (1651)
		2050	2650	3050 ^Ø	3650 ^Ø
		28 9/16" (726)	33 7/8" (860)	34 11/16" (881)	35 1/2" (902)
		5'-5 1/2" (1664)	5'-9 1/2" (1766)	5'-10 1/4" (1784)	5'-11" (1803)
		2056	2656	3056 ^Ø	3656 ^Ø
		31 9/16" (802)	36 7/8" (937)	37 11/16" (957)	38 1/2" (978)
		5'-11 1/2" (1816)	6'-3 1/2" (1918)	6'-4 1/4" (1937)	6'-5" (1956)
		2060	2660 ^Ø	3060 ^Ø	3660 ^Ø
		34 9/16" (878)	39 7/8" (1013)	40 11/16" (1033)	41 1/2" (1054)
		6'-5 1/2" (1969)	6'-9 1/2" (2070)	6'-10 1/4" (2089)	6'-11" (2108)
		2066	2666 ^Ø	3066 ^Ø	3666 ^Ø

continued on next page



Custom-size windows

are available in $\frac{1}{8}$ " (3)

increments. Contact your Andersen supplier for more information.

For arch single-hung windows, the size designation does not reflect the overall window height. (e.g., a 2026 window size has a shoulder height of 2'-5 1/2" and an overall window height of 2'-8 5/8".)

Height dimensions for upper sash are to the right of each window size and lower sash are to the far left.

Details and grille patterns shown on page 46.

* "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 page 98 for more details.

• Dimensions in parentheses are in millimeters.

ØMeet or exceed clear opening area of 5.7 sq. ft. or (53), clear opening width of 20" (508) and clear opening height of 24" (610). See table on pages 29 and 31.

Table of Arch Single-Hung Window Sizes *(continued)*

Scale $\frac{1}{8}"$ (3) = 1'-0" (305) - 1:96

Window Width Dimension		2'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"
Minimum Rough Opening		(597)	(749)	(902)	(1054)
		2'-0"	2'-6"	3'-0"	3'-6"
		(610)	(762)	(914)	(1067)
Unobstructed Glass (width of upper sash)		20"	26"	32"	38"
		(508)	(660)	(813)	(965)
Unobstructed Glass (width of lower sash)		17 1/4"	23 1/4"	29 1/4"	35 1/4"
		(438)	(591)	(743)	(895)
Radius		23 1/2" (597)	29 1/2" (749)	35 1/2" (902)	41 1/2" (1054)
Unobstructed Glass (height of lower sash shown below)	Chord Height	3 1/8"	4"	4 3/4"	5 1/2"
		(79)	(102)	(121)	(140)
Shoulder Height	Window Height (shown left of window)	6'-11 1/2"	7'-3 1/2"	7'-4 1/4"	7'-5"
		(2121)	(2223)	(2242)	(2261)
24 11/16"		55"	55 13/16"	56 9/16"	57 3/8"
(627)		(1397)	(1418)	(1437)	(1457)
		2070	2670	3070	3670 ^o
		7'-8 5/8"	7'-9 1/2"	7'-10 1/4"	7'-11"
		(2353)	(2375)	(2394)	(2413)
26 11/16"		59"	59 13/16"	60 9/16"	61 3/8"
(678)		(1499)	(1519)	(1538)	(1559)
		2076	2676	3076 ^o	3676 ^o

- "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 page 98 for more details.

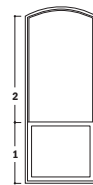
- Dimensions in parentheses are in millimeters.

◆ Meet or exceed clear opening area of 5.7 sq. ft. or (53), clear opening width of 20" (508) and clear opening height of 24" (610). See table on pages 29 and 31.

*For shoulder heights greater than 6'-5 1/2" (1969), check rail location = (shoulder height in inches x 0.33) + 1.96"

For arch single-hung windows, the size designation does not reflect the overall window height.

Height dimensions for upper sash are to the right of each window size and lower sash are to the far left.



Windows with a shoulder height greater than 6'-5 1/2" (1969) are only available with a 2:1 reverse cottage

sash ratio.*

Details and grille patterns shown
on page 46.

Arch Single-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)		Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)		Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
			Width Inches/ (mm)	Height Inches/ (mm)					
2026	1.53	(0.14)	20" (508)	11 1/16" (280)	3.25 (0.30)	1.53 (0.14)	51 3/8" (1304)	5.16 (0.48)	
2030	1.95	(0.18)	20" (508)	14 1/16" (357)	4.03 (0.37)	1.95 (0.18)	45 3/8" (1152)	6.14 (0.57)	
2036	2.37	(0.22)	20" (508)	17 1/16" (433)	4.80 (0.45)	2.37 (0.22)	39 3/8" (1000)	7.12 (0.66)	
2040	2.78	(0.26)	20" (508)	20 1/16" (509)	5.58 (0.52)	2.78 (0.26)	33 3/8" (847)	8.10 (0.75)	
2046	3.20	(0.30)	20" (508)	23 1/16" (585)	6.36 (0.59)	3.20 (0.30)	27 3/8" (695)	9.08 (0.84)	
2050	3.62	(0.34)	20" (508)	26 1/16" (661)	7.13 (0.66)	3.62 (0.34)	21 3/8" (542)	10.06 (0.93)	
2056	4.03	(0.37)	20" (508)	29 1/16" (738)	7.91 (0.73)	4.03 (0.37)	15 3/8" (390)	11.04 (1.03)	
2060	4.45	(0.41)	20" (508)	32 1/16" (814)	8.68 (0.81)	4.45 (0.41)	9 3/8" (238)	12.02 (1.12)	
2066	4.87	(0.45)	20" (508)	35 1/16" (890)	9.46 (0.88)	4.87 (0.45)	-	12.99 (1.21)	
2070	3.48	(0.32)	20" (508)	25 1/16" (636)	10.48 (0.97)	3.48 (0.32)	-	13.97 (1.30)	
2076	3.76	(0.35)	20" (508)	27 1/16" (687)	11.28 (1.05)	3.76 (0.35)	-	14.95 (1.39)	
2626	1.99	(0.19)	26" (660)	11 1/16" (280)	4.39 (0.41)	1.99 (0.19)	50 9/16" (1284)	6.59 (0.61)	
2630	2.53	(0.24)	26" (660)	14 1/16" (357)	5.41 (0.50)	2.53 (0.24)	44 9/16" (1132)	7.82 (0.73)	
2636	3.08	(0.29)	26" (660)	17 1/16" (433)	6.44 (0.60)	3.08 (0.29)	38 9/16" (979)	9.05 (0.84)	
2640	3.62	(0.34)	26" (660)	20 1/16" (509)	7.46 (0.69)	3.62 (0.34)	32 9/16" (827)	10.28 (0.95)	
2646	4.16	(0.39)	26" (660)	23 1/16" (585)	8.49 (0.79)	4.16 (0.39)	26 9/16" (674)	11.51 (1.07)	
2650	4.70	(0.44)	26" (660)	26 1/16" (661)	9.52 (0.88)	4.70 (0.44)	20 9/16" (522)	12.74 (1.18)	
2656	5.24	(0.49)	26" (660)	29 1/16" (738)	10.54 (0.98)	5.24 (0.49)	14 9/16" (370)	13.97 (1.30)	
2660	5.78	(0.54)	26" (660)	32 1/16" (814)	11.57 (1.07)	5.78 (0.54)	8 9/16" (217)	15.20 (1.41)	
2666	6.33	(0.59)	26" (660)	35 1/16" (890)	12.59 (1.17)	6.33 (0.59)	-	16.42 (1.53)	
2670	4.52	(0.42)	26" (660)	25 1/16" (636)	13.87 (1.29)	4.52 (0.42)	-	17.65 (1.64)	
2676	4.88	(0.45)	26" (660)	27 1/16" (687)	14.91 (1.39)	4.88 (0.45)	-	18.88 (1.75)	
3026	2.45	(0.23)	32" (813)	11 1/16" (280)	5.57 (0.52)	2.45 (0.23)	49 3/4" (1263)	8.07 (0.75)	
3030	3.12	(0.29)	32" (813)	14 1/16" (357)	6.84 (0.64)	3.12 (0.29)	43 3/4" (1111)	9.54 (0.89)	

- "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).

continued on page 31

SINGLE-HUNG WINDOWS

Table of Single-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)
Unobstructed Glass (height of single sash)						
CUSTOM WIDTHS – 1'-5 1/2" to 3'-11 1/2"						
CUSTOM HEIGHTS – 1'-11 1/2" to 6'-5 1/2"	1'-11 1/2" (597)	2'-0" (610)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
	2'-5 1/2" (749)	2'-6" (762)	2'-11 1/2" (902)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
	2'-11 1/2" (902)	3'-0" (914)	3'-5 1/2" (1054)	3'-5 1/2" (1054)	3'-11 1/2" (1207)	3'-11 1/2" (1207)
	3'-5 1/2" (1054)	3'-6" (1067)	3'-11 1/2" (1207)	3'-11 1/2" (1207)	3'-11 1/2" (1207)	3'-11 1/2" (1207)
	3'-11 1/2" (1207)	4'-0" (1219)	4'-5 1/2" (1359)	4'-5 1/2" (1359)	4'-5 1/2" (1359)	4'-5 1/2" (1359)
	4'-5 1/2" (1359)	4'-6" (1372)	5'-0" (1511)	5'-0" (1511)	5'-0" (1511)	5'-0" (1511)
	5'-0" (1511)	5'-6" (1676)	5'-11 1/2" (1829)	5'-11 1/2" (1829)	5'-11 1/2" (1829)	5'-11 1/2" (1829)
	5'-11 1/2" (1829)	6'-0" (1829)	6'-5 1/2" (1969)	6'-5 1/2" (1969)	6'-5 1/2" (1969)	6'-5 1/2" (1969)
	6'-5 1/2" (1969)	6'-6" (1981)	6'-11 1/2" (2121)	6'-11 1/2" (2121)	6'-11 1/2" (2121)	6'-11 1/2" (2121)
	6'-11 1/2" (2121)	7'-0" (2134)	7'-5 1/2" (2274)	7'-5 1/2" (2274)	7'-5 1/2" (2274)	7'-5 1/2" (2274)
	7'-0" (2134)	7'-5 1/2" (2274)	7'-5 1/2" (2274)	7'-5 1/2" (2274)	7'-5 1/2" (2274)	7'-5 1/2" (2274)
	7'-5 1/2" (2274)	7'-6" (2286)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)
	7'-6" (2286)	7'-6 1/2" (2298)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)
	7'-6 1/2" (2298)	7'-6 3/4" (2310)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)
	7'-6 3/4" (2310)	7'-6 7/8" (2322)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)
	7'-6 7/8" (2322)	7'-6 15/16" (2334)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)
7'-6 15/16" (2334)	7'-6 31/32" (2346)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 31/32" (2346)	7'-6 1" (2358)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (2358)	7'-6 1 1/16" (2370)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (2370)	7'-6 1 1/8" (2382)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (2382)	7'-6 1 1/4" (2394)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (2394)	7'-6 1 1/2" (2406)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (2406)	7'-6 1 3/4" (2418)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (2418)	7'-6 1 7/8" (2430)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (2430)	7'-6 1 15/16" (2442)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (2442)	7'-6 1 31/32" (2454)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (2454)	7'-6 1" (2466)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (2466)	7'-6 1 1/16" (2478)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (2478)	7'-6 1 1/8" (2490)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (2490)	7'-6 1 1/4" (2502)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (2502)	7'-6 1 1/2" (2514)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (2514)	7'-6 1 3/4" (2526)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (2526)	7'-6 1 7/8" (2538)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (2538)	7'-6 1 15/16" (2550)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (2550)	7'-6 1 31/32" (2562)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (2562)	7'-6 1" (2574)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (2574)	7'-6 1 1/16" (2586)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (2586)	7'-6 1 1/8" (2598)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (2598)	7'-6 1 1/4" (2610)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (2610)	7'-6 1 1/2" (2622)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (2622)	7'-6 1 3/4" (2634)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (2634)	7'-6 1 7/8" (2646)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (2646)	7'-6 1 15/16" (2658)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (2658)	7'-6 1 31/32" (2670)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (2670)	7'-6 1" (2682)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (2682)	7'-6 1 1/16" (2694)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (2694)	7'-6 1 1/8" (2706)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (2706)	7'-6 1 1/4" (2718)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (2718)	7'-6 1 1/2" (2730)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (2730)	7'-6 1 3/4" (2742)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (2742)	7'-6 1 7/8" (2754)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (2754)	7'-6 1 15/16" (2766)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (2766)	7'-6 1 31/32" (2778)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (2778)	7'-6 1" (2790)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (2790)	7'-6 1 1/16" (2802)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (2802)	7'-6 1 1/8" (2814)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (2814)	7'-6 1 1/4" (2826)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (2826)	7'-6 1 1/2" (2838)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (2838)	7'-6 1 3/4" (2850)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (2850)	7'-6 1 7/8" (2862)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (2862)	7'-6 1 15/16" (2874)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (2874)	7'-6 1 31/32" (2886)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (2886)	7'-6 1" (2898)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (2898)	7'-6 1 1/16" (2910)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (2910)	7'-6 1 1/8" (2922)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (2922)	7'-6 1 1/4" (2934)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (2934)	7'-6 1 1/2" (2946)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (2946)	7'-6 1 3/4" (2958)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (2958)	7'-6 1 7/8" (2970)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (2970)	7'-6 1 15/16" (2982)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (2982)	7'-6 1 31/32" (2994)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (2994)	7'-6 1" (3006)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (3006)	7'-6 1 1/16" (3018)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (3018)	7'-6 1 1/8" (3030)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (3030)	7'-6 1 1/4" (3042)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (3042)	7'-6 1 1/2" (3054)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (3054)	7'-6 1 3/4" (3066)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (3066)	7'-6 1 7/8" (3078)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (3078)	7'-6 1 15/16" (3090)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (3090)	7'-6 1 31/32" (3102)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (3102)	7'-6 1" (3114)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (3114)	7'-6 1 1/16" (3126)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (3126)	7'-6 1 1/8" (3138)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/8" (3138)	7'-6 1 1/4" (3150)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/4" (3150)	7'-6 1 1/2" (3162)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/2" (3162)	7'-6 1 3/4" (3174)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 3/4" (3174)	7'-6 1 7/8" (3186)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 7/8" (3186)	7'-6 1 15/16" (3198)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 15/16" (3198)	7'-6 1 31/32" (3210)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 31/32" (3210)	7'-6 1" (3222)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1" (3222)	7'-6 1 1/16" (3234)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	
7'-6 1 1/16" (3234)	7'-6 1 1/8" (3246)	7'-11 1/2" (2426)	7'-11 1/2" (2426)	7'-11 1/2" (		

Table of Single-Hung Window Sizes (continued)

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
Unobstructed Glass	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)

CUSTOM WIDTHS					
7'-5 1/2" (2273)	7'-6" (2286)	54 7/16" (1383)	26 5/8" (676)	1676	2076
				2676†	3076‡
				3676‡	4076‡

CUSTOM HEIGHTS					
1	2	3	4	5	6
1676	2076	2676†	3076‡	3676‡	4076‡

- "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 page 98 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 pages 31-32.
- **For heights greater than 6'-5 1/2" (1969), check rail location = (window height in inches x 0.33) + 1.96".
- †Drywall pass-through window available for these standard and reverse cottage sizes and for custom-size windows wider than 1'-11 1/2" (597) and taller than 4'-5 1/2" (1359).

Windows with a height greater than 6'-5 1/2" (1969) are only available with a 2:1 reverse cottage sash ratio.**

Arch Single-Hung Window Opening and Area Specifications (continued from page 29)

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/(mm)	Height Inches/(mm)				
3036	3.79 (0.35)	32" (813)	17 1/16" (433)	8.12 (0.75)	3.79 (0.35)	37 3/4" (959)	11.02 (1.02)
3040	4.45 (0.41)	32" (813)	20 1/16" (509)	9.39 (0.87)	4.45 (0.41)	31 3/4" (806)	12.50 (1.16)
3046	5.12 (0.48)	32" (813)	23 1/16" (585)	10.67 (0.99)	5.12 (0.48)	25 3/4" (654)	13.98 (1.30)
3050 ◊	5.79 (0.54)	32" (813)	26 1/16" (661)	11.95 (1.11)	5.79 (0.54)	19 3/4" (501)	15.46 (1.44)
3056 ◊	6.45 (0.60)	32" (813)	29 1/16" (738)	13.22 (1.23)	6.45 (0.60)	13 3/4" (349)	16.94 (1.57)
3060 ◊	7.12 (0.66)	32" (813)	32 1/16" (814)	14.50 (1.35)	7.12 (0.66)	7 3/4" (197)	18.42 (1.71)
3066 ◊	7.79 (0.72)	32" (813)	35 1/16" (890)	15.77 (1.47)	7.79 (0.72)	-	19.90 (1.85)
3070	5.56 (0.52)	32" (813)	25 1/16" (636)	17.30 (1.61)	5.56 (0.52)	-	21.38 (1.99)
3076 ◊	6.01 (0.56)	32" (813)	27 1/16" (687)	18.59 (1.73)	6.01 (0.56)	-	22.86 (2.12)
3626	2.91 (0.27)	38" (965)	11 1/16" (280)	6.79 (0.63)	2.91 (0.27)	48 15/16" (1243)	9.59 (0.89)
3630	3.70 (0.34)	38" (965)	14 1/16" (357)	8.32 (0.77)	3.70 (0.34)	42 15/16" (1091)	11.31 (1.05)
3636	4.50 (0.42)	38" (965)	17 1/16" (433)	9.84 (0.91)	4.50 (0.42)	36 15/16" (938)	13.04 (1.21)
3640	5.29 (0.49)	38" (965)	20 1/16" (509)	11.37 (1.06)	5.29 (0.49)	30 15/16" (786)	14.77 (1.37)
3646	6.08 (0.56)	38" (965)	23 1/16" (585)	12.89 (1.20)	6.08 (0.56)	24 15/16" (633)	16.50 (1.53)
3650 ◊	6.87 (0.64)	38" (965)	26 1/16" (661)	14.42 (1.34)	6.87 (0.64)	18 15/16" (481)	18.23 (1.69)
3656 ◊	7.66 (0.71)	38" (965)	29 1/16" (738)	15.95 (1.48)	7.66 (0.71)	12 15/16" (329)	19.96 (1.85)
3660 ◊	8.45 (0.79)	38" (965)	32 1/16" (814)	17.47 (1.62)	8.45 (0.79)	6 15/16" (176)	21.69 (2.02)
3666 ◊	9.25 (0.86)	38" (965)	35 1/16" (890)	19.00 (1.77)	9.25 (0.86)	-	23.42 (2.18)
3670 ◊	6.61 (0.61)	38" (965)	25 1/16" (636)	20.77 (1.93)	6.61 (0.61)	-	25.15 (2.34)
3676 ◊	7.14 (0.66)	38" (965)	27 1/16" (687)	22.32 (2.07)	7.14 (0.66)	-	26.88 (2.50)

Single-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/(mm)	Height Inches/(mm)				
1620	0.78 (0.07)	14" (356)	8 1/16" (204)	1.18 (0.11)	0.78 (0.07)	60 1/2" (1537)	2.86 (0.27)
1626	1.07 (0.10)	14" (356)	11 1/16" (280)	1.65 (0.15)	1.07 (0.10)	54 1/2" (1384)	3.59 (0.33)
1630	1.37 (0.13)	14" (356)	14 1/16" (357)	2.12 (0.20)	1.37 (0.13)	48 1/2" (1232)	4.31 (0.40)
1636	1.66 (0.15)	14" (356)	17 1/16" (433)	2.59 (0.24)	1.66 (0.15)	42 1/2" (1080)	5.04 (0.47)
1640	1.95 (0.18)	14" (356)	20 1/16" (509)	3.05 (0.28)	1.95 (0.18)	36 1/2" (927)	5.77 (0.54)
1646	2.24 (0.21)	14" (356)	23 1/16" (585)	3.52 (0.33)	2.24 (0.21)	30 1/2" (775)	6.50 (0.60)
1650	2.53 (0.24)	14" (356)	26 1/16" (661)	3.99 (0.37)	2.53 (0.24)	24 1/2" (622)	7.23 (0.67)
1656	2.82 (0.26)	14" (356)	29 1/16" (738)	4.46 (0.41)	2.82 (0.26)	18 1/2" (470)	7.96 (0.74)
1660	3.12 (0.29)	14" (356)	32 1/16" (814)	4.93 (0.46)	3.12 (0.29)	12 1/2" (318)	8.69 (0.81)
1666	3.41 (0.32)	14" (356)	35 1/16" (890)	5.40 (0.50)	3.41 (0.32)	6 1/2" (165)	9.42 (0.88)
1670*	2.43 (0.23)	14" (356)	25 1/16" (636)	5.87 (0.55)	2.43 (0.23)	-	10.15 (0.94)

- "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).
- *Available only with a 2:1 reverse cottage sash ratio.

continued on page 37

For reverse cottage, twin and triple single-hung window specifications see pages 39, 41 and 43.

SINGLE-HUNG WINDOWS

Table of Twin and Triple Single-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-11 1/2"	3'-11 1/2"	4'-11 1/2"	5'-11 1/2"	6'-11 1/2"	7'-11 1/2"	4'-5 1/2"
	(902)	(1207)	(1511)	(1816)	(2121)	(2426)	(1359)
Minimum Rough Opening	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	4'-6"
	(914)	(1219)	(1524)	(1829)	(2134)	(2438)	(1372)
Unobstructed Glass (width of single sash)	11 1/4"	17 1/4"	23 1/4"	29 1/4"	35 1/4"	41 1/4"	11 1/4"
	(286)	(438)	(591)	(743)	(895)	(1048)	(286)
CUSTOM WIDTHS TWIN – 2'-11 1/2" to 7'-11 1/2"							
CUSTOM HEIGHTS – 1'-11 1/2" to 5'-11 1/2"	 1610-2	 2010-2	 2610-2	 3010-2	 3610-2	 4010-2	 1610-3
	 1616-2	 2016-2	 2616-2	 3016-2	 3616-2	 4016-2	 1616-3
	 1620-2	 2020-2	 2620-2	 3020-2	 3620-2	 4020-2	 1620-3
	 1620-2	 2020-2	 2620-2	 3020-2	 3620-2	 4020-2	 1620-3
	 1626-2	 2026-2	 2626-2	 3026-2	 3626-2	 4026-2	 1626-3
	 1630-2	 2030-2	 2630-2	 3030-2	 3630-2	 4030-2	 1630-3
	 1636-2	 2036-2	 2636-2	 3036-2	 3636-2	 4036-2	 1636-3
	 1640-2	 2040-2	 2640-2	 3040-2	 3640-2	 4040-2	 1640-3
	 1646-2	 2046-2	 2646-2	 3046-2	 3646-2	 4046-2	 1646-3
	 1650-2	 2050-2	 2650-2	 3050-2°	 3650-2°	 4050-2°	 1650-3
	 1656-2	 2056-2	 2656-2	 3056-2°	 3656-2°	 4056-2°	 1656-3
	 1660-2	 2060-2	 2660-2°	 3060-2°	 3660-2°	 4060-2°	 1660-3

• "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 page 98 for more details.

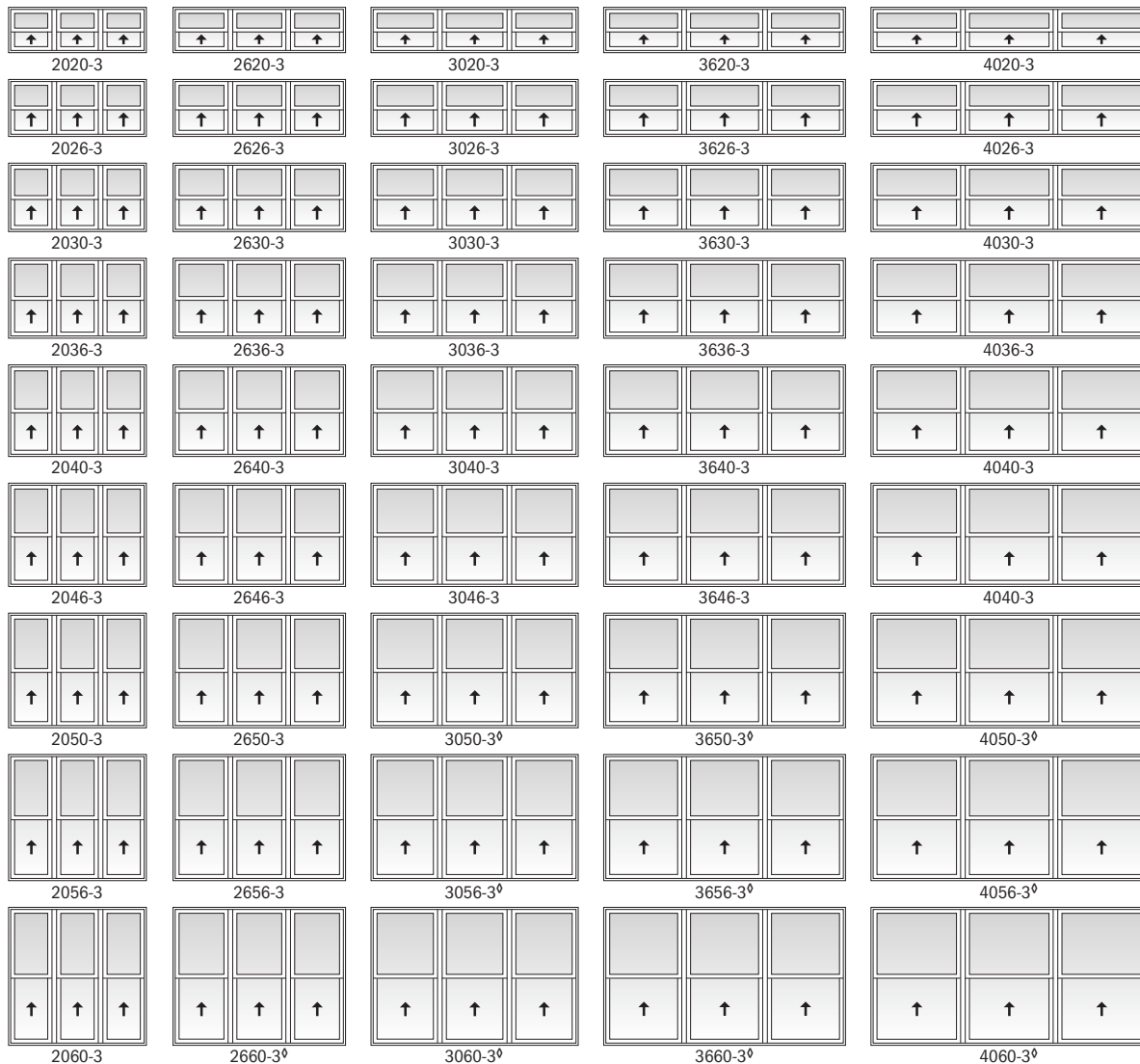
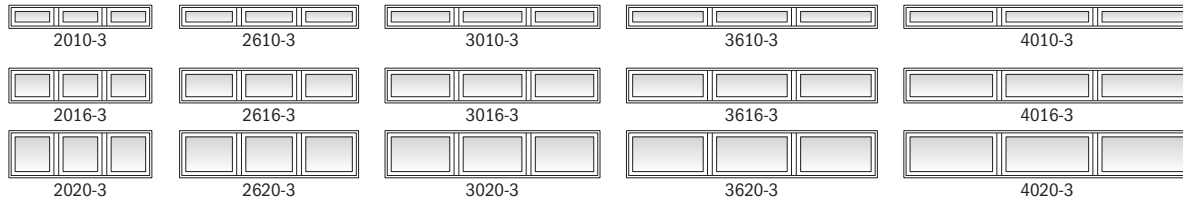
• Dimensions in parentheses are in millimeters.

°Meet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See tables on pages 41 and 43.

Notes on this page also apply to previous page.

5'-11 1/2" (1816)	7'-5 1/2" (2273)	8'-11 1/2" (2731)	10'-5 1/2" (3188)	11'-11 1/2" (3645)
6'-0" (1829)	7'-6" (2286)	9'-0" (2743)	10'-6" (3200)	12'-0" (3658)
17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)

TRIPLE – 4'-5 1/2" to 11'-11 1/2"



Custom-size windows are available in 1/8" (3) increments. See page 79 for custom sizes and specifications.

Windows have one continuous outer frame.

Twin and triple transoms are also shown. See pages 64-65 for more information.

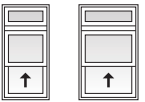
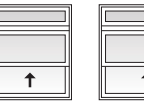
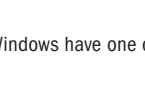
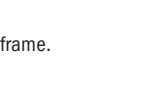
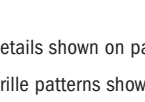
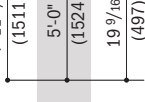
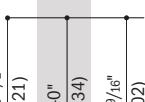
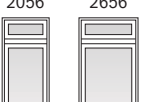
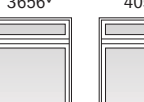
Details shown on page 47. Grille patterns shown on page 46.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.
- ◊Meet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See tables on pages 41 and 43.

SINGLE-HUNG WINDOWS

Table of Sizes for 10-High Transom Window Over Single-Hung

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
Unobstructed Glass (height of individual single-hung sash only)	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)
3'-11 1/2" (1207)						
	1610 1630	2010 2030	2610 2630	3010 3030	3610 3630	4010 4030
4'-5 1/2" (1359)						
	1610 1636	2010 2036	2610 2636	3010 3036	3610 3636	4010 4036
4'-11 1/2" (1511)						
	1610 1640	2010 2040	2610 2640	3010 3040	3610 3640	4010 4040
5'-5 1/2" (1664)						
	1610 1646	2010 2046	2610 2646	3010 3046	3610 3646	4010 4046
5'-11 1/2" (1816)						
	1610 1650	2010 2050	2610 2650	3010 3050 ^o	3610 3650 ^o	4010 4050 ^o
6'-5 1/2" (1969)						
	1610 1656	2010 2056	2610 2656	3010 3056 ^o	3610 3656 ^o	4010 4056 ^o
6'-11 1/2" (2121)						
	1610 1660	2010 2060	2610 2660 ^o	3010 3060 ^o	3610 3660 ^o	4010 4060 ^o

Windows have one continuous outer frame.

Unobstructed glass height dimension of upper transom sash is 5 1/4" (133).

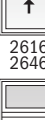
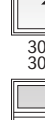
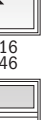
Details shown on page 47.

Grille patterns shown on page 46.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.
- Meet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Table of Sizes for 16-High Transom Window Over Single-Hung

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
Unobstructed Glass (height of individual single-hung sash only)	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)
4'-5 1/2" (1359) 4'-6" (1372) 13 9/16" (345)	 1616 1630	 2016 2030	 2616 2630	 3016 3030	 3616 3630	 4016 4030
4'-11 1/2" (1511) 5'-0" (1524) 16 9/16" (421)	 1616 1636	 2016 2036	 2616 2636	 3016 3036	 3616 3636	 4016 4036
5'-5 1/2" (1664) 5'-6" (1676) 19 9/16" (497)	 1616 1640	 2016 2040	 2616 2640	 3016 3040	 3616 3640	 4016 4040
5'-11 1/2" (1816) 6'-0" (1829) 22 9/16" (573)	 1616 1646	 2016 2046	 2616 2646	 3016 3046	 3616 3646	 4016 4046
6'-5 1/2" (1969) 6'-6" (1981) 25 9/16" (649)	 1616 1650	 2016 2050	 2616 2650	 3016 3050 ^Ø	 3616 3650 ^Ø	 4016 4050 ^Ø
6'-11 1/2" (2121) 7'-0" (2134) 28 9/16" (726)	 1616 1656	 2016 2056	 2616 2656	 3016 3056 ^Ø	 3616 3656 ^Ø	 4016 4056 ^Ø
7'-5 1/2" (2273) 7'-6" (2286) 31 9/16" (802)	 1616 1660	 2016 2060	 2616 2660 ^Ø	 3016 3060 ^Ø	 3616 3660 ^Ø	 4016 4060 ^Ø

Windows have one continuous outer frame.

Unobstructed glass height dimension of upper transom sash is 11 1/4" (286).

Details shown on page 47.

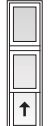
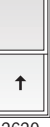
Grille patterns shown on page 46.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.
- ^ØMeet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

SINGLE-HUNG WINDOWS

Table of Sizes for 20-High Transom Window Over Single-Hung

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
Unobstructed Glass (height of individual single-hung sash only)	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)
4'-11 1/2" (1511)						
5'-5 1/2" (1664)						
5'-11 1/2" (1816)						
6'-5 1/2" (1969)						
6'-11 1/2" (2121)						
7'-5 1/2" (2273)						
7'-11 1/2" (2426)						

Windows have one continuous outer frame.

Unobstructed glass height dimension of upper transom sash is 17 1/4" (438).

Details shown on page 47.

Grille patterns shown on page 46.

- "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 page 98 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).

Single-Hung Window Opening and Area Specifications *(continued from page 31)*

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/(mm)	Height Inches/(mm)				
1676*	2.63 (0.24)	14" (356)	27 1/16" (687)	6.34 (0.59)	2.63 (0.24)	-	10.88 (1.01)
2020	1.12 (0.10)	20" (508)	8 1/16" (204)	1.81 (0.17)	1.12 (0.10)	60 1/2" (1537)	3.84 (0.36)
2026	1.53 (0.14)	20" (508)	11 1/16" (280)	2.53 (0.24)	1.53 (0.14)	54 1/2" (1384)	4.81 (0.45)
2030	1.95 (0.18)	20" (508)	14 1/16" (357)	3.25 (0.30)	1.95 (0.18)	48 1/2" (1232)	5.79 (0.54)
2036	2.37 (0.22)	20" (508)	17 1/16" (433)	3.96 (0.37)	2.37 (0.22)	42 1/2" (1080)	6.77 (0.63)
2040	2.78 (0.26)	20" (508)	20 1/16" (509)	4.68 (0.44)	2.78 (0.26)	36 1/2" (927)	7.75 (0.72)
2046	3.20 (0.30)	20" (508)	23 1/16" (585)	5.40 (0.50)	3.20 (0.30)	30 1/2" (775)	8.73 (0.81)
2050	3.62 (0.34)	20" (508)	26 1/16" (661)	6.12 (0.57)	3.62 (0.34)	24 1/2" (622)	9.71 (0.90)
2056	4.03 (0.38)	20" (508)	29 1/16" (738)	6.84 (0.64)	4.03 (0.38)	18 1/2" (470)	10.69 (0.99)
2060	4.45 (0.41)	20" (508)	32 1/16" (814)	7.56 (0.70)	4.45 (0.41)	12 1/2" (318)	11.67 (1.08)
2066	4.87 (0.45)	20" (508)	35 1/16" (890)	8.28 (0.77)	4.87 (0.45)	6 1/2" (165)	12.65 (1.18)
2070*	3.48 (0.32)	20" (508)	25 1/16" (636)	9.00 (0.84)	3.48 (0.32)	-	13.63 (1.27)
2076*	3.76 (0.35)	20" (508)	27 1/16" (687)	9.71 (0.90)	3.76 (0.35)	-	14.61 (1.36)
2620	1.45 (0.14)	26" (660)	8 1/16" (204)	2.44 (0.23)	1.45 (0.14)	60 1/2" (1537)	4.81 (0.45)
2626	1.99 (0.19)	26" (660)	11 1/16" (280)	3.41 (0.32)	1.99 (0.19)	54 1/2" (1384)	6.04 (0.56)
2630	2.54 (0.24)	26" (660)	14 1/16" (357)	4.37 (0.41)	2.54 (0.24)	48 1/2" (1232)	7.27 (0.68)
2636	3.08 (0.29)	26" (660)	17 1/16" (433)	5.34 (0.50)	3.08 (0.29)	42 1/2" (1080)	8.50 (0.79)
2640	3.62 (0.34)	26" (660)	20 1/16" (509)	6.31 (0.59)	3.62 (0.34)	36 1/2" (927)	9.73 (0.90)
2646	4.16 (0.39)	26" (660)	23 1/16" (585)	7.28 (0.68)	4.16 (0.39)	30 1/2" (775)	10.96 (1.02)
2650	4.70 (0.44)	26" (660)	26 1/16" (661)	8.25 (0.77)	4.70 (0.44)	24 1/2" (622)	12.19 (1.13)
2656	5.24 (0.49)	26" (660)	29 1/16" (738)	9.22 (0.86)	5.24 (0.49)	18 1/2" (470)	13.42 (1.25)
2660 ◊	5.79 (0.54)	26" (660)	32 1/16" (814)	10.19 (0.95)	5.79 (0.54)	12 1/2" (318)	14.65 (1.36)
2666 ◊	6.33 (0.59)	26" (660)	35 1/16" (890)	11.16 (1.04)	6.33 (0.45)	6 1/2" (165)	15.88 (1.48)
2670*	4.52 (0.42)	26" (660)	25 1/16" (636)	12.12 (1.13)	4.52 (0.42)	-	17.11 (1.59)
2676*	4.88 (0.45)	26" (660)	27 1/16" (687)	13.09 (1.22)	4.88 (0.45)	-	18.34 (1.70)
3020	1.79 (0.17)	32" (813)	8 1/16" (204)	3.07 (0.29)	1.79 (0.17)	60 1/2" (1537)	5.79 (0.54)
3026	2.45 (0.23)	32" (813)	11 1/16" (280)	4.28 (0.40)	2.45 (0.23)	54 1/2" (1384)	7.27 (0.68)
3030	3.12 (0.29)	32" (813)	14 1/16" (357)	5.50 (0.51)	3.12 (0.29)	48 1/2" (1232)	8.75 (0.81)
3036	3.79 (0.35)	32" (813)	17 1/16" (433)	6.72 (0.62)	3.79 (0.35)	42 1/2" (1080)	10.23 (0.95)
3040	4.45 (0.41)	32" (813)	20 1/16" (509)	7.94 (0.74)	4.45 (0.41)	36 1/2" (927)	11.71 (1.09)
3046	5.12 (0.48)	32" (813)	23 1/16" (585)	9.16 (0.85)	5.12 (0.48)	30 1/2" (775)	13.19 (1.23)
3050 ◊	5.79 (0.54)	32" (813)	26 1/16" (661)	10.38 (0.96)	5.79 (0.54)	24 1/2" (622)	14.67 (1.36)
3056 ◊	6.45 (0.60)	32" (813)	29 1/16" (738)	11.60 (1.08)	6.45 (0.60)	18 1/2" (470)	16.15 (1.50)
3060 ◊	7.12 (0.66)	32" (813)	32 1/16" (814)	12.82 (1.19)	7.12 (0.66)	12 1/2" (318)	17.63 (1.64)
3066 ◊	7.79 (0.72)	32" (813)	35 1/16" (890)	14.03 (1.30)	7.79 (0.72)	6 1/2" (165)	19.11 (1.78)
3070*	5.56 (0.52)	32" (813)	25 1/16" (636)	15.25 (1.42)	5.56 (0.52)	-	20.59 (1.91)
3076 ◊*	6.01 (0.56)	32" (813)	27 1/16" (687)	16.47 (1.53)	6.01 (0.56)	-	22.06 (2.05)
3620	2.12 (0.20)	38" (965)	8 1/16" (204)	3.69 (0.34)	2.12 (0.20)	60 1/2" (1537)	6.77 (0.63)
3626	2.91 (0.27)	38" (965)	11 1/16" (280)	5.16 (0.48)	2.91 (0.27)	54 1/2" (1384)	8.50 (0.79)
3630	3.71 (0.34)	38" (965)	14 1/16" (357)	6.63 (0.62)	3.71 (0.34)	48 1/2" (1232)	10.23 (0.95)
3636	4.50 (0.42)	38" (965)	17 1/16" (433)	8.10 (0.75)	4.50 (0.42)	42 1/2" (1080)	11.96 (1.11)
3640	5.29 (0.49)	38" (965)	20 1/16" (509)	9.57 (0.89)	5.29 (0.49)	36 1/2" (927)	13.69 (1.27)
3646	6.08 (0.57)	38" (965)	23 1/16" (585)	11.04 (1.03)	6.08 (0.57)	30 1/2" (775)	15.42 (1.43)
3650 ◊	6.87 (0.64)	38" (965)	26 1/16" (661)	12.51 (1.16)	6.87 (0.64)	24 1/2" (622)	17.15 (1.59)
3656 ◊	7.66 (0.71)	38" (965)	29 1/16" (738)	13.98 (1.30)	7.66 (0.71)	18 1/2" (470)	18.88 (1.75)
3660 ◊	8.46 (0.79)	38" (965)	32 1/16" (814)	15.44 (1.44)	8.46 (0.79)	12 1/2" (318)	20.61 (1.91)
3666 ◊	9.25 (0.86)	38" (965)	35 1/16" (890)	16.91 (1.57)	9.25 (0.86)	6 1/2" (165)	22.34 (2.08)
3670 ◊*	6.61 (0.61)	38" (965)	25 1/16" (636)	18.38 (1.71)	6.61 (0.61)	-	24.06 (2.24)
3676 ◊*	7.14 (0.66)	38" (965)	27 1/16" (687)	19.85 (1.84)	7.14 (0.66)	-	25.79 (2.40)
4020	2.46 (0.23)	44" (1118)	8 1/16" (204)	4.32 (0.40)	2.46 (0.23)	60 1/2" (1537)	7.75 (0.72)
4026	3.37 (0.31)	44" (1118)	11 1/16" (280)	6.04 (0.56)	3.37 (0.31)	54 1/2" (1384)	9.73 (0.90)
4030	4.29 (0.40)	44" (1118)	14 1/16" (357)	7.76 (0.72)	4.29 (0.40)	48 1/2" (1232)	11.71 (1.09)
4036	5.21 (0.48)	44" (1118)	17 1/16" (433)	9.48 (0.88)	5.21 (0.48)	42 1/2" (1080)	13.69 (1.27)
4040	6.12 (0.57)	44" (1118)	20 1/16" (509)	11.20 (1.04)	6.12 (0.57)	36 1/2" (927)	15.67 (1.46)
4046	7.04 (0.65)	44" (1118)	23 1/16" (585)	12.92 (1.20)	7.04 (0.65)	30 1/2" (775)	17.65 (1.64)
4050 ◊	7.96 (0.74)	44" (1118)	26 1/16" (661)	14.64 (1.36)	7.96 (0.74)	24 1/2" (622)	19.63 (1.82)
4056 ◊	8.87 (0.82)	44" (1118)	29 1/16" (738)	16.35 (1.52)	8.87 (0.82)	18 1/2" (470)	21.61 (2.01)
4060 ◊	9.79 (0.91)	44" (1118)	32 1/16" (814)	18.07 (1.68)	9.79 (0.91)	12 1/2" (318)	23.59 (2.19)
4066 ◊	10.71 (1.00)	44" (1118)	35 1/16" (890)	19.79 (1.84)	10.70 (1.00)	6 1/2" (165)	25.56 (2.38)
4070 ◊*	7.65 (0.71)	44" (1118)	25 1/16" (636)	21.51 (2.00)	7.65 (0.71)	-	27.54 (2.56)
4076 ◊*	8.26 (0.77)	44" (1118)	27 1/16" (687)	23.23 (2.16)	8.26 (0.77)	-	29.52 (2.74)

For arch single-hung window

specifications, see pages 29 and 31.

For reverse cottage, twin and triple

single-hung window specifications,

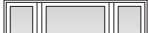
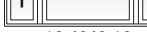
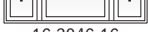
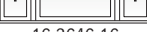
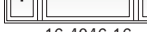
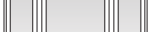
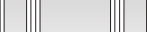
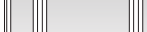
see pages 39, 41 and 43.

- "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).
- * Available only with a 2:1 reverse cottage sash ratio.

SINGLE-HUNG WINDOWS

Table of Sizes for Picture Window with Flanking 16-Wide Single-Hungs

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	5'-11 1/2" (1816)	6'-5 1/2" (1969)	6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)	8'-5 1/2" (2578)
Minimum Rough Opening	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)
Unobstructed Glass (center sash only)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)	47 1/4" (1200)	53 1/4" (1353)	59 1/4" (1505)
11 1/4" (292) 1'-0" (305) 5 1/4" (133)						
1'-5 1/2" (445) 1'-6" (457) 11 1/4" (286)						
1'-11 1/2" (597) 2'-0" (610) 17 1/4" (438)						
3'-11 1/2" (1207) 4'-0" (1219) 41 1/4" (1048)						
4'-5 1/2" (1359) 4'-6" (1372) 47 1/4" (1200)						
4'-11 1/2" (1511) 5'-0" (1524) 53 1/4" (1353)						
5'-5 1/2" (1664) 5'-6" (1676) 59 1/4" (1505)						
5'-11 1/2" (1816) 6'-0" (1829) 65 1/4" (1657)						

Windows have one continuous outer frame.

Unobstructed glass width dimension of flanking

sash is 11 1/4" (286). For unobstructed glass height

dimensions of flanking single-hungs, see page 30.

Matching transoms are also shown.

Details shown on page 47.

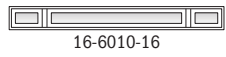
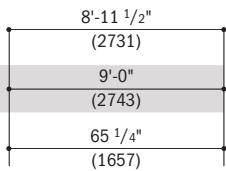
Grille patterns shown on page 46.

• "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 page 98 for more details.

• Dimensions in parentheses are in millimeters.

See notes on previous page.



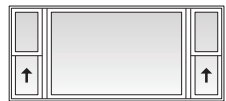
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16-6016-16



16-6020-16



16-6040-16



16-6046-16



16-6050-16



16-6056-16



16-6060-16

Single-Hung Window Opening and Area Specifications - 3:2 Reverse Cottage Sash Ratio

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)				
1626	0.88 (0.08)	14" (356)	9 1/16" (230)	1.65 (0.15)	0.88 (0.08)	54 1/2" (1384)	3.59 (0.33)
1630	1.07 (0.10)	14" (356)	11 1/16" (280)	2.12 (0.20)	1.07 (0.10)	48 1/2" (1232)	4.31 (0.40)
1636	1.37 (0.13)	14" (356)	14 1/16" (357)	2.59 (0.24)	1.37 (0.13)	42 1/2" (1080)	5.04 (0.47)
1640	1.56 (0.15)	14" (356)	16 1/16" (407)	3.05 (0.28)	1.56 (0.15)	36 1/2" (927)	5.77 (0.54)
1646	1.85 (0.17)	14" (356)	19 1/16" (484)	3.52 (0.33)	1.85 (0.17)	30 1/2" (775)	6.50 (0.60)
1650	2.05 (0.19)	14" (356)	21 1/16" (534)	3.99 (0.37)	2.05 (0.19)	24 1/2" (622)	7.23 (0.67)
1656	2.24 (0.21)	14" (356)	23 1/16" (585)	4.46 (0.41)	2.24 (0.21)	18 1/2" (470)	7.96 (0.74)
1660	2.53 (0.24)	14" (356)	26 1/16" (661)	4.93 (0.46)	2.53 (0.24)	12 1/2" (318)	8.69 (0.81)
1666	2.73 (0.25)	14" (356)	28 1/16" (712)	5.40 (0.50)	2.73 (0.25)	6 1/2" (165)	9.42 (0.88)
2026	1.26 (0.12)	20" (508)	9 1/16" (230)	2.53 (0.24)	1.26 (0.12)	54 1/2" (1384)	4.81 (0.45)
2030	1.53 (0.14)	20" (508)	11 1/16" (280)	3.25 (0.30)	1.53 (0.14)	48 1/2" (1232)	5.79 (0.54)
2036	1.95 (0.18)	20" (508)	14 1/16" (357)	3.96 (0.37)	1.95 (0.18)	42 1/2" (1080)	6.77 (0.63)
2040	2.23 (0.21)	20" (508)	16 1/16" (407)	4.68 (0.44)	2.23 (0.21)	36 1/2" (927)	7.75 (0.72)
2046	2.64 (0.25)	20" (508)	19 1/16" (484)	5.40 (0.50)	2.64 (0.25)	30 1/2" (775)	8.73 (0.81)
2050	2.92 (0.27)	20" (508)	21 1/16" (534)	6.12 (0.57)	2.92 (0.27)	24 1/2" (622)	9.71 (0.90)
2056	3.20 (0.30)	20" (508)	23 1/16" (585)	6.84 (0.64)	3.20 (0.30)	18 1/2" (470)	10.69 (0.99)
2060	3.62 (0.34)	20" (508)	26 1/16" (661)	7.56 (0.70)	3.62 (0.34)	12 1/2" (318)	11.67 (1.08)
2066	3.89 (0.36)	20" (508)	28 1/16" (712)	8.28 (0.77)	3.89 (0.36)	6 1/2" (165)	12.65 (1.18)
2626	1.63 (0.15)	26" (660)	9 1/16" (230)	3.41 (0.32)	1.63 (0.15)	54 1/2" (1384)	6.04 (0.56)
2630	1.99 (0.19)	26" (660)	11 1/16" (280)	4.37 (0.41)	1.99 (0.19)	48 1/2" (1232)	7.27 (0.68)
2636	2.54 (0.24)	26" (660)	14 1/16" (357)	5.34 (0.50)	2.54 (0.24)	42 1/2" (1080)	8.50 (0.79)
2640	2.90 (0.27)	26" (660)	16 1/16" (407)	6.31 (0.59)	2.90 (0.27)	36 1/2" (927)	9.73 (0.90)
2646	3.44 (0.32)	26" (660)	19 1/16" (484)	7.28 (0.68)	3.44 (0.32)	30 1/2" (775)	10.96 (1.02)
2650	3.80 (0.35)	26" (660)	21 1/16" (534)	8.25 (0.77)	3.80 (0.35)	24 1/2" (622)	12.19 (1.13)
2656	4.16 (0.39)	26" (660)	23 1/16" (585)	9.22 (0.86)	4.16 (0.39)	18 1/2" (470)	13.42 (1.25)
2660	4.70 (0.44)	26" (660)	26 1/16" (661)	10.19 (0.95)	4.70 (0.44)	12 1/2" (318)	14.65 (1.36)
2666	5.06 (0.47)	26" (660)	28 1/16" (712)	11.16 (1.04)	5.06 (0.47)	6 1/2" (165)	15.88 (1.48)
3026	2.01 (0.19)	32" (813)	9 1/16" (230)	4.28 (0.40)	2.01 (0.19)	54 1/2" (1384)	7.27 (0.68)
3030	2.45 (0.23)	32" (813)	11 1/16" (280)	5.50 (0.51)	2.45 (0.23)	48 1/2" (1232)	8.75 (0.81)
3036	3.12 (0.29)	32" (813)	14 1/16" (357)	6.72 (0.62)	3.12 (0.29)	42 1/2" (1080)	10.23 (0.95)
3040	3.56 (0.33)	32" (813)	16 1/16" (407)	7.94 (0.74)	3.56 (0.33)	36 1/2" (927)	11.71 (1.09)
3046	4.23 (0.39)	32" (813)	19 1/16" (484)	9.16 (0.85)	4.23 (0.39)	30 1/2" (775)	13.19 (1.23)
3050	4.68 (0.43)	32" (813)	21 1/16" (534)	10.38 (0.96)	4.68 (0.43)	24 1/2" (622)	14.67 (1.36)
3056	5.12 (0.48)	32" (813)	23 1/16" (585)	11.60 (1.08)	5.12 (0.48)	18 1/2" (470)	16.15 (1.50)
3060 ◊	5.79 (0.54)	32" (813)	26 1/16" (661)	12.82 (1.19)	5.79 (0.54)	12 1/2" (318)	17.63 (1.64)
3066 ◊	6.23 (0.58)	32" (813)	28 1/16" (712)	14.03 (1.30)	6.23 (0.58)	6 1/2" (165)	19.11 (1.78)
3626	2.39 (0.22)	38" (965)	9 1/16" (230)	5.16 (0.48)	2.39 (0.22)	54 1/2" (1384)	8.50 (0.79)
3630	2.91 (0.27)	38" (965)	11 1/16" (280)	6.63 (0.62)	2.91 (0.27)	48 1/2" (1232)	10.23 (0.95)
3636	3.71 (0.34)	38" (965)	14 1/16" (357)	8.10 (0.75)	3.71 (0.34)	42 1/2" (1080)	11.96 (1.11)
3640	4.23 (0.39)	38" (965)	16 1/16" (407)	9.57 (0.89)	4.23 (0.39)	36 1/2" (927)	13.69 (1.27)
3646	5.02 (0.47)	38" (965)	19 1/16" (484)	11.04 (1.03)	5.02 (0.47)	30 1/2" (775)	15.42 (1.43)
3650	5.55 (0.52)	38" (965)	21 1/16" (534)	12.51 (1.16)	5.55 (0.52)	24 1/2" (622)	17.15 (1.59)
3656	6.08 (0.57)	38" (965)	23 1/16" (585)	13.98 (1.30)	6.08 (0.57)	18 1/2" (470)	18.88 (1.75)
3660 ◊	6.87 (0.64)	38" (965)	26 1/16" (661)	15.44 (1.44)	6.87 (0.64)	12 1/2" (318)	20.61 (1.91)
3666 ◊	7.40 (0.69)	38" (965)	28 1/16" (712)	16.91 (1.57)	7.40 (0.69)	6 1/2" (165)	22.34 (2.08)
4026	2.76 (0.26)	44" (1118)	9 1/16" (230)	6.04 (0.56)	2.76 (0.26)	54 1/2" (1384)	9.73 (0.90)
4030	3.37 (0.31)	44" (1118)	11 1/16" (280)	7.76 (0.72)	3.37 (0.31)	48 1/2" (1232)	11.71 (1.09)
4036	4.29 (0.40)	44" (1118)	14 1/16" (357)	9.48 (0.88)	4.29 (0.40)	42 1/2" (1080)	13.69 (1.27)
4040	4.90 (0.46)	44" (1118)	16 1/16" (407)	11.20 (1.04)	4.90 (0.46)	36 1/2" (927)	15.67 (1.46)
4046	5.82 (0.54)	44" (1118)	19 1/16" (484)	12.92 (1.20)	5.82 (0.54)	30 1/2" (775)	17.65 (1.64)
4050	6.43 (0.60)	44" (1118)	21 1/16" (534)	14.64 (1.36)	6.43 (0.60)	24 1/2" (622)	19.63 (1.82)
4056	7.04 (0.65)	44" (1118)	23 1/16" (585)	16.35 (1.52)	7.04 (0.65)	18 1/2" (470)	21.61 (2.01)
4060 ◊	7.96 (0.74)	44" (1118)	26 1/16" (661)	18.07 (1.68)	7.96 (0.74)	12 1/2" (318)	23.59 (2.19)
4066 ◊	8.57 (0.80)	44" (1118)	28 1/16" (712)	19.79 (1.84)	8.57 (0.80)	6 1/2" (165)	25.56 (2.38)

• "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).

SINGLE-HUNG WINDOWS

Table of Sizes for Picture Window with Flanking 20-Wide Single-Hungs

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)	8'-5 1/2" (2578)	8'-11 1/2" (2731)
Minimum Rough Opening	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)	9'-0" (2743)
Unobstructed Glass (center sash only)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)	47 1/4" (1200)	53 1/4" (1353)
1'-1 1/2" (292)	1'-0" (305)	1'-6" (457)	1'-11 1/2" (438)	1'-11 1/2" (438)	1'-11 1/2" (438)
1'-5 1/2" (445)	1'-6" (457)	1'-11 1/2" (438)	1'-11 1/2" (438)	1'-11 1/2" (438)	1'-11 1/2" (438)
1'-11 1/2" (597)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)
3'-11 1/2" (1207)	4'-0" (1219)	4'-0" (1219)	4'-0" (1219)	4'-0" (1219)	4'-0" (1219)
4'-5 1/2" (1359)	4'-6" (1372)	4'-6" (1372)	4'-6" (1372)	4'-6" (1372)	4'-6" (1372)
4'-11 1/2" (1511)	5'-0" (1524)	5'-0" (1524)	5'-0" (1524)	5'-0" (1524)	5'-0" (1524)
5'-5 1/2" (1664)	5'-6" (1676)	5'-6" (1676)	5'-6" (1676)	5'-6" (1676)	5'-6" (1676)
5'-11 1/2" (1816)	6'-0" (1829)	6'-0" (1829)	6'-0" (1829)	6'-0" (1829)	6'-0" (1829)
	65 1/4" (1657)	65 1/4" (1657)	65 1/4" (1657)	65 1/4" (1657)	65 1/4" (1657)
	20-3010-20	20-3610-20	20-4010-20	20-4610-20	20-5010-20
	20-3016-20	20-3616-20	20-4016-20	20-4616-20	20-5016-20
	20-3020-20	20-3620-20	20-4020-20	20-4620-20	20-5020-20
	20-3040-20	20-3640-20	20-4040-20	20-4640-20	20-5040-20
	20-3046-20	20-3646-20	20-4046-20	20-4646-20	20-5046-20
	20-3050-20	20-3650-20	20-4050-20	20-4650-20	20-5050-20
	20-3056-20	20-3656-20	20-4056-20	20-4656-20	20-5056-20
	20-3060-20	20-3660-20	20-4060-20	20-4660-20	20-5060-20

Windows have one continuous outer frame.

Unobstructed glass width dimension of flanking

sash is 17 1/4" (438). For unobstructed glass height

dimensions of flanking single-hungs, see page 30.

Matching transoms are also shown.

Details shown on page 47.

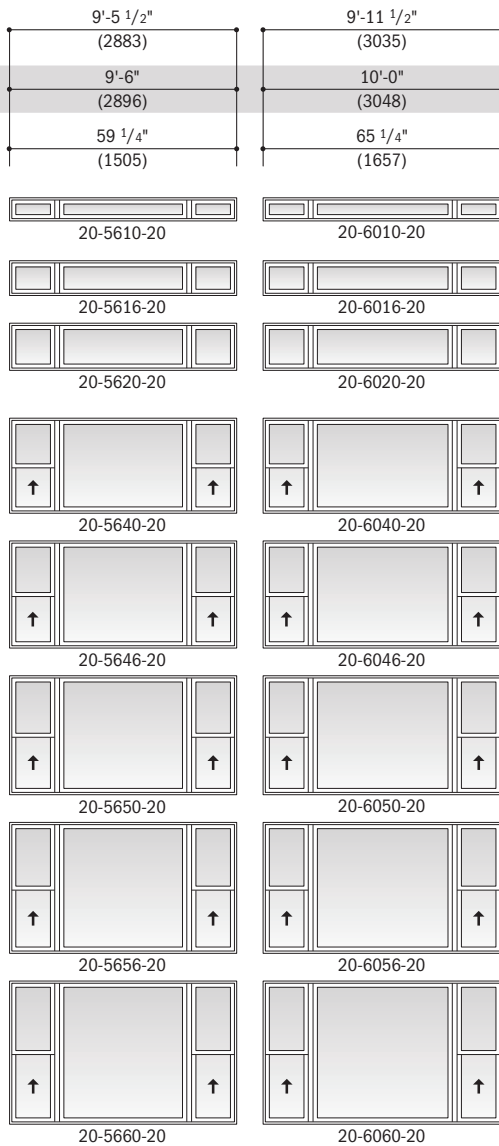
Grille patterns shown on page 46.

• "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 page 98 for more details.

• Dimensions in parentheses are in millimeters.

See notes on previous page.



Twin Single-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position Width Inches/(mm)	Height Inches/(mm)	Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/(mm)	Overall Window Area Sq. Ft./ (m ²)
1620-2	0.78 (0.07)	14" (356)	8 1/16" (204)	2.36 (0.22)	1.56 (0.15)	60 1/2" (1537)	5.79 (0.54)
1626-2	1.07 (0.10)	14" (356)	11 1/16" (280)	3.30 (0.31)	2.15 (0.20)	54 1/2" (1384)	7.27 (0.68)
1630-2	1.37 (0.13)	14" (356)	14 1/16" (357)	4.23 (0.39)	2.73 (0.25)	48 1/2" (1232)	8.75 (0.81)
1636-2	1.66 (0.15)	14" (356)	17 1/16" (433)	5.17 (0.48)	3.31 (0.31)	42 1/2" (1080)	10.23 (0.95)
1640-2	1.95 (0.18)	14" (356)	20 1/16" (509)	6.11 (0.57)	3.90 (0.36)	36 1/2" (927)	11.71 (1.09)
1646-2	2.24 (0.21)	14" (356)	23 1/16" (585)	7.05 (0.66)	4.48 (0.42)	30 1/2" (775)	13.19 (1.23)
1650-2	2.53 (0.24)	14" (356)	26 1/16" (661)	7.98 (0.74)	5.06 (0.47)	24 1/2" (622)	14.67 (1.36)
1656-2	2.82 (0.26)	14" (356)	29 1/16" (738)	8.92 (0.83)	5.65 (0.53)	18 1/2" (470)	16.15 (1.50)
1660-2	3.12 (0.29)	14" (356)	32 1/16" (814)	9.86 (0.92)	6.23 (0.58)	12 1/2" (318)	17.63 (1.64)
2020-2	1.12 (0.10)	20" (508)	8 1/16" (204)	3.62 (0.34)	2.23 (0.21)	60 1/2" (1537)	7.75 (0.72)
2026-2	1.53 (0.14)	20" (508)	11 1/16" (280)	5.05 (0.47)	3.07 (0.29)	54 1/2" (1384)	9.73 (0.90)
2030-2	1.95 (0.18)	20" (508)	14 1/16" (357)	6.49 (0.60)	3.90 (0.36)	48 1/2" (1232)	11.71 (1.09)
2036-2	2.37 (0.22)	20" (508)	17 1/16" (433)	7.93 (0.74)	4.73 (0.44)	42 1/2" (1080)	13.69 (1.27)
2040-2	2.78 (0.26)	20" (508)	20 1/16" (509)	9.37 (0.87)	5.57 (0.52)	36 1/2" (927)	15.67 (1.46)
2046-2	3.20 (0.30)	20" (508)	23 1/16" (585)	10.80 (1.00)	6.40 (0.60)	30 1/2" (775)	17.65 (1.64)
2050-2	3.62 (0.34)	20" (508)	26 1/16" (661)	12.24 (1.14)	7.23 (0.67)	24 1/2" (622)	19.63 (1.82)
2056-2	4.03 (0.38)	20" (508)	29 1/16" (738)	13.68 (1.27)	8.07 (0.75)	18 1/2" (470)	21.61 (2.01)
2060-2	4.45 (0.41)	20" (508)	32 1/16" (814)	15.12 (1.40)	8.90 (0.83)	12 1/2" (318)	23.59 (2.19)
2620-2	1.45 (0.14)	26" (660)	8 1/16" (204)	4.87 (0.45)	2.90 (0.27)	60 1/2" (1537)	9.71 (0.90)
2626-2	1.99 (0.19)	26" (660)	11 1/16" (280)	6.81 (0.63)	3.99 (0.37)	54 1/2" (1384)	12.19 (1.13)
2630-2	2.54 (0.24)	26" (660)	14 1/16" (357)	8.75 (0.81)	5.07 (0.47)	48 1/2" (1232)	14.67 (1.36)
2636-2	3.08 (0.29)	26" (660)	17 1/16" (433)	10.69 (0.99)	6.15 (0.57)	42 1/2" (1080)	17.15 (1.59)
2640-2	3.62 (0.34)	26" (660)	20 1/16" (509)	12.62 (1.17)	7.24 (0.67)	36 1/2" (927)	19.63 (1.82)
2646-2	4.16 (0.39)	26" (660)	23 1/16" (585)	14.56 (1.35)	8.32 (0.77)	30 1/2" (775)	22.11 (2.05)
2650-2	4.70 (0.44)	26" (660)	26 1/16" (661)	16.50 (1.53)	9.40 (0.87)	24 1/2" (622)	24.59 (2.28)
2656-2	5.24 (0.49)	26" (660)	29 1/16" (738)	18.44 (1.71)	10.49 (0.97)	18 1/2" (470)	27.06 (2.51)
2660-2 ◊	5.79 (0.54)	26" (660)	32 1/16" (814)	20.37 (1.89)	11.57 (1.08)	12 1/2" (318)	29.54 (2.75)
3020-2	1.79 (0.17)	32" (813)	8 1/16" (204)	6.13 (0.57)	3.57 (0.33)	60 1/2" (1537)	11.67 (1.08)
3026-2	2.45 (0.23)	32" (813)	11 1/16" (280)	8.57 (0.80)	4.91 (0.46)	54 1/2" (1384)	14.65 (1.36)
3030-2	3.12 (0.29)	32" (813)	14 1/16" (357)	11.01 (1.02)	6.24 (0.58)	48 1/2" (1232)	17.63 (1.64)
3036-2	3.79 (0.35)	32" (813)	17 1/16" (433)	13.44 (1.25)	7.57 (0.70)	42 1/2" (1080)	20.61 (1.91)
3040-2	4.45 (0.41)	32" (813)	20 1/16" (509)	15.88 (1.48)	8.91 (0.83)	36 1/2" (927)	23.59 (2.19)
3046-2	5.12 (0.48)	32" (813)	23 1/16" (585)	18.32 (1.70)	10.24 (0.95)	30 1/2" (775)	26.56 (2.47)
3050-2 ◊	5.79 (0.54)	32" (813)	26 1/16" (661)	20.76 (1.93)	11.57 (1.08)	24 1/2" (622)	29.54 (2.75)
3056-2 ◊	6.45 (0.60)	32" (813)	29 1/16" (738)	23.19 (2.16)	12.91 (1.20)	18 1/2" (470)	32.52 (3.02)
3060-2 ◊	7.12 (0.66)	32" (813)	32 1/16" (814)	25.63 (2.38)	14.24 (1.32)	12 1/2" (318)	35.50 (3.30)
3620-2	2.12 (0.20)	38" (965)	8 1/16" (204)	7.39 (0.69)	4.24 (0.39)	60 1/2" (1537)	13.63 (1.27)
3626-2	2.91 (0.27)	38" (965)	11 1/16" (280)	10.33 (0.96)	5.83 (0.54)	54 1/2" (1384)	17.11 (1.59)
3630-2	3.71 (0.34)	38" (965)	14 1/16" (357)	13.26 (1.23)	7.41 (0.69)	48 1/2" (1232)	20.59 (1.91)
3636-2	4.50 (0.42)	38" (965)	17 1/16" (433)	16.20 (1.51)	8.99 (0.84)	42 1/2" (1080)	24.06 (2.24)
3640-2	5.29 (0.49)	38" (965)	20 1/16" (509)	19.14 (1.78)	10.58 (0.98)	36 1/2" (927)	27.54 (2.56)
3646-2	6.08 (0.57)	38" (965)	23 1/16" (585)	22.08 (2.05)	12.16 (1.13)	30 1/2" (775)	31.02 (2.88)
3650-2 ◊	6.87 (0.64)	38" (965)	26 1/16" (661)	25.01 (2.32)	13.74 (1.28)	24 1/2" (622)	34.50 (3.21)
3656-2 ◊	7.66 (0.71)	38" (965)	29 1/16" (738)	27.95 (2.60)	15.33 (1.42)	18 1/2" (470)	37.98 (3.53)
3660-2 ◊	8.46 (0.79)	38" (965)	32 1/16" (814)	30.89 (2.87)	16.91 (1.57)	12 1/2" (318)	41.46 (3.85)
4020-2	2.46 (0.23)	44" (1118)	8 1/16" (204)	8.65 (0.80)	4.91 (0.46)	60 1/2" (1537)	15.59 (1.45)
4026-2	3.37 (0.31)	44" (1118)	11 1/16" (280)	12.08 (1.12)	6.75 (0.63)	54 1/2" (1384)	19.56 (1.82)
4030-2	4.29 (0.40)	44" (1118)	14 1/16" (357)	15.52 (1.44)	8.58 (0.80)	48 1/2" (1232)	23.54 (2.19)
4036-2	5.21 (0.48)	44" (1118)	17 1/16" (433)	18.96 (1.76)	10.41 (0.97)	42 1/2" (1080)	27.52 (2.56)
4040-2	6.12 (0.57)	44" (1118)	20 1/16" (509)	22.40 (2.08)	12.25 (1.14)	36 1/2" (927)	31.50 (2.93)
4046-2	7.04 (0.65)	44" (1118)	23 1/16" (585)	25.83 (2.40)	14.08 (1.31)	30 1/2" (775)	35.48 (3.30)
4050-2 ◊	7.96 (0.74)	44" (1118)	26 1/16" (661)	29.27 (2.72)	15.91 (1.48)	24 1/2" (622)	39.46 (3.67)
4056-2 ◊	8.87 (0.82)	44" (1118)	29 1/16" (738)	32.71 (3.04)	17.75 (1.65)	18 1/2" (470)	43.44 (4.04)
4060-2 ◊	9.79 (0.91)	44" (1118)	32 1/16" (814)	36.15 (3.36)	19.58 (1.82)	12 1/2" (318)	47.42 (4.41)

- "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).

SINGLE-HUNG WINDOWS

Table of Sizes for Picture Window with Flanking 26-Wide Single-Hungs

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	7'-11 1/2"	8'-5 1/2"	8'-11 1/2"	9'-5 1/2"	9'-11 1/2"
	(2426)	(2578)	(2731)	(2883)	(3035)
Minimum Rough Opening	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
	(2438)	(2591)	(2743)	(2896)	(3048)
Unobstructed Glass (center sash only)	29 1/4"	35 1/4"	41 1/4"	47 1/4"	53 1/4"
	(743)	(895)	(1048)	(1200)	(1353)
11 1/2" (292)					
1'-5 1/2" (445)					
1'-11 1/2" (597)					
3'-11 1/2" (1207)					
4'-5 1/2" (1359)					
4'-11 1/2" (1511)					
5'-5 1/2" (1664)					
5'-11 1/2" (1816)					

Windows have one continuous outer frame.

Unobstructed glass width dimension of flanking sash is 23 1/4" (591). For unobstructed glass height dimensions of flanking single-hungs, see page 30.

Matching transoms are also shown.

Details shown on page 47.

Grille patterns shown on page 46.

- "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 page 98 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 notes on previous page.

10'-5 1/2" (3188)	10'-11 1/2" (3340)
10'-6" (3200)	11'-0" (3353)
59 1/4" (1505)	65 1/4" (1657)
26-5610-26	26-6010-26
26-5616-26	26-6016-26
26-5620-26	26-6020-26
26-5640-26	26-6040-26
26-5646-26	26-6046-26
26-5650-26	26-6050-26
26-5656-26	26-6056-26
26-5660-26 ⁹	26-6060-26 ⁹

Triple Single-Hung Window Opening and Area Specifications

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)				
1620-3	0.78 (0.07)	14" (356)	8 1/16" (204)	3.54 (0.33)	2.35 (0.22)	60 1/2" (1537)	8.73 (0.81)
1626-3	1.07 (0.10)	14" (356)	11 1/16" (280)	4.94 (0.46)	3.22 (0.30)	54 1/2" (1384)	10.96 (1.02)
1630-3	1.37 (0.13)	14" (356)	14 1/16" (357)	6.35 (0.59)	4.10 (0.38)	48 1/2" (1232)	13.19 (1.23)
1636-3	1.66 (0.15)	14" (356)	17 1/16" (433)	7.76 (0.72)	4.97 (0.46)	42 1/2" (1080)	15.42 (1.43)
1640-3	1.95 (0.18)	14" (356)	20 1/16" (509)	9.16 (0.85)	5.85 (0.54)	36 1/2" (927)	17.65 (1.64)
1646-3	2.24 (0.21)	14" (356)	23 1/16" (585)	10.57 (0.98)	6.72 (0.62)	30 1/2" (775)	19.88 (1.85)
1650-3	2.53 (0.24)	14" (356)	26 1/16" (661)	11.97 (1.11)	7.60 (0.71)	24 1/2" (622)	22.11 (2.05)
1656-3	2.82 (0.26)	14" (356)	29 1/16" (738)	13.38 (1.24)	8.47 (0.79)	18 1/2" (470)	24.34 (2.26)
1660-3	3.12 (0.29)	14" (356)	32 1/16" (814)	14.79 (1.37)	9.35 (0.87)	12 1/2" (318)	26.56 (2.47)
2020-3	1.12 (0.10)	20" (508)	8 1/16" (204)	5.42 (0.50)	3.35 (0.31)	60 1/2" (1537)	11.67 (1.08)
2026-3	1.53 (0.14)	20" (508)	11 1/16" (280)	7.58 (0.70)	4.60 (0.43)	54 1/2" (1384)	14.65 (1.36)
2030-3	1.95 (0.18)	20" (508)	14 1/16" (357)	9.74 (0.90)	5.85 (0.54)	48 1/2" (1232)	17.63 (1.64)
2036-3	2.37 (0.22)	20" (508)	17 1/16" (433)	11.89 (1.11)	7.10 (0.66)	42 1/2" (1080)	20.61 (1.91)
2040-3	2.78 (0.26)	20" (508)	20 1/16" (509)	14.05 (1.31)	8.35 (0.78)	36 1/2" (927)	23.59 (2.19)
2046-3	3.20 (0.30)	20" (508)	23 1/16" (585)	16.20 (1.51)	9.60 (0.89)	30 1/2" (775)	26.56 (2.47)
2050-3	3.62 (0.34)	20" (508)	26 1/16" (661)	18.36 (1.71)	10.85 (1.01)	24 1/2" (622)	29.54 (2.75)
2056-3	4.03 (0.38)	20" (508)	29 1/16" (738)	20.52 (1.91)	12.10 (1.12)	18 1/2" (470)	32.52 (3.02)
2060-3	4.45 (0.41)	20" (508)	32 1/16" (814)	22.67 (2.11)	13.35 (1.24)	12 1/2" (318)	35.50 (3.30)
2620-3	1.45 (0.14)	26" (660)	8 1/16" (204)	7.31 (0.68)	4.35 (0.41)	60 1/2" (1537)	14.61 (1.36)
2626-3	1.99 (0.19)	26" (660)	11 1/16" (280)	10.22 (0.95)	5.98 (0.56)	54 1/2" (1384)	18.34 (1.70)
2630-3	2.54 (0.24)	26" (660)	14 1/16" (357)	13.12 (1.22)	7.60 (0.71)	48 1/2" (1232)	22.06 (2.05)
2636-3	3.08 (0.29)	26" (660)	17 1/16" (433)	16.03 (1.49)	9.23 (0.86)	42 1/2" (1080)	25.79 (2.40)
2640-3	3.62 (0.34)	26" (660)	20 1/16" (509)	18.93 (1.76)	10.85 (1.01)	36 1/2" (927)	29.52 (2.74)
2646-3	4.16 (0.39)	26" (660)	23 1/16" (585)	21.84 (2.03)	12.48 (1.16)	30 1/2" (775)	33.25 (3.09)
2650-3	4.70 (0.44)	26" (660)	26 1/16" (661)	24.75 (2.30)	14.10 (1.31)	24 1/2" (622)	36.98 (3.44)
2656-3	5.24 (0.49)	26" (660)	29 1/16" (738)	27.65 (2.57)	15.73 (1.46)	18 1/2" (470)	40.71 (3.78)
2660-3	5.79 (0.54)	26" (660)	32 1/16" (814)	30.56 (2.84)	17.35 (1.61)	12 1/2" (318)	44.44 (4.13)
3020-3	1.79 (0.17)	32" (813)	8 1/16" (204)	9.20 (0.85)	5.36 (0.50)	60 1/2" (1537)	17.54 (1.63)
3026-3	2.45 (0.23)	32" (813)	11 1/16" (280)	12.85 (1.19)	7.36 (0.68)	54 1/2" (1384)	22.02 (2.05)
3030-3	3.12 (0.29)	32" (813)	14 1/16" (357)	16.51 (1.53)	9.36 (0.87)	48 1/2" (1232)	26.50 (2.46)
3036-3	3.79 (0.35)	32" (813)	17 1/16" (433)	20.16 (1.87)	11.36 (1.06)	42 1/2" (1080)	30.98 (2.88)
3040-3	4.45 (0.41)	32" (813)	20 1/16" (509)	23.82 (2.21)	13.36 (1.24)	36 1/2" (927)	35.46 (3.29)
3046-3	5.12 (0.48)	32" (813)	23 1/16" (585)	27.48 (2.55)	15.36 (1.43)	30 1/2" (775)	39.94 (3.71)
3050-3	5.79 (0.54)	32" (813)	26 1/16" (661)	31.13 (2.89)	17.36 (1.61)	24 1/2" (622)	44.42 (4.13)
3056-3	6.45 (0.60)	32" (813)	29 1/16" (738)	34.79 (3.23)	19.36 (1.80)	18 1/2" (470)	48.90 (4.54)
3060-3	7.12 (0.66)	32" (813)	32 1/16" (814)	38.45 (3.57)	21.36 (1.98)	12 1/2" (318)	53.38 (4.96)
3620-3	2.12 (0.20)	38" (965)	8 1/16" (204)	11.08 (1.03)	6.36 (0.59)	60 1/2" (1537)	20.48 (1.90)
3626-3	2.91 (0.27)	38" (965)	11 1/16" (280)	15.49 (1.44)	8.74 (0.81)	54 1/2" (1384)	25.71 (2.39)
3630-3	3.71 (0.34)	38" (965)	14 1/16" (357)	19.89 (1.85)	11.11 (1.03)	48 1/2" (1232)	30.94 (2.87)
3636-3	4.50 (0.42)	38" (965)	17 1/16" (433)	24.30 (2.26)	13.49 (1.25)	42 1/2" (1080)	36.17 (3.36)
3640-3	5.29 (0.49)	38" (965)	20 1/16" (509)	28.71 (2.67)	15.86 (1.47)	36 1/2" (927)	41.40 (3.85)
3646-3	6.08 (0.57)	38" (965)	23 1/16" (585)	33.11 (3.08)	18.24 (1.69)	30 1/2" (775)	46.63 (4.33)
3650-3	6.87 (0.64)	38" (965)	26 1/16" (661)	37.52 (3.49)	20.61 (1.92)	24 1/2" (622)	51.86 (4.82)
3656-3	7.66 (0.71)	38" (965)	29 1/16" (738)	41.93 (3.90)	22.99 (2.14)	18 1/2" (470)	57.09 (5.30)
3660-3	8.46 (0.79)	38" (965)	32 1/16" (814)	46.33 (4.30)	25.36 (2.36)	12 1/2" (318)	62.31 (5.79)
4020-3	2.46 (0.23)	44" (1118)	8 1/16" (204)	12.97 (1.21)	7.37 (0.69)	60 1/2" (1537)	23.42 (2.18)
4026-3	3.37 (0.31)	44" (1118)	11 1/16" (280)	18.12 (1.68)	10.12 (0.94)	54 1/2" (1384)	29.40 (2.73)
4030-3	4.29 (0.40)	44" (1118)	14 1/16" (357)	23.28 (2.16)	12.87 (1.20)	48 1/2" (1232)	35.38 (3.29)
4036-3	5.21 (0.48)	44" (1118)	17 1/16" (433)	28.44 (2.64)	15.62 (1.45)	42 1/2" (1080)	41.36 (3.84)
4040-3	6.12 (0.57)	44" (1118)	20 1/16" (509)	33.59 (3.12)	18.37 (1.71)	36 1/2" (927)	47.34 (4.40)
4046-3	7.04 (0.65)	44" (1118)	23 1/16" (585)	38.75 (3.60)	21.12 (1.96)	30 1/2" (775)	53.31 (4.95)
4050-3	7.96 (0.74)	44" (1118)	26 1/16" (661)	43.91 (4.08)	23.87 (2.22)	24 1/2" (622)	59.29 (5.51)
4056-3	8.87 (0.82)	44" (1118)	29 1/16" (738)	49.06 (4.56)	26.62 (2.47)	18 1/2" (470)	65.27 (6.06)
4060-3	9.79 (0.91)	44" (1118)	32 1/16" (814)	54.22 (5.04)	29.37 (2.73)	12 1/2" (318)	71.25 (6.62)

- "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).

SINGLE-HUNG WINDOWS

Table of Sizes for Picture Window with Flanking 30-Wide Single-Hungs

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	8'-11 1/2"	9'-5 1/2"	9'-11 1/2"	10'-5 1/2"
	(2731)	(2883)	(3035)	(3188)
Minimum Rough Opening	9'-0"	9'-6"	10'-0"	10'-6"
	(2743)	(2896)	(3048)	(3200)
Unobstructed Glass (center sash only)	29 1/4"	35 1/4"	41 1/4"	47 1/4"
	(743)	(895)	(1048)	(1200)
1'-1 1/2"	(292)	(305)	(318)	(331)
1'-5 1/2"	(445)	(457)	(470)	(483)
1'-11 1/2"	(597)	(610)	(623)	(636)
3'-11 1/2"	(1207)	(1219)	(1231)	(1244)
4'-5 1/2"	(1359)	(1372)	(1384)	(1397)
4'-11 1/2"	(1511)	(1524)	(1536)	(1549)
5'-5 1/2"	(1664)	(1676)	(1688)	(1701)
5'-11 1/2"	(1816)	(1829)	(1841)	(1854)
	30-3010-30	30-3610-30	30-4010-30	30-4610-30
	30-3016-30	30-3616-30	30-4016-30	30-4616-30
	30-3020-30	30-3620-30	30-4020-30	30-4620-30
	30-3040-30	30-3640-30	30-4040-30	30-4640-30
	30-3046-30	30-3646-30	30-4046-30	30-4646-30
	30-3050-30 ^ø	30-3650-30 ^ø	30-4050-30 ^ø	30-4650-30 ^ø
	30-3056-30 ^ø	30-3656-30 ^ø	30-4056-30 ^ø	30-4656-30 ^ø
	30-3060-30 ^ø	30-3660-30 ^ø	30-4060-30 ^ø	30-4660-30 ^ø

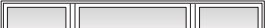
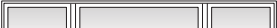
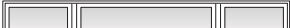
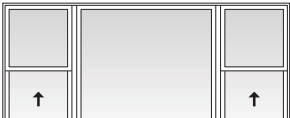
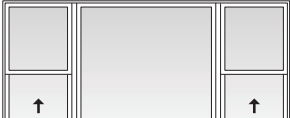
• "Window Dimension" always refers to outside frame to frame dimension.

• "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 page 98 for more details.

• Dimensions in parentheses are in millimeters.

ø 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).

Notes on this page also apply to previous page.

$10'-11\frac{1}{2}"$ (3340) $11'-0"$ (3353) $53\frac{1}{4}"$ (1353)	$11'-5\frac{1}{2}"$ (3493) $11'-6"$ (3505) $59\frac{1}{4}"$ (1505)	$11'-11\frac{1}{2}"$ (3645) $12'-0"$ (3658) $65\frac{1}{4}"$ (1657)
		
30-5010-30	30-5610-30	30-6010-30
		
30-5016-30	30-5616-30	30-6016-30
		
30-5020-30	30-5620-30	30-6020-30
		
30-5040-30	30-5640-30	30-6040-30
		
30-5046-30	30-5646-30	30-6046-30
		
30-5050-30 [◊]	30-5650-30 [◊]	30-6050-30 [◊]
		
30-5056-30 [◊]	30-5656-30 [◊]	30-6056-30 [◊]
		
30-5060-30 [◊]	30-5660-30 [◊]	30-6060-30 [◊]

Windows have one continuous outer frame.

Unobstructed glass width dimension of flanking sash is $29\frac{1}{4}"$ (743). For unobstructed glass height dimensions of flanking single-hungs, see page 30.

Matching transoms are also shown.

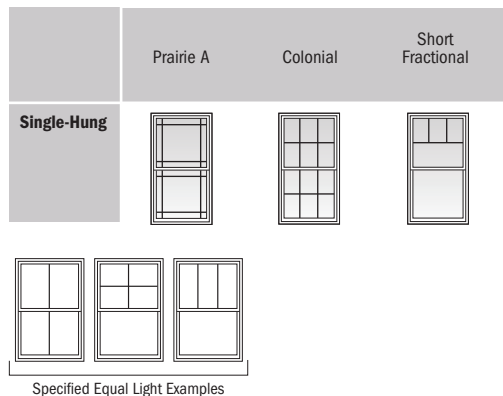
Details shown on page 47.

Grille patterns shown on page 46.

- "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 page 98 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).

SINGLE-HUNG WINDOWS

Grille Patterns



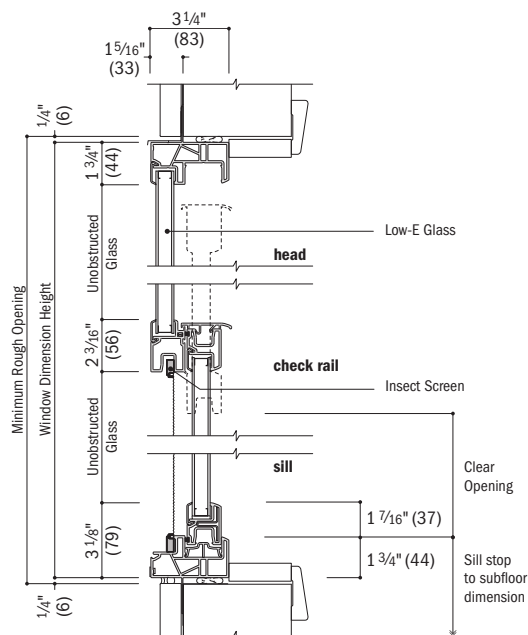
Single-hung window patterns are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with single-hung patterns, identify the single-hung sash style (equal or reverse cottage) when ordering.

Number of lights and overall pattern varies with window size. Patterns shown may not be available for all sizes. Specified equal light pattern is also available. For more information on divided light, see page 11 or visit andersenwindows.com/grilles.

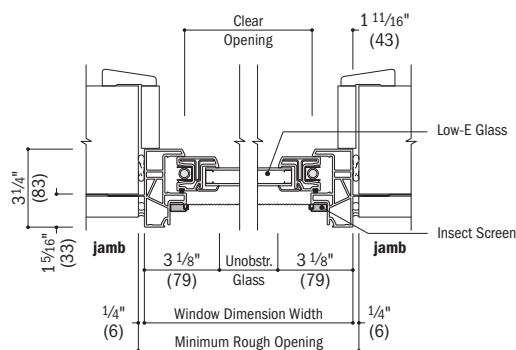
Arch Single-Hung Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

1 3/8" flange setback

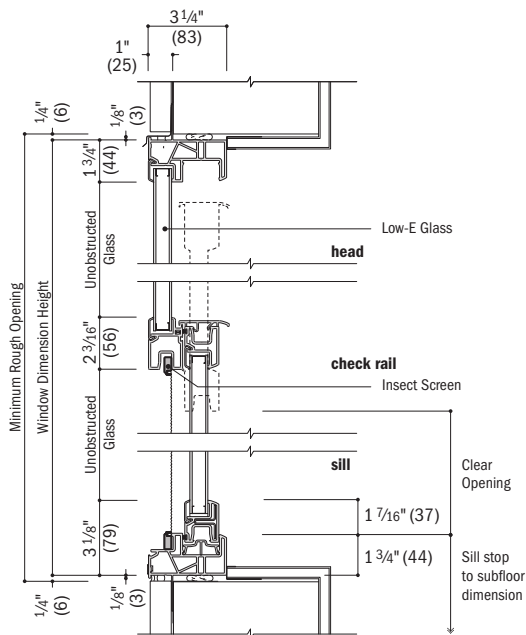


Vertical Section
Arch Single-Hung

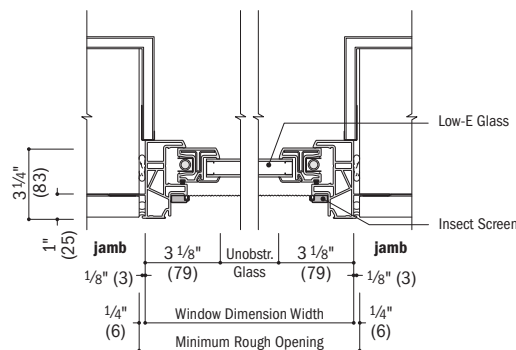


Horizontal Section
Arch Single-Hung

1" flange setback with stucco key



Vertical Section
Arch Single-Hung - stucco exterior



Horizontal Section
Arch Single-Hung - stucco exterior

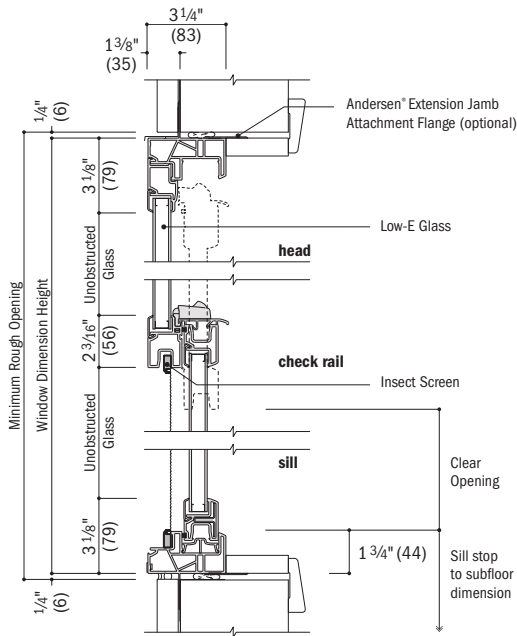
See pages 76-77 for horizontal and vertical joining details.

- Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **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 98.**
- 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.

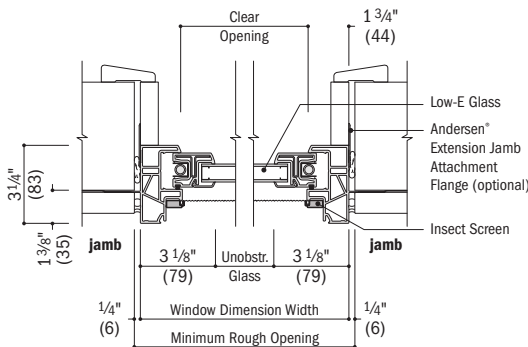
Single-Hung Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

1 3/8" flange setback

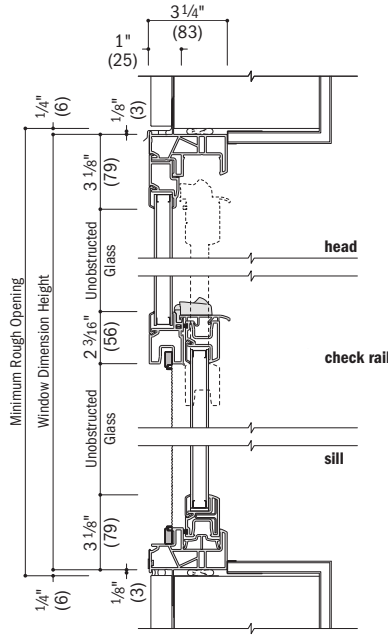


Vertical Section

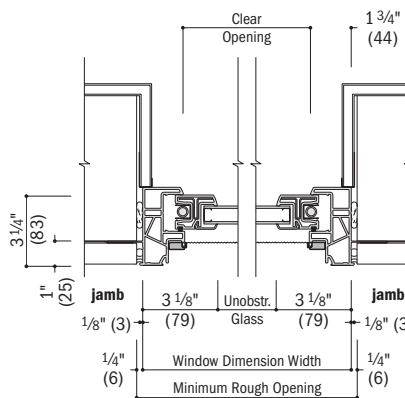


Horizontal Section

1" flange setback with stucco key

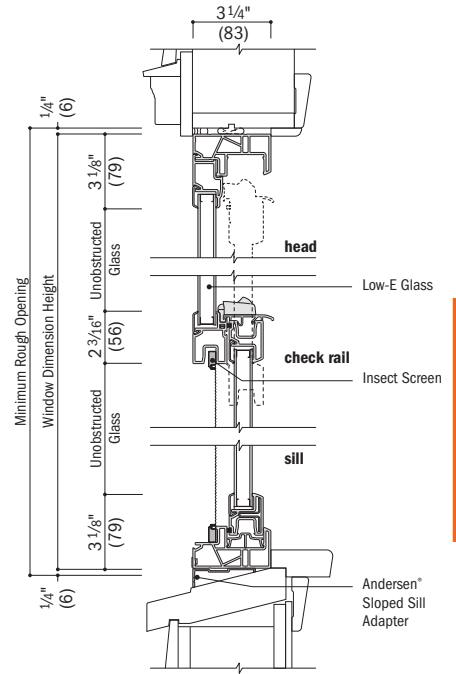


Vertical Section
stucco exterior

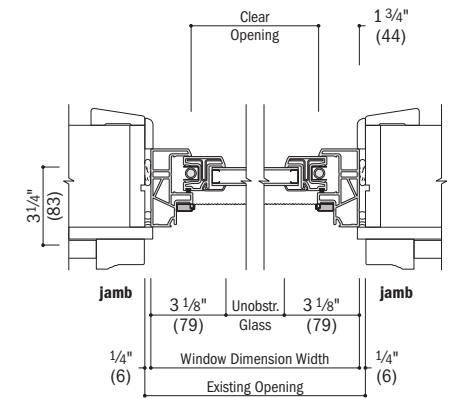


Horizontal Section
stucco exterior

no flange

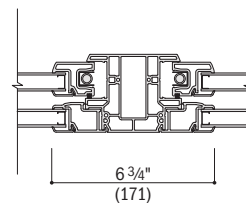


Vertical Section
existing opening or insert

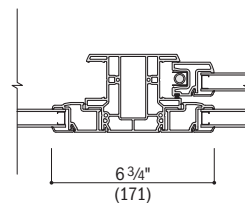


Horizontal Section
existing opening or insert

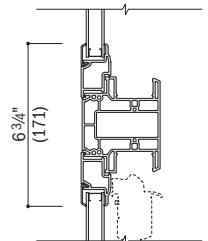
Integrals



Horizontal Section
Twin or Triple Single-Hung



Horizontal Section
Picture with Flanking Single-Hung



Vertical Section
Transom over Single-Hung

See pages 76-77 for horizontal and vertical joining details.

- Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **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 98.**
- 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.

GLIDING WINDOWS

Table of Gliding Window Sizes – X0/OX

Scale 1/8" (3) = 1'-0" (305) – 1:96

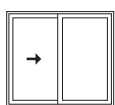
Window Dimension	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"	5'-11 1/2"
	(597)	(749)	(902)	(1054)	(1207)	(1359)	(1511)	(1664)	(1816)
Minimum Rough Opening	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
	(610)	(762)	(914)	(1067)	(1219)	(1372)	(1524)	(1676)	(1829)
Unobstructed Glass (width of single sash)	7 9/16"	10 9/16"	13 9/16"	16 9/16"	19 9/16"	22 9/16"	25 9/16"	28 9/16"	31 9/16"
	(192)	(268)	(344)	(420)	(496)	(573)	(649)	(725)	(801)

CUSTOM WIDTHS – 1'-11 1/2" to 5'-11 1/2"

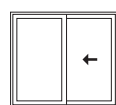
CUSTOM HEIGHTS – 11 1/2" to 5'-11 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"	5'-11 1/2"
11 1/2"	(292)	1'-0"	(305)	5 1/4"	(133)				
1'-5 1/2"	(445)	1'-6"	(457)	11 1/4"	(286)				
1'-11 1/2"	(597)	2'-0"	(610)	17 1/4"	(438)				
2'-5 1/2"	(749)	2'-6"	(762)	23 1/4"	(591)				
2'-11 1/2"	(902)	3'-0"	(914)	29 1/4"	(743)				
3'-5 1/2"	(1054)	3'-6"	(1067)	35 1/4"	(895)				
3'-11 1/2"	(1207)	4'-0"	(1219)	41 1/4"	(1048)				
4'-5 1/2"	(1359)	4'-6"	(1372)	47 1/4"	(1200)				
4'-11 1/2"	(1511)	5'-0"	(1524)	53 1/4"	(1353)				
5'-5 1/2"	(1664)	5'-6"	(1676)	59 1/4"	(1505)				
5'-11 1/2"	(1816)	6'-0"	(1829)	65 1/4"	(1657)				
	2010	2610	3010	3610	4010	4610	5010	5610	6010
	2016	2616	3016	3616	4016	4616	5016	5616	6016
	2020	2620	3020	3620	4020	4620	5020	5620	6020
	2026	2626	3026	3626	4026	4626	5026	5626	6026 ^o
	2030	2630	3030	3630	4030	4630	5030 ^o	5630 ^o	6030 ^o
	2036	2636	3036	3636	4036	4636 ^o	5036 ^o	5636 ^o	6036 ^o
	2040	2640	3040	3640	4040 ^o	4640 ^o	5040 ^o	5640 ^o	6040 ^o
	2046	2646	3046	3646	4046 ^o	4646 ^o	5046 ^o	5646 ^o	6046 ^o
	2050	2650	3050	3650	4050 ^o	4650 ^o	5050 ^o	5650 ^o	6050 ^o
	2056	2656	3056	3656	4056 ^o	4656 ^o	5056 ^o	5656 ^o	6056 ^o
	2060	2660	3060	3660	4060 ^o	4660 ^o	5060 ^o	5660 ^o	6060 ^o



Custom-size windows are available in 1/8" (3) increments. See page 80 for custom sizes and specifications.



Active-Stationary



Stationary-Active

Choose active-stationary (X0) or stationary-active (OX) as viewed from the exterior. Two locks are standard on all heights greater than 4'-2" (1270). Details shown on page 59. Grille patterns shown on page 58.

• "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 page 98 for more details.

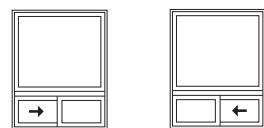
• Dimensions in parentheses are in millimeters.

◊Meet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See table on pages 54-55.

Table of Sizes for Picture Window over Gliding - XO/OX

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-11 1/2" (902)	3'-11 1/2" (1207)	4'-11 1/2" (1511)	5'-11 1/2" (1816)
Minimum Rough Opening	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	6'-0" (1829)
Unobstructed Glass (upper sash only)	29 1/4" (743)	41 1/4" (1048)	53 1/4" (1353)	65 1/4" (1657)



Active-Stationary Stationary-Active

Choose active-stationary (**XO**) or stationary-active (**OX**) as viewed from the exterior. Windows have one continuous outer frame.

For unobstructed glass dimensions of lower sash, see page 48.

Details shown on page 59.

Grille patterns shown on page 58.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

GLIDING WINDOWS

Table of Gliding Window Sizes – XOX 1:2:1 Sash Ratio

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	4'-11 1/2" (1511)	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)	8'-5 1/2" (2578)
Minimum Rough Opening	5'-0" (1524)	6'-0" (1829)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)
Unobstructed Glass (width of center sash)	27 7/8" (708)	33 7/8" (861)	39 7/8" (1013)	42 7/8" (1089)	45 7/8" (1165)	48 7/8" (1242)
Unobstructed Glass (width of single venting sash)	10 17/32" (267)	13 17/32" (344)	16 17/32" (420)	18 1/32" (458)	19 17/32" (496)	21 1/32" (534)

CUSTOM WIDTHS – 3'-11 1/2" to 11'-11 1/2"

CUSTOM HEIGHTS – 1'-5 1/2" to 5'-11 1/2"

1'-5 1/2" (445)	1'-6" (457)	1'-11 1/2" (286)	5016	6016	7016	7616	8016	8616
1'-11 1/2" (597)	2'-0" (610)	2'-1 1/4" (438)	5020	6020	7020	7620	8020	8620
2'-5 1/2" (749)	2'-6" (762)	2'-11 1/2" (591)	5026	6026	7026	7626	8026	8626
2'-11 1/2" (902)	3'-0" (914)	2'-11 1/2" (743)	5030	6030	7030	7630	8030	8630
3'-5 1/2" (1054)	3'-6" (1067)	3'-11 1/2" (895)	5036	6036	7036	7636	8036	8636 ^ø
3'-11 1/2" (1207)	4'-0" (1219)	4'-11 1/2" (1048)	5040	6040	7040	7640	8040 ^ø	8640 ^ø
4'-5 1/2" (1359)	4'-6" (1372)	5'-11 1/2" (1200)	5046	6046	7046	7646	8046 ^ø	8646 ^ø
4'-11 1/2" (1511)	5'-0" (1524)	5'-11 1/2" (1353)	5050	6050	7050	7650	8050 ^ø	8650 ^ø
5'-5 1/2" (1664)	5'-6" (1676)	5'-11 1/2" (1505)	5056	6056	7056	7656	8056 ^ø	8656 ^ø
5'-11 1/2" (1816)	6'-0" (1829)	6'-11 1/2" (1657)	5060	6060	7060	7660	8060 ^ø	8660 ^ø

• "Window Dimension" always refers to outside 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 page 98 for more details.

• Dimensions in parentheses are in millimeters.

◊Meet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See table on pages 55-57.

Notes on this page also apply to previous page.

8'-11 1/2" (2731)	9'-11 1/2" (3035)	10'-11 1/2" (3340)	11'-11 1/2" (3645)
9'-0" (2743)	10'-0" (3048)	11'-0" (3353)	12'-0" (3658)
51 7/8" (1318)	57 7/8" (1470)	63 7/8" (1623)	69 7/8" (1775)
22 17/32" (572)	25 17/32" (648)	28 17/32" (725)	31 17/32" (801)



Custom-size windows are available in 1/8" (3) increments. See page 80 for custom sizes and specifications.



Active-Stationary-Active

Exterior view shown. Sash configuration is active-stationary-active (XOX) with a 1:2:1 sash ratio. Two locks for each sash are standard on all heights greater than 4'-2" (1270).

Details shown on page 59. Grille patterns shown on page 58.

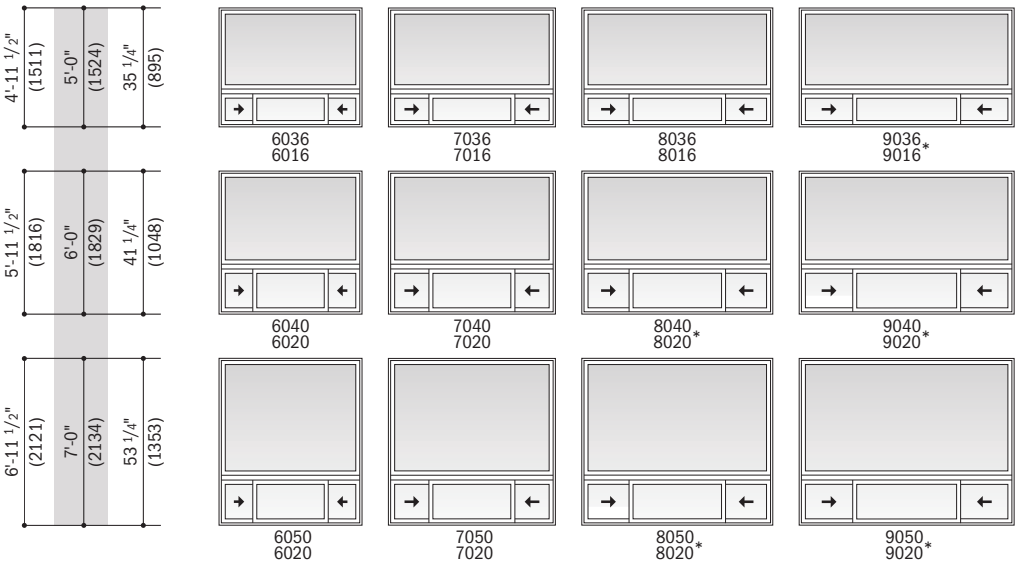
9016	10016	11016	12016
9020	10020	11020	12020
9026	10026	11026	12026°
9030	10030	11030°	12030°
9036°	10036°	11036°	12036°
9040°	10040°	11040°	12040°
9046°	10046°	11046°	12046°
9050°	10050°	11050°	12050°
9056°	10056°	11056°	12056°
9060°	10060°	11060°	12060°

• "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 page 98 for more details.
 • Dimensions in parentheses are in millimeters.
 °Meet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See table on pages 55-57.
 *Meet PG20, all other windows meet PG30.

GLIDING WINDOWS

Table of Sizes for Picture Window over Gliding – XOX 1:2:1 Sash Ratio
Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-11 1/2" (2426)	8'-11 1/2" (2731)
Minimum Rough Opening	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)	9'-0" (2743)
Unobstructed Glass (upper sash only)	65 1/4" (1657)	77 1/4" (1962)	89 1/4" (2267)	101 1/4" (2572)



Active-Stationary-Active

Exterior view shown. Lower sash configuration is active-stationary-active (**XOX**) with a 1:2:1 sash ratio. Windows have one continuous outer frame.

For unobstructed glass dimensions of lower sash, see pages 50-51.

Details shown on page 59.
Grille patterns shown on page 58.

• "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 page 98 for more details.
• Dimensions in parentheses are in millimeters.
• *Meet PG20, all other windows meet PG30.

Scale $\frac{1}{8}"$ (3) = 1'-0" (305) – 1:96

Window Dimension	3'-11 1/2" (1207)	4'-11 1/2" (1511)	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)	8'-5 1/2" (2578)
Minimum Rough Opening	4'-0" (1219)	5'-0" (1524)	6'-0" (1829)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	8'-6" (2591)
Unobstructed Glass (width of center sash)	12 11/32" (313)	16 11/32" (415)	20 11/32" (517)	24 11/32" (618)	26 11/32" (669)	28 11/32" (720)	30 11/32" (771)
Unobstructed Glass (width of single venting sash)	12 9/32" (312)	16 9/32" (414)	20 9/32" (516)	24 9/32" (617)	26 9/32" (668)	28 9/32" (719)	30 9/32" (770)



Active-Stationary-Active

Exterior view shown. Sash configuration is active-stationary-active (**XOX**) with a 1:1:1 (equal) sash ratio. Two locks are standard on all heights greater than 4'-2" (1270). Grille patterns shown on page 58.

- "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 page 98 for more details.**
 • Dimensions in parentheses are in millimeters.
 ØMeet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See table on pages 57-58.

GLIDING WINDOWS

Gliding Window Opening and Area Specifications – XO/OX

Window Number	Clear Opening Area Sq. Ft./ (m ²)		Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m ²)	Fixed Sash Glass Area Sq. Ft./ (m ²)	Active Sash Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)		Overall Window Area Sq. Ft./ (m ²)
			Width Inches/ (mm)	Height Inches/ (mm)							
2010	0.45	(0.04)	8 1/16" (204)	8" (203)	0.55 (0.05)	0.28 (0.03)	0.27 (0.03)	0.45 (0.04)	72 1/2" (1842)		1.88 (0.17)
2016	0.78	(0.07)	8 1/16" (204)	14" (356)	1.18 (0.11)	0.59 (0.05)	0.59 (0.05)	0.78 (0.07)	66 1/2" (1689)		2.86 (0.27)
2020	1.12	(0.10)	8 1/16" (204)	20" (508)	1.81 (0.17)	0.91 (0.08)	0.90 (0.08)	1.12 (0.10)	60 1/2" (1537)		3.84 (0.36)
2026	1.45	(0.13)	8 1/16" (204)	26" (660)	2.44 (0.23)	1.22 (0.11)	1.21 (0.11)	1.45 (0.13)	54 1/2" (1384)		4.81 (0.45)
2030	1.79	(0.17)	8 1/16" (204)	32" (813)	3.07 (0.28)	1.54 (0.14)	1.53 (0.14)	1.79 (0.17)	48 1/2" (1232)		5.79 (0.54)
2036	2.12	(0.20)	8 1/16" (204)	38" (965)	3.69 (0.34)	1.85 (0.17)	1.84 (0.17)	2.12 (0.20)	42 1/2" (1080)		6.77 (0.63)
2040	2.46	(0.23)	8 1/16" (204)	44" (1118)	4.32 (0.40)	2.17 (0.20)	2.16 (0.20)	2.46 (0.23)	36 1/2" (927)		7.75 (0.72)
2046	2.79	(0.26)	8 1/16" (204)	50" (1270)	4.95 (0.46)	2.48 (0.23)	2.47 (0.23)	2.79 (0.26)	30 1/2" (775)		8.73 (0.81)
2050	3.13	(0.29)	8 1/16" (204)	56" (1422)	5.58 (0.52)	2.80 (0.26)	2.78 (0.26)	3.13 (0.29)	24 1/2" (622)		9.71 (0.90)
2056	3.46	(0.32)	8 1/16" (204)	62" (1575)	6.21 (0.58)	3.11 (0.29)	3.10 (0.29)	3.46 (0.32)	18 1/2" (470)		10.69 (0.99)
2060	3.80	(0.35)	8 1/16" (204)	68" (1727)	6.84 (0.64)	3.43 (0.32)	3.41 (0.32)	3.80 (0.35)	12 1/2" (318)		11.67 (1.08)
2610	0.61	(0.06)	11 1/16" (280)	8" (203)	0.77 (0.07)	0.39 (0.04)	0.38 (0.04)	0.61 (0.06)	72 1/2" (1842)		2.36 (0.22)
2616	1.07	(0.10)	11 1/16" (280)	14" (356)	1.65 (0.15)	0.83 (0.08)	0.82 (0.08)	1.07 (0.10)	66 1/2" (1689)		3.59 (0.33)
2620	1.53	(0.14)	11 1/16" (280)	20" (508)	2.53 (0.23)	1.27 (0.12)	1.26 (0.12)	1.53 (0.14)	60 1/2" (1537)		4.81 (0.45)
2626	1.99	(0.19)	11 1/16" (280)	26" (660)	3.41 (0.32)	1.71 (0.16)	1.70 (0.16)	1.99 (0.19)	54 1/2" (1384)		6.04 (0.56)
2630	2.45	(0.23)	11 1/16" (280)	32" (813)	4.28 (0.40)	2.15 (0.20)	2.14 (0.20)	2.45 (0.23)	48 1/2" (1232)		7.27 (0.68)
2636	2.91	(0.27)	11 1/16" (280)	38" (965)	5.16 (0.48)	2.59 (0.24)	2.58 (0.24)	2.91 (0.27)	42 1/2" (1080)		8.50 (0.79)
2640	3.37	(0.31)	11 1/16" (280)	44" (1118)	6.04 (0.56)	3.03 (0.28)	3.01 (0.28)	3.37 (0.31)	36 1/2" (927)		9.73 (0.90)
2646	3.83	(0.36)	11 1/16" (280)	50" (1270)	6.92 (0.64)	3.47 (0.32)	3.45 (0.32)	3.83 (0.36)	30 1/2" (775)		10.96 (1.02)
2650	4.29	(0.40)	11 1/16" (280)	56" (1422)	7.80 (0.72)	3.91 (0.36)	3.89 (0.36)	4.29 (0.40)	24 1/2" (622)		12.19 (1.13)
2656	4.75	(0.44)	11 1/16" (280)	62" (1575)	8.68 (0.81)	4.35 (0.40)	4.33 (0.40)	4.75 (0.44)	18 1/2" (470)		13.42 (1.25)
2660	5.21	(0.48)	11 1/16" (280)	68" (1727)	9.56 (0.89)	4.79 (0.44)	4.77 (0.44)	5.21 (0.48)	12 1/2" (318)		14.65 (1.36)
3010	0.78	(0.07)	14 1/16" (357)	8" (203)	0.99 (0.09)	0.49 (0.05)	0.49 (0.05)	0.78 (0.07)	72 1/2" (1842)		2.84 (0.26)
3016	1.36	(0.13)	14 1/16" (357)	14" (356)	2.12 (0.20)	1.06 (0.10)	1.06 (0.10)	1.36 (0.13)	66 1/2" (1689)		4.31 (0.40)
3020	1.95	(0.18)	14 1/16" (357)	20" (508)	3.25 (0.30)	1.63 (0.15)	1.62 (0.15)	1.95 (0.18)	60 1/2" (1537)		5.79 (0.54)
3026	2.53	(0.24)	14 1/16" (357)	26" (660)	4.37 (0.41)	2.19 (0.20)	2.18 (0.20)	2.53 (0.24)	54 1/2" (1384)		7.27 (0.68)
3030	3.12	(0.29)	14 1/16" (357)	32" (813)	5.50 (0.51)	2.76 (0.26)	2.75 (0.26)	3.12 (0.29)	48 1/2" (1232)		8.75 (0.81)
3036	3.70	(0.34)	14 1/16" (357)	38" (965)	6.63 (0.62)	3.32 (0.31)	3.31 (0.31)	3.70 (0.34)	42 1/2" (1080)		10.23 (0.95)
3040	4.29	(0.40)	14 1/16" (357)	44" (1118)	7.76 (0.72)	3.89 (0.36)	3.87 (0.36)	4.29 (0.40)	36 1/2" (927)		11.71 (1.09)
3046	4.87	(0.45)	14 1/16" (357)	50" (1270)	8.89 (0.83)	4.45 (0.41)	4.44 (0.41)	4.87 (0.45)	30 1/2" (775)		13.19 (1.23)
3050	5.46	(0.51)	14 1/16" (357)	56" (1422)	10.02 (0.93)	5.02 (0.47)	5.00 (0.46)	5.46 (0.51)	24 1/2" (622)		14.67 (1.36)
3056	6.04	(0.56)	14 1/16" (357)	62" (1575)	11.15 (1.04)	5.58 (0.52)	5.56 (0.52)	6.04 (0.56)	18 1/2" (470)		16.15 (1.50)
3060	6.63	(0.62)	14 1/16" (357)	68" (1727)	12.28 (1.14)	6.15 (0.57)	6.13 (0.57)	6.63 (0.62)	12 1/2" (318)		17.63 (1.64)
3610	0.95	(0.09)	17 1/16" (433)	8" (203)	1.21 (0.11)	0.60 (0.06)	0.60 (0.06)	0.95 (0.09)	72 1/2" (1842)		3.31 (0.31)
3616	1.66	(0.15)	17 1/16" (433)	14" (356)	2.59 (0.24)	1.29 (0.12)	1.29 (0.12)	1.66 (0.15)	66 1/2" (1689)		5.04 (0.47)
3620	2.37	(0.22)	17 1/16" (433)	20" (508)	3.96 (0.37)	1.98 (0.18)	1.98 (0.18)	2.37 (0.22)	60 1/2" (1537)		6.77 (0.63)
3626	3.08	(0.29)	17 1/16" (433)	26" (660)	5.34 (0.50)	2.67 (0.25)	2.67 (0.25)	3.08 (0.29)	54 1/2" (1384)		8.50 (0.79)
3630	3.79	(0.35)	17 1/16" (433)	32" (813)	6.72 (0.62)	3.36 (0.31)	3.36 (0.31)	3.79 (0.35)	48 1/2" (1232)		10.23 (0.95)
3636	4.50	(0.42)	17 1/16" (433)	38" (965)	8.10 (0.75)	4.06 (0.38)	4.04 (0.38)	4.50 (0.42)	42 1/2" (1080)		11.96 (1.11)
3640	5.21	(0.48)	17 1/16" (433)	44" (1118)	9.48 (0.88)	4.75 (0.44)	4.73 (0.44)	5.21 (0.48)	36 1/2" (927)		13.69 (1.27)
3646	5.92	(0.55)	17 1/16" (433)	50" (1270)	10.86 (1.01)	5.44 (0.50)	5.42 (0.50)	5.92 (0.55)	30 1/2" (775)		15.42 (1.43)
3650	6.63	(0.62)	17 1/16" (433)	56" (1422)	12.24 (1.14)	6.13 (0.57)	6.11 (0.57)	6.63 (0.62)	24 1/2" (622)		17.15 (1.59)
3656	7.34	(0.68)	17 1/16" (433)	62" (1575)	13.62 (1.26)	6.82 (0.63)	6.80 (0.63)	7.34 (0.68)	18 1/2" (470)		18.88 (1.75)
3660	8.05	(0.75)	17 1/16" (433)	68" (1727)	14.99 (1.39)	7.51 (0.70)	7.49 (0.70)	8.05 (0.75)	12 1/2" (318)		20.61 (1.91)
4010	1.11	(0.10)	20 1/16" (509)	8" (203)	1.43 (0.13)	0.71 (0.07)	0.71 (0.07)	1.11 (0.10)	72 1/2" (1842)		3.79 (0.35)
4016	1.95	(0.18)	20 1/16" (509)	14" (356)	3.05 (0.28)	1.53 (0.14)	1.53 (0.14)	1.95 (0.18)	66 1/2" (1689)		5.77 (0.54)
4020	2.78	(0.26)	20 1/16" (509)	20" (508)	4.68 (0.44)	2.34 (0.22)	2.34 (0.22)	2.78 (0.26)	60 1/2" (1537)		7.75 (0.72)
4026	3.62	(0.34)	20 1/16" (509)	26" (660)	6.31 (0.59)	3.16 (0.29)	3.15 (0.29)	3.62 (0.34)	54 1/2" (1384)		9.73 (0.90)
4030	4.45	(0.41)	20 1/16" (509)	32" (813)	7.94 (0.74)	3.97 (0.37)	3.97 (0.37)	4.45 (0.41)	48 1/2" (1232)		11.71 (1.09)
4036	5.29	(0.49)	20 1/16" (509)	38" (965)	9.57 (0.89)	4.79 (0.44)	4.78 (0.44)	5.29 (0.49)	42 1/2" (1080)		13.69 (1.27)
4040 Ø	6.12	(0.57)	20 1/16" (509)	44" (1118)	11.20 (1.04)	5.60 (0.52)	5.59 (0.52)	6.12 (0.57)	36 1/2" (927)		15.67 (1.46)
4046 Ø	6.96	(0.65)	20 1/16" (509)	50" (1270)	12.83 (1.19)	6.42 (0.60)	6.41 (0.60)	6.96 (0.65)	30 1/2" (775)		17.65 (1.64)
4050 Ø	7.79	(0.72)	20 1/16" (509)	56" (1422)	14.46 (1.34)	7.24 (0.67)	7.22 (0.67)	7.79 (0.72)	24 1/2" (622)		19.63 (1.82)
4056 Ø	8.63	(0.80)	20 1/16" (509)	62" (1575)	16.08 (1.49)	8.05 (0.75)	8.03 (0.75)	8.63 (0.80)	18 1/2" (470)		21.61 (2.01)
4060 Ø	9.46	(0.88)	20 1/16" (509)	68" (1727)	17.71 (1.65)	8.87 (0.82)	8.85 (0.82)	9.46 (0.88)	12 1/2" (318)		23.59 (2.19)
4610	1.28	(0.12)	23 1/16" (585)	8" (203)	1.64 (0.15)	0.82 (0.08)	0.82 (0.08)	1.28 (0.12)	72 1/2" (1842)		4.27 (0.40)
4616	2.24	(0.21)	23 1/16" (585)	14" (356)	3.52 (0.33)	1.76 (0.16)	1.76 (0.16)	2.24 (0.21)	66 1/2" (1689)		6.50 (0.60)
4620	3.20	(0.30)	23 1/16" (585)	20" (508)	5.40 (0.50)	2.70 (0.25)	2.70 (0.25)	3.20 (0.30)	60 1/2" (1537)		8.73 (0.81)
4626	4.16	(0.39)	23 1/16" (585)	26" (660)	7.28 (0.68)	3.64 (0.34)	3.64 (0.34)	4.16 (0.39)	54 1/2" (1384)		10.96 (1.02)
4630	5.12	(0.48)	23 1/16" (585)	32" (813)	9.16 (0.85)	4.58 (0.43)	4.58 (0.43)	5.12 (0.48)	48 1/2" (1232)		13.19 (1.23)

• "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.
ØMeet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

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Gliding Window Opening and Area Specifications – XO/OX *(continued)*

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m ²)	Fixed Sash Glass Area Sq. Ft./ (m ²)	Active Sash Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)						
4636 Ø	6.08 (0.56)	23 1/16" (585)	38" (965)	11.04 (1.03)	5.52 (0.51)	5.51 (0.51)	6.08 (0.56)	42 1/2" (1080)	15.42 (1.43)
4640 Ø	7.04 (0.65)	23 1/16" (585)	44" (1118)	12.92 (1.20)	6.46 (0.60)	6.45 (0.60)	7.04 (0.65)	36 1/2" (927)	17.65 (1.64)
4646 Ø	8.00 (0.74)	23 1/16" (585)	50" (1270)	14.80 (1.37)	7.40 (0.69)	7.39 (0.69)	8.00 (0.74)	30 1/2" (775)	19.88 (1.85)
4650 Ø	8.96 (0.83)	23 1/16" (585)	56" (1422)	16.67 (1.55)	8.34 (0.78)	8.33 (0.77)	8.96 (0.83)	24 1/2" (622)	22.11 (2.05)
4656 Ø	9.92 (0.92)	23 1/16" (585)	62" (1575)	18.55 (1.72)	9.28 (0.86)	9.27 (0.86)	9.92 (0.92)	18 1/2" (470)	24.34 (2.26)
4660 Ø	10.88 (1.01)	23 1/16" (585)	68" (1727)	20.43 (1.90)	10.23 (0.95)	10.21 (0.95)	10.88 (1.01)	12 1/2" (318)	26.56 (2.47)
5010	1.45 (0.13)	26 1/16" (661)	8" (203)	1.86 (0.17)	0.93 (0.09)	0.93 (0.09)	1.45 (0.13)	72 1/2" (1842)	4.75 (0.44)
5016	2.53 (0.24)	26 1/16" (661)	14" (356)	3.99 (0.37)	2.00 (0.19)	1.99 (0.19)	2.53 (0.24)	66 1/2" (1689)	7.23 (0.67)
5020	3.62 (0.34)	26 1/16" (661)	20" (508)	6.12 (0.57)	3.06 (0.28)	3.06 (0.28)	3.62 (0.34)	60 1/2" (1537)	9.71 (0.90)
5026	4.70 (0.44)	26 1/16" (661)	26" (660)	8.25 (0.77)	4.13 (0.38)	4.12 (0.38)	4.70 (0.44)	54 1/2" (1384)	12.19 (1.13)
5030 Ø	5.79 (0.54)	26 1/16" (661)	32" (813)	10.38 (0.96)	5.19 (0.48)	5.18 (0.48)	5.79 (0.54)	48 1/2" (1232)	14.67 (1.36)
5036 Ø	6.87 (0.64)	26 1/16" (661)	38" (965)	12.51 (1.16)	6.26 (0.58)	6.25 (0.58)	6.87 (0.64)	42 1/2" (1080)	17.15 (1.59)
5040 Ø	7.96 (0.74)	26 1/16" (661)	44" (1118)	14.64 (1.36)	7.32 (0.68)	7.31 (0.68)	7.96 (0.74)	36 1/2" (927)	19.63 (1.82)
5046 Ø	9.04 (0.84)	26 1/16" (661)	50" (1270)	16.76 (1.56)	8.39 (0.78)	8.38 (0.78)	9.04 (0.84)	30 1/2" (775)	22.11 (2.05)
5050 Ø	10.13 (0.94)	26 1/16" (661)	56" (1422)	18.89 (1.76)	9.45 (0.88)	9.44 (0.88)	10.13 (0.94)	24 1/2" (622)	24.59 (2.28)
5056 Ø	11.21 (1.04)	26 1/16" (661)	62" (1575)	21.02 (1.95)	10.52 (0.98)	10.50 (0.98)	11.21 (1.04)	18 1/2" (470)	27.06 (2.51)
5060 Ø	12.30 (1.14)	26 1/16" (661)	68" (1727)	23.15 (2.15)	11.58 (1.08)	11.57 (1.07)	12.30 (1.14)	12 1/2" (318)	29.54 (2.74)
5610	1.61 (0.15)	29 1/16" (738)	8" (203)	2.08 (0.19)	1.04 (0.10)	1.04 (0.10)	1.61 (0.15)	72 1/2" (1842)	5.23 (0.49)
5616	2.82 (0.26)	29 1/16" (738)	14" (356)	4.46 (0.41)	2.23 (0.21)	2.23 (0.21)	2.82 (0.26)	66 1/2" (1689)	7.96 (0.74)
5620	4.03 (0.37)	29 1/16" (738)	20" (508)	6.84 (0.64)	3.42 (0.32)	3.42 (0.32)	4.03 (0.37)	60 1/2" (1537)	10.69 (0.99)
5626	5.24 (0.49)	29 1/16" (738)	26" (660)	9.22 (0.86)	4.61 (0.43)	4.61 (0.43)	5.24 (0.49)	54 1/2" (1384)	13.42 (1.25)
5630 Ø	6.45 (0.60)	29 1/16" (738)	32" (813)	11.60 (1.08)	5.80 (0.54)	5.79 (0.54)	6.45 (0.60)	48 1/2" (1232)	16.15 (1.50)
5636 Ø	7.66 (0.71)	29 1/16" (738)	38" (965)	13.98 (1.30)	6.99 (0.65)	6.98 (0.65)	7.66 (0.71)	42 1/2" (1080)	18.88 (1.75)
5640 Ø	8.87 (0.82)	29 1/16" (738)	44" (1118)	16.35 (1.52)	8.18 (0.76)	8.17 (0.76)	8.87 (0.82)	36 1/2" (927)	21.61 (2.01)
5646 Ø	10.08 (0.94)	29 1/16" (738)	50" (1270)	18.73 (1.74)	9.37 (0.87)	9.36 (0.87)	10.08 (0.94)	30 1/2" (775)	24.34 (2.26)
5650 Ø	11.29 (1.05)	29 1/16" (738)	56" (1422)	21.11 (1.96)	10.56 (0.98)	10.55 (0.98)	11.29 (1.05)	24 1/2" (622)	27.06 (2.51)
5656 Ø	12.50 (1.16)	29 1/16" (738)	62" (1575)	23.49 (2.18)	11.75 (1.09)	11.74 (1.09)	12.50 (1.16)	18 1/2" (470)	29.79 (2.77)
5660 Ø	13.71 (1.27)	29 1/16" (738)	68" (1727)	25.87 (2.40)	12.94 (1.20)	12.92 (1.20)	13.71 (1.27)	12 1/2" (318)	32.52 (3.02)
6010	1.78 (0.17)	32 1/16" (814)	8" (203)	2.30 (0.21)	1.15 (0.11)	1.15 (0.11)	1.78 (0.17)	72 1/2" (1842)	5.71 (0.53)
6016	3.11 (0.29)	32 1/16" (814)	14" (356)	4.93 (0.46)	2.47 (0.23)	2.46 (0.23)	3.11 (0.29)	66 1/2" (1689)	8.69 (0.81)
6020	4.45 (0.41)	32 1/16" (814)	20" (508)	7.56 (0.70)	3.78 (0.35)	3.78 (0.35)	4.45 (0.41)	60 1/2" (1537)	11.67 (1.08)
6026 Ø	5.78 (0.54)	32 1/16" (814)	26" (660)	10.19 (0.95)	5.10 (0.47)	5.09 (0.47)	5.78 (0.54)	54 1/2" (1384)	14.65 (1.36)
6030 Ø	7.12 (0.66)	32 1/16" (814)	32" (813)	12.82 (1.19)	6.41 (0.60)	6.40 (0.59)	7.12 (0.66)	48 1/2" (1232)	17.63 (1.64)
6036 Ø	8.45 (0.79)	32 1/16" (814)	38" (965)	15.44 (1.43)	7.73 (0.72)	7.72 (0.72)	8.45 (0.79)	42 1/2" (1080)	20.61 (1.91)
6040 Ø	9.79 (0.91)	32 1/16" (814)	44" (1118)	18.07 (1.68)	9.04 (0.84)	9.03 (0.84)	9.79 (0.91)	36 1/2" (927)	23.59 (2.19)
6046 Ø	11.12 (1.03)	32 1/16" (814)	50" (1270)	20.70 (1.92)	10.36 (0.96)	10.34 (0.96)	11.12 (1.03)	30 1/2" (775)	26.56 (2.47)
6050 Ø	12.46 (1.16)	32 1/16" (814)	56" (1422)	23.33 (2.17)	11.67 (1.08)	11.66 (1.08)	12.46 (1.16)	24 1/2" (622)	29.54 (2.74)
6056 Ø	13.79 (1.28)	32 1/16" (814)	62" (1575)	25.96 (2.41)	12.99 (1.21)	12.97 (1.21)	13.79 (1.28)	18 1/2" (470)	32.52 (3.02)
6060 Ø	15.13 (1.41)	32 1/16" (814)	68" (1727)	28.59 (2.66)	14.30 (1.33)	14.28 (1.33)	15.13 (1.41)	12 1/2" (318)	35.50 (3.30)

Gliding Window Opening and Area Specifications – XOX 1:2:1 Sash Ratio

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m ²)	Fixed Sash Glass Area Sq. Ft./ (m ²)	Single Active Sash Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)						
5016	1.16 (0.11)	11 7/8" (302)	14" (356)	3.82 (0.36)	2.18 (0.20)	0.82 (0.08)	2.31 (0.21)	66 1/2" (1689)	7.23 (0.67)
5020	1.65 (0.15)	11 7/8" (302)	20" (508)	5.86 (0.54)	3.34 (0.31)	1.26 (0.12)	3.31 (0.31)	60 1/2" (1537)	9.71 (0.90)
5026	2.15 (0.20)	11 7/8" (302)	26" (660)	7.90 (0.73)	4.50 (0.42)	1.70 (0.16)	4.30 (0.40)	54 1/2" (1384)	12.19 (1.13)
5030	2.64 (0.25)	11 7/8" (302)	32" (813)	9.94 (0.92)	5.66 (0.53)	2.14 (0.20)	5.29 (0.49)	48 1/2" (1232)	14.67 (1.36)
5036	3.14 (0.29)	11 7/8" (302)	38" (965)	11.98 (1.11)	6.83 (0.63)	2.58 (0.24)	6.28 (0.58)	42 1/2" (1080)	17.15 (1.59)
5040	3.64 (0.34)	11 7/8" (302)	44" (1118)	14.02 (1.30)	7.99 (0.74)	3.01 (0.28)	7.27 (0.68)	36 1/2" (927)	19.63 (1.82)
5046	4.13 (0.38)	11 7/8" (302)	50" (1270)	16.06 (1.49)	9.15 (0.85)	3.45 (0.32)	8.26 (0.77)	30 1/2" (775)	22.11 (2.05)
5050	4.63 (0.43)	11 7/8" (302)	56" (1422)	18.09 (1.68)	10.31 (0.96)	3.89 (0.36)	9.25 (0.86)	24 1/2" (622)	24.59 (2.28)
5056	5.12 (0.48)	11 7/8" (302)	62" (1575)	20.13 (1.87)	11.47 (1.07)	4.33 (0.40)	10.25 (0.95)	18 1/2" (470)	27.06 (2.51)
5060	5.62 (0.52)	11 7/8" (302)	68" (1727)	22.17 (2.06)	12.63 (1.17)	4.77 (0.44)	11.24 (1.04)	12 1/2" (318)	29.54 (2.74)
6016	1.45 (0.13)	14 7/8" (378)	14" (356)	4.76 (0.44)	2.65 (0.25)	1.06 (0.10)	2.90 (0.27)	66 1/2" (1689)	8.69 (0.81)
6020	2.07 (0.19)	14 7/8" (378)	20" (508)	7.30 (0.68)	4.06 (0.38)	1.62 (0.15)	4.14 (0.38)	60 1/2" (1537)	11.67 (1.08)
6026	2.69 (0.25)	14 7/8" (378)	26" (660)	9.84 (0.91)	5.47 (0.51)	2.18 (0.20)	5.38 (0.50)	54 1/2" (1384)	14.65 (1.36)
6030	3.31 (0.31)	14 7/8" (378)	32" (813)	12.38 (1.15)	6.88 (0.64)	2.75 (0.26)	6.62 (0.62)	48 1/2" (1232)	17.63 (1.64)
6036	3.93 (0.37)	14 7/8" (378)	38" (965)	14.92 (1.39)	8.29 (0.77)	3.31 (0.31)	7.86 (0.73)	42 1/2" (1080)	20.61 (1.91)

• "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.
ØMeet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

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GLIDING WINDOWS

Gliding Window Opening and Area Specifications – XOX 1:2:1 Sash Ratio *(continued)*

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m ²)	Fixed Sash Glass Area Sq. Ft./ (m ²)	Single Active Sash Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)						
6040	4.55 (0.42)	14 7/8" (378)	44" (1118)	17.45 (1.62)	9.71 (0.90)	3.87 (0.36)	9.10 (0.85)	36 1/2" (927)	23.59 (2.19)
6046	5.17 (0.48)	14 7/8" (378)	50" (1270)	19.99 (1.86)	11.12 (1.03)	4.44 (0.41)	10.35 (0.96)	30 1/2" (775)	26.56 (2.47)
6050	5.79 (0.54)	14 7/8" (378)	56" (1422)	22.53 (2.09)	12.53 (1.16)	5.00 (0.46)	11.59 (1.08)	24 1/2" (622)	29.54 (2.74)
6056	6.41 (0.60)	14 7/8" (378)	62" (1575)	25.07 (2.33)	13.94 (1.30)	5.56 (0.52)	12.83 (1.19)	18 1/2" (470)	32.52 (3.02)
6060	7.04 (0.65)	14 7/8" (378)	68" (1727)	27.61 (2.56)	15.35 (1.43)	6.13 (0.57)	14.07 (1.31)	12 1/2" (318)	35.50 (3.30)
7016	1.74 (0.16)	17 7/8" (455)	14" (356)	5.70 (0.53)	3.12 (0.29)	1.29 (0.12)	3.48 (0.32)	66 1/2" (1689)	10.15 (0.94)
7020	2.49 (0.23)	17 7/8" (455)	20" (508)	8.74 (0.81)	4.78 (0.44)	1.98 (0.18)	4.97 (0.46)	60 1/2" (1537)	13.63 (1.27)
7026	3.23 (0.30)	17 7/8" (455)	26" (660)	11.78 (1.09)	6.44 (0.60)	2.67 (0.25)	6.46 (0.60)	54 1/2" (1384)	17.11 (1.59)
7030	3.98 (0.37)	17 7/8" (455)	32" (813)	14.81 (1.38)	8.10 (0.75)	3.36 (0.31)	7.96 (0.74)	48 1/2" (1232)	20.59 (1.91)
7036	4.72 (0.44)	17 7/8" (455)	38" (965)	17.85 (1.66)	9.76 (0.91)	4.04 (0.38)	9.45 (0.88)	42 1/2" (1080)	24.06 (2.24)
7040	5.47 (0.51)	17 7/8" (455)	44" (1118)	20.89 (1.94)	11.42 (1.06)	4.73 (0.44)	10.94 (1.02)	36 1/2" (927)	27.54 (2.56)
7046	6.21 (0.58)	17 7/8" (455)	50" (1270)	23.93 (2.22)	13.09 (1.22)	5.42 (0.50)	12.43 (1.15)	30 1/2" (775)	31.02 (2.88)
7050	6.96 (0.65)	17 7/8" (455)	56" (1422)	26.97 (2.51)	14.75 (1.37)	6.11 (0.57)	13.92 (1.29)	24 1/2" (622)	34.50 (3.21)
7056	7.71 (0.72)	17 7/8" (455)	62" (1575)	30.01 (2.79)	16.41 (1.52)	6.80 (0.63)	15.41 (1.43)	18 1/2" (470)	37.98 (3.53)
7060	8.45 (0.79)	17 7/8" (455)	68" (1727)	33.05 (3.07)	18.07 (1.68)	7.49 (0.70)	16.90 (1.57)	12 1/2" (318)	41.46 (3.85)
7616	1.89 (0.18)	19 3/8" (493)	14" (356)	6.17 (0.57)	3.35 (0.31)	1.41 (0.13)	3.77 (0.35)	66 1/2" (1689)	10.88 (1.01)
7620	2.69 (0.25)	19 3/8" (493)	20" (508)	9.46 (0.88)	5.14 (0.48)	2.16 (0.20)	5.39 (0.50)	60 1/2" (1537)	14.61 (1.36)
7626	3.50 (0.33)	19 3/8" (493)	26" (660)	12.74 (1.18)	6.92 (0.64)	2.91 (0.27)	7.01 (0.65)	54 1/2" (1384)	18.34 (1.70)
7630	4.31 (0.40)	19 3/8" (493)	32" (813)	16.03 (1.49)	8.71 (0.81)	3.66 (0.34)	8.62 (0.80)	48 1/2" (1232)	22.06 (2.05)
7636	5.12 (0.48)	19 3/8" (493)	38" (965)	19.32 (1.80)	10.50 (0.98)	4.41 (0.41)	10.24 (0.95)	42 1/2" (1080)	25.79 (2.40)
7640	5.93 (0.55)	19 3/8" (493)	44" (1118)	22.61 (2.10)	12.28 (1.14)	5.16 (0.48)	11.85 (1.10)	36 1/2" (927)	29.52 (2.74)
7646	6.74 (0.63)	19 3/8" (493)	50" (1270)	25.90 (2.41)	14.07 (1.31)	5.91 (0.55)	13.47 (1.25)	30 1/2" (775)	33.25 (3.09)
7650	7.54 (0.70)	19 3/8" (493)	56" (1422)	29.19 (2.71)	15.86 (1.47)	6.67 (0.62)	15.09 (1.40)	24 1/2" (622)	36.98 (3.44)
7656	8.35 (0.78)	19 3/8" (493)	62" (1575)	32.48 (3.02)	17.64 (1.64)	7.42 (0.69)	16.70 (1.55)	18 1/2" (470)	40.71 (3.78)
7660	9.16 (0.85)	19 3/8" (493)	68" (1727)	35.77 (3.32)	19.43 (1.81)	8.17 (0.76)	18.32 (1.70)	12 1/2" (318)	44.44 (4.13)
8016	2.03 (0.19)	20 7/8" (531)	14" (356)	6.64 (0.62)	3.58 (0.33)	1.53 (0.14)	4.06 (0.38)	66 1/2" (1689)	11.61 (1.08)
8020	2.90 (0.27)	20 7/8" (531)	20" (508)	10.17 (0.95)	5.50 (0.51)	2.34 (0.22)	5.81 (0.54)	60 1/2" (1537)	15.59 (1.45)
8026	3.77 (0.35)	20 7/8" (531)	26" (660)	13.71 (1.27)	7.41 (0.69)	3.15 (0.29)	7.55 (0.70)	54 1/2" (1384)	19.56 (1.82)
8030	4.64 (0.43)	20 7/8" (531)	32" (813)	17.25 (1.60)	9.32 (0.87)	3.97 (0.37)	9.29 (0.86)	48 1/2" (1232)	23.54 (2.19)
8036	5.52 (0.51)	20 7/8" (531)	38" (965)	20.79 (1.93)	11.23 (1.04)	4.78 (0.44)	11.03 (1.02)	42 1/2" (1080)	27.52 (2.56)
8040 Ø	6.39 (0.59)	20 7/8" (531)	44" (1118)	24.33 (2.26)	13.14 (1.22)	5.59 (0.52)	12.77 (1.19)	36 1/2" (927)	31.50 (2.93)
8046 Ø	7.26 (0.67)	20 7/8" (531)	50" (1270)	27.87 (2.59)	15.06 (1.40)	6.41 (0.60)	14.51 (1.35)	30 1/2" (775)	35.48 (3.30)
8050 Ø	8.13 (0.76)	20 7/8" (531)	56" (1422)	31.41 (2.92)	16.97 (1.58)	7.22 (0.67)	16.25 (1.51)	24 1/2" (622)	39.46 (3.67)
8056 Ø	9.00 (0.84)	20 7/8" (531)	62" (1575)	34.95 (3.25)	18.88 (1.75)	8.03 (0.75)	18.00 (1.67)	18 1/2" (470)	43.44 (4.04)
8060 Ø	9.87 (0.92)	20 7/8" (531)	68" (1727)	38.48 (3.58)	20.79 (1.93)	8.85 (0.82)	19.74 (1.83)	12 1/2" (318)	47.42 (4.41)
8616	2.18 (0.20)	22 3/8" (569)	14" (356)	7.10 (0.66)	3.82 (0.35)	1.64 (0.15)	4.36 (0.40)	66 1/2" (1689)	12.34 (1.15)
8620	3.11 (0.29)	22 3/8" (569)	20" (508)	10.89 (1.01)	5.86 (0.54)	2.52 (0.23)	6.22 (0.58)	60 1/2" (1537)	16.56 (1.54)
8626	4.04 (0.38)	22 3/8" (569)	26" (660)	14.68 (1.36)	7.89 (0.73)	3.39 (0.32)	8.09 (0.75)	54 1/2" (1384)	20.79 (1.93)
8630	4.98 (0.46)	22 3/8" (569)	32" (813)	18.47 (1.72)	9.93 (0.92)	4.27 (0.40)	9.96 (0.92)	48 1/2" (1232)	25.02 (2.32)
8636 Ø	5.91 (0.55)	22 3/8" (569)	38" (965)	22.26 (2.07)	11.97 (1.11)	5.15 (0.48)	11.82 (1.10)	42 1/2" (1080)	29.25 (2.72)
8640 Ø	6.84 (0.64)	22 3/8" (569)	44" (1118)	26.05 (2.42)	14.00 (1.30)	6.02 (0.56)	13.69 (1.27)	36 1/2" (927)	33.48 (3.11)
8646 Ø	7.78 (0.72)	22 3/8" (569)	50" (1270)	29.84 (2.77)	16.04 (1.49)	6.90 (0.64)	15.55 (1.45)	30 1/2" (775)	37.71 (3.50)
8650 Ø	8.71 (0.81)	22 3/8" (569)	56" (1422)	33.63 (3.12)	18.08 (1.68)	7.77 (0.72)	17.42 (1.62)	24 1/2" (622)	41.94 (3.90)
8656 Ø	9.64 (0.90)	22 3/8" (569)	62" (1575)	37.41 (3.48)	20.11 (1.87)	8.65 (0.80)	19.29 (1.79)	18 1/2" (470)	46.17 (4.29)
8660 Ø	10.58 (0.98)	22 3/8" (569)	68" (1727)	41.20 (3.83)	22.15 (2.06)	9.53 (0.89)	21.15 (1.97)	12 1/2" (318)	50.40 (4.68)
9016	2.32 (0.22)	23 7/8" (607)	14" (356)	7.57 (0.70)	4.05 (0.38)	1.76 (0.16)	4.65 (0.43)	66 1/2" (1689)	13.06 (1.21)
9020	3.32 (0.31)	23 7/8" (607)	20" (508)	11.61 (1.08)	6.22 (0.58)	2.70 (0.25)	6.64 (0.62)	60 1/2" (1537)	17.54 (1.63)
9026	4.32 (0.40)	23 7/8" (607)	26" (660)	15.65 (1.45)	8.38 (0.78)	3.64 (0.34)	8.63 (0.80)	54 1/2" (1384)	22.02 (2.05)
9030	5.31 (0.49)	23 7/8" (607)	32" (813)	19.69 (1.83)	10.54 (0.98)	4.58 (0.43)	10.62 (0.99)	48 1/2" (1232)	26.50 (2.46)
9036 Ø	6.31 (0.59)	23 7/8" (607)	38" (965)	23.73 (2.20)	12.70 (1.18)	5.51 (0.51)	12.61 (1.17)	42 1/2" (1080)	30.98 (2.88)
9040 Ø	7.30 (0.68)	23 7/8" (607)	44" (1118)	27.77 (2.58)	14.86 (1.38)	6.45 (0.60)	14.60 (1.36)	36 1/2" (927)	35.46 (3.29)
9046 Ø	8.30 (0.77)	23 7/8" (607)	50" (1270)	31.81 (2.95)	17.02 (1.58)	7.39 (0.69)	16.60 (1.54)	30 1/2" (775)	39.94 (3.71)
9050 Ø	9.29 (0.86)	23 7/8" (607)	56" (1422)	35.84 (3.33)	19.19 (1.78)	8.33 (0.77)	18.59 (1.73)	24 1/2" (622)	44.42 (4.13)
9056 Ø	10.29 (0.96)	23 7/8" (607)	62" (1575)	39.88 (3.71)	21.35 (1.98)	9.27 (0.86)	20.58 (1.91)	18 1/2" (470)	48.90 (4.54)
9060 Ø	11.29 (1.05)	23 7/8" (607)	68" (1727)	43.92 (4.08)	23.51 (2.18)	10.21 (0.95)	22.57 (2.10)	12 1/2" (318)	53.38 (4.96)
10016	2.62 (0.24)	26 7/8" (683)	14" (356)	8.51 (0.79)	4.52 (0.42)	1.99 (0.19)	5.23 (0.49)	66 1/2" (1689)	14.52 (1.35)
10020	3.74 (0.35)	26 7/8" (683)	20" (508)	13.05 (1.21)	6.93 (0.64)	3.06 (0.28)	7.47 (0.69)	60 1/2" (1537)	19.50 (1.81)
10026	4.86 (0.45)	26 7/8" (683)	26" (660)	17.59 (1.63)	9.35 (0.87)	4.12 (0.38)	9.71 (0.90)	54 1/2" (1384)	24.48 (2.27)
10030	5.98 (0.56)	26 7/8" (683)	32" (813)	22.13 (2.06)	11.76 (1.09)	5.18 (0.48)	11.96 (1.11)	48 1/2" (1232)	29.46 (2.74)
10036 Ø	7.10 (0.66)	26 7/8" (683)	38" (965)	26.67 (2.48)	14.17 (1.32)	6.25 (0.58)	14.20 (1.32)	42 1/2" (1080)	34.44 (3.20)

• "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.
ØMeet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

continued on next page

Gliding Window Opening and Area Specifications – XOX 1:2:1 Sash Ratio *(continued)*

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m ²)	Fixed Sash Glass Area Sq. Ft./ (m ²)	Single Active Sash Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)						
10040 ◊	8.22 (0.76)	26 7/8" (683)	44" (1118)	31.20 (2.90)	16.58 (1.54)	7.31 (0.68)	16.44 (1.53)	36 1/2" (927)	39.42 (3.66)
10046 ◊	9.34 (0.87)	26 7/8" (683)	50" (1270)	35.74 (3.32)	18.99 (1.76)	8.38 (0.78)	18.68 (1.74)	30 1/2" (775)	44.40 (4.12)
10050 ◊	10.46 (0.97)	26 7/8" (683)	56" (1422)	40.28 (3.74)	21.40 (1.99)	9.44 (0.88)	20.92 (1.94)	24 1/2" (622)	49.38 (4.59)
10056 ◊	11.58 (1.08)	26 7/8" (683)	62" (1575)	44.82 (4.16)	23.82 (2.21)	10.50 (0.98)	23.16 (2.15)	18 1/2" (470)	54.36 (5.05)
10060 ◊	12.70 (1.18)	26 7/8" (683)	68" (1727)	49.36 (4.59)	26.23 (2.44)	11.57 (1.07)	25.40 (2.36)	12 1/2" (318)	59.34 (5.51)
11016	2.91 (0.27)	29 7/8" (759)	14" (356)	9.45 (0.88)	4.99 (0.46)	2.23 (0.21)	5.81 (0.54)	66 1/2" (1689)	15.98 (1.48)
11020	4.15 (0.39)	29 7/8" (759)	20" (508)	14.49 (1.35)	7.65 (0.71)	3.42 (0.32)	8.31 (0.77)	60 1/2" (1537)	21.46 (1.99)
11026	5.40 (0.50)	29 7/8" (759)	26" (660)	19.53 (1.81)	10.31 (0.96)	4.61 (0.43)	10.80 (1.00)	54 1/2" (1384)	26.94 (2.50)
11030 ◊	6.64 (0.62)	29 7/8" (759)	32" (813)	24.56 (2.28)	12.98 (1.21)	5.79 (0.54)	13.29 (1.23)	48 1/2" (1232)	32.42 (3.01)
11036 ◊	7.89 (0.73)	29 7/8" (759)	38" (965)	29.60 (2.75)	15.64 (1.45)	6.98 (0.65)	15.78 (1.47)	42 1/2" (1080)	37.90 (3.52)
11040 ◊	9.14 (0.85)	29 7/8" (759)	44" (1118)	34.64 (3.22)	18.30 (1.70)	8.17 (0.76)	18.27 (1.70)	36 1/2" (927)	43.38 (4.03)
11046 ◊	10.38 (0.96)	29 7/8" (759)	50" (1270)	39.68 (3.69)	20.96 (1.95)	9.36 (0.87)	20.76 (1.93)	30 1/2" (775)	48.86 (4.54)
11050 ◊	11.63 (1.08)	29 7/8" (759)	56" (1422)	44.72 (4.15)	23.62 (2.19)	10.55 (0.98)	23.25 (2.16)	24 1/2" (622)	54.34 (5.05)
11056 ◊	12.87 (1.20)	29 7/8" (759)	62" (1575)	49.76 (4.62)	26.28 (2.44)	11.74 (1.09)	25.75 (2.39)	18 1/2" (470)	59.81 (5.56)
11060 ◊	14.12 (1.31)	29 7/8" (759)	68" (1727)	54.80 (5.09)	28.95 (2.69)	12.92 (1.20)	28.24 (2.62)	12 1/2" (318)	65.29 (6.07)
12016	3.20 (0.30)	32 7/8" (836)	14" (356)	10.39 (0.96)	5.46 (0.51)	2.46 (0.23)	6.40 (0.59)	66 1/2" (1689)	17.44 (1.62)
12020	4.57 (0.42)	32 7/8" (836)	20" (508)	15.92 (1.48)	8.37 (0.78)	3.78 (0.35)	9.14 (0.85)	60 1/2" (1537)	23.42 (2.18)
12026 ◊	5.94 (0.55)	32 7/8" (836)	26" (660)	21.46 (1.99)	11.28 (1.05)	5.09 (0.47)	11.88 (1.10)	54 1/2" (1384)	29.40 (2.73)
12030 ◊	7.31 (0.68)	32 7/8" (836)	32" (813)	27.00 (2.51)	14.19 (1.32)	6.40 (0.59)	14.62 (1.36)	48 1/2" (1232)	35.38 (3.29)
12036 ◊	8.68 (0.81)	32 7/8" (836)	38" (965)	32.54 (3.02)	17.11 (1.59)	7.72 (0.72)	17.36 (1.61)	42 1/2" (1080)	41.36 (3.84)
12040 ◊	10.05 (0.93)	32 7/8" (836)	44" (1118)	38.08 (3.54)	20.02 (1.86)	9.03 (0.84)	20.10 (1.87)	36 1/2" (927)	47.34 (4.40)
12046 ◊	11.42 (1.06)	32 7/8" (836)	50" (1270)	43.62 (4.05)	22.93 (2.13)	10.34 (0.96)	22.85 (2.12)	30 1/2" (775)	53.31 (4.95)
12050 ◊	12.79 (1.19)	32 7/8" (836)	56" (1422)	49.16 (4.57)	25.84 (2.40)	11.66 (1.08)	25.59 (2.38)	24 1/2" (622)	59.29 (5.51)
12056 ◊	14.16 (1.32)	32 7/8" (836)	62" (1575)	54.70 (5.08)	28.75 (2.67)	12.97 (1.21)	28.33 (2.63)	18 1/2" (470)	65.27 (6.06)
12060 ◊	15.54 (1.44)	32 7/8" (836)	68" (1727)	60.23 (5.60)	31.67 (2.94)	14.28 (1.33)	31.07 (2.89)	12 1/2" (318)	71.25 (6.62)

Gliding Window Opening and Area Specifications – XOX 1:1:1 (Equal) Sash Ratio

Window Number	Clear Opening Area Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m ²)	Fixed Sash Glass Area Sq. Ft./ (m ²)	Single Active Sash Glass Area Sq. Ft./ (m ²)	Vent Area Sq. Ft./ (m ²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)	Overall Window Area Sq. Ft./ (m ²)
		Width Inches/ (mm)	Height Inches/ (mm)						
4016	1.04 (0.10)	10 5/8" (271)	14" (356)	2.89 (0.27)	0.96 (0.09)	0.96 (0.09)	2.07 (0.19)	66 1/2" (1689)	5.77 (0.54)
4020	1.48 (0.14)	10 5/8" (271)	20" (508)	4.42 (0.41)	1.48 (0.14)	1.47 (0.14)	2.96 (0.28)	60 1/2" (1537)	7.75 (0.72)
4026	1.93 (0.18)	10 5/8" (271)	26" (660)	5.96 (0.55)	1.99 (0.19)	1.99 (0.18)	3.85 (0.36)	54 1/2" (1384)	9.73 (0.90)
4030	2.37 (0.22)	10 5/8" (271)	32" (813)	7.50 (0.70)	2.51 (0.23)	2.50 (0.23)	4.74 (0.44)	48 1/2" (1232)	11.71 (1.09)
4036	2.82 (0.26)	10 5/8" (271)	38" (965)	9.04 (0.84)	3.02 (0.28)	3.01 (0.28)	5.63 (0.52)	42 1/2" (1080)	13.69 (1.27)
4040	3.26 (0.30)	10 5/8" (271)	44" (1118)	10.58 (0.98)	3.53 (0.33)	3.52 (0.33)	6.52 (0.61)	36 1/2" (927)	15.67 (1.46)
4046	3.70 (0.34)	10 5/8" (271)	50" (1270)	12.12 (1.13)	4.05 (0.38)	4.03 (0.37)	7.41 (0.69)	30 1/2" (775)	17.65 (1.64)
4050	4.15 (0.39)	10 5/8" (271)	56" (1422)	13.66 (1.27)	4.56 (0.42)	4.55 (0.42)	8.30 (0.77)	24 1/2" (622)	19.63 (1.82)
4056	4.59 (0.43)	10 5/8" (271)	62" (1575)	15.20 (1.41)	5.08 (0.47)	5.06 (0.47)	9.19 (0.85)	18 1/2" (470)	21.61 (2.01)
4060	5.04 (0.47)	10 5/8" (271)	68" (1727)	16.73 (1.55)	5.59 (0.52)	5.57 (0.52)	10.08 (0.94)	12 1/2" (318)	23.59 (2.19)
5016	1.43 (0.13)	14 5/8" (373)	14" (356)	3.82 (0.36)	1.28 (0.12)	1.27 (0.12)	2.85 (0.26)	66 1/2" (1689)	7.23 (0.67)
5020	2.04 (0.19)	14 5/8" (373)	20" (508)	5.86 (0.54)	1.96 (0.18)	1.95 (0.18)	4.07 (0.38)	60 1/2" (1537)	9.71 (0.90)
5026	2.65 (0.25)	14 5/8" (373)	26" (660)	7.90 (0.73)	2.64 (0.25)	2.63 (0.24)	5.30 (0.49)	54 1/2" (1384)	12.19 (1.13)
5030	3.26 (0.30)	14 5/8" (373)	32" (813)	9.94 (0.92)	3.32 (0.31)	3.31 (0.31)	6.52 (0.61)	48 1/2" (1232)	14.67 (1.36)
5036	3.87 (0.36)	14 5/8" (373)	38" (965)	11.98 (1.11)	4.00 (0.37)	3.99 (0.37)	7.74 (0.72)	42 1/2" (1080)	17.15 (1.59)
5040	4.48 (0.42)	14 5/8" (373)	44" (1118)	14.02 (1.30)	4.68 (0.43)	4.67 (0.43)	8.96 (0.83)	36 1/2" (927)	19.63 (1.82)
5046	5.09 (0.47)	14 5/8" (373)	50" (1270)	16.06 (1.49)	5.36 (0.50)	5.35 (0.50)	10.19 (0.95)	30 1/2" (775)	22.11 (2.05)
5050	5.70 (0.53)	14 5/8" (373)	56" (1422)	18.09 (1.68)	6.04 (0.56)	6.03 (0.56)	11.41 (1.06)	24 1/2" (622)	24.59 (2.28)
5056	6.32 (0.59)	14 5/8" (373)	62" (1575)	20.13 (1.87)	6.72 (0.62)	6.71 (0.62)	12.63 (1.17)	18 1/2" (470)	27.06 (2.51)
5060	6.93 (0.64)	14 5/8" (373)	68" (1727)	22.17 (2.06)	7.40 (0.69)	7.38 (0.69)	13.85 (1.29)	12 1/2" (318)	29.54 (2.74)
6016	1.82 (0.17)	18 5/8" (474)	14" (356)	4.76 (0.44)	1.59 (0.15)	1.59 (0.15)	3.63 (0.34)	66 1/2" (1689)	8.69 (0.81)
6020	2.59 (0.24)	18 5/8" (474)	20" (508)	7.30 (0.68)	2.44 (0.23)	2.43 (0.23)	5.19 (0.48)	60 1/2" (1537)	11.67 (1.08)
6026	3.37 (0.31)	18 5/8" (474)	26" (660)	9.84 (0.91)	3.28 (0.31)	3.28 (0.30)	6.74 (0.63)	54 1/2" (1384)	14.65 (1.36)
6030	4.15 (0.39)	18 5/8" (474)	32" (813)	12.38 (1.15)	4.13 (0.38)	4.12 (0.38)	8.30 (0.77)	48 1/2" (1232)	17.63 (1.64)
6036	4.93 (0.46)	18 5/8" (474)	38" (965)	14.92 (1.39)	4.98 (0.46)	4.97 (0.46)	9.85 (0.92)	42 1/2" (1080)	20.61 (1.91)
6040	5.70 (0.53)	18 5/8" (474)	44" (1118)	17.45 (1.62)	5.83 (0.54)	5.81 (0.54)	11.41 (1.06)	36 1/2" (927)	23.59 (2.19)
6046	6.48 (0.60)	18 5/8" (474)	50" (1270)	19.99 (1.86)	6.67 (0.62)	6.66 (0.62)	12.96 (1.20)	30 1/2" (775)	26.56 (2.47)
6050	7.26 (0.67)	18 5/8" (474)	56" (1422)	22.53 (2.09)	7.52 (0.70)	7.51 (0.70)	14.52 (1.35)	24 1/2" (622)	29.54 (2.74)
6056	8.04 (0.75)	18 5/8" (474)	62" (1575)	25.07 (2.33)	8.37 (0.78)	8.35 (0.78)	16.08 (1.49)	18 1/2" (470)	32.52 (3.02)

- "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 .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

continued on next page

GLIDING WINDOWS

Gliding Window Opening and Area Specifications – XOX 1:1:1 (Equal) Sash Ratio *(continued)*

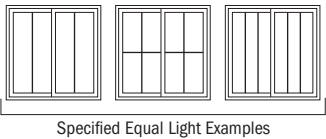
Window Number	Clear Opening Area Sq. Ft./ (m²)		Clear Opening in Full Open Position		Total Glass Area Sq. Ft./ (m²)	Fixed Sash Glass Area Sq. Ft./ (m²)	Single Active Sash Glass Area Sq. Ft./ (m²)	Vent Area Sq. Ft./ (m²)	Top of Subfloor to Top of Inside Sill Stop Inches/ (mm)		Overall Window Area Sq. Ft./ (m²)
			Width Inches/ (mm)	Height Inches/ (mm)							
6060	8.82	(0.82)	18 5/8" (474)	68" (1727)	27.61 (2.56)	9.22 (0.86)	9.20 (0.85)	17.63 (1.64)	12 1/2" (318)		35.50 (3.30)
7016	2.20	(0.20)	22 5/8" (576)	14" (356)	5.70 (0.53)	1.90 (0.18)	1.90 (0.18)	4.41 (0.41)	66 1/2" (1689)		10.15 (0.94)
7020	3.15	(0.29)	22 5/8" (576)	20" (508)	8.74 (0.81)	2.92 (0.27)	2.91 (0.27)	6.30 (0.59)	60 1/2" (1537)		13.63 (1.27)
7026	4.09	(0.38)	22 5/8" (576)	26" (660)	11.78 (1.09)	3.93 (0.37)	3.92 (0.36)	8.19 (0.76)	54 1/2" (1384)		17.11 (1.59)
7030	5.04	(0.47)	22 5/8" (576)	32" (813)	14.81 (1.38)	4.94 (0.46)	4.94 (0.46)	10.08 (0.94)	48 1/2" (1232)		20.59 (1.91)
7036 Ø	5.98	(0.56)	22 5/8" (576)	38" (965)	17.85 (1.66)	5.96 (0.55)	5.95 (0.55)	11.96 (1.11)	42 1/2" (1080)		24.06 (2.24)
7040 Ø	6.93	(0.64)	22 5/8" (576)	44" (1118)	20.89 (1.94)	6.97 (0.65)	6.96 (0.65)	13.85 (1.29)	36 1/2" (927)		27.54 (2.56)
7046 Ø	7.87	(0.73)	22 5/8" (576)	50" (1270)	23.93 (2.22)	7.99 (0.74)	7.97 (0.74)	15.74 (1.46)	30 1/2" (775)		31.02 (2.88)
7050 Ø	8.82	(0.82)	22 5/8" (576)	56" (1422)	26.97 (2.51)	9.00 (0.84)	8.98 (0.83)	17.63 (1.64)	24 1/2" (622)		34.50 (3.21)
7056 Ø	9.76	(0.91)	22 5/8" (576)	62" (1575)	30.01 (2.79)	10.01 (0.93)	10.00 (0.93)	19.52 (1.81)	18 1/2" (470)		37.98 (3.53)
7060 Ø	10.70	(0.99)	22 5/8" (576)	68" (1727)	33.05 (3.07)	11.03 (1.02)	11.01 (1.02)	21.41 (1.99)	12 1/2" (318)		41.46 (3.85)
7616	2.40	(0.22)	24 5/8" (627)	14" (356)	6.17 (0.57)	2.06 (0.19)	2.05 (0.19)	4.80 (0.45)	66 1/2" (1689)		10.88 (1.01)
7620	3.43	(0.32)	24 5/8" (627)	20" (508)	9.46 (0.88)	3.15 (0.29)	3.15 (0.29)	6.85 (0.64)	60 1/2" (1537)		14.61 (1.36)
7626	4.45	(0.41)	24 5/8" (627)	26" (660)	12.74 (1.18)	4.25 (0.40)	4.25 (0.39)	8.91 (0.83)	54 1/2" (1384)		18.34 (1.70)
7630	5.48	(0.51)	24 5/8" (627)	32" (813)	16.03 (1.49)	5.35 (0.50)	5.34 (0.50)	10.96 (1.02)	48 1/2" (1232)		22.06 (2.05)
7636 Ø	6.51	(0.60)	24 5/8" (627)	38" (965)	19.32 (1.80)	6.45 (0.60)	6.44 (0.60)	13.02 (1.21)	42 1/2" (1080)		25.79 (2.40)
7640 Ø	7.54	(0.70)	24 5/8" (627)	44" (1118)	22.61 (2.10)	7.54 (0.70)	7.53 (0.70)	15.08 (1.40)	36 1/2" (927)		29.52 (2.74)
7646 Ø	8.57	(0.80)	24 5/8" (627)	50" (1270)	25.90 (2.41)	8.64 (0.80)	8.63 (0.80)	17.13 (1.59)	30 1/2" (775)		33.25 (3.09)
7650 Ø	9.59	(0.89)	24 5/8" (627)	56" (1422)	29.19 (2.71)	9.74 (0.90)	9.72 (0.90)	19.19 (1.78)	24 1/2" (622)		36.98 (3.44)
7656 Ø	10.62	(0.99)	24 5/8" (627)	62" (1575)	32.48 (3.02)	10.84 (1.01)	10.82 (1.01)	21.24 (1.97)	18 1/2" (470)		40.71 (3.78)
7660 Ø	11.65	(1.08)	24 5/8" (627)	68" (1727)	35.77 (3.32)	11.93 (1.11)	11.92 (1.11)	23.30 (2.16)	12 1/2" (318)		44.44 (4.13)
8016	2.59	(0.24)	26 5/8" (677)	14" (356)	6.64 (0.62)	2.21 (0.21)	2.21 (0.21)	5.19 (0.48)	66 1/2" (1689)		11.61 (1.08)
8020	3.70	(0.34)	26 5/8" (677)	20" (508)	10.17 (0.95)	3.39 (0.32)	3.39 (0.31)	7.41 (0.69)	60 1/2" (1537)		15.59 (1.45)
8026	4.82	(0.45)	26 5/8" (677)	26" (660)	13.71 (1.27)	4.58 (0.43)	4.57 (0.42)	9.63 (0.89)	54 1/2" (1384)		19.56 (1.82)
8030 Ø	5.93	(0.55)	26 5/8" (677)	32" (813)	17.25 (1.60)	5.76 (0.53)	5.75 (0.53)	11.85 (1.10)	48 1/2" (1232)		23.54 (2.19)
8036 Ø	7.04	(0.65)	26 5/8" (677)	38" (965)	20.79 (1.93)	6.94 (0.64)	6.93 (0.64)	14.08 (1.31)	42 1/2" (1080)		27.52 (2.56)
8040 Ø	8.15	(0.76)	26 5/8" (677)	44" (1118)	24.33 (2.26)	8.12 (0.75)	8.11 (0.75)	16.30 (1.51)	36 1/2" (927)		31.50 (2.93)
8046 Ø	9.26	(0.86)	26 5/8" (677)	50" (1270)	27.87 (2.59)	9.30 (0.86)	9.28 (0.86)	18.52 (1.72)	30 1/2" (775)		35.48 (3.30)
8050 Ø	10.37	(0.96)	26 5/8" (677)	56" (1422)	31.41 (2.92)	10.48 (0.97)	10.46 (0.97)	20.74 (1.93)	24 1/2" (622)		39.46 (3.67)
8056 Ø	11.48	(1.07)	26 5/8" (677)	62" (1575)	34.95 (3.25)	11.66 (1.08)	11.64 (1.08)	22.97 (2.13)	18 1/2" (470)		43.44 (4.04)
8060 Ø	12.59	(1.17)	26 5/8" (677)	68" (1727)	38.48 (3.58)	12.84 (1.19)	12.82 (1.19)	25.19 (2.34)	12 1/2" (318)		47.42 (4.41)
8616	2.79	(0.26)	28 5/8" (728)	14" (356)	7.10 (0.66)	2.37 (0.22)	2.37 (0.22)	5.57 (0.52)	66 1/2" (1689)		12.34 (1.15)
8620	3.98	(0.37)	28 5/8" (728)	20" (508)	10.89 (1.01)	3.63 (0.34)	3.63 (0.34)	7.96 (0.74)	60 1/2" (1537)		16.56 (1.54)
8626	5.18	(0.48)	28 5/8" (728)	26" (660)	14.68 (1.36)	4.90 (0.46)	4.89 (0.45)	10.35 (0.96)	54 1/2" (1384)		20.79 (1.93)
8630 Ø	6.37	(0.59)	28 5/8" (728)	32" (813)	18.47 (1.72)	6.16 (0.57)	6.15 (0.57)	12.74 (1.18)	48 1/2" (1232)		25.02 (2.32)
8636 Ø	7.57	(0.70)	28 5/8" (728)	38" (965)	22.26 (2.07)	7.43 (0.69)	7.42 (0.69)	15.13 (1.41)	42 1/2" (1080)		29.25 (2.72)
8640 Ø	8.76	(0.81)	28 5/8" (728)	44" (1118)	26.05 (2.42)	8.69 (0.81)	8.68 (0.81)	17.52 (1.63)	36 1/2" (927)		33.48 (3.11)
8646 Ø	9.95	(0.92)	28 5/8" (728)	50" (1270)	29.84 (2.77)	9.95 (0.92)	9.94 (0.92)	19.91 (1.85)	30 1/2" (775)		37.71 (3.50)
8650 Ø	11.15	(1.04)	28 5/8" (728)	56" (1422)	33.63 (3.12)	11.22 (1.04)	11.20 (1.04)	22.30 (2.07)	24 1/2" (622)		41.94 (3.90)
8656 Ø	12.34	(1.15)	28 5/8" (728)	62" (1575)	37.41 (3.48)	12.48 (1.16)	12.47 (1.16)	24.69 (2.29)	18 1/2" (470)		46.17 (4.29)
8660 Ø	13.54	(1.26)	28 5/8" (728)	68" (1727)	41.20 (3.83)	13.75 (1.28)	13.73 (1.28)	27.08 (2.52)	12 1/2" (318)		50.40 (4.68)

• "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.
ØMeet or exceed clear opening area of 5.7 sq. ft. or .53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Grille Patterns

	Prairie A	Colonial	Modified Colonial	Tall Fractional	Short Fractional
Gliding					

Number of lights and overall pattern varies with window size. Patterns shown may not be available for all sizes. Specified equal light pattern is also available. For more information on divided light, see page 11 or visit andersenwindows.com/grilles.

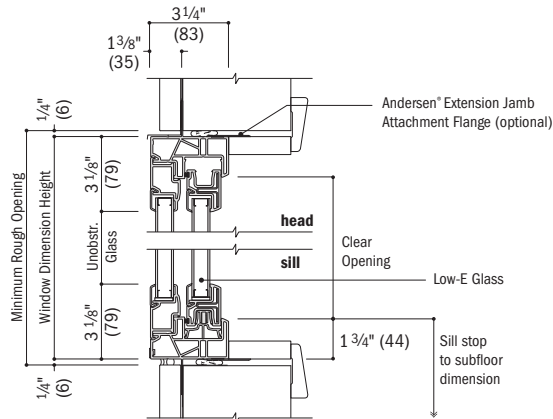


Specified Equal Light Examples

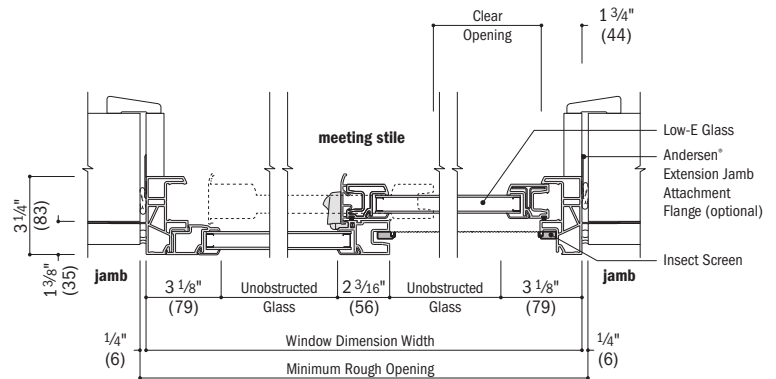
Gliding Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

1 3/8" flange setback

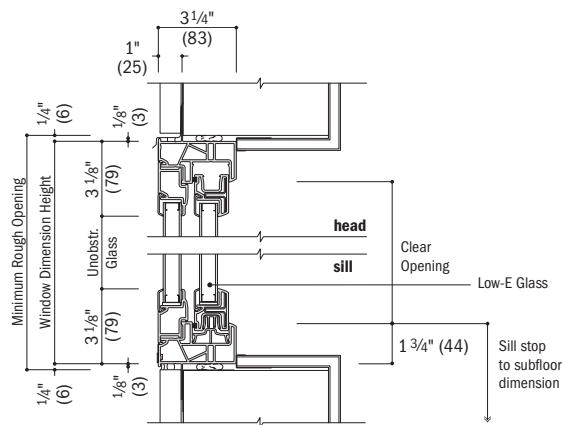


Vertical Section

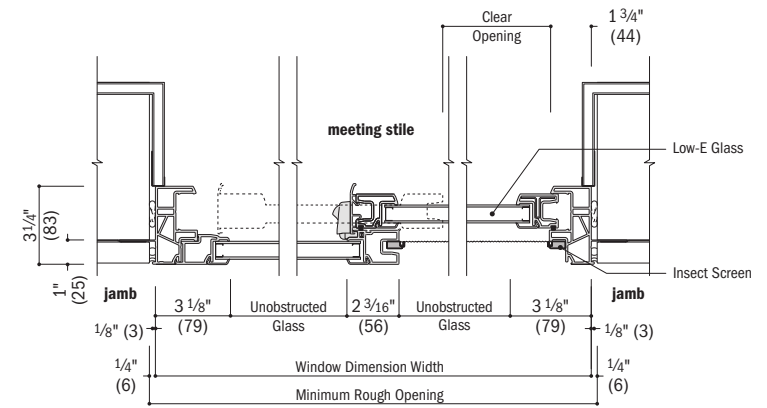


Horizontal Section

1" flange setback with stucco key

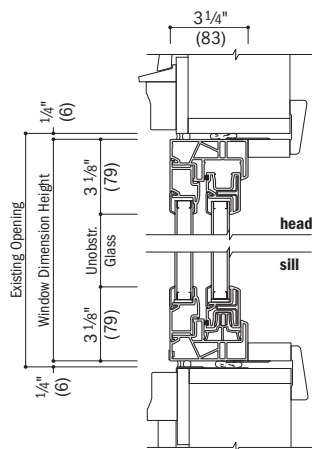


Vertical Section
stucco exterior

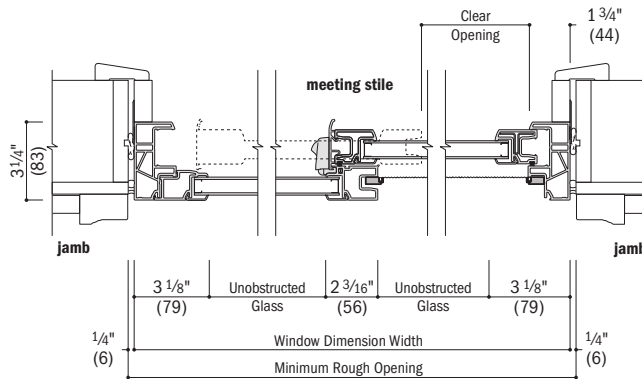


Horizontal Section
stucco exterior

no flange

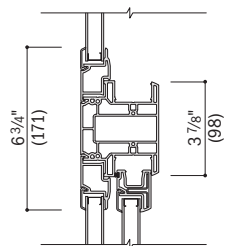


Vertical Section
existing opening or insert



Horizontal Section
existing opening or insert

integral



Horizontal Section
Picture over Gliding

100 Series
Gliding Windows

See pages 76-77 for horizontal and vertical joining details.

- Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **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 98.**
- 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.

PICTURE, TRANSOM & SPECIALTY WINDOWS

Table of Picture and Single Transom Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	11 1/2"	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"
Minimum Rough Opening	1'-0" (305)	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	5'-6" (1676)
Unobstructed Glass	5 1/4" (133)	11 1/4" (286)	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)	47 1/4" (1200)	53 1/4" (1353)	59 1/4" (1505)

CUSTOM WIDTHS – 11 1/2" to 7'-11 1/2"										
CUSTOM HEIGHTS – 11 1/2" to 7'-11 1/2"										
	1010	1610	2010	2610	3010	3610	4010	4610	5010	5610
11 1/2"										
1'-5 1/2"										
1'-11 1/2"										
2'-5 1/2"										
2'-11 1/2"										
3'-5 1/2"										
3'-11 1/2"										
4'-5 1/2"										
4'-11 1/2"										
5'-5 1/2"										
5'-11 1/2"										
6'-5 1/2"										

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Notes on this page also apply to the previous page. Picture and Single Transom sizes on pages 60-63.

5'-11 1/2" (1816)	6'-5 1/2" (1969)	6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)
6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)
65 1/4" (1657)	71 1/4" (1810)	77 1/4" (1962)	83 1/4" (2115)	89 1/4" (2267)



6010	6610	7010	7610	8010
6016	6616	7016	7616	8016
6020	6620	7020	7620	8020
6026	6626	7026	7626	8026
6030	6630	7030	7630	8030
6036	6636	7036	7636	8036
6040	6640	7040	7640	8040
6046	6646	7046	7646	8046
6050	6650	7050	7650	8050
6056	6656	7056	7656	8056
6060	6660	7060	7660	8060
6066				

continued on next page

Custom-size windows are available in 1/8" (3) increments. See page 80 for custom sizes and specifications.

Details shown on page 75.

Grille patterns shown on page 71.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

PICTURE, TRANSOM & SPECIALTY WINDOWS

Table of Picture and Single Transom Window Sizes (continued)

Notes on the next page also apply to this page. Picture and Single Transom sizes on pages 60-63.

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	11 1/2"	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"
	(292)	(445)	(597)	(749)	(902)	(1054)	(1207)	(1359)	(1511)	(1664)
Minimum Rough Opening	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"
	(305)	(457)	(610)	(762)	(914)	(1067)	(1219)	(1372)	(1524)	(1676)
Unobstructed Glass	5 1/4"	11 1/4"	17 1/4"	23 1/4"	29 1/4"	35 1/4"	41 1/4"	47 1/4"	53 1/4"	59 1/4"
	(133)	(286)	(438)	(591)	(743)	(895)	(1048)	(1200)	(1353)	(1505)

CUSTOM WIDTHS – 11 1/2" to 7'-11 1/2"

CUSTOM HEIGHTS – 11 1/2" to 7'-11 1/2"	11 1/2"	1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"
6'-11 1/2"	1070	1670	2070	2670	3070	3670	4070	4670	5070	5670
7'-5 1/2"	1076	1676	2076	2676	3076	3676	4076	4676	5076	5676
7'-11 1/2"	1080	1680	2080	2680	3080	3680	4080	4680	5080	5680

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Picture and Single Transom Window Area Specifications

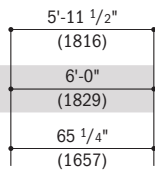
Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
1010	0.19 (0.02)	0.92 (0.09)
1016	0.41 (0.04)	1.40 (0.13)
1020	0.63 (0.06)	1.88 (0.17)
1026	0.85 (0.08)	2.36 (0.22)
1030	1.07 (0.10)	2.84 (0.26)
1036	1.29 (0.12)	3.31 (0.31)
1040	1.50 (0.14)	3.79 (0.35)
1046	1.72 (0.16)	4.27 (0.40)
1050	1.94 (0.18)	4.75 (0.44)
1056	2.16 (0.20)	5.23 (0.49)
1060	2.38 (0.22)	5.71 (0.53)
1066	2.60 (0.24)	6.19 (0.57)
1070	2.82 (0.26)	6.67 (0.62)
1076	3.04 (0.28)	7.15 (0.66)
1080	3.25 (0.30)	7.63 (0.71)
1610	0.41 (0.04)	1.40 (0.13)
1616	0.88 (0.08)	2.13 (0.20)
1620	1.35 (0.13)	2.86 (0.27)
1626	1.82 (0.17)	3.59 (0.33)
1630	2.29 (0.21)	4.31 (0.40)
1636	2.75 (0.26)	5.04 (0.47)
1640	3.22 (0.30)	5.77 (0.54)
1646	3.69 (0.34)	6.50 (0.60)

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
1650	4.16 (0.39)	7.23 (0.67)
1656	4.63 (0.43)	7.96 (0.74)
1660	5.10 (0.47)	8.69 (0.81)
1666	5.57 (0.52)	9.42 (0.87)
1670	6.04 (0.56)	10.15 (0.94)
1676	6.50 (0.60)	10.88 (1.01)
1680	6.97 (0.65)	11.61 (1.08)
2010	0.63 (0.06)	1.88 (0.17)
2016	1.35 (0.13)	2.86 (0.27)
2020	2.07 (0.19)	3.84 (0.36)
2026	2.79 (0.26)	4.81 (0.45)
2030	3.50 (0.33)	5.79 (0.54)
2036	4.22 (0.39)	6.77 (0.63)
2040	4.94 (0.46)	7.75 (0.72)
2046	5.66 (0.53)	8.73 (0.81)
2050	6.38 (0.59)	9.71 (0.90)
2056	7.10 (0.66)	10.69 (0.99)
2060	7.82 (0.73)	11.67 (1.08)
2066	8.54 (0.79)	12.65 (1.17)
2070	9.25 (0.86)	13.63 (1.27)
2076	9.97 (0.93)	14.61 (1.36)
2080	10.69 (0.99)	15.59 (1.45)
2610	0.85 (0.08)	2.36 (0.22)

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
2616	1.82 (0.17)	3.59 (0.33)
2620	2.79 (0.26)	4.81 (0.45)
2626	3.75 (0.35)	6.04 (0.56)
2630	4.72 (0.44)	7.27 (0.68)
2636	5.69 (0.53)	8.50 (0.79)
2640	6.66 (0.62)	9.73 (0.90)
2646	7.63 (0.71)	10.96 (1.02)
2650	8.60 (0.80)	12.19 (1.13)
2656	9.57 (0.89)	13.42 (1.25)
2660	10.54 (0.98)	14.65 (1.36)
2666	11.50 (1.07)	15.88 (1.47)
2670	12.47 (1.16)	17.11 (1.59)
2676	13.44 (1.25)	18.34 (1.70)
2680	14.41 (1.34)	19.56 (1.82)
3010	1.07 (0.10)	2.84 (0.26)
3016	2.29 (0.21)	4.31 (0.40)
3020	3.50 (0.33)	5.79 (0.54)
3026	4.72 (0.44)	7.27 (0.68)
3030	5.94 (0.55)	8.75 (0.81)
3036	7.16 (0.67)	10.23 (0.95)
3040	8.38 (0.78)	11.71 (1.09)

- Dimensions in parentheses are in square meters.

continued on next page



6070



6076



6080

Custom-size windows are available in 1/8" (3) increments. See page 80 for custom sizes and specifications.

Details shown on page 75.

Grille patterns shown on page 71.

- "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 page 98 for more details.**
- Dimensions in parentheses are in millimeters.

Picture and Single Transom Window Area Specifications *(continued)*

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
3046	9.60 (0.89)	13.19 (1.23)
3050	10.82 (1.00)	14.67 (1.36)
3056	12.04 (1.12)	16.15 (1.50)
3060	13.25 (1.23)	17.63 (1.64)
3066	14.47 (1.34)	19.11 (1.77)
3070	15.69 (1.46)	20.59 (1.91)
3076	16.91 (1.57)	22.06 (2.05)
3080	18.13 (1.68)	23.54 (2.19)
3610	1.29 (0.12)	3.31 (0.31)
3616	2.75 (0.26)	5.04 (0.47)
3620	4.22 (0.39)	6.77 (0.63)
3626	5.69 (0.53)	8.50 (0.79)
3630	7.16 (0.67)	10.23 (0.95)
3636	8.63 (0.80)	11.96 (1.11)
3640	10.10 (0.94)	13.69 (1.27)
3646	11.57 (1.07)	15.42 (1.43)
3650	13.04 (1.21)	17.15 (1.59)
3656	14.50 (1.35)	18.88 (1.75)
3660	15.97 (1.48)	20.61 (1.91)
3666	17.44 (1.62)	22.34 (2.07)
3670	18.91 (1.76)	24.06 (2.24)
3676	20.38 (1.89)	25.79 (2.40)
3680	21.85 (2.03)	27.52 (2.56)

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
4010	1.50 (0.14)	3.79 (0.35)
4016	3.22 (0.30)	5.77 (0.54)
4020	4.94 (0.46)	7.75 (0.72)
4026	6.66 (0.62)	9.73 (0.90)
4030	8.38 (0.78)	11.71 (1.09)
4036	10.10 (0.94)	13.69 (1.27)
4040	11.82 (1.10)	15.67 (1.46)
4046	13.54 (1.26)	17.65 (1.64)
4050	15.25 (1.42)	19.63 (1.82)
4056	16.97 (1.58)	21.61 (2.01)
4060	18.69 (1.74)	23.59 (2.19)
4066	20.41 (1.90)	25.56 (2.37)
4070	22.13 (2.06)	27.54 (2.56)
4076	23.85 (2.22)	29.52 (2.74)
4080	25.57 (2.38)	31.50 (2.93)
4610	1.72 (0.16)	4.27 (0.40)
4616	3.69 (0.34)	6.50 (0.60)
4620	5.66 (0.53)	8.73 (0.81)
4626	7.63 (0.71)	10.96 (1.02)
4630	9.60 (0.89)	13.19 (1.23)
4636	11.57 (1.07)	15.42 (1.43)
4640	13.54 (1.26)	17.65 (1.64)
4646	15.50 (1.44)	19.88 (1.85)
4650	17.47 (1.62)	22.11 (2.05)
4656	19.44 (1.81)	24.34 (2.26)
4660	21.41 (1.99)	26.56 (2.47)
4666	23.38 (2.17)	28.79 (2.67)
4670	25.35 (2.35)	31.02 (2.88)
4676	27.32 (2.54)	33.25 (3.09)
4680	29.29 (2.72)	35.48 (3.30)
5010	1.94 (0.18)	4.75 (0.44)
5016	4.16 (0.39)	7.23 (0.67)
5020	6.38 (0.59)	9.71 (0.90)
5026	8.60 (0.80)	12.19 (1.13)
5030	10.82 (1.00)	14.67 (1.36)
5036	13.04 (1.21)	17.15 (1.59)
5040	15.25 (1.42)	19.63 (1.82)
5046	17.47 (1.62)	22.11 (2.05)
5050	19.69 (1.83)	24.59 (2.28)
5056	21.91 (2.04)	27.06 (2.51)
5060	24.13 (2.24)	29.54 (2.74)
5066	26.35 (2.45)	32.02 (2.97)
5070	28.57 (2.65)	34.50 (3.21)
5076	30.79 (2.86)	36.98 (3.44)
5080	33.00 (3.07)	39.46 (3.67)
5610	2.16 (0.20)	5.23 (0.49)
5616	4.63 (0.43)	7.96 (0.74)
5620	7.10 (0.66)	10.69 (0.99)
5626	9.57 (0.89)	13.42 (1.25)
5630	12.04 (1.12)	16.15 (1.50)
5636	14.50 (1.35)	18.88 (1.75)
5640	16.97 (1.58)	21.61 (2.01)
5646	19.44 (1.81)	24.34 (2.26)
5650	21.91 (2.04)	27.06 (2.51)
5656	24.38 (2.26)	29.79 (2.77)
5660	26.85 (2.49)	32.52 (3.02)
5666	29.32 (2.72)	35.25 (3.27)
5670	31.79 (2.95)	37.98 (3.53)
5676	34.25 (3.18)	40.71 (3.78)
5680	36.72 (3.41)	43.44 (4.04)

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
6010	2.38 (0.22)	5.71 (0.53)
6016	5.10 (0.47)	8.69 (0.81)
6020	7.82 (0.73)	11.67 (1.08)
6026	10.54 (0.98)	14.65 (1.36)
6030	13.25 (1.23)	17.63 (1.64)
6036	15.97 (1.48)	20.61 (1.91)
6040	18.69 (1.74)	23.59 (2.19)
6046	21.41 (1.99)	26.56 (2.47)
6050	24.13 (2.24)	29.54 (2.74)
6056	26.85 (2.49)	32.52 (3.02)
6060	29.57 (2.75)	35.50 (3.30)
6066	32.29 (3.00)	38.48 (3.57)
6070	35.00 (3.25)	41.46 (3.85)
6076	37.72 (3.50)	44.44 (4.13)
6080	40.44 (3.76)	47.42 (4.41)
6610	2.60 (0.24)	6.19 (0.57)
6616	5.57 (0.52)	9.42 (0.87)
6620	8.54 (0.79)	12.65 (1.17)
6626	11.50 (1.07)	15.88 (1.47)
6630	14.47 (1.34)	19.11 (1.77)
6636	17.44 (1.62)	22.34 (2.07)
6640	20.41 (1.90)	25.56 (2.37)
6646	23.38 (2.17)	28.79 (2.67)
6650	26.35 (2.45)	32.02 (2.97)
6656	29.32 (2.72)	35.25 (3.27)
6660	32.29 (3.00)	38.48 (3.57)
7010	2.82 (0.26)	6.67 (0.62)
7016	6.04 (0.56)	10.15 (0.94)
7020	9.25 (0.86)	13.63 (1.27)
7026	12.47 (1.16)	17.11 (1.59)
7030	15.69 (1.46)	20.59 (1.91)
7036	18.91 (1.76)	24.06 (2.24)
7040	22.13 (2.06)	27.54 (2.56)
7046	25.35 (2.35)	31.02 (2.88)
7050	28.57 (2.65)	34.50 (3.21)
7056	31.79 (2.95)	37.98 (3.53)
7060	35.00 (3.25)	41.46 (3.85)
7610	3.04 (0.28)	7.15 (0.66)
7616	6.50 (0.60)	10.88 (1.01)
7620	9.97 (0.93)	14.61 (1.36)
7626	13.44 (1.25)	18.34 (1.70)
7630	16.91 (1.57)	22.06 (2.05)
7636	20.38 (1.89)	25.79 (2.40)
7640	23.85 (2.22)	29.52 (2.74)
7646	27.32 (2.54)	33.25 (3.09)
7650	30.79 (2.86)	36.98 (3.44)
7656	34.25 (3.18)	40.71 (3.78)
7660	37.72 (3.50)	44.44 (4.13)
8010	3.25 (0.30)	7.63 (0.71)
8016	6.97 (0.65)	11.61 (1.08)
8020	10.69 (0.99)	15.59 (1.45)
8026	14.41 (1.34)	19.56 (1.82)
8030	18.13 (1.68)	23.54 (2.19)
8036	21.85 (2.03)	27.52 (2.56)
8040	25.57 (2.38)	31.50 (2.93)
8046	29.29 (2.72)	35.48 (3.30)
8050	33.00 (3.07)	39.46 (3.67)
8056	36.72 (3.41)	43.44 (4.04)
8060	40.44 (3.76)	47.42 (4.41)

• Dimensions in parentheses are in square meters.

PICTURE, TRANSOM & SPECIALTY WINDOWS

Table of Twin and Triple Transom Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	2'-11 1/2"	3'-5 1/2"	3'-11 1/2"	4'-5 1/2"	4'-11 1/2"	5'-5 1/2"	5'-11 1/2"	6'-11 1/2"
	(902)	(1054)	(1207)	(1359)	(1511)	(1664)	(1816)	(2121)
Minimum Rough Opening	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	7'-0"
	(914)	(1067)	(1219)	(1372)	(1524)	(1676)	(1829)	(2134)
Unobstructed Glass (width of twin single sash)	11 1/4"	14 1/4"	17 1/4"	20 1/4"	23 1/4"	26 1/4"	29 1/4"	35 1/4"
	(286)	(362)	(438)	(514)	(591)	(667)	(743)	(895)
Unobstructed Glass (width of triple single sash)				11 1/4"			17 1/4"	
				(286)			(438)	

CUSTOM WIDTHS TWIN – 2'-11 1/2" to 7'-11 1/2" TRIPLE – 4'-5 1/2" to 11'-11 1/2"								
11'-11 1/2" (292) 1'-0" (305) 5'-1/4" (133)								
	1610-2	1910-2	2010-2	2310-2	2610-2	2910-2	3010-2	3610-2
				1610-3			2010-3	
1'-5 1/2" (445) 1'-6" (457) 11'-1/4" (286)								
	1616-2	1916-2	2016-2	2316-2	2616-2	2916-2	3016-2	3616-2
				1616-3			2016-3	
1'-11 1/2" (597) 2'-0" (610) 17'-1/4" (438)								
	1620-2	1920-2	2020-2	2320-2	2620-2	2920-2	3020-2	3620-2
				1620-3			2020-3	

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Twin Transom Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
1610-2	0.82 (0.08)	2.84 (0.26)
1910-2	1.04 (0.10)	3.31 (0.31)
2010-2	1.26 (0.12)	3.79 (0.35)
2310-2	1.48 (0.14)	4.27 (0.40)
2610-2	1.70 (0.16)	4.75 (0.44)
2910-2	1.91 (0.18)	5.23 (0.49)
3010-2	2.13 (0.20)	5.71 (0.53)
3610-2	2.57 (0.24)	6.67 (0.62)
4010-2	3.01 (0.28)	7.63 (0.71)
1616-2	1.76 (0.16)	4.31 (0.40)
1916-2	2.23 (0.21)	5.04 (0.47)
2016-2	2.70 (0.25)	5.77 (0.54)
2316-2	3.16 (0.29)	6.50 (0.60)
2616-2	3.63 (0.34)	7.23 (0.67)
2916-2	4.10 (0.38)	7.96 (0.74)
3016-2	4.57 (0.42)	8.69 (0.81)
3616-2	5.51 (0.51)	10.15 (0.94)
4016-2	6.45 (0.60)	11.61 (1.08)
1620-2	2.70 (0.25)	5.79 (0.54)
1920-2	3.41 (0.32)	6.77 (0.63)
2020-2	4.13 (0.38)	7.75 (0.72)
2320-2	4.85 (0.45)	8.73 (0.81)
2620-2	5.57 (0.52)	9.71 (0.90)
2920-2	6.29 (0.58)	10.69 (0.99)
3020-2	7.01 (0.65)	11.67 (1.08)
3620-2	8.45 (0.78)	13.63 (1.27)
4020-2	9.88 (0.92)	15.59 (1.45)

Triple Transom Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
1610-3	1.23 (0.11)	4.27 (0.40)
2010-3	1.89 (0.18)	5.71 (0.53)
2610-3	2.54 (0.24)	7.15 (0.66)
3010-3	3.20 (0.30)	8.59 (0.80)
3610-3	3.86 (0.36)	10.02 (0.93)
4010-3	4.51 (0.42)	11.46 (1.06)
1616-3	2.64 (0.24)	6.50 (0.60)
2016-3	4.04 (0.38)	8.69 (0.81)
2616-3	5.45 (0.51)	10.88 (1.01)
3016-3	6.86 (0.64)	13.06 (1.21)
3616-3	8.26 (0.77)	15.25 (1.42)
4016-3	9.67 (0.90)	17.44 (1.62)
1620-3	4.04 (0.38)	8.73 (0.81)
2020-3	6.20 (0.58)	11.67 (1.08)
2620-3	8.36 (0.78)	14.61 (1.36)
3020-3	10.51 (0.98)	17.54 (1.63)
3620-3	12.67 (1.18)	20.48 (1.90)
4020-3	14.82 (1.38)	23.42 (2.18)

Half Circle Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
20	0.80 (0.07)	2.02 (0.19)
26	1.46 (0.14)	3.01 (0.28)
30	2.32 (0.22)	4.21 (0.39)
36	3.37 (0.31)	5.60 (0.52)
40	4.62 (0.43)	7.18 (0.67)
46	6.06 (0.56)	8.97 (0.83)
50	7.70 (0.72)	10.95 (1.02)
56	9.54 (0.89)	13.12 (1.22)
60	11.58 (1.08)	15.49 (1.44)
66	13.81 (1.28)	18.06 (1.68)
70	16.23 (1.51)	20.83 (1.93)
76	18.85 (1.75)	23.79 (2.21)
80	21.67 (2.01)	26.94 (2.50)

Circle Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
2020	1.61 (0.15)	3.01 (0.28)
2626	2.93 (0.27)	4.75 (0.44)
3030	4.65 (0.43)	6.87 (0.64)
3636	6.75 (0.63)	9.39 (0.87)
4040	9.25 (0.86)	12.31 (1.14)

- Dimensions in parentheses are in square meters.

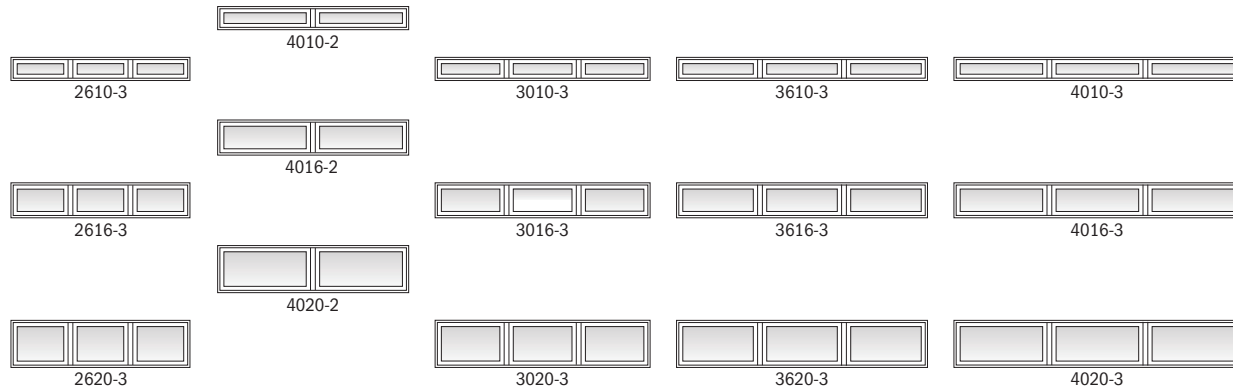
Notes on this page also apply to the previous page.

7'-5 1/2" (2273)	7'-11 1/2" (2426)	8'-11 1/2" (2731)	10'-5 1/2" (3188)	11'-11 1/2" (3645)
7'-6" (2286)	8'-0" (2438)	9'-0" (2743)	10'-6" (3200)	12'-0" (3658)
	41 1/4" (1048)			
23 1/4" (591)		29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)



Custom-size windows are available in 1/8" (3) increments. See page 80 for custom sizes and specifications.

Windows have one continuous outer frame.



- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Quarter Circle Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
1616	0.69 (0.06)	1.82 (0.17)
2020	1.62 (0.15)	3.22 (0.30)
2626	2.95 (0.27)	5.01 (0.47)
3030	4.67 (0.43)	7.19 (0.67)
3636	6.78 (0.63)	9.77 (0.91)
4040	9.28 (0.86)	12.73 (1.18)
4646	12.18 (1.13)	16.09 (1.50)
5050	15.47 (1.44)	19.85 (1.84)

Springline™ Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
2020	3.23 (0.30)	5.34 (0.50)
2026	3.95 (0.37)	6.32 (0.59)
2030	4.67 (0.43)	7.30 (0.68)
2036	5.38 (0.50)	8.28 (0.77)
2040	6.10 (0.57)	9.26 (0.86)
2046	6.81 (0.63)	10.24 (0.95)
2050	7.53 (0.70)	11.22 (1.04)
2620	4.74 (0.44)	7.19 (0.67)
2626	5.71 (0.53)	8.42 (0.78)
2630	6.67 (0.62)	9.65 (0.90)
2636	7.64 (0.71)	10.87 (1.01)
2640	8.61 (0.80)	12.10 (1.12)
2646	9.57 (0.89)	13.33 (1.24)

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
2650	10.54 (0.98)	14.56 (1.35)
3020	6.45 (0.60)	9.23 (0.86)
3026	7.66 (0.71)	10.71 (0.99)
3030	8.88 (0.82)	12.19 (1.13)
3036	10.10 (0.94)	13.67 (1.27)
3040	11.31 (1.05)	15.15 (1.41)
3046	12.53 (1.16)	16.63 (1.54)
3050	13.74 (1.28)	18.11 (1.68)
3620	8.35 (0.78)	11.47 (1.07)
3626	9.81 (0.91)	13.20 (1.23)
3630	11.28 (1.05)	14.93 (1.39)
3636	12.75 (1.18)	16.66 (1.55)
3640	14.21 (1.32)	18.39 (1.71)
3646	15.68 (1.46)	20.12 (1.87)
3650	17.14 (1.59)	21.84 (2.03)
4020	10.45 (0.97)	13.90 (1.29)
4026	12.16 (1.13)	15.88 (1.48)
4030	13.88 (1.29)	17.86 (1.66)
4036	15.59 (1.45)	19.84 (1.84)
4040	17.31 (1.61)	21.82 (2.03)
4046	19.03 (1.77)	23.80 (2.21)
4050	20.74 (1.93)	25.78 (2.40)
4620	12.74 (1.18)	16.54 (1.54)
4626	14.71 (1.37)	18.77 (1.74)
4630	16.67 (1.55)	20.99 (1.95)
4636	18.64 (1.73)	23.22 (2.16)
4640	20.60 (1.91)	25.45 (2.36)

Window Number	Glass Area Sq. Ft./ (m ²)	Overall Window Area Sq. Ft./ (m ²)
4646	22.57 (2.10)	27.68 (2.57)
4650	24.54 (2.28)	29.91 (2.78)
5020	15.23 (1.41)	19.36 (1.80)
5026	17.45 (1.62)	21.84 (2.03)
5030	19.66 (1.83)	24.32 (2.26)
5036	21.88 (2.03)	26.80 (2.49)
5040	24.09 (2.24)	29.28 (2.72)
5046	26.31 (2.44)	31.76 (2.95)
5050	28.53 (2.65)	34.24 (3.18)
5620	17.92 (1.66)	22.39 (2.08)
5626	20.38 (1.89)	25.12 (2.33)
5630	22.85 (2.12)	27.85 (2.59)
5636	25.31 (2.35)	30.58 (2.84)
5640	27.78 (2.58)	33.31 (3.09)
5646	30.25 (2.81)	36.03 (3.35)
5650	32.71 (3.04)	38.76 (3.60)
6020	20.80 (1.93)	25.61 (2.38)
6026	23.51 (2.18)	28.59 (2.66)
6030	26.23 (2.44)	31.57 (2.93)
6036	28.95 (2.69)	34.55 (3.21)
6040	31.66 (2.94)	37.53 (3.49)
6046	34.38 (3.19)	40.51 (3.76)
6050	37.10 (3.45)	43.48 (4.04)

- Dimensions in parentheses are in square meters.

For arch window specifications, see page 74.

PICTURE, TRANSOM & SPECIALTY WINDOWS

Table of Half Circle Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)
Minimum Rough Opening	2'-0" (610)	2'-6" (762)	3'-0" (914)
Unobstructed Glass	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)
Radius	11 3/4" (298)	14 3/4" (375)	17 3/4" (451)
1'-2 7/8" (378)	1'-3 3/8" (391)	1'-5 7/8" (454)	1'-8 7/8" (530)
8 5/8" (219)	11 5/8" (295)	14 5/8" (371)	17 3/4" (451)
20	26	30	
3'-5 1/2" (1054)	3'-11 1/2" (1207)	4'-5 1/2" (1359)	
3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	
35 1/4" (895)	41 1/4" (1048)	47 1/4" (1200)	
20 3/4" (527)	23 3/4" (603)	26 3/4" (679)	
1'-11 7/8" (606)	2'-2 7/8" (683)	2'-5 7/8" (759)	2'-8 7/8" (835)
2'-0 3/8" (619)	2'-3 3/8" (695)	2'-6 3/8" (772)	2'-9 3/8" (848)
17 5/8" (448)	20 5/8" (524)	23 5/8" (600)	26 5/8" (676)
36	40	46	
4'-11 1/2" (1511)	5'-5 1/2" (1664)	5'-11 1/2" (1816)	6'-5 1/2" (1969)
5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)
53 1/4" (1353)	59 1/4" (1505)	65 1/4" (1657)	71 1/4" (1810)
29 3/4" (756)	32 3/4" (832)	35 3/4" (908)	38 3/4" (984)
2'-8 7/8" (835)	2'-11 7/8" (911)	3'-2 7/8" (987)	3'-5 7/8" (1064)
2'-9 3/8" (848)	3'-0 3/8" (924)	3'-3 3/8" (1000)	3'-6 3/8" (1076)
26 5/8" (676)	29 5/8" (752)	32 5/8" (829)	35 5/8" (905)
50	56	60	66
6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)	
7'-0" (2134)	7'-6" (2286)	8'-0" (2438)	
77 1/4" (1962)	83 1/4" (2115)	89 1/4" (2267)	
41 3/4" (1060)	44 3/4" (1137)	47 3/4" (1213)	
3'-8 7/8" (1140)	3'-11 7/8" (1216)	4'-2 7/8" (1292)	4'-5 7/8" (1133)
3'-9 3/8" (1153)	4'-0 3/8" (1229)	4'-3 3/8" (1305)	4'-6 3/8" (1381)
38 5/8" (981)	41 5/8" (1057)	44 5/8" (1133)	47 5/8" (1209)
70	76	80	



Custom-size half circle windows are available in 1/8" (3) increments. Contact your Andersen supplier for more information.

Details shown on page 75.

Grille patterns shown on page 71.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Table of Circle Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
Minimum Rough Opening	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
Unobstructed Glass	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)
					
	2020	2626	3030	3636	4040



Custom-size circle and quarter circle windows are available in 1/8" (3) increments. Contact your Andersen supplier for more information.

Details shown on page 75.

Grille patterns shown on page 71.

Table of Quarter Circle Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)
Minimum Rough Opening	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)
Unobstructed Glass	5 1/4" (133)	17 1/2" (438)	23 1/4" (591)	29 1/4" (743)
Radius	14 3/8" (365)	20 3/8" (518)	26 3/8" (670)	32 3/8" (822)
				
	1616	2020	2626	3030
Window Dimension	3'-5 1/2" (1054)	3'-11 1/2" (1207)	4'-5 1/2" (1359)	4'-11 1/2" (1511)
Minimum Rough Opening	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)
Unobstructed Glass	35 1/4" (895)	41 1/4" (1048)	47 1/4" (1200)	53 1/4" (1353)
Radius	38 3/8" (975)	44 3/8" (1127)	50 3/8" (1280)	56 3/8" (1432)
				
	3636	4040	4646	5050

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

PICTURE, TRANSOM & SPECIALTY WINDOWS



These custom shapes are available in 1/8" (3) increments.

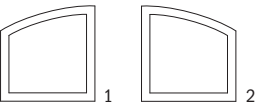
Design Criteria

Listed for each custom shape are factors that must be considered when deciding on a custom-shaped specialty window.

Details shown on page 75.

Grilles are available for most shapes and sizes in colonial and specified equal divided light patterns. For more information on divided light, see page 11 or contact your Andersen supplier.

Custom Unequal Leg Arch



Choose left facing (1) or right facing (2) as viewed from the exterior. Contains unequal legs, two right angles at the sill and an arch at the top.

Custom-size design limitations:

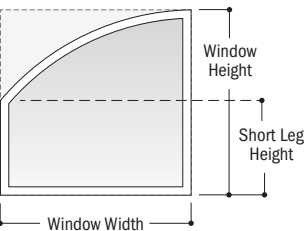
Min/Max Window Width
17 1/2" (445) to 95 1/2" (2426)

Min/Max Window Height
11 3/8" (289) to 95 1/2" (2426)

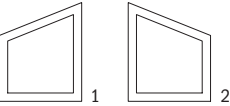
Min/Max Short Leg Height
9 3/4" (248) to 93 7/8" (2384)

Max Frame Area: 40 sq. ft. or 3.7 m²
Based on the smallest square or rectangular shape that covers the entire window.

Additional limitations may apply. Contact your Andersen supplier for more information.



Custom Trapezoid



Choose left facing (1) or right facing (2) as viewed from the exterior. Contains a slope to the left or right. Slope is often designed to match a roof's pitch.

Custom-size design limitations:

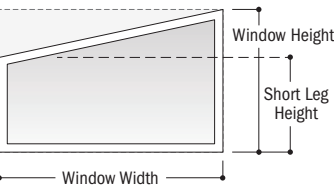
Min/Max Window Width
17 1/2" (445) to 107 1/2" (2731)

Min/Max Window Height
9 7/8" (251) to 95 1/2" (2426)

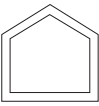
Min/Max Short Leg Height
9 3/4" (248) to 95 3/8" (2423)

Max Frame Area: 40 sq. ft. or 3.7 m²
Based on the smallest square or rectangular shape that covers the entire window.

Additional limitations may apply. Contact your Andersen supplier for more information.



Custom Peak Pentagon



Contains sides of equal length, extending at right angles from the sill, and two angled sides, of equal length, that peak above center of sill.

Custom-size design limitations:

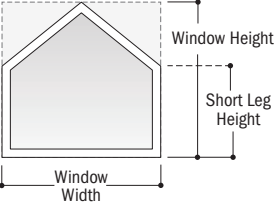
Min/Max Window Width
17 1/2" (445) to 107 1/2" (2731)

Min/Max Window Height
14 1/8" (359) to 107 1/2" (2731)

Min/Max Short Leg Height
9 3/4" (248) to 94 1/8" (2391)

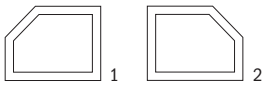
Max Frame Area: 40 sq. ft. or 3.7 m²
Based on the smallest square or rectangular shape that covers the entire window.

Additional limitations may apply. Contact your Andersen supplier for more information.



• Dimensions in parentheses are in millimeters.

Custom Angled Pentagon



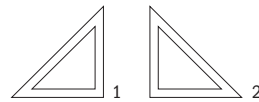
Choose left facing (1) or right facing (2) as viewed from the exterior. Contains an angle cut, or a "clipped corner" sloping to the left or right.

Custom Octagon



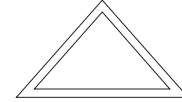
Contains eight equal angles and sides.

Custom Right Triangle



Choose left facing (1) or right facing (2) as viewed from the exterior. Contains one 90 degree angle.

Custom Isosceles Triangle



Contains two sides of equal length and equal angles.

Custom-size design limitations:

Min/Max Window Width

17 1/2" (445) to 107 1/2" (2731)

Min/Max Head Width

9 3/4" (248) to 107 3/8" (2727)

Min/Max Window Height

14 3/8" (365) to 107 1/2" (2731)

Min/Max Short Leg Height

9 3/4" (248) to 94 1/8" (226)

Max Frame Area: 40 sq. ft. or 3.7 m²

Based on the smallest square or rectangular shape that covers the entire window.

Additional limitations may apply. Contact your Andersen supplier for more information.

Custom-size design limitations:

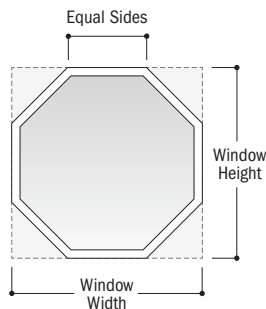
Min/Max Window Width

23 1/2" (597) to 71 1/2" (1816)

Min/Max Window Height

23 1/2" (597) to 71 1/2" (1816)

Additional limitations may apply. Contact your Andersen supplier for more information.



Custom-size design limitations:

Min/Max Window Width

17 1/2" (445) to 95 1/2" (2426)

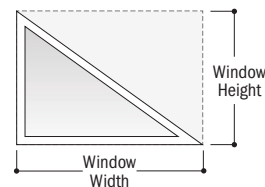
Min/Max Window Height

17 1/2" (445) to 95 1/2" (2426)

Max Frame Area: 40 sq. ft. or 3.7 m²

Based on the smallest square or rectangular shape that covers the entire window.

Additional limitations may apply. Contact your Andersen supplier for more information.



Custom-size design limitations:

Min/Max Window Width

17 1/2" (445) to 107 1/2" (2731)

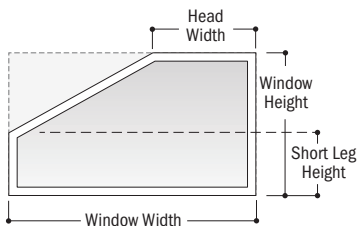
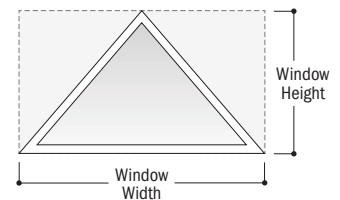
Min/Max Window Height

17 1/2" (445) to 75 7/8" (1927)

Max Frame Area: 40 sq. ft. or 3.7 m²

Based on the smallest square or rectangular shape that covers the entire window.

Additional limitations may apply. Contact your Andersen supplier for more information.



PICTURE, TRANSOM & SPECIALTY WINDOWS

Table of Springline™ Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Notes on the next page also apply to this page.

Window Width Dimension	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)	4'-5 1/2" (1359)	4'-11 1/2" (1511)
Minimum Rough Opening	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)
Unobstructed Glass	17 1/4" (438)	23 1/4" (591)	29 1/4" (743)	35 1/4" (895)	41 1/4" (1048)	47 1/4" (1200)	53 1/4" (1353)
Window height shown in table	CUSTOM SIZES AVAILABLE						
Radius	11 3/4" (298)	14 3/4" (375)	17 3/4" (451)	20 3/4" (527)	23 3/4" (603)	26 3/4" (679)	29 3/4" (756)
Chord Height	11 3/4" (298)	14 3/4" (375)	17 3/4" (451)	20 3/4" (527)	23 3/4" (603)	26 3/4" (679)	29 3/4" (756)
Shoulder Height	1'-11 1/2" (597)	2'-11 1/4" (895)	3'-2 1/4" (972)	3'-5 1/4" (1048)	3'-8 1/4" (1124)	3'-11 1/4" (1200)	4'-2 1/4" (1276)
	2020	2620	3020	3620	4020	4620	5020
	2'-5 1/2" (749)	3'-5 1/4" (1048)	3'-8 1/4" (1124)	4'-2 1/4" (1276)	4'-5 1/4" (1353)	4'-8 1/4" (1429)	4'-11 1/4" (1505)
	2026	2626	3026	3626	4026	4626	5026
	2'-11 1/2" (902)	3'-11 1/4" (1200)	4'-2 1/4" (1276)	4'-5 1/4" (1353)	4'-8 1/4" (1429)	5'-2 1/4" (1581)	5'-5 1/4" (1657)
	2030	2630	3030	3630	4030	4630	5030
	3'-5 1/2" (1054)	4'-5 1/4" (1353)	4'-8 1/4" (1429)	5'-2 1/4" (1581)	5'-5 1/4" (1657)	5'-8 1/4" (1734)	5'-11 1/4" (1810)
	2036	2636	3036	3636	4036	4636	5036
	3'-11 1/2" (1207)	4'-11 1/4" (1505)	5'-2 1/4" (1581)	5'-5 1/4" (1657)	5'-8 1/4" (1734)	6'-2 1/4" (1886)	6'-5 1/4" (1962)
	2040	2640	3040	3640	4040	4640	5040
	4'-5 1/2" (1359)	5'-5 1/4" (1657)	5'-8 1/4" (1734)	6'-2 1/4" (1886)	6'-5 1/4" (1962)	6'-8 1/4" (2038)	6'-11 1/4" (2115)
	2046	2646	3046	3646	4046	4646	5046
	4'-11 1/2" (1511)	5'-11 1/4" (1810)	6'-2 1/4" (1886)	6'-5 1/4" (1962)	6'-8 1/4" (2038)	7'-2 1/4" (2191)	7'-5 1/4" (2267)
	2050	2650	3050	3650	4050	4650	5050

• "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 page 98 for more details.

• Dimensions in parentheses are in millimeters.

5'-5 1/2" (1664)	5'-11 1/2" (1816)
5'-6" (1676)	6'-0" (1829)
59 1/4" (1505)	65 1/4" (1657)



Custom-size windows are available in 1/8" (3) increments. Contact your Andersen supplier for more information.

For Springline™ and arch windows, the size designation does not reflect overall window height. (e.g., a 2020 Springline window size has a shoulder height of 1'-11 1/2" and an overall window height of 2'-11 1/4".)

Details shown on page 75. Grille patterns shown below.

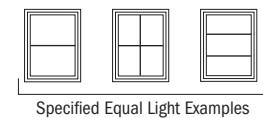
32 3/4" (832)	34 3/4" (908)
32 3/4" (832)	34 3/4" (908)
4'-8 1/4" (1429)	4'-11 1/4" (1505)
5620	6020
5'-2 1/4" (1581)	5'-5 1/4" (1657)
5626	6026
5'-8 1/4" (1734)	5'-11 1/4" (1810)
5630	6030
6'-2 1/4" (1886)	6'-5 1/4" (1962)
5636	6036
6'-8 1/4" (2038)	6'-11 1/4" (2115)
5640	6040
7'-2 1/4" (2191)	7'-5 1/4" (2267)
5646	6046
7'-8 1/4" (2343)	7'-11 1/4" (2419)
5650	6050

Grille Patterns

	Colonial	Renaissance*	Sunburst*	
Half Circle				
Quarter Circle				
Circle				
Springline™				
Arch				
	Prairie A	Colonial	Modified Colonial	
Transom				
Picture				

*Available only with Finelight™ grilles.

Number of lights and overall pattern varies with window size. Patterns are not available in all configurations. Specialty window patterns may not align with picture window patterns when joined. Specified equal light pattern is also available for all shapes except quarter circle. For more information on divided light, see page 11 or visit andersenwindows.com/grilles.



- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Table of Arch Window Sizes

Scale $\frac{1}{8}"$ (3) = 1'-0" (305) — 1:96

Scale $\frac{1}{8}"$ (3) = 1'-0" (305) – 1:96

		CUSTOM SIZES AVAILABLE							
Radius		23 1/2" (597)	29 1/2" (749)	35 1/2" (902)	41 1/2" (1054)	47 1/2" (1207)	53 1/2" (1359)	59 1/2" (1511)	
Chord Height	Shoulder Height								
11 1/2" (292)	1'-5 1/2" (445)	 2010	 2610	 3010	 3610	 4010	 4610	 5010	
1'-11 1/2" (597)	1'-5 1/2" (445)	 2016	 2616	 3016	 3616	 4016	 4616	 5016	
2'-2 21/32" (677)	1'-8 21/32" (524)	 2020	 2620	 3020	 3620	 4020	 4620	 5020	
2'-5 1/2" (749)	2'-9 7/16" (850)	 2026	 2626	 3026	 3626	 4026	 4626	 5026	
2'-11 1/2" (902)	3'-3 7/16" (1002)	 2030	 2630	 3030	 3630	 4030	 4630	 5030	
3'-5 1/2" (1054)	3'-9 7/16" (1154)	 2036	 2636	 3036	 3636	 4036	 4636	 5036	
3'-11 1/2" (1207)	4'-3 7/16" (1307)	 2040	 2640	 3040	 3640	 4040	 4640	 5040	
4'-5 1/2" (1359)	4'-9 7/16" (1459)	 2046	 2646	 3046	 3646	 4046	 4646	 5046	
4'-11 1/2" (1511)	5'-3 7/16" (1612)	 2050	 2650	 3050	 3650	 4050	 4650	 5050	
5'-5 1/2" (1664)	5'-9 7/16" (1764)	 2056	 2656	 3056	 3656	 4056	 4656	 5056	
5'-11 1/2" (1816)	6'-3 7/16" (1916)	 2060	 2660	 3060	 3660	 4060	 4660	 5060	

Minimum Rough Opening = window height + 1/2" (13)

Unobstructed Glass = window height - 6.25" (159)

CUSTOM SIZES AVAILABLE

Notes on page 71 also apply to these pages.

5'-5 1/2" (1664)	5'-11 1/2" (1816)	6'-5 1/2" (1969)	6'-11 1/2" (2121)	7'-5 1/2" (2273)	7'-11 1/2" (2426)
5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)
59 1/4" (1505)	65 1/4" (1657)	71 1/4" (1810)	77 1/4" (1962)	83 1/4" (2115)	89 1/4" (2267)
65 1/2" (1664)	71 1/2" (1816)	77 1/2" (1969)	83 1/2" (2121)	89 1/2" (2273)	95 1/2" (2426)
1'-8 9/32" (515)	1'-9 3/32" (535)	1'-9 7/8" (556)	1'-10 11/16" (576)	1'-11 1/2" (597)	2'-0 9/32" (617)
5610	6010	6610	7010	7610	8010
2'-2 9/32" (667)	2'-3 3/32" (688)	2'-3 7/8" (708)	2'-4 11/16" (729)	2'-5 1/2" (749)	2'-6 9/32" (769)
5616	6016	6616	7016	7616	8016
2'-8 9/32" (820)	2'-9 3/32" (840)	2'-9 7/8" (861)	2'-10 11/16" (881)	2'-11 1/2" (901)	3'-0 9/32" (922)
5620	6020	6620	7020	7620	8020
3'-2 9/32" (972)	3'-3 3/32" (993)	3'-3 7/8" (1013)	3'-4 11/16" (1033)	3'-5 1/2" (1054)	3'-6 9/32" (1074)
5626	6026	6626	7026	7626	8026
3'-8 9/32" (1125)	3'-9 3/32" (1145)	3'-9 7/8" (1165)	3'-10 11/16" (1186)	3'-11 1/2" (1206)	4'-0 9/32" (1227)
5630	6030	6630	7030	7630	8030
4'-2 9/32" (1277)	4'-3 3/32" (1297)	4'-3 7/8" (1318)	4'-4 11/16" (1338)	4'-5 1/2" (1359)	4'-6 9/32" (1379)
5636	6036	6636	7036	7636	8036
4'-8 9/32" (1429)	4'-9 3/32" (1450)	4'-9 7/8" (1470)	4'-10 11/16" (1491)	4'-11 1/2" (1511)	5'-0 9/32" (1531)
5640	6040	6640	7040	7640	8040
5'-2 9/32" (1582)	5'-3 3/32" (1602)	5'-3 7/8" (1623)	5'-4 11/16" (1643)	5'-5 1/2" (1663)	5'-6 9/32" (1684)
5646	6046	6646	7046	7646	8046
5'-8 9/32" (1734)	5'-9 3/32" (1755)	5'-9 7/8" (1775)	5'-10 11/16" (1795)	5'-11 1/2" (1816)	6'-0 9/32" (1836)
5650	6050	6650	7050	7650	8050
6'-2 9/32" (1887)	6'-3 3/32" (1907)	6'-3 7/8" (1927)	6'-4 11/16" (1948)	6'-5 1/2" (1968)	6'-6 9/32" (1989)
5656	6056	6656	7056	7656	8056
6'-8 9/32" (2039)	6'-9 3/32" (2059)	6'-9 7/8" (2080)	6'-10 11/16" (2100)	6'-11 1/2" (2121)	7'-0 9/32" (2141)
5660	6060	6660	7060	7660	8060

PICTURE, TRANSOM & SPECIALTY WINDOWS

Arch Window Area Specifications

Window Number	Glass Area Sq. Ft./ (m²)	Overall Window Area Sq. Ft./ (m²)
2010	0.93 (0.09)	2.22 (0.21)
2016	1.65 (0.15)	3.20 (0.30)
2020	2.37 (0.22)	4.18 (0.39)
2026	3.09 (0.29)	5.16 (0.48)
2030	3.81 (0.35)	6.14 (0.57)
2036	4.52 (0.42)	7.12 (0.66)
2040	5.24 (0.49)	8.10 (0.75)
2046	5.96 (0.55)	9.08 (0.84)
2050	6.68 (0.62)	10.06 (0.93)
2056	7.40 (0.69)	11.04 (1.03)
2060	8.12 (0.75)	12.02 (1.12)
2610	1.34 (0.12)	2.90 (0.27)
2616	2.31 (0.21)	4.13 (0.38)
2620	3.28 (0.30)	5.36 (0.50)
2626	4.25 (0.39)	6.59 (0.61)
2630	5.22 (0.48)	7.82 (0.73)
2636	6.19 (0.57)	9.05 (0.84)
2640	7.16 (0.66)	10.28 (0.95)
2646	8.12 (0.75)	11.51 (1.07)
2650	9.09 (0.84)	12.74 (1.18)
2656	10.06 (0.93)	13.97 (1.30)
2660	11.03 (1.02)	15.20 (1.41)
3010	1.80 (0.17)	3.63 (0.34)
3016	3.02 (0.28)	5.11 (0.47)
3020	4.24 (0.39)	6.59 (0.61)
3026	5.46 (0.51)	8.07 (0.75)
3030	6.68 (0.62)	9.54 (0.89)
3036	7.90 (0.73)	11.02 (1.02)
3040	9.11 (0.85)	12.50 (1.16)
3046	10.33 (0.96)	13.98 (1.30)
3050	11.55 (1.07)	15.46 (1.44)
3056	12.77 (1.19)	16.94 (1.57)
3060	13.99 (1.30)	18.42 (1.71)
3610	2.30 (0.21)	4.40 (0.41)
3616	3.77 (0.35)	6.13 (0.57)
3620	5.24 (0.49)	7.86 (0.73)
3626	6.71 (0.62)	9.59 (0.89)
3630	8.18 (0.76)	11.31 (1.05)
3636	9.65 (0.90)	13.04 (1.21)
3640	11.12 (1.03)	14.77 (1.37)
3646	12.59 (1.17)	16.50 (1.53)
3650	14.05 (1.31)	18.23 (1.69)
3656	15.52 (1.44)	19.96 (1.85)
3660	16.99 (1.58)	21.69 (2.02)
4010	2.85 (0.27)	5.21 (0.48)
4016	4.57 (0.42)	7.19 (0.67)
4020	6.29 (0.58)	9.17 (0.85)
4026	8.01 (0.74)	11.15 (1.04)
4030	9.73 (0.90)	13.13 (1.22)
4036	11.45 (1.06)	15.11 (1.40)
4040	13.17 (1.22)	17.09 (1.59)
4046	14.88 (1.38)	19.07 (1.77)
4050	16.60 (1.54)	21.05 (1.96)
4056	18.32 (1.70)	23.03 (2.14)
4060	20.04 (1.86)	25.00 (2.32)
4610	3.45 (0.32)	6.07 (0.56)
4616	5.42 (0.50)	8.30 (0.77)
4620	7.38 (0.69)	10.53 (0.98)
4626	9.35 (0.87)	12.76 (1.19)
4630	11.32 (1.05)	14.99 (1.39)
4636	13.29 (1.23)	17.22 (1.60)

Window Number	Glass Area Sq. Ft./ (m²)	Overall Window Area Sq. Ft./ (m²)
4640	15.26 (1.42)	19.45 (1.81)
4646	17.23 (1.60)	21.68 (2.01)
4650	19.20 (1.78)	23.91 (2.22)
4656	21.17 (1.97)	26.14 (2.43)
4660	23.13 (2.15)	28.36 (2.64)
5010	4.09 (0.38)	6.98 (0.65)
5016	6.30 (0.59)	9.46 (0.88)
5020	8.52 (0.79)	11.94 (1.11)
5026	10.74 (1.00)	14.42 (1.34)
5030	12.96 (1.20)	16.90 (1.57)
5036	15.18 (1.41)	19.37 (1.80)
5040	17.40 (1.62)	21.85 (2.03)
5046	19.62 (1.82)	24.33 (2.26)
5050	21.84 (2.03)	26.81 (2.49)
5056	24.05 (2.23)	29.29 (2.72)
5060	26.27 (2.44)	31.77 (2.95)
5610	4.77 (0.44)	7.93 (0.74)
5616	7.24 (0.67)	10.66 (0.99)
5620	9.71 (0.90)	13.39 (1.24)
5626	12.18 (1.13)	16.12 (1.50)
5630	14.65 (1.36)	18.85 (1.75)
5636	17.11 (1.59)	21.58 (2.00)
5640	19.58 (1.82)	24.30 (2.26)
5646	22.05 (2.05)	27.03 (2.51)
5650	24.52 (2.28)	29.76 (2.77)
5656	26.99 (2.51)	32.49 (3.02)
5660	29.46 (2.74)	35.22 (3.27)
6010	5.50 (0.51)	8.93 (0.83)
6016	8.22 (0.76)	11.91 (1.11)
6020	10.94 (1.02)	14.88 (1.38)
6026	13.66 (1.27)	17.86 (1.66)
6030	16.38 (1.52)	20.84 (1.94)
6036	19.09 (1.77)	23.82 (2.21)
6040	21.81 (2.03)	26.80 (2.49)
6046	24.53 (2.28)	29.78 (2.77)
6050	27.25 (2.53)	32.76 (3.04)
6056	29.97 (2.78)	35.74 (3.32)
6060	32.69 (3.04)	38.72 (3.60)
6610	6.27 (0.58)	9.97 (0.93)
6616	9.24 (0.86)	13.20 (1.23)
6620	12.21 (1.13)	16.43 (1.53)
6626	15.18 (1.41)	19.66 (1.83)
6630	18.15 (1.69)	22.88 (2.13)
6636	21.12 (1.96)	26.11 (2.43)
6640	24.09 (2.24)	29.34 (2.73)
6646	27.06 (2.51)	32.57 (3.03)
6650	30.02 (2.79)	35.80 (3.33)
6656	32.99 (3.07)	39.03 (3.63)
6660	35.96 (3.34)	42.26 (3.93)
7010	7.10 (0.66)	11.05 (1.03)
7016	10.31 (0.96)	14.53 (1.35)
7020	13.53 (1.26)	18.01 (1.67)
7026	16.75 (1.56)	21.49 (2.00)
7030	19.97 (1.86)	24.97 (2.32)
7036	23.19 (2.15)	28.45 (2.64)
7040	26.41 (2.45)	31.93 (2.97)
7046	29.63 (2.75)	35.41 (3.29)
7050	32.85 (3.05)	38.89 (3.61)
7056	36.06 (3.35)	42.37 (3.94)
7060	39.28 (3.65)	45.85 (4.26)
7610	7.96 (0.74)	12.19 (1.13)

Window Number	Glass Area Sq. Ft./ (m²)	Overall Window Area Sq. Ft./ (m²)
7616	11.43 (1.06)	15.92 (1.48)
7620	14.90 (1.38)	19.64 (1.83)
7626	18.37 (1.71)	23.37 (2.17)
7630	21.84 (2.03)	27.10 (2.52)
7636	25.30 (2.35)	30.83 (2.86)
7640	28.77 (2.67)	34.56 (3.21)
7646	32.24 (3.00)	38.29 (3.56)
7650	35.71 (3.32)	42.02 (3.90)
7656	39.18 (3.64)	45.75 (4.25)
7660	42.65 (3.96)	49.48 (4.60)
8010	8.87 (0.82)	13.36 (1.24)
8016	12.59 (1.17)	17.34 (1.61)
8020	16.31 (1.52)	21.32 (1.98)
8026	20.03 (1.86)	25.30 (2.35)
8030	23.75 (2.21)	29.28 (2.72)
8036	27.47 (2.55)	33.26 (3.09)
8040	31.18 (2.90)	37.24 (3.46)
8046	34.90 (3.24)	41.22 (3.83)
8050	38.62 (3.59)	45.20 (4.20)
8056	42.34 (3.93)	49.18 (4.57)
8060	46.06 (4.28)	53.16 (4.94)

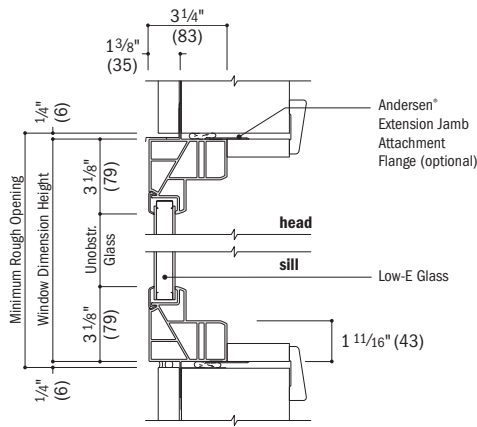
• Dimensions in parentheses are in square meters.

For picture, transom, circle, half circle, quarter circle and Springline™ window specifications, see pages 62-65.

Picture, Single Transom and Specialty Window Details

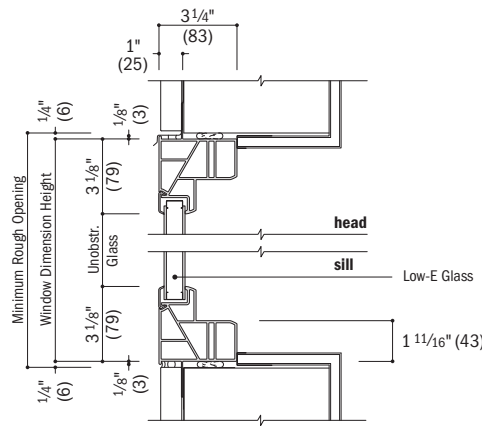
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

1 3/8" flange setback



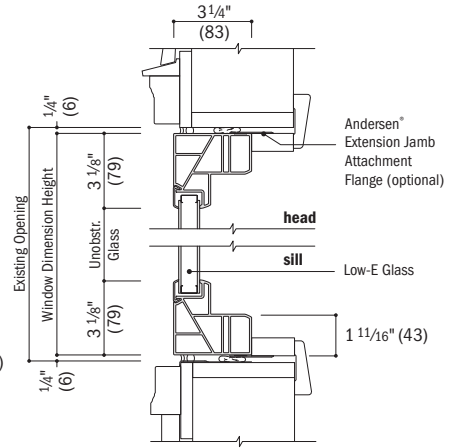
Vertical Section

1" flange setback with stucco key

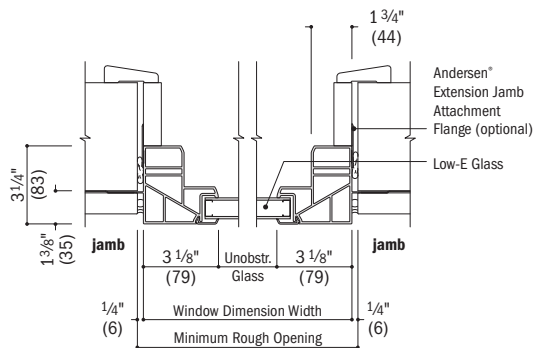


Vertical Section
stucco exterior

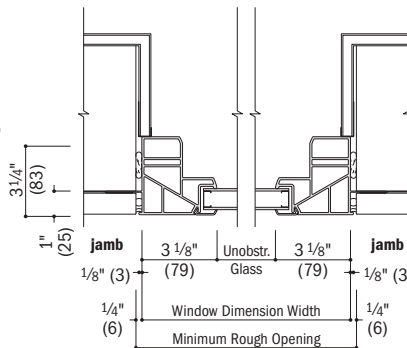
no flange



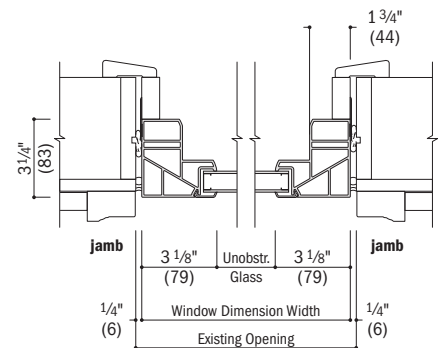
Vertical Section
existing opening or insert



Horizontal Section



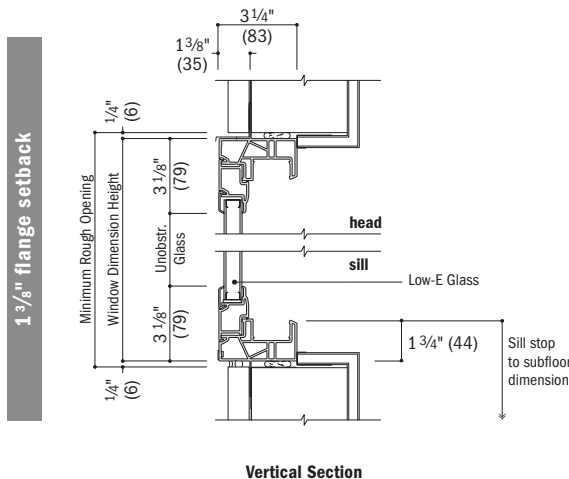
Horizontal Section
stucco exterior



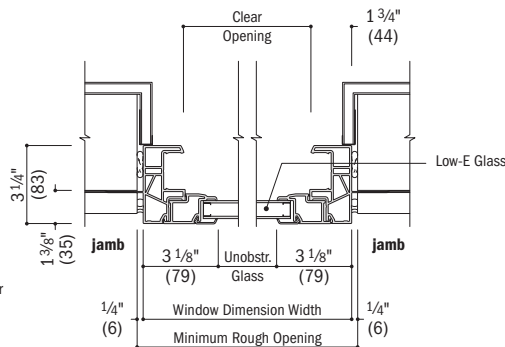
Horizontal Section
existing opening or insert

Twin and Triple Transom Window Details

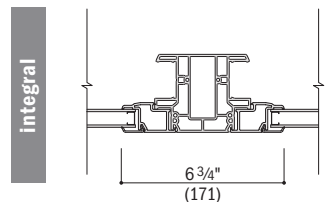
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Vertical Section



Horizontal Section



Horizontal Section
Twin or Triple Transom

See pages 76-77 for horizontal and vertical joining details.

- Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **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 98.**
- 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.

WINDOWS

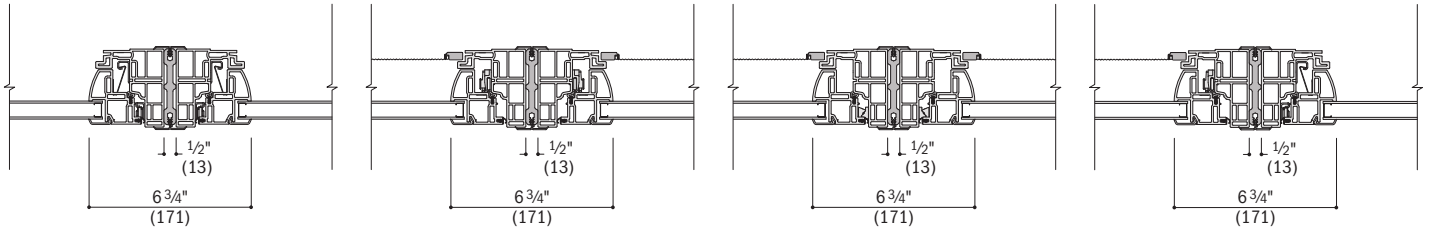
Vertical (ribbon) Joining Details

Scale $1\frac{1}{2}"$ (38) = 1'-0" (305) – 1:8

Overall Window Dimension Width Sum of individual window widths plus $\frac{1}{2}"$ (13).

Overall Minimum Rough Opening Width Overall window dimension width plus $\frac{3}{4}"$ (19).

The addition of joining materials will affect the overall rough opening dimension. See page 98.

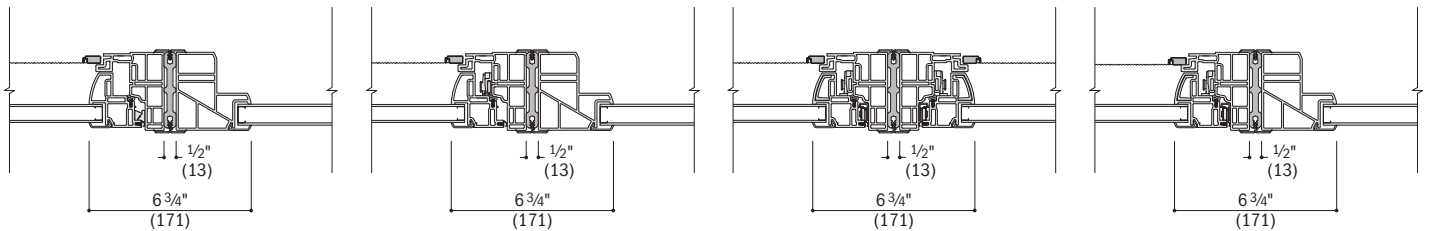


Casement to Casement
(stationary jamb to stationary jamb)

Casement to Casement
(lock jamb to lock jamb)

Casement to Casement
(hinge jamb to hinge jamb)

Casement to Casement
(lock jamb to stationary jamb)

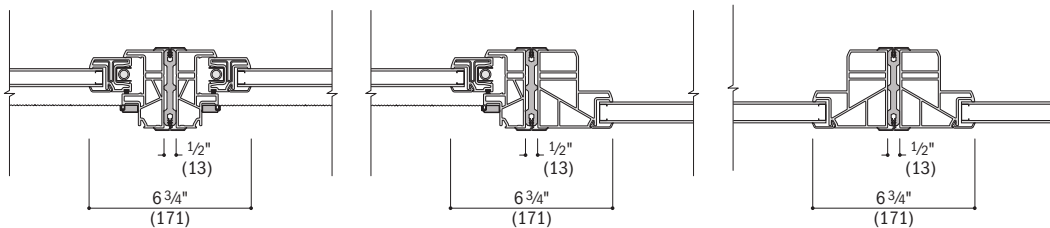


Casement to Picture/Single Transom
(casement hinge jamb)

Casement to Picture/Single Transom
(casement lock jamb)

Awning to Awning

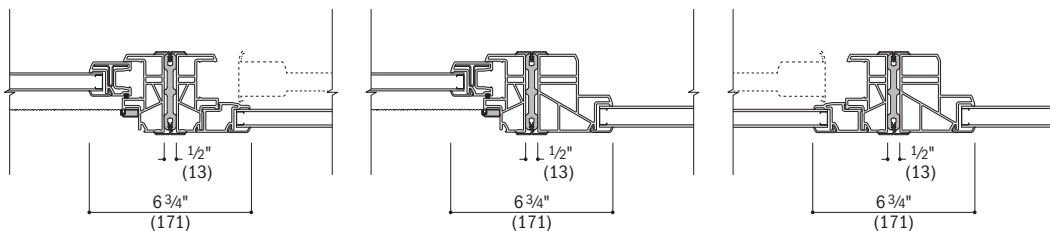
Awning to Picture/Single Transom



Single-Hung to Single-Hung

Single-Hung to Picture/Single Transom

**Picture/Single Transom to
Picture/Single Transom**



Gliding to Gliding
(active jamb to stationary jamb)

Gliding to Picture/Single Transom
(gliding active jamb)

Gliding to Picture/Single Transom
(gliding stationary jamb)

- Dimensions in parentheses are in millimeters.
- 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 98.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.

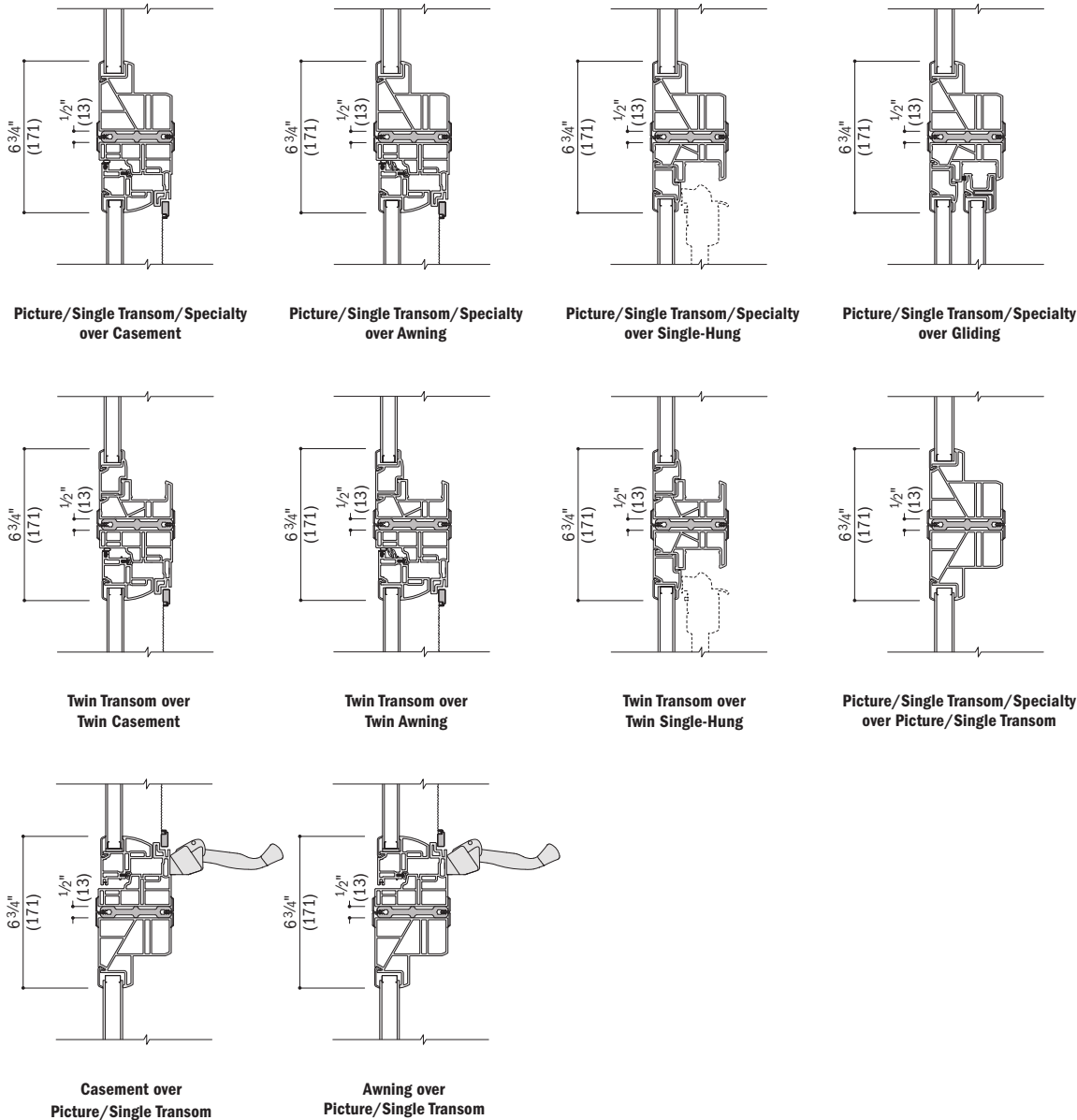
Horizontal (stack) Joining Details

Scale 1½" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Height Sum of individual window heights plus ½" (13).

Overall Minimum Rough Opening Height Overall window dimension height plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension. See page 98.



For more information on joining refer to the combination designs section on page 89.

- Dimensions in parentheses are in millimeters.
- 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 98.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.

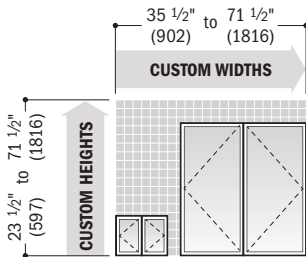
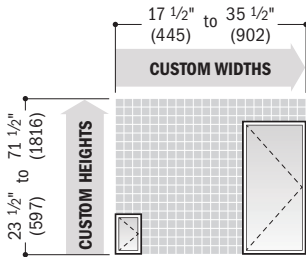
WINDOWS

Custom Sizes & Specifications



100 Series custom-size windows are available in 1/8" (3) increments between minimum and maximum widths and heights shown. Some restrictions apply.

Casement Windows



Single

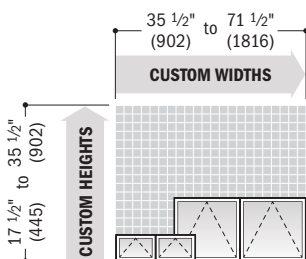
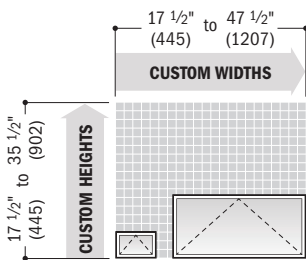
Clear Opening	$\text{Width} = \text{window width} - 12.103'' (307) \text{ wash mode}^*$ $\text{Width} = \text{window width} - 7.790'' (198) \text{ widest clear opening}^*$ $\text{Height} = \text{window height} - 5.694'' (145)$	Minimum R.O.	$\text{Width} = \text{window width} + 1/2'' (13)$ $\text{Height} = \text{window height} + 1/2'' (13)$
Vent Opening	$\text{Width} = \text{window width} - 7.964'' (202)$ $\text{Height} = \text{window height} - 5.694'' (145)$	Unobstr. Glass	$\text{Width} = \text{window width} - 6.250'' (159)$ $\text{Height} = \text{window height} - 6.250'' (159)$

Twin

Clear Opening	$\text{Width} = (\text{window width} \div 2) - 12.353'' (314) \text{ wash mode}^*$ $\text{Width} = (\text{window width} \div 2) - 8.040'' (204) \text{ widest clear opening}^*$ $\text{Height} = \text{window height} - 5.694'' (145)$	Minimum R.O.	$\text{Width} = \text{window width} + 1/2'' (13)$ $\text{Height} = \text{window height} + 1/2'' (13)$
Vent Opening	$\text{Width} = \text{window width} - 16.428'' (417)$ $\text{Height} = \text{window height} - 5.694'' (145)$	Unobstr. Glass	$\text{Single Sash Width} = (\text{window width} \div 2) - 6.50'' (165)$ $\text{Total Sash Width} = \text{window width} - 13.000'' (330)$ $\text{Height} = \text{window height} - 6.250'' (159)$

*Widest clear opening hinge will be applied, based on window size, if it allows the window to 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). Hinge type cannot be specified.

Awning Windows



Single

Clear Opening	$\text{Width} = \text{window width} - 5.694'' (145)$ $\text{Height} = 8.000'' (203)$	Minimum R.O.	$\text{Width} = \text{window width} + 1/2'' (13)$ $\text{Height} = \text{window height} + 1/2'' (13)$
Vent Opening	$\text{Width} = \text{window width} - 5.694'' (145)$ $\text{Height} = 8.000'' (203)$	Unobstr. Glass	$\text{Width} = \text{window width} - 6.250'' (159)$ $\text{Height} = \text{window height} - 6.250'' (159)$

• Awning windows do not meet 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).

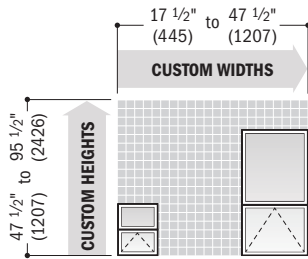
Twin

Clear Opening	$\text{Width} = (\text{window width} \div 2) - 5.944'' (151)$ $\text{Height} = 8.000'' (203)$	Minimum R.O.	$\text{Width} = \text{window width} + 1/2'' (13)$ $\text{Height} = \text{window height} + 1/2'' (13)$
Vent Opening	$\text{Width} = (\text{window width} \div 2) - 5.944'' (151)$ $\text{Height} = 8.000'' (203)$	Unobstr. Glass	$\text{Single Sash Width} = (\text{window width} \div 2) - 6.50'' (165)$ $\text{Total Sash Width} = \text{window width} - 13.000'' (330)$ $\text{Height} = \text{window height} - 6.250'' (159)$

• Awning windows do not meet 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).

• 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. **Unobstr. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

Awning Windows *(continued)*



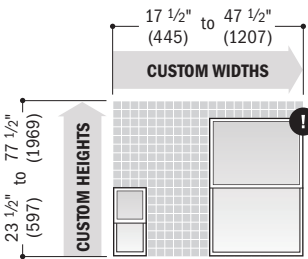
Contact your Andersen supplier for min/max height dimensions for lower venting sash.

Picture Window over Awning

Clear Opening 	Width = window width - 5.694" (145) Height = 8.000" (203)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Width = window width - 5.694" (145) Height = 8.000" (203)	Unobstr. Glass 	Width = window width - 6.250" (159) Total Sash Height = window height - 13.000" (330) <i>Contact your Andersen supplier for unobstructed glass height dimension of individual stationary sash or venting sash.</i>

• Awning windows do not meet 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).

Single-Hung Windows



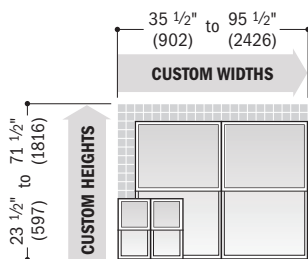
Windows with a height greater than 77 1/2" (1969) are only available with a 2:1 reverse cottage sash ratio.*

Equal Sash Ratio

Clear Opening 	Width = window width - 3.500" (89) Height = (window height + 2) - 3.711" (94)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Equal Sash Ratio Width = window width - 3.500" (89) Height = (window height + 2) - 3.711" (94)	Unobstr. Glass 	Equal Sash Ratio Width = window width - 6.250" (159) Fixed Sash Height = (window height + 2) - 4.184" (106) Venting Sash Height = (window height + 2) - 4.226" (107) Total Sash Height = window height - 8.410" (214)

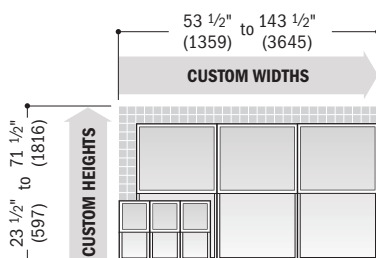
• Drywall pass-through window is available for custom-size windows wider than 23 1/2" (597) and taller than 53 1/2" (1359).
• Windows with a 3:2 reverse cottage sash ratio are available in custom sizes from 17 1/2" (445) to 47 1/2" (1207) wide to 29 1/2" (749) to 77 1/2" (1969) high. For area and opening specification formulas, visit andersenwindows.com.
• Window heights that require a 2:1 reverse cottage sash ratio are available in custom sizes from 17 1/2" (445) to 47 1/2" (1207) wide to 77 5/8" (1972) to 89 1/2" (2273) high. For area and opening specifications, contact your Andersen supplier.

Twin



Clear Opening 	Width = (window width ÷ 2) - 3.750" (95) Height = (window height + 2) - 3.711" (94)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Equal Sash Ratio Width = window width - 3.500" (89) Height = (window height + 2) - 3.711" (94)	Unobstr. Glass 	Single Sash Width = (window width ÷ 2) - 6.500" (165) Total Sash Width = window width - 13.000" (330) Fixed Sash Height = (window height + 2) - 4.184" (106) Venting Sash Height = (window height + 2) - 4.226" (107) Total Sash Height = window height - 8.410" (214)

Triple

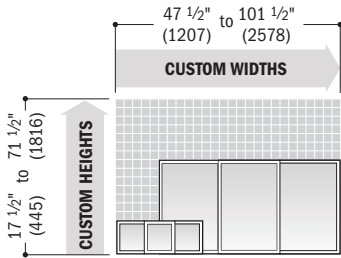
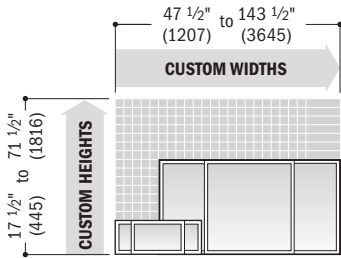
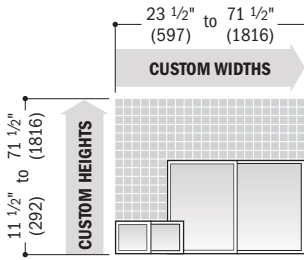


Clear Opening 	Width = (window width ÷ 3) - 3.833" (97) Height = (window height + 2) - 3.711" (94)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Equal Sash Ratio Width = window width - 11.500" (292) Height = (window height + 2) - 3.711" (94)	Unobstr. Glass 	Single Sash Width = (window width ÷ 3) - 6.583" (167) Total Sash Width = window width - 19.750" (502) Fixed Sash Height = (window height + 2) - 4.184" (106) Venting Sash Height = (window height + 2) - 4.226" (107) Total Sash Height = window height - 8.410" (214)

• 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. **Unobstr. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

WINDOWS

Gliding Windows



XO/OX (active-stationary or stationary-active)

Clear Opening 	Width = (window width ÷ 2) - 3.711" (94) Height = window height - 3.500" (89)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Width = (window width ÷ 2) - 3.711" (94) Height = window height - 3.500" (89)	Unobstr. Glass 	Fixed Sash Width = (window width ÷ 2) - 4.184" (106) Venting Sash Width = (window width ÷ 2) - 4.226" (107) Total Sash Width = window width - 8.410" (214) Height = window height - 6.250" (159)

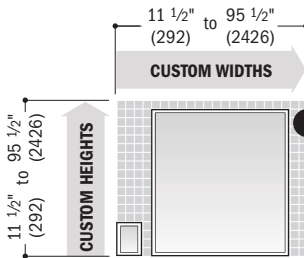
XOX 1:2:1 Sash Ratio (active-stationary-active)

Clear Opening 	Width = (window width ÷ 4) - 2.976" (76) Height = window height - 3.500" (89)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Width = (window width ÷ 2) - 5.952" (151) Height = window height - 3.500" (89)	Unobstr. Glass 	Fixed Sash Width = (window width ÷ 2) - 1.868" (47) Venting Sash Width = (window width ÷ 4) - 4.351" (111) Total Sash Width = window width - 10.570" (268) Height = window height - 6.250" (159)

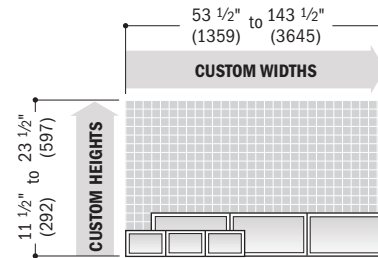
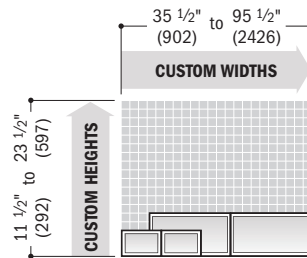
XOX 1:1:1 (Equal) Sash Ratio (active-stationary-active)

Clear Opening 	Width = (window width ÷ 3) - 5.164" (131) Height = window height - 3.500" (89)	Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Vent Opening 	Width = (window width x 2) ÷ 3 - 10.328" (262) Height = window height - 3.500" (89)	Unobstr. Glass 	Fixed Sash Width = (window width ÷ 3) - 3.496" (89) Venting Sash Width = (window width ÷ 3) - 3.537" (90) Total Sash Width = window width - 10.570" (268) Height = window height - 6.250" (159)

Picture and Transom Windows



! Either height or width must be 71 1/2" (1816) or less.



Triple transom windows with unequal sash are not available in custom sizes.

Picture and Single Transom

Minimum R.O. 	Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Unobstr. Glass 	Width = window width - 6.250" (159) Height = window height - 6.250" (159)

Twin and Triple Transom

Minimum R.O. 	Twin Width = window width + 1/2" (13) Height = window height + 1/2" (13)	Triple Width = window width + 1/2" (13) Height = window height + 1/2" (13)
Unobstr. Glass 	Twin Single Sash Width = (window width ÷ 2) - 6.500" (165) Total Sash Width = window width - 13.000" (330) Height = window height - 6.250" (159)	Triple Single Sash Width = (window width ÷ 3) - 6.583" (167) Total Sash Width = window width - 19.750" (502) Height = window height - 6.250" (159)

• 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. **Unobstr. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

PATIO DOORS

CUSTOM SIZING
in 1/8" (3) increments



SECTION REFERENCE

Gliding Patio Doors

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Specifications	83
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Door Details	84

Patio Door Sidelights & Transoms

Table of Sizes	85
Specifications	85
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Combination Designs	89
Product Performance	90-95
Warranty	100

Dimensions in parentheses are in millimeters.

PATIO DOORS

FEATURES

GLIDING PATIO DOORS

Frame

- A** Frame constructed with Fibrex® composite material. This construction produces a rigid frame.
- B** Durable, low-maintenance finish won't fade, flake, blister or peel.
- Factory-assembled doors arrive at the jobsite ready to install.

C Dual-felt weatherstripping, applied on the inside pocket of both side jambs and the head jamb, creates a positive seal between the frame and panels. The result is a long-lasting, energy-efficient barrier against wind, water and dust.

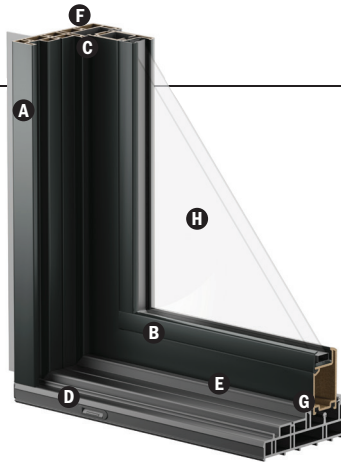
A full-length combination weatherstrip/interlock system provides a flexible seal at the meeting stile.

Sill

- D** One-piece sill design with weep holes located on the sill exterior provides superior water management. The heavy gauge PVC construction is wear-resistant and neutral gray in color.
- E** The roller track has a stainless steel cap that resists denting for smooth, reliable operation.

Panel

- F** Fibrex material construction provides long-lasting performance. The panel, finished with a durable capping, provides maximum protection and a matte, low-maintenance finish.
- G** Dual corrosion-resistant* ball-bearing rollers on the operating door panel provide smooth operation with self-contained leveling adjusters. The rollers have deep grooves to increase engagement with the roller track and resist lateral movement. Metal reinforcement inserted into the panel stiles provides additional stability.



Glass

A glazing bead and silicone provide superior weathertightness and durability.

H High-Performance glass options include:

- Low-E SmartSun™ tempered glass
- Low-E SmartSun HeatLock® tempered glass
- Low-E tempered glass
- Low-E HeatLock tempered glass
- Dual-pane 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 jobsite.

Patterned Glass

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

Hardware

Locking System



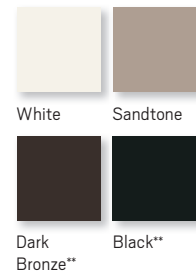
A two-point locking system engages a steel receiver plate that is secured into the side jamb. This provides enhanced security and a weathertight seal, with the operating panel pulled tightly into the jamb.

Tulsa and Afton hardware options are available. Tulsa hardware exterior handles match the door's exterior color, while interior handles come in white or sandtone to match the interior. Afton hardware has the same finish inside and out.

EXTERIOR COLORS



INTERIOR COLORS

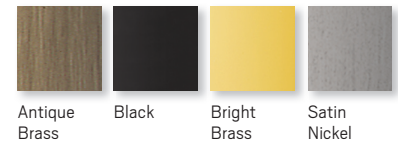


HARDWARE FINISHES

TULSA

Tulsa hardware matches the exterior and interior color options shown above.

AFTON



GLIDING PATIO DOOR HARDWARE

TULSA (Standard)



Exterior Handle
Black
Cocoa Bean
Dark Bronze
Sandtone
Terratone
White

Interior Handle
Black
Dark Bronze
Sandtone
White

Bold name denotes finish shown.

AFTON (Optional)



Exterior Handle Interior Handle
Antique Brass | Bright Brass
Black | **Satin Nickel**

ACCESSORIES Sold Separately

Hardware

Auxiliary Foot Lock

Provides an extra measure of security when the door is in a locked position. Available in colors that coordinate with the interior.

Grilles

Grilles are available in a variety of configurations. See page 11 for details.

Insect Screens

Insect screens are available with a gray fiberglass screen mesh and are color-matched to the door exterior. The latch mechanism is contained within the insect screen handle for easy operation.

Sidelights & Transoms

Patio door sidelights and transoms are available for 100 Series gliding patio doors. See pages 85-86.

*Visit andersenwindows.com/warranty for details.

**Dark Bronze and Black interiors are only available with Dark Bronze and Black exteriors respectively.

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

Three Patio Door Heights

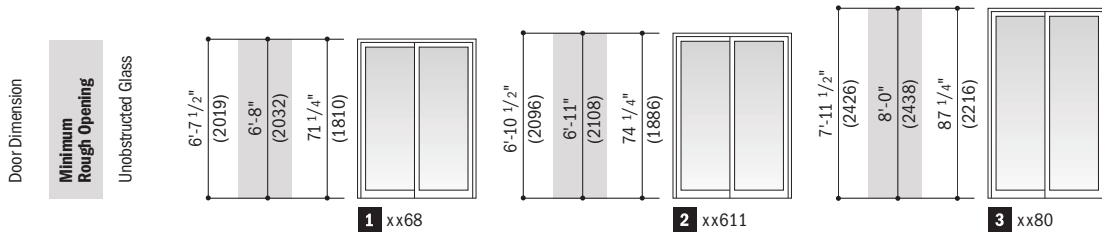
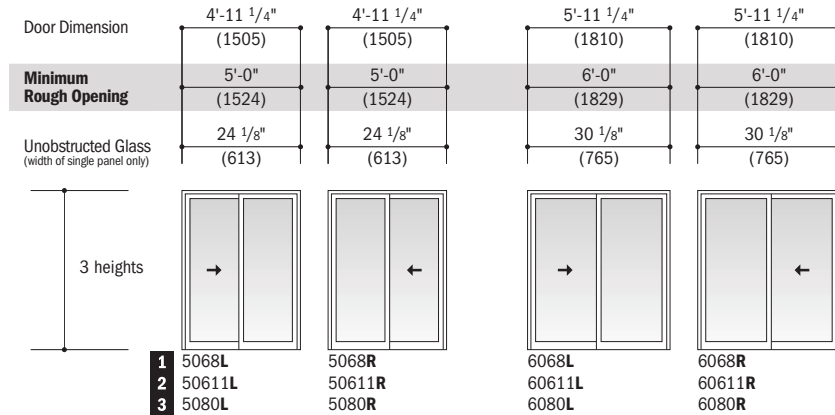


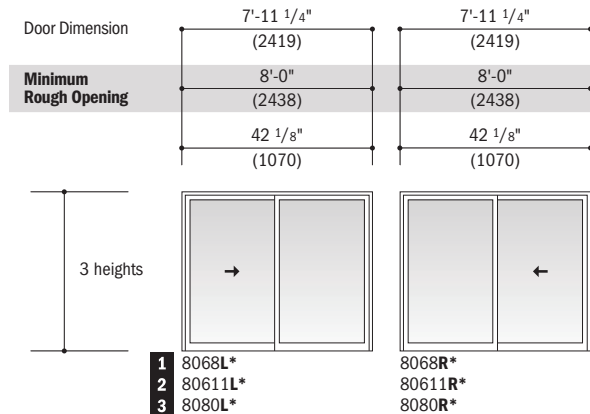
Table of Gliding Patio Doors Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96



Custom-size patio doors are available in 1/8" (3) increments. See page 88 for custom sizes and specifications.

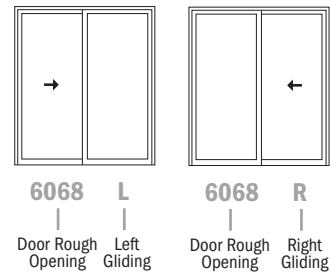
Arrow indicates direction of panel operation as viewed from the exterior. Details and grille patterns shown on page 84.



- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.
- *Meet or exceed a 32" (813) clear opening width.

Order Designation Description

Viewed from the exterior.



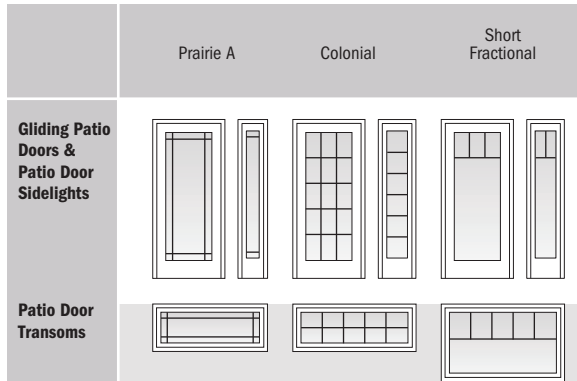
Gliding Patio Door Opening and Area Specifications

Door Number	Clear Opening Area* Sq. Ft./ (m ²)	Clear Opening in Full Open Position		Glass Area Sq. Ft./ (m ²)	Vent Area* Sq. Ft./ (m ²)	Overall Door Area Sq. Ft./ (m ²)
		Width* Inches/ (mm)	Height Inches/ (mm)			
5068	12.38 (1.15)	23 1/2" (597)	75 7/8" (1927)	23.87 (2.22)	12.38 (1.15)	32.71 (3.04)
6068	15.54 (1.44)	29 1/2" (749)	75 7/8" (1927)	31.27 (2.91)	15.54 (1.44)	39.34 (3.65)
8068	21.87 (2.03)	41 1/2" (1054)	75 7/8" (1927)	43.14 (4.01)	21.87 (2.03)	52.59 (4.89)
50611	12.87 (1.20)	23 1/2" (597)	78 7/8" (2003)	52.79 (4.90)	12.87 (1.20)	33.95 (3.15)
60611	16.16 (1.50)	29 1/2" (749)	78 7/8" (2003)	32.58 (3.03)	16.16 (1.50)	40.82 (3.79)
80611	22.73 (2.11)	41 1/2" (1054)	78 7/8" (2003)	44.96 (4.18)	22.73 (2.11)	54.57 (5.07)
5080	14.99 (1.39)	23 1/2" (597)	91 7/8" (2334)	31.02 (2.88)	14.99 (1.39)	39.29 (3.65)
6080	18.82 (1.75)	29 1/2" (749)	91 7/8" (2334)	38.29 (3.56)	18.82 (1.75)	47.25 (4.39)
8080	26.48 (2.46)	41 1/2" (1054)	91 7/8" (2334)	52.83 (4.91)	26.48 (2.46)	63.17 (5.87)

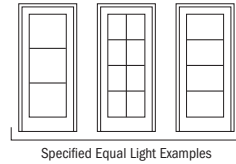
- Dimensions in parentheses are in millimeters or square meters.
- *For doors with Tulsa hardware only. Contact your Andersen supplier for doors with Afton hardware.

GLIDING PATIO DOORS

Grille Patterns

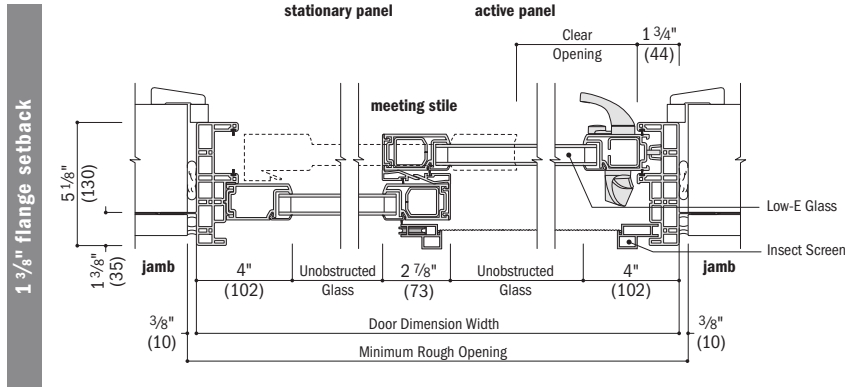


Number of lights and overall pattern varies with door size. Patterns shown may not be available for all sizes. Specified equal light pattern is also available. For more information on divided light, see page 11 or visit andersenwindows.com/grilles.

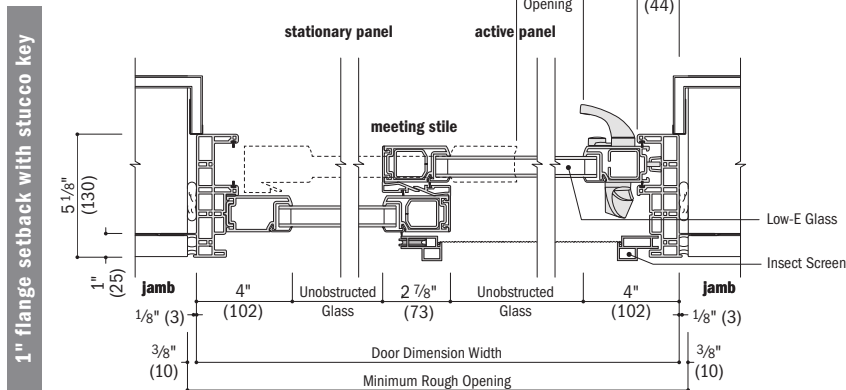


Gliding Patio Door Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



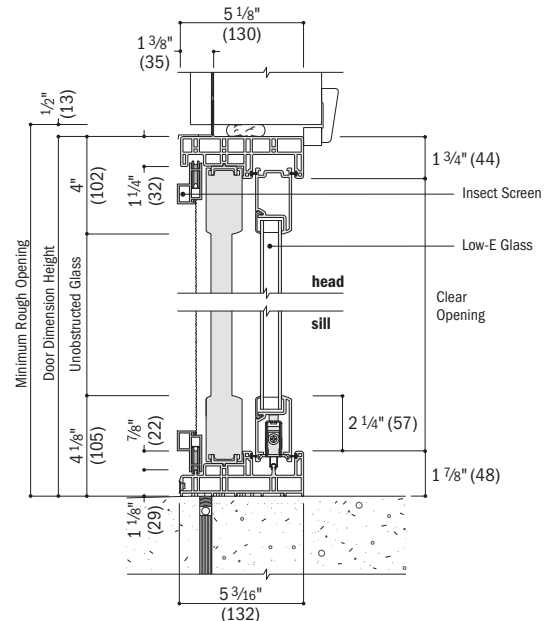
Horizontal Section



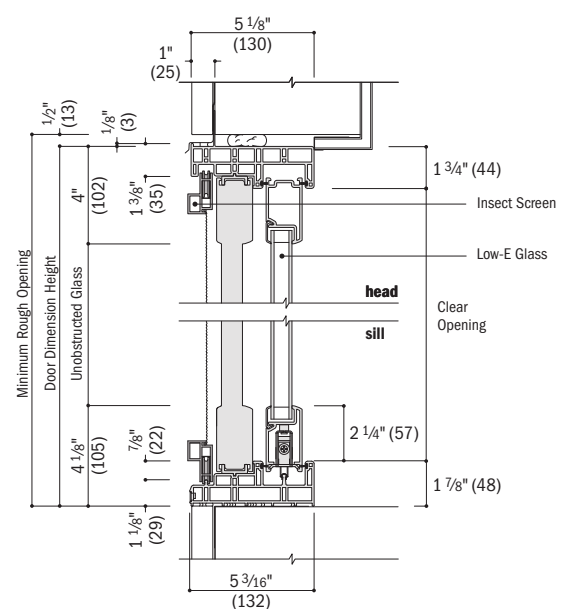
Horizontal Section
stucco exterior

See page 87 for horizontal and vertical joining details.

- Drip cap is required to complete door installation as shown, but may not be included with the door. Use of drip cap is recommended for proper installation.
- 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 98.
- 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.



Vertical Section



Vertical Section
stucco exterior

Table of Patio Door Transom and Sidelight Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Transom/Sidelight Dimension	1'-2 1/4" (362)	1'-5 1/4" (438)	1'-11 1/4" (591)	2'-5 1/4" (743)	2'-11 1/4" (895)	3'-11 1/4" (1200)	4'-11 1/4" (1505)	5'-11 1/4" (1810)	7'-11 1/4" (2419)
Minimum Rough Opening	1'-3" (381)	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	6'-0" (1829)	8'-0" (2438)
Unobstructed Glass	6 3/16" (157)	9 3/16" (233)	15 3/16" (386)	21 3/16" (538)	27 3/16" (691)	39 3/16" (995)	51 3/16" (1300)	63 3/16" (1605)	87 3/16" (2215)

CUSTOM WIDTHS – 1'-2 1/4" to 7'-11 1/4"									
CUSTOM HEIGHTS – 1'-2 1/4" to 1'-11 1/4"	1'-2 1/4" (362)	1'-5 1/4" (438)	1'-11 1/4" (591)	2'-5 1/4" (743)	2'-11 1/4" (895)	3'-11 1/4" (1200)	4'-11 1/4" (1505)	5'-11 1/4" (1810)	7'-11 1/4" (2419)
	1313	1613	2013	2613	3013	4013	5013	6013	8013
	1316	1616	2016	2616	3016	4016	5016	6016	8016
CUSTOM HEIGHTS – 1'-11 1/4" to 2'-0"	1'-11 1/4" (591)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)	2'-0" (610)
	1320	1620	2020	2620	3020	4020	5020	6020	8020
	1320	1620	2020	2620	3020	4020	5020	6020	8020

CUSTOM WIDTHS – 1'-2 1/4" to 3'-11 1/4"					
CUSTOM HEIGHTS – 6'-7 1/2" to 7'-11 1/2"	6'-7 1/2" (2019)	6'-8" (2032)	6'-11 1/2" (2108)	7'-1 1/4" (2184)	7'-11 1/2" (2419)
	1368	1668	2068	2668	3068
	1368	1668	2068	2668	3068
CUSTOM HEIGHTS – 6'-10 1/2" to 7'-11 1/2"	6'-10 1/2" (2096)	6'-11" (2108)	6'-11 1/2" (2108)	7'-1 1/4" (2184)	7'-11 1/2" (2419)
	13611	16611	20611	26611	30611
	13611	16611	20611	26611	30611
CUSTOM HEIGHTS – 7'-11 1/2" to 8'-0"	7'-11 1/2" (2419)	8'-0" (2438)	8'-0" (2438)	8'-0" (2438)	8'-0" (2438)
	1380	1680	2080	2680	3080
	1380	1680	2080	2680	3080



Custom-size doors are available in 1/8" (3) increments.

See page 88 for custom sizes and specifications.

Details shown on page 86.

Grille patterns shown on page 84.

- "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 page 98 for more details.
- Dimensions in parentheses are in millimeters.

Patio Door Sidelight Area Specifications

Sidelight Number	Glass Area Sq. Ft./ (m²)	Overall Window Area Sq. Ft./ (m²)
1368	3.06 (0.28)	7.87 (0.73)
13611	3.19 (0.30)	8.16 (0.76)
1380	3.75 (0.35)	9.45 (0.88)
1668	4.55 (0.42)	9.52 (0.88)
16611	4.74 (0.44)	9.88 (0.92)
1680	5.57 (0.52)	11.44 (1.06)
2068	7.51 (0.70)	12.84 (1.19)
20611	7.83 (0.73)	13.32 (1.24)
2080	9.20 (0.85)	15.42 (1.43)
2668	10.48 (0.97)	16.15 (1.50)
26611	10.92 (1.01)	16.76 (1.56)
2680	12.84 (1.19)	19.40 (1.80)
3068	13.45 (1.25)	19.46 (1.81)
30611	14.02 (1.30)	20.20 (1.88)
3080	16.47 (1.53)	23.38 (2.17)
4068	19.39 (1.80)	26.09 (2.42)
40611	20.21 (1.88)	27.07 (2.51)
4080	23.74 (2.21)	31.34 (2.91)

Patio Door Transom Area Specifications

Transom Number	Glass Area Sq. Ft./ (m²)	Overall Window Area Sq. Ft./ (m²)
1313	0.27 (0.03)	1.41 (0.13)
1316	0.40 (0.04)	1.71 (0.16)
1320	0.65 (0.06)	2.30 (0.21)
1613	0.40 (0.04)	1.71 (0.16)
1616	0.59 (0.05)	2.07 (0.19)
1620	0.97 (0.09)	2.79 (0.26)
2013	0.65 (0.06)	2.30 (0.21)
2016	0.97 (0.09)	2.79 (0.26)
2020	1.61 (0.15)	3.75 (0.35)
2613	0.91 (0.09)	2.90 (0.27)
2616	1.35 (0.13)	3.50 (0.33)
2620	2.24 (0.21)	4.72 (0.44)
3013	1.17 (0.11)	3.49 (0.32)
3016	1.74 (0.16)	4.22 (0.39)
3020	2.87 (0.27)	5.69 (0.53)
4013	1.69 (0.16)	4.68 (0.43)
4016	2.50 (0.23)	5.66 (0.53)
4020	4.13 (0.39)	7.63 (0.71)

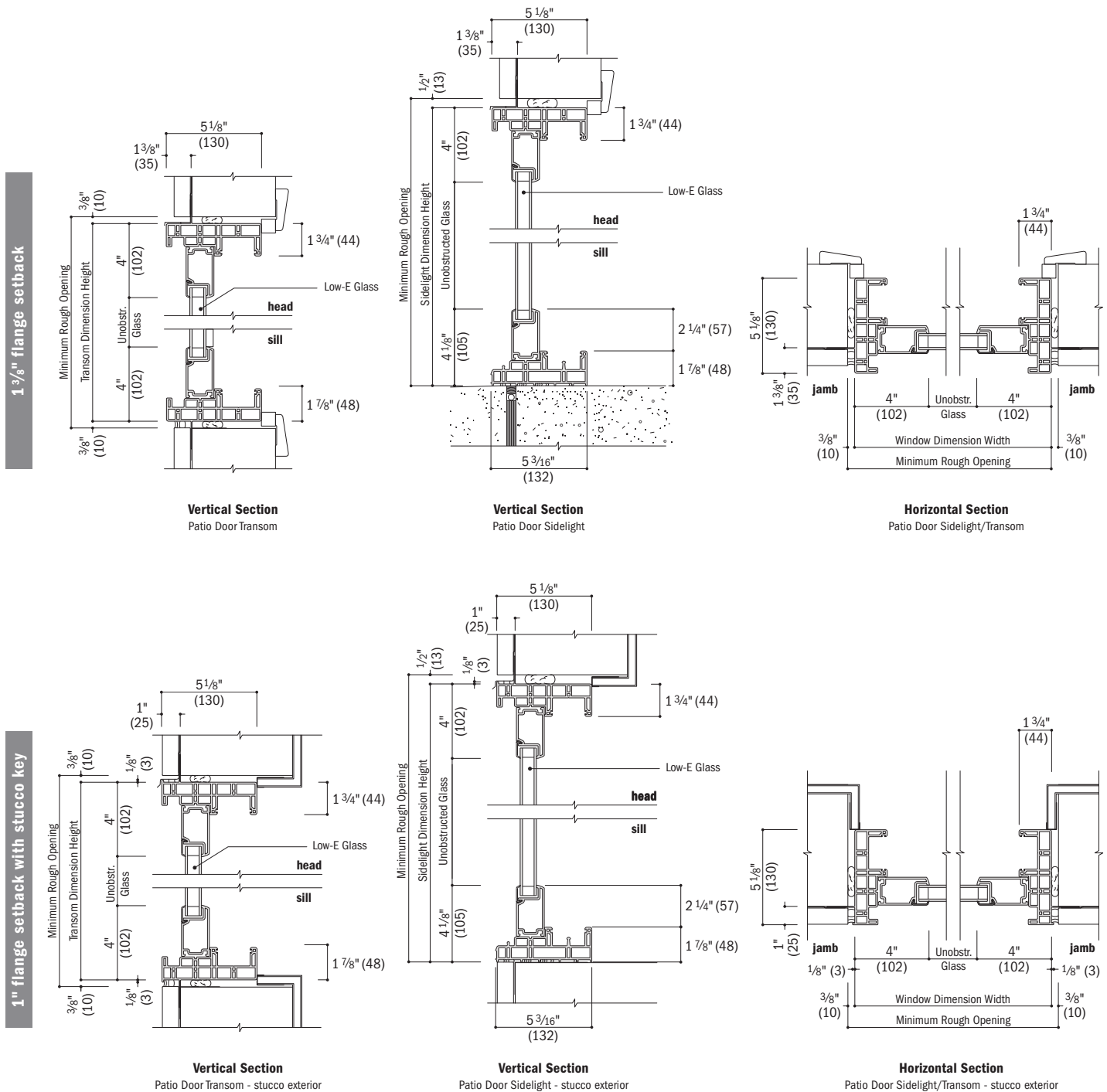
Transom Number	Glass Area Sq. Ft./ (m²)	Overall Window Area Sq. Ft./ (m²)
5013	2.20 (0.20)	5.86 (0.55)
5016	3.27 (0.30)	7.10 (0.66)
5020	5.40 (0.50)	9.57 (0.89)
6013	2.72 (0.25)	7.05 (0.66)
6016	4.03 (0.38)	8.54 (0.79)
6020	6.67 (0.62)	11.50 (1.07)
8013	3.75 (0.35)	9.43 (0.88)
8016	5.56 (0.52)	11.41 (1.06)
8020	9.20 (0.85)	15.38 (1.43)

- Dimensions in parentheses are in square meters.

PATIO DOOR SIDELIGHTS & TRANSOMS

Patio Door Sidelight and Transom Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



See page 87 for horizontal and vertical joining details.

- Drip cap is required to complete sidelight and transom installation as shown, but may not be included with the sidelight and transom. Use of drip cap is recommended for proper installation.
- 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 98.
- 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.

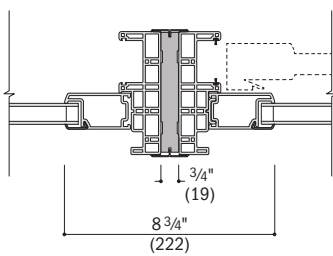
Vertical (ribbon) Joining Details

Scale $1\frac{1}{2}"$ (38) = 1'-0" (305) – 1:8

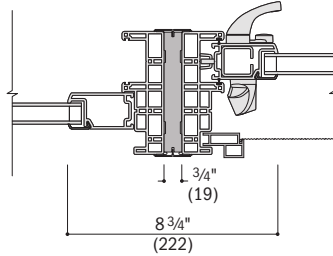
Overall Door/Door or Door/Sidelight Dimension Width Sum of individual door/door or door/sidelight widths plus $\frac{3}{4}"$ (19).

Overall Minimum Rough Opening Width Overall dimension width plus $\frac{3}{4}"$ (19).

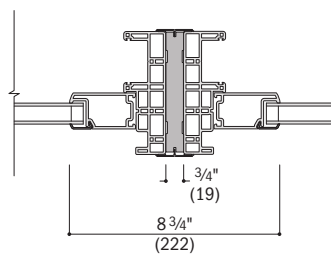
The addition of joining materials will affect the overall rough opening dimension. See page 98.



Patio Door Sidelight to Gliding Patio Door
(patio door stationary jamb)



Patio Door Sidelight to Gliding Patio Door
(patio door operating jamb)



Patio Door Sidelight to Patio Door Sidelight

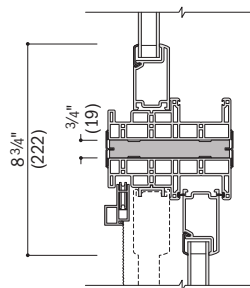
Horizontal (stack) Joining Details

Scale $1\frac{1}{2}"$ (38) = 1'-0" (305) – 1:8

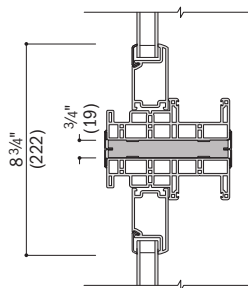
Overall Transom/Door or Transom/Sidelight Dimension Height Sum of individual transom/door or transom/sidelight heights plus $\frac{3}{4}"$ (19).

Overall Minimum Rough Opening Height Overall dimension height plus $\frac{1}{2}"$ (13).

The addition of joining materials will affect the overall rough opening dimension. See page 98.



**Patio Door Transom over
Gliding Patio Door**



**Patio Door Transom over
Patio Door Sidelight**

For more information on joining refer to the combination designs section on page 89.

- 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 98.
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.
- Contact your Andersen supplier for information on meeting wind load requirements for patio door joined combinations.

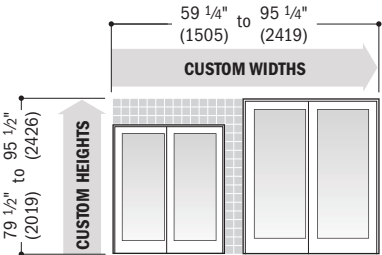
PATIO DOORS

Custom Sizes & Specifications



100 Series custom-size patio doors and patio door sidelights and transoms are available in 1/8" (3) increments between minimum and maximum widths and heights shown. Some restrictions apply.

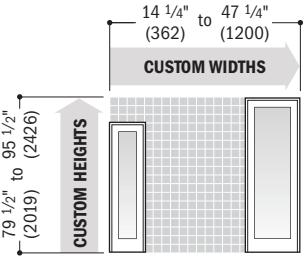
Gliding Patio Doors



To meet or exceed a clear opening width of 32" (813), select a custom-size door width that requires a rough opening width of 6'6" (1981) or greater.

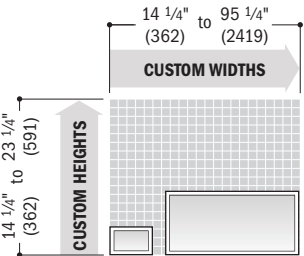
Clear Opening	Width = (door width + 2) - 6.125" (156) Height = door height - 3.625" (92)	Minimum R.O.	Width = door width + 3/4" (19) Height = door height + 1/2" (13)	Unobstr. Glass	Single-Panel Width = (door width + 2) - 5.500" (140) Two-Panel Width = door width - 11.000" (279) Height = door height - 8.250" (210)

Patio Door Sidelights



Minimum R.O.	Width = sidelight width + 3/4" (19) Height = sidelight height + 1/2" (13)	Unobstr. Glass	Width = sidelight width - 8.048" (204) Height = sidelight height - 8.048" (204)

Patio Door Transoms



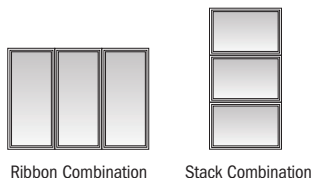
Minimum R.O.	Width = transom width + 3/4" (19) Height = transom height + 3/4" (19)	Unobstr. Glass	Width = transom width - 8.048" (204) Height = transom height - 8.048" (204)

• 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. **Unobstr. Glass** (unobstructed glass) formulas provide dimensions for determining area available for passage of light.

Andersen® windows and patio doors make it easy to create combination designs.

Combination Types

Ribbons are horizontal window combinations (vertical joins) where adjacent ends (head and sill) of individual windows are fastened to the building structure. Stacks are vertical window combinations (horizontal joins) where opposite sides (both side jambs) of individual windows are fastened to the building structure.



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 Performance Grade 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. Compare the local building code design wind load requirement to the design wind load values given for a particular join.

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 joining materials create a joining system that maintains the look of Andersen® products without sacrificing performance. Check with your Andersen supplier for more information.

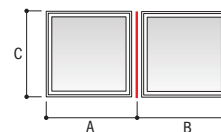
The addition of joining materials will affect the overall rough opening dimension.

See page 98. Instruction guides are available at andersenwindows.com. Read and follow instruction guides in their entirety.

Andersen Trim Strips & End Caps – Interior and exterior trim strips are included with each joining kit. End caps are also included for windows.

1-Way Fiberglass Joining 100 Series: Picture to Picture

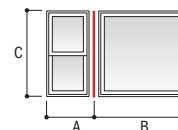
Applicable for flanged or flangeless installations into wood or metal. Ratings for flangeless windows installed into concrete or masonry are lower.



Average Adjacent Window Dimension	(A + B) ÷ 2 = 6'-0" (1829)	40	36	33	31	28	26	25
	(A + B) ÷ 2 = 5'-6" (1676)	40	40	36	33	31	29	27
	(A + B) ÷ 2 = 5'-0" (1524)	40	40	40	37	34	32	30
	(A + B) ÷ 2 = 4'-6" (1372)	40	40	40	40	38	35	33
	(A + B) ÷ 2 = 4'-0" (1219)	40	40	40	40	40	40	37
	(A + B) ÷ 2 = 3'-6" (1067)	40	40	40	40	40	40	40
	(A + B) ÷ 2 = 3'-0" (914)	40	40	40	40	40	40	40
	(A + B) ÷ 2 = 2'-6" (762)	40	40	40	40	40	40	40
	(A + B) ÷ 2 = 2'-0" (610)	40	40	40	40	40	40	40
C = (length of join)		5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)

1-Way Fiberglass Joining 100 Series: Casement to Picture, Awning to Picture, Single-Hung to Picture and Gliding to Picture

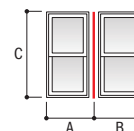
Applicable for flanged or flangeless installations into wood or metal. Ratings for flangeless windows installed into concrete or masonry are lower.



Avg. Adjacent Window Dim.	(A + B) ÷ 2 = 5'-0" (1524)	40	40	40	37	34	32	30
	(A + B) ÷ 2 = 4'-6" (1372)	40	40	40	40	38	34	31
	(A + B) ÷ 2 = 4'-0" (1219)	40	40	40	40	40	37	34
	(A + B) ÷ 2 = 3'-6" (1067)	40	40	40	40	40	40	37
	(A + B) ÷ 2 = 3'-0" (914)	40	40	40	40	40	40	40
	(A + B) ÷ 2 = 2'-6" (762)	40	40	40	40	40	40	40
	(A + B) ÷ 2 = 2'-0" (610)	40	40	40	40	40	40	40
C = (length of join)		5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)

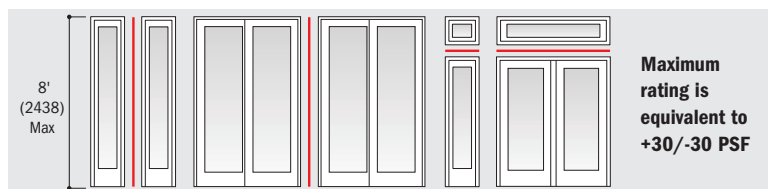
1-Way Fiberglass Joining 100 Series: Casement to Casement, Awning to Awning, Single-Hung to Single-Hung and Gliding to Gliding

Applicable for flanged or flangeless installations into wood or metal. Ratings for flangeless windows installed into concrete or masonry are lower.



Avg. Adj. Window Dim.	(A + B) ÷ 2 = 4'-0" (1219)	40	40	40	40	36	32	30
	(A + B) ÷ 2 = 3'-6" (1067)	40	40	40	40	39	35	32
	(A + B) ÷ 2 = 3'-0" (914)	40	40	40	40	40	40	36
	(A + B) ÷ 2 = 2'-6" (762)	40	40	40	40	40	40	40
	(A + B) ÷ 2 = 2'-0" (610)	40	40	40	40	40	40	40
C = (length of join)		5'-0" (1524)	5'-6" (1676)	6'-0" (1829)	6'-6" (1981)	7'-0" (2134)	7'-6" (2286)	8'-0" (2438)

1-Way LVL Joining 100 Series: Gliding Patio Doors and Patio Door Sidelights and Transoms



- Numerical values in charts represent structural pressure only.
- 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.
- 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.

PRODUCT PERFORMANCE

Andersen® Window and Patio Door Altitude Limits

The chart below gives the altitude limit in feet for 100 Series products. 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 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.

Andersen® Product	3,000			4,000			5,000		6,000	7,000		8,000	9,000	10,000		
100 Series Casement Windows				1620	1650		2020	2050	2660	2626	2656	3056	3030			
				1626	1656		2026	2056		2630	3026	3060	3036			
				1630	1660		2030	2060		2636			3040			
				1636			2036	2620		2640			3046			
				1640			2040	3020		2646			3050			
				1646			2046			2650						
100 Series Awning Windows				1616	2016	4016	2020	3020		2626	4026		3030			
				1620	2616		2026	3620		2630			3630			
				1626	3016		2030	4020		3026			4030			
				1630	3616		2620			3626						
100 Series Single-Hung Windows	1620			1626	1666	3030	2036	2076	2640	2646	3646	3050	3056	3660		
	2020			1630	1670	3626	2040	2636	3040	2650	4046	3650	3060	3666		
	2620			1636	1676	3630	2046	3036	3640	2656		4050	3066	3670		
	3020			1640	2026	4026	2050	3636	4040	2660			3070	3676		
	3620			1646	2030	4030	2056	4036		2666			3076	4060		
	4020			1650	2626		2060			2670			3656	4066		
				1656	2630		2066			2676			4056	4070		
				1660	3026		2070			3046				4076		
100 Series Gliding Windows - XO/OX (active-stationary or stationary-active)	2010	2056	4016	2620	3020	3620	3626	4626	4030	4630	5630	5036	5636	6040		
	2016	2060	4610	2626	3026	4020	3630	5026	4036	4636	6030	5040	5640	6046		
	2020	2610	4616	2630	3030	4620	3636	5626	4040	4640		5046	5646			
	2026	2616	5010	2636	3036	5020	3640	6026	4046	4646		5050	5650			
	2030	3010	5016	2640	3040	5620	3646		4050	4650		5056	6036			
	2036	3016	5610	2646	3046	6020	3650		4056	4656		5066	6050			
	2040	3610	5616	2650	3050		3656		4060	4660		5660	6056			
	2046	3616	6010	2656	3056		3660			5030			6060			
	2050	4010	6016	2660	3060		4026			5060						
100 Series Gliding Windows - XOX (active-stationary-active)				5016	6020		6036	8020	7040	8040	7640	8636	8646	9050	12056	10056
				5020	6026		6040	8620	7046		7646	8640	8650	9056	12060	11060
				5026	6030		6046	9020	7050		7650	9026	8656	9060		12036
				5030	7016		6050	10020	7056		7656	9030	8660	10060		12040
				5036	7616		6056	11020	7060		7660	9036	10030	11030		12046
				5040	8016		6060	12020	7626		8046	9040	10036	11036		
				5046	8616		7020		7630		8050	9046	10040	11040		
				5050	9016		7026		7636		8056	10026	10046	11046		
				5056	10016		7030		8026		8060	11026	10050	11050		
				5060	11016		7036		8030		8626	12026	11056	12030		
				6016	12016		7620		8036		8630		12050			
100 Series Picture, Transom & Specialty Windows	1010	5610		1616	2060	7016	2626			3030			3636	4040	5066	6646
	1016	6010		1620	2066	7020	2630			3036			3640	4046	5070	6650
	1020	6610		1626	2070	7616	2636			3040			3646	4050	5076	6656
	1026	7010		1630	2076	7620	2640			3046			3650	4056	5080	6660
	1030	7610		1636	2080	8016	2646			3050			3656	4060	5640	7040
	1036	8010		1640	2616	8020	2650			3056			3660	4066	5646	7046
	1040			1646	2620		2656			3060			3666	4070	5650	7050
	1046			1650	3016		2660			3066			3670	4076	5656	7056
	1050			1656	3020		2666			3070			3676	4080	5660	7060
	1056			1660	3616		2670			3076			3680	4640	5666	7640
	1060			1666	3620		2676			3080			4036	4646	5670	7646
	1066			1670	4016		2680			3630			4636	4650	5676	7650
	1070			1676	4020		3026			4030			5036	4656	5680	7656
	1076			1680	4616		3626			4630			5636	4660	6040	7660
	1080			2016	4620		4026			5030			6036	4666	6046	8040
	1610			2020	5016		4626			5630			6636	4670	6050	8046
	2010			2026	5020		5026			6030			7036	4676	6055	8050
	2610			2030	5616		5626			6630			7636	4680	6060	8056
	3010			2036	5620		6026			7030			8036	5040	6066	8060
	3610			2040	6016		6626			7630				5046	6070	
	4010			2046	6020		7026			8030				5050	6076	
	4610			2050	6616		7626							5056	6080	
	5010			2056	6620		8026							5060	6640	
100 Series Gliding Patio Doors														5068	6068	8068
														50611	60611	80611
														5080	6080	8080
100 Series Patio Door Sidelights	1368			1668								2068		2668	3068	4068
	13611			16611								20611		26611	30611	40611
	1380			1680								2080		2680	3080	4080
100 Series Patio Door Transoms	1313	2016	5013	2020												
	1316	2613	5016	2620												
	1320	2616	6013	3020												
	1613	3013	6016	4020												
	1616	3016	8013	5020												
	1620	4013	8016	6020												
	2013	4016		8020												

- Deflection of glass will occur on units with larger glass areas.
- Altitude limits for patio doors shown in two-panel configurations. These limits also qualify for same size panels used in single panel configurations.
- **Contact your Andersen supplier for altitude limits for custom-size windows and doors.**
- For NFRC ratings of units with capillary breather tubes, please visit andersenwindow.com.

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 and 2015 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 vary 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/ft²).

(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/ft² · 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) & 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 3-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.

		Andersen Corporation 100 SERIES CASEMENT WINDOW Manufacturer stipulates certification as indicated below.	
STANDARD		RATING	
AAMA/WDMA/CSA 101/I.S.2/A440-11		CLASS LC ⁽¹⁾ – PG40 ⁽²⁾ – SIZE TESTED 71.5 X 71.5 in. ⁽³⁾ DP+40/-45 ⁽⁴⁾	
AAMA/WDMA/CSA 101/I.S.2/A440-08		CLASS LC ⁽¹⁾ – PG40 ⁽²⁾ – SIZE TESTED 71.5 X 71.5 in. ⁽³⁾ DP+40/-45 ⁽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 40 pounds per square foot (psf) and the size tested is 71.5" x 71.5". What this means to the specifier is, based on the performance grade chart, the laboratory tested air infiltration was less than 0.3 cfm/ft² (test pressure is always 1.57 psf and the allowable airflow is 0.3 cfm/ft²), the product tested successfully resisted a laboratory water penetration test at a test pressure of 60 psf, the product tested successfully withstood a laboratory positive test pressure of 60 psf, a laboratory negative test pressure of 67 psf and the product tested passed the laboratory requirements for operational force and forced entry resistance. Based on this test, all products smaller in both width and height 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 40 performance grade rating, which passes a 40 psf design pressure, should be used for determining code compliance, not the structural test pressure of 60 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: 312-673-4828 Web: 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.

PRODUCT PERFORMANCE

Performance Grade, Air Infiltration and Sound Transmission Ratings — 100 Series Windows and 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)	STANDARD GLASS		STC UPGRADE GLASS		Air Infiltration CFM/FT²
			Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)	
Casement Windows							
Single & Twin (venting/stationary)	Class LC-PG40 Size Tested 71.5" x 71.5"	+40/-40	30	25	33	28	< 0.2
Picture with Flanking Casements	Class LC-PG40 Size Tested 143.5" x 71.5"	+40/-40	-	-	-	-	< 0.2
Awning Windows							
Single & Twin (venting/stationary)	Class LC-PG40 Size Tested 47.5" x 95.5"	+40/-40	30	25	33	28	< 0.2
Picture over Awning	Class LC-PG40 Size Tested 47.5" x 95.5"	+40/-40	-	-	-	-	< 0.2
Single-Hung Windows							
Arch Single-Hung	Class LC-PG30 Size Tested 41.5" x 95.0"	+30/-30	-	-	-	-	< 0.2
Single-Hung	Class LC-PG30 Size Tested 47.5" x 89.5"	+30/-30	25	21	32	26	< 0.2
Twin & Triple Single-Hung	Class LC-PG30 Size Tested 143.5" x 71.5"	+30/-30	-	-	-	-	< 0.2
Transom over Single-Hung	Class LC-PG30 Size Tested 47.5" x 95.5"	+30/-30	-	-	-	-	< 0.2
Picture with Flanking Single-Hungs	Class LC-PG30 Size Tested 143.5" x 71.5"	+30/-30	-	-	-	-	< 0.2
Gliding Windows							
Gliding - XO/OX (active-stationary or stationary-active)	Class LC-PG30 Size Tested 71.5" x 71.5"	+30/-30	25	21	32	27	< 0.2
Picture over Gliding - XO/OX	Class LC-PG30 Size Tested 143.5" x 71.5"	+30/-30	-	-	-	-	< 0.2
Gliding - XOX (active-stationary-active)	Class LC-PG30 Size Tested 107.5" x 83.5"	+30/-30	-	-	-	-	< 0.2
Picture over Gliding - XOX	Class LC-PG30 Size Tested 59.5" x 83.5"	+30/-30	-	-	-	-	< 0.2
Picture, Transom & Specialty Windows	Class LC-PG40 Size Tested 95.5" x 84.3"	+40/-40	29	24	32	27	< 0.2
Gliding Patio Doors	Class LC-PG30 Size Tested 95.3" x 95.5"	+30/-30	28	23	29	26	< 0.2
Patio Door Transoms	Class LC-PG30 Size Tested 95.3" x 23.3"	+30/-30	29	24	31	26	< 0.2
Patio Door Sidelights	Class LC-PG30 Size Tested 47.3" x 95.3"	+30/-30	29	24	31	26	< 0.2

- *Performance Grade (PG)* ratings may vary from tested performance rating for larger or smaller units of a particular type.
- *Sound Transmission Class (STC)* & *Outdoor/Indoor Transmission Class (OITC)* ratings are for individual units based on independent tests and represent entire unit.
- This data is accurate as of February 2018. 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.

Center of Glass Performance Data — 100 Series Windows and Patio Doors

For current performance information please visit andersenwindows.com.

Andersen® Product and Glass Type	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
					Tuv ⁵	Tdw ⁶		
High-Performance Low-E Glass								
Casement, Awning, Single-Hung and Gliding Windows	72%	0.48	0.41	98.2	16%	33%	61%	55.7
Picture, Transom & Specialty Windows	72%	0.47	0.41	97.5	16%	33%	60%	55.3
Gliding Patio Doors	72%	0.47	0.41	97.5	16%	33%	60%	55.3
Patio Door Sidelights & Transoms	72%	0.47	0.41	97.5	16%	33%	60%	55.3
High-Performance Low-E SmartSun™ Glass								
Casement, Awning, Single-Hung and Gliding Windows	65%	0.31	0.27	65.6	5%	21%	62%	56.1
Picture, Transom & Specialty Windows	65%	0.31	0.27	64.9	5%	21%	61%	55.7
Gliding Patio Doors	65%	0.31	0.27	64.9	5%	21%	61%	55.7
Patio Door Sidelights & Transoms	65%	0.31	0.27	64.9	5%	21%	61%	55.7
Dual-Pane Glass								
Casement, Awning, Single-Hung and Gliding Windows	82%	0.89	0.78	186	58%	61%	39%	43.7
Picture, Transom & Specialty Windows	82%	0.89	0.78	186	58%	61%	39%	43.6
Gliding Patio Doors	82%	0.89	0.78	186	58%	61%	39%	43.6
Patio Door Sidelights & Transoms	82%	0.89	0.78	186	58%	61%	39%	43.6

- *Low-E SmartSun* is an Andersen trademark for a type of "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 defines the amount of heat gain through the glass compared to a single lite of clear 1/8" (3 mm) glass. 3) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the glass. 4) Relative Heat Gain 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 October 2016. 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 center of glass performance data on windows with laminated glass, patterned glass, tempered glass and products ordered with capillary breather tubes.

Andersen® NFRC Certified Total Unit Performance

For current performance information please visit andersenwindows.com.

Andersen® Product		High-Performance Glass Type	U-Factor ¹	SHGC ²	VT ³
100 Series Casement Windows AND-N-84 2.2 mm glass	HP Low-E	Without Grilles	0.27	0.28	0.48
		Simulated Divided Light Grilles	0.27	0.26	0.43
		Finelight™ Grilles	0.27	0.26	0.43
		Finelight with Exterior Applied Grilles	0.27	0.26	0.43
		Full Divided Light Grilles	0.28	0.26	0.43
	HP Low-E w/HeatLock™	Without Grilles	0.24	0.28	0.47
		Simulated Divided Light Grilles	0.24	0.25	0.42
		Finelight™ Grilles	0.24	0.25	0.42
		Finelight with Exterior Applied Grilles	0.24	0.25	0.42
		Full Divided Light Grilles	0.25	0.25	0.42
	HP Low-E SmartSun™	Without Grilles	0.27	0.19	0.43
		Simulated Divided Light Grilles	0.27	0.17	0.39
		Finelight™ Grilles	0.27	0.17	0.39
		Finelight with Exterior Applied Grilles	0.27	0.17	0.39
		Full Divided Light Grilles	0.28	0.17	0.39
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.24	0.18	0.42
		Simulated Divided Light Grilles	0.24	0.17	0.38
		Finelight™ Grilles	0.24	0.17	0.38
		Finelight with Exterior Applied Grilles	0.24	0.17	0.38
		Full Divided Light Grilles	0.25	0.17	0.38
	Dual-Pane	Without Grilles	0.41	0.53	0.55
		Simulated Divided Light Grilles	0.41	0.48	0.49
		Finelight™ Grilles	0.41	0.48	0.49
		Finelight with Exterior Applied Grilles	0.41	0.48	0.49
		Full Divided Light Grilles	0.42	0.48	0.49
100 Series Awning Windows AND-N-85 2.2 mm glass	HP Low-E	Without Grilles	0.28	0.28	0.48
		Simulated Divided Light Grilles	0.28	0.26	0.43
		Finelight™ Grilles	0.28	0.26	0.43
		Finelight with Exterior Applied Grilles	0.28	0.26	0.43
		Full Divided Light Grilles	0.28	0.26	0.43
	HP Low-E w/HeatLock™	Without Grilles	0.25	0.28	0.47
		Simulated Divided Light Grilles	0.25	0.25	0.42
		Finelight™ Grilles	0.25	0.25	0.42
		Finelight with Exterior Applied Grilles	0.25	0.25	0.42
		Full Divided Light Grilles	0.26	0.25	0.42
	HP Low-E SmartSun™	Without Grilles	0.27	0.19	0.43
		Simulated Divided Light Grilles	0.27	0.17	0.39
		Finelight™ Grilles	0.27	0.17	0.39
		Finelight with Exterior Applied Grilles	0.27	0.17	0.39
		Full Divided Light Grilles	0.28	0.17	0.39
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.24	0.18	0.42
		Simulated Divided Light Grilles	0.24	0.17	0.38
		Finelight™ Grilles	0.24	0.17	0.38
		Finelight with Exterior Applied Grilles	0.24	0.17	0.38
		Full Divided Light Grilles	0.25	0.17	0.38
	Dual-Pane	Without Grilles	0.42	0.53	0.55
		Simulated Divided Light Grilles	0.42	0.48	0.49
		Finelight™ Grilles	0.42	0.48	0.49
		Finelight with Exterior Applied Grilles	0.42	0.48	0.49
		Full Divided Light Grilles	0.42	0.48	0.49
100 Series Single-Hung Windows AND-N-80 2.2 mm glass	HP Low-E	Without Grilles	0.30	0.32	0.54
		Simulated Divided Light Grilles	0.30	0.28	0.48
		Finelight™ Grilles	0.30	0.28	0.48
		Finelight with Exterior Applied Grilles	0.30	0.28	0.48
		Full Divided Light Grilles	0.31	0.28	0.48
	HP Low-E w/HeatLock™	Without Grilles	0.26	0.31	0.53
		Simulated Divided Light Grilles	0.26	0.28	0.47
		Finelight™ Grilles	0.26	0.28	0.47
		Finelight with Exterior Applied Grilles	0.26	0.28	0.47
		Full Divided Light Grilles	0.28	0.28	0.47
	HP Low-E SmartSun™	Without Grilles	0.29	0.21	0.49
		Simulated Divided Light Grilles	0.29	0.19	0.43
		Finelight™ Grilles	0.29	0.19	0.43
		Finelight with Exterior Applied Grilles	0.29	0.19	0.43
		Full Divided Light Grilles	0.30	0.19	0.43
	Low-E 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
		Finelight with Exterior Applied Grilles	0.25	0.19	0.42
		Full Divided Light Grilles	0.27	0.19	0.42
	Dual-Pane	Without Grilles	0.46	0.59	0.62
		Simulated Divided Light Grilles	0.46	0.53	0.55
		Finelight™ Grilles	0.46	0.53	0.55
		Finelight with Exterior Applied Grilles	0.46	0.53	0.55
		Full Divided Light Grilles	0.46	0.53	0.55

Andersen® NFRC Certified Total Unit Performance

For current performance information please visit andersenwindows.com.

Andersen® Product		High-Performance Glass Type	U-Factor ¹	SHGC ²	VT ³
100 Series Gliding Windows AND-N-81 2.2 mm glass	HP Low-E	Without Grilles	0.30	0.32	0.54
		Simulated Divided Light Grilles	0.30	0.28	0.48
		Finelight™ Grilles	0.30	0.28	0.48
		Finelight with Exterior Applied Grilles	0.30	0.28	0.48
		Full Divided Light Grilles	0.31	0.28	0.48
	HP Low-E w/HeatLock™	Without Grilles	0.26	0.31	0.53
		Simulated Divided Light Grilles	0.26	0.28	0.47
		Finelight™ Grilles	0.26	0.28	0.47
		Finelight with Exterior Applied Grilles	0.26	0.28	0.47
		Full Divided Light Grilles	0.28	0.28	0.47
	HP Low-E SmartSun™	Without Grilles	0.29	0.21	0.49
		Simulated Divided Light Grilles	0.29	0.19	0.43
		Finelight™ Grilles	0.29	0.19	0.43
		Finelight with Exterior Applied Grilles	0.29	0.19	0.43
		Full Divided Light Grilles	0.30	0.19	0.43
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.26	0.20	0.47
		Simulated Divided Light Grilles	0.26	0.19	0.42
		Finelight™ Grilles	0.26	0.19	0.42
		Finelight with Exterior Applied Grilles	0.26	0.19	0.42
		Full Divided Light Grilles	0.27	0.19	0.42
	Dual-Pane	Without Grilles	0.46	0.60	0.62
		Simulated Divided Light Grilles	0.46	0.53	0.55
		Finelight™ Grilles	0.46	0.53	0.55
		Finelight with Exterior Applied Grilles	0.46	0.53	0.55
		Full Divided Light Grilles	0.46	0.53	0.55
100 Series Picture & Specialty Windows AND-N-82 3.0 mm glass	HP Low-E	Without Grilles	0.28	0.33	0.56
		Simulated Divided Light Grilles	0.28	0.29	0.50
		Finelight™ Grilles	0.28	0.29	0.50
		Finelight with Exterior Applied Grilles	0.28	0.29	0.50
		Full Divided Light Grilles	0.29	0.29	0.50
	HP Low-E 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
		Finelight with Exterior Applied Grilles	0.24	0.29	0.49
		Full Divided Light Grilles	0.25	0.29	0.49
	HP Low-E SmartSun™	Without Grilles	0.27	0.22	0.50
		Simulated Divided Light Grilles	0.27	0.20	0.45
		Finelight™ Grilles	0.27	0.20	0.45
		Finelight with Exterior Applied Grilles	0.27	0.20	0.45
		Full Divided Light Grilles	0.28	0.20	0.45
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.23	0.21	0.49
		Simulated Divided Light Grilles	0.23	0.19	0.44
		Finelight™ Grilles	0.23	0.19	0.44
		Finelight with Exterior Applied Grilles	0.23	0.19	0.44
		Full Divided Light Grilles	0.25	0.19	0.44
	Dual-Pane	Without Grilles	0.45	0.61	0.64
		Simulated Divided Light Grilles	0.45	0.55	0.57
		Finelight™ Grilles	0.45	0.55	0.57
		Finelight with Exterior Applied Grilles	0.45	0.55	0.57
		Full Divided Light Grilles	0.45	0.55	0.57
100 Series Transom Windows AND-N-83 3.0 mm glass	HP Low-E	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
		Finelight with Exterior Applied Grilles	0.29	0.30	0.50
		Full Divided Light Grilles	0.30	0.30	0.50
	HP Low-E w/HeatLock™	Without Grilles	0.25	0.32	0.55
		Simulated Divided Light Grilles	0.25	0.29	0.49
		Finelight™ Grilles	0.25	0.29	0.49
		Finelight with Exterior Applied Grilles	0.25	0.29	0.49
		Full Divided Light Grilles	0.27	0.29	0.49
	HP Low-E SmartSun™	Without Grilles	0.28	0.22	0.50
		Simulated Divided Light Grilles	0.28	0.20	0.45
		Finelight™ Grilles	0.28	0.20	0.45
		Finelight with Exterior Applied Grilles	0.28	0.20	0.45
		Full Divided Light Grilles	0.30	0.20	0.45
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.24	0.21	0.49
		Simulated Divided Light Grilles	0.24	0.19	0.44
		Finelight™ Grilles	0.24	0.19	0.44
		Finelight with Exterior Applied Grilles	0.24	0.19	0.44
		Full Divided Light Grilles	0.26	0.19	0.44
	Dual-Pane	Without Grilles	0.46	0.61	0.64
		Simulated Divided Light Grilles	0.46	0.55	0.57
		Finelight™ Grilles	0.46	0.55	0.57
		Finelight with Exterior Applied Grilles	0.46	0.55	0.57
		Full Divided Light Grilles	0.46	0.55	0.57

• This data is accurate as of October 2016. 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.

continued on next page

Combination Designs,
Product Performance,
Installation & Warranty

PRODUCT PERFORMANCE

Andersen® NFRC Certified Total Unit Performance (continued)
For current performance information please visit andersenwindows.com.

Andersen® Product		High-Performance Glass Type	U-Factor ¹	SHGC ²	VT ³
100 Series Gliding Patio Doors AND-N-100 3.1 mm glass	HP Low-E	Without Grilles	0.30	0.32	0.55
		Simulated Divided Light Grilles	0.30	0.25	0.42
		Finelight™ Grilles	0.30	0.29	0.48
		Finelight with Exterior Applied Grilles	0.30	0.25	0.42
		Full Divided Light Grilles	0.31	0.25	0.42
	HP Low-E w/HeatLock™	Without Grilles	0.25	0.32	0.54
		Simulated Divided Light Grilles	0.25	0.25	0.41
		Finelight™ Grilles	0.25	0.28	0.47
		Finelight with Exterior Applied Grilles	0.25	0.25	0.41
		Full Divided Light Grilles	0.28	0.25	0.41
	HP Low-E SmartSun™	Without Grilles	0.29	0.21	0.50
		Simulated Divided Light Grilles	0.29	0.17	0.38
		Finelight™ Grilles	0.29	0.19	0.44
		Finelight with Exterior Applied Grilles	0.29	0.17	0.38
		Full Divided Light Grilles	0.30	0.17	0.38
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.25	0.21	0.49
		Simulated Divided Light Grilles	0.25	0.17	0.37
		Finelight™ Grilles	0.25	0.19	0.43
		Finelight with Exterior Applied Grilles	0.25	0.17	0.37
		Full Divided Light Grilles	0.27	0.17	0.37
	Dual-Pane	Without Grilles	0.46	0.60	0.63
		Simulated Divided Light Grilles	0.46	0.46	0.48
		Finelight™ Grilles	0.46	0.53	0.55
		Finelight with Exterior Applied Grilles	0.46	0.46	0.48
		Full Divided Light Grilles	0.46	0.46	0.48
100 Series Patio Door Transoms AND-N-98 3.0 mm glass	HP Low-E	Without Grilles	0.32	0.25	0.43
		Simulated Divided Light Grilles	0.32	0.20	0.34
		Finelight™ Grilles	0.32	0.23	0.38
		Finelight with Exterior Applied Grilles	0.32	0.20	0.34
		Full Divided Light Grilles	0.32	0.20	0.34
	HP Low-E w/HeatLock™	Without Grilles	0.29	0.25	0.42
		Simulated Divided Light Grilles	0.29	0.20	0.33
		Finelight™ Grilles	0.29	0.22	0.37
		Finelight with Exterior Applied Grilles	0.29	0.20	0.33
		Full Divided Light Grilles	0.30	0.20	0.33
	HP Low-E SmartSun™	Without Grilles	0.31	0.17	0.38
		Simulated Divided Light Grilles	0.31	0.14	0.30
		Finelight™ Grilles	0.31	0.15	0.34
		Finelight with Exterior Applied Grilles	0.31	0.14	0.30
		Full Divided Light Grilles	0.32	0.14	0.30
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.28	0.17	0.37
		Simulated Divided Light Grilles	0.28	0.14	0.29
		Finelight™ Grilles	0.28	0.15	0.33
		Finelight with Exterior Applied Grilles	0.28	0.14	0.29
		Full Divided Light Grilles	0.29	0.14	0.29
	Dual-Pane	Without Grilles	0.45	0.47	0.49
		Simulated Divided Light Grilles	0.45	0.38	0.38
		Finelight™ Grilles	0.45	0.42	0.43
		Finelight with Exterior Applied Grilles	0.45	0.38	0.38
		Full Divided Light Grilles	0.44	0.38	0.38
100 Series Patio Door Sidelights AND-N-97 3.0 mm glass	HP Low-E	Without Grilles	0.31	0.25	0.43
		Simulated Divided Light Grilles	0.31	0.21	0.34
		Finelight™ Grilles	0.31	0.23	0.38
		Finelight with Exterior Applied Grilles	0.31	0.21	0.34
		Full Divided Light Grilles	0.32	0.21	0.34
	HP Low-E w/HeatLock™	Without Grilles	0.28	0.25	0.42
		Simulated Divided Light Grilles	0.28	0.20	0.33
		Finelight™ Grilles	0.28	0.22	0.37
		Finelight with Exterior Applied Grilles	0.28	0.20	0.33
		Full Divided Light Grilles	0.29	0.20	0.33
	HP Low-E SmartSun™	Without Grilles	0.31	0.17	0.38
		Simulated Divided Light Grilles	0.31	0.14	0.30
		Finelight™ Grilles	0.31	0.15	0.34
		Finelight with Exterior Applied Grilles	0.31	0.14	0.30
		Full Divided Light Grilles	0.31	0.14	0.30
	Low-E SmartSun™ w/HeatLock™	Without Grilles	0.27	0.17	0.38
		Simulated Divided Light Grilles	0.27	0.14	0.30
		Finelight™ Grilles	0.27	0.15	0.33
		Finelight with Exterior Applied Grilles	0.27	0.14	0.30
		Full Divided Light Grilles	0.29	0.14	0.30
	Dual-Pane	Without Grilles	0.44	0.47	0.49
		Simulated Divided Light Grilles	0.44	0.38	0.39
		Finelight™ Grilles	0.44	0.42	0.44
		Finelight with Exterior Applied Grilles	0.44	0.38	0.39
		Full Divided Light Grilles	0.43	0.38	0.39

Andersen® Products Total Unit Recycled Content Percentages
For current performance information please visit andersenwindows.com.

Andersen® Product	NFRC Rated Window Size	% Pre-Consumer Recycled Content
100 Series Windows and Patio Doors		
Casement Windows	24" (610) x 59" (1499)	23%
Awning Windows	59" (1499) x 24" (610)	24%
Single-Hung Windows	47" (1194) x 59" (1499)	20%
Gliding Windows	59" (1499) x 47" (1194)	21%
Picture Windows	47" (1194) x 59" (1499)	18%
Gliding Patio Doors	79" (2007) x 79" (2007)	14%
Patio Door Sidelights	24" (610) x 79" (2007)	18%
Patio Door Transoms	79" (2007) x 24" (610)	21%

- "% Pre-Consumer Recycled Content" is verified by SCS Global Services (SCS) to meet I.S.O 14021 standards based on NFRC sizing. Actual recycled content dependent on product size.
- Dimensions in parentheses are in millimeters.

- "SmartSun" 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 both directly transmitted and 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 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 October 2016. 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 unit size, use of tempered glass, different grille options, glass for high altitudes, etc.
- Values are for single units with given pane thickness and 3/4" (19mm) grilles for windows and 1" (25mm) grilles for door products.

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, Tel: (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.

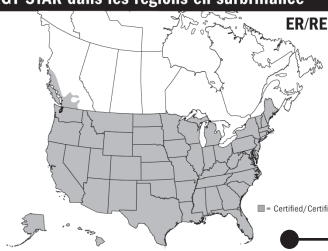
U-Factor indicates how well a product prevents heat from escaping (the lower the number, the better).

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 a third-party testing laboratory.

Test Standards

Do not remove until final code inspection. Save label for future reference.

ENERGY STAR® Certified in Highlighted Regions Certifié ENERGY STAR dans les régions en surbrillance									
Canada energystar.gc.ca  ENERGY STAR U.S. / É.U. energystar.gov	ER/RE 18 								
DO NOT REMOVE UNTIL FINAL INSPECTION/NE PAS RETIRER AVANT L'INSPECTION FINALE									
 National Fenestration Rating Council® CERTIFIED	Andersen 100 Series Single Hung Window AND-N-80-00883-00001 Fibrex Composite Frame, Low-E SmartSun HeatLock with Argon Product Type: Vertical Slider								
ENERGY PERFORMANCE RATINGS									
U-Factor 0.25 (U.S./IP)	Solar Heat Gain Coefficient 0.20								
ADDITIONAL PERFORMANCE RATINGS									
Visible Transmittance 0.47									
Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org									
 WDMA Hallmark Certified www.wdma.com	Licensee: 129-H-899 Andersen Corporation 100 Series Single Hung Window Manufacturer stipulates Hallmark Certification as indicated below.								
<table border="1"> <thead> <tr> <th>STANDARD</th> <th>RATING</th> </tr> </thead> <tbody> <tr> <td>AMA/WDMA/CSA 101/IS.2/A440-11</td> <td>Class LC-PG 30 Size Tested 143.5" X 71.5" DP+30/-30</td> </tr> <tr> <td>AMA/WDMA/CSA 101/IS.2/A440-08</td> <td>Class H-LC30 Size Tested 143.5" X 71.5" DP+30/-30</td> </tr> <tr> <td>AMA/WDMA/CSA 101/IS.2/A440-08 A440S1-09</td> <td>Class H-LC1440 - 3645mm x 1816mm Positive/Negative Design Pressure (DP) = 1440 Pa/-1440 Pa Water Penetration Resistance Test Pressure = 220 Pa Canadian Air Infiltration/Exfiltration = A3</td> </tr> </tbody> </table>	STANDARD	RATING	AMA/WDMA/CSA 101/IS.2/A440-11	Class LC-PG 30 Size Tested 143.5" X 71.5" DP+30/-30	AMA/WDMA/CSA 101/IS.2/A440-08	Class H-LC30 Size Tested 143.5" X 71.5" DP+30/-30	AMA/WDMA/CSA 101/IS.2/A440-08 A440S1-09	Class H-LC1440 - 3645mm x 1816mm Positive/Negative Design Pressure (DP) = 1440 Pa/-1440 Pa Water Penetration Resistance Test Pressure = 220 Pa Canadian Air Infiltration/Exfiltration = A3	Performance Grade (PG) and Design Pressure (DP) Ratings
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FL 15906 Glazing: 2.2mm AN outer/2.2mm AN inner	Glass Construction used with this product type								
Complies with HUD UM Bulletin No. 111 21357190.3.2									
Meets or exceeds CEC & IECC Air Infiltration Requirements of 0.2 CFM/sq.ft. or lower. WDMA Hallmark Certification Program									

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.

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).

• 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.



THE ENVIRONMENT HAS A BUSINESS PARTNER

Respect for the environment is nothing new at Andersen. For more than a century, it's 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 our resources. Andersen is committed to providing you with long-lasting, energy-efficient windows and doors. Visit andersencorporation.com/sustainability for more information.



Andersen® products are certified under the National Fenestration Rating Council's voluntary third-party certification program designed to ensure accurate energy performance ratings and labeling.



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 Corporation is proud to be an ENERGY STAR® partner. 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.



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 the 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.

*Visit andersenwindows.com/warranty for details.
All logos and marks are trademarks of their respective owners.

Andersen® windows and doors can make significant contributions to the success of sustainable design strategies.

As a charter member of the U.S. Green Building Council, we are active supporters of certified green buildings. Our products may assist 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 you will find a high-level 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

Andersen windows and patio doors may assist project teams in pursuing the following credits in the **LEED v4 BD+C: New Construction** rating system.

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 MULTIFAMILY MIDRISE

Andersen windows and patio doors may assist project teams in pursuing the following credits in the **LEED v4 BD+C: Homes** rating system.

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

NAHB NATIONAL GREEN BUILDING STANDARD

The NAHB National Green Building Standard, now called the ICC 700-2015 National Green Building Standard, is ANSI (American National Standards Institute) approved, and was written in collaboration with the International Code Council, and is a comprehensive green building rating system. Each category contains multiple credit point standards for a project team to consider during design, construction, and function of the building. The credit points are then

compiled in order to achieve one of four levels of certification: Bronze, Silver, Gold or Emerald.

Andersen windows and patio doors may assist your project strategy in the following NAHB National Green Building Standard credits:

Site Design & Development

Lot Design, Preparation & Development

Resource Efficiency

- Windows and doors not requiring paint or stain
- Flashing details
- Construction materials recycled off-site
- Wood-based products from certified forestry
- Innovative practices

Energy Efficiency

- Minimum energy requirements (mandatory)
- Fenestration (mandatory)
- Better energy requirements - performance path
- Better fenestration
- Additional practices - daylighting through roof
- Additional practices - renewable energy

Water Efficiency

Indoor Environmental Quality

- Pollutant source control - formaldehyde
- Pollutant source control - interior architectural coatings
- Pollutant source control - interior adhesives and sealants

Operation, Maintenance & Building Owner Education

- Homeowner's binder
- Building construction manual

Based on ICC 700-2015 National Green Building Standard.

INSTALLATION ACCESSORIES

Listed are optional accessories available for the installation of Andersen® windows and doors. You'll also find key considerations regarding the use and installation of every Andersen product. Keep the instruction guidelines and safety information in mind when considering the installation and use of any Andersen product. Should you have any questions, contact your local Andersen supplier. Thank you for considering and using Andersen products.

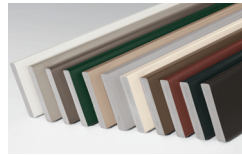
CONTINUOUS DRIP CAP

Heavy 24-gauge corrosion-resistant aluminum construction in two profiles to match frames. Available in 6' (1829), 10' (3048) and 12'-7 1/8" (3848) lengths and in matching colors.

COLOR-MATCHED SEALANT

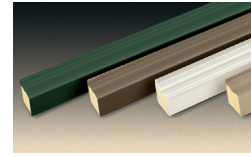
Color-matched sealant is available in Andersen exterior colors. This high-quality sealant can be used during the installation of all Andersen products.

FIBREX® TRIM BOARD



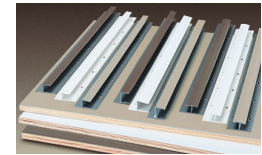
Andersen offers a 3 1/2" (89) wide by 3/4" (19) thick cellular Fibrex trim board in 10' (3048) lengths. Available in 11 colors, this solid trim board can be cut or ripped to size and can be fastened using nails or screws.

AUXILIARY CASING



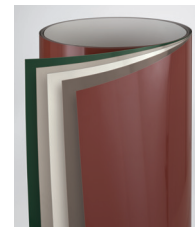
Auxiliary casing is made of cellular Fibrex material. Available in White, Canvas, Sandtone, Terratone, Forest Green, Dark Bronze and Black colors. Dimensions are 1 3/16" (30) by 1 13/16" (30) in 150" (3810) lengths.

VINYL CHANNELS AND LAMINATED BOARD



Rigid vinyl "J," "h" and "H" channel and vinyl laminated board.

	COLOR	LENGTH	DEPTH	WIDTH
Fibrex Trim Board	11 colors	120" (3048)	3/4" (19)	3 1/2" (89)
Auxiliary Casing	6 colors	150" (3810)	1 3/16" (30)	1 13/16" (30)
Vinyl Laminated Board	W,S,T	96" (2438)	1/2" (13)	24" (610)
	W	96" (2438) & 120" (3048)	1/2" (13)	48" (1219)
Rigid Vinyl "H" Channel	W	84" (2134) & 150" (3810)	3/4" (19)	1" (25)
	S,T	84" (2134) & 150" (3810)	3/4" (19)	3/4" (19)
Rigid Vinyl "h" Channel	W,S,T	150" (3810)	1/2" (13)	1" (25)
Rigid Vinyl "J" Channel	W,S,T	150" (3810)	1/2" (13)	3/4" (19)



COIL STOCK

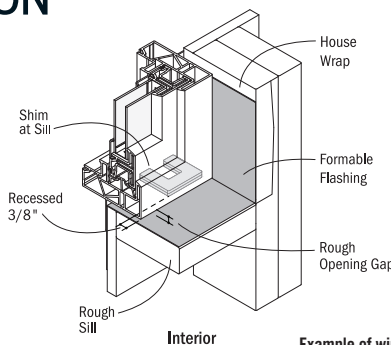
Andersen aluminum coil stock can be ordered in 11 colors. Made from .018-thick aluminum, coil stock is available in 24" (610) x 50" (15240) rolls. Color-matched 1 1/4" (32) stainless steel trim nails are also available and can be ordered in 1 lb or .454 kg boxes.

INSTALLATION INFORMATION

ROUGH OPENINGS

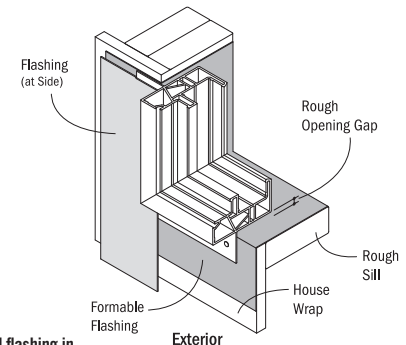
The purpose of a rough opening is to allow for proper spacing between the window or patio door unit and the building structure. The space is required for locating, leveling and squaring the unit during installation and to provide an area for insulation. A rough opening that is incorrectly sized may affect unit operation and may not allow for adequate fastening of the unit to the building structure. Andersen minimum 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 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).

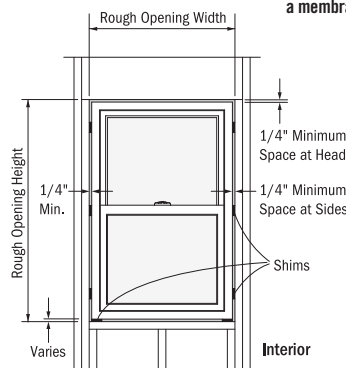


Interior

Example of window sill flashing in a membrane drainage system.

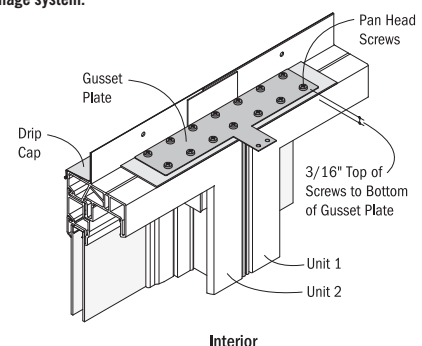


Exterior



Interior

Example of window unit installed using Andersen published minimum rough opening dimensions.



Interior

Example of two units joined together with the use of gusset plates and pan head screws that will require additional rough opening space. Rough opening for joined units must be a minimum of 3/4" (19) plus the overall joined window dimensions.

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.

• Dimensions in parentheses are in millimeters.

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.

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 89-95. 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 that is 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 often 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 only under the sill at the side jambs to lift it off the rough sill. 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 $1/4"$ (6) or more than $1/2"$ (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 plumb.
7. Install the window level.
8. Install the window square. Diagonal measurements should be within $1/8"$ (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.
10. Check for squareness of unit before final anchoring of the product into the wall.
11. Anchor window as directed with appropriate fasteners.
12. Integrate the window 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 $1/4"$ (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 frame and the rough opening.
15. Check unit operation before application of interior trim.

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.

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 patio 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 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 89 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 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: 1-800-313-8889 Email: lofk@andersencorp.com

**Look
OUT!**
for kids®

Combination Designs,
Product Performance,
Installation & Warranty

• Dimensions in parentheses are in millimeters.

Andersen® WINDOWS • DOORS 

Limited Warranty

100 SERIES
**OWNER2OWNER
LIMITED WARRANTY**

Para ver la versión, en español, de esta Garantía limitada y Proceso de resolución de controversias, visite andersenwindows.com

LIMITED WARRANTY AND DISPUTE RESOLUTION PROCESS

IMPORTANT: Please carefully read the Dispute Resolution Process that appears in this document after the Limited Warranty. The Dispute Resolution Process includes class action and jury trial waivers that affect your legal rights. To opt out of these waivers, you must visit our website at www.andersenwindows.com/optout and complete the opt-out form within one year from the date of purchase of your Andersen® products from a dealer or retailer. The opt-out only applies to the terms of the Dispute Resolution Process.

100 Series Windows & Doors Limited Warranty

Transferable Limited Warranty on Glass

The glass in Andersen® 100 Series factory glazed window and door units (including dual-pane glass, Low-E glass, SmartSun™ glass, Heatlock™ glass, PassiveSun® glass, patterned glass (including obscure, fern, reed and cascade designs), Finelight™ grilles, and tempered versions of these glass options) is warranted to be free from defects in manufacturing, materials and workmanship for twenty (20) years from the date of purchase from the retailer/dealer. It is also warranted not to develop, under normal conditions, any material obstruction of vision resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for twenty (20) years from the date of purchase from the retailer/dealer. Patterned glass (including obscure, fern, reed and cascade designs) is warranted not to develop, under normal conditions, any material change in appearance resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for twenty (20) years from the date of purchase from the retailer/dealer. This limited warranty on glass does not apply to special order glazings, impact-resistant glass or glass that is not factory installed by Andersen.

In the event a glass failure occurs as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide the appropriate replacement glass product to the Andersen retailer/dealer you specify — labor is not included; or (2) provide a factory-authorized repair to the existing glass at no cost to you; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

Transferable Limited Warranty on Components Other Than Glass

Non-glass portions of Andersen® 100 Series windows and doors (including non-electric operators, locks, lifts, balance systems, hinges, handles, insect screens, weatherstripping, exterior trim, sash and frame members) are warranted to be free from defects in manufacturing, materials and workmanship for a period of ten (10) years from the date of purchase from the retailer/dealer. This limited warranty does not apply to finishes on bright brass and satin nickel hardware.

In the event a component other than glass fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Andersen, at its option, will: (1) provide replacement parts to the Andersen retailer/dealer you specify — labor is not included; or (2) provide a factory authorized repair to the existing component at no cost to you; or (3) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

Transferable Limited Warranty on Exterior Color Finish

The color finish on the Fibrex® material exterior components (frame, sash, panel, window sills and grilles) on Andersen® 100 Series casement, awning, single-hung, gliding, picture, transom windows, specialty windows and patio doors is warranted to be free from manufacturing defects resulting in color fade greater than 5 delta E* measured in accordance with ASTM D2244 for a period of ten (10) years from the date of purchase from the retailer/dealer.

What is not covered by this exterior color finish warranty: weatherstripping, accessories and hardware, including insect screen frames, patio door sills, hinges, handles, trim sets and lock components, exterior trim profiles and exterior aluminum coil stock.

In the event there is a defect covered by this limited warranty for exterior color finish within the limited warranty period, Andersen, at its option, will: 1) refinish the product - labor is included (the finish will be applied with standard commercial refinishing techniques and may not be the same finish as originally applied to the product), 2) repair the product, 3) provide replacement part(s) or product(s) to the Andersen retailer/dealer you specify - labor is not included or 4) refund the original purchase price. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

*Technical measurement of color fade

No Other Warranties or Representations

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTIES ARE LIMITED TO THE APPLICABLE STATUTE OF LIMITATIONS BUT IN NO CASE WILL EXTEND BEYOND THE LIMITED WARRANTY PERIODS SPECIFIED ABOVE. ANDERSEN EXCLUDES AND WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF CONTRACT, TORT OR OTHERWISE. THE REMEDY OF REPAIR, REPLACEMENT OR REFUND OF THE ACTUAL PURCHASE PRICE OF THE PRODUCT PROVIDED BY THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSS OR DAMAGE.

Applicable Law

This Limited Warranty is only applicable in the U.S.A. (i.e. the fifty states and the District of Columbia). This Limited Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of an implied warranty, so the above limitations or exclusions may not apply to you. If any specific term of this Limited Warranty is prohibited by any applicable law, it shall be null and void, but the remainder of this Limited Warranty shall remain in full force and effect.

What is NOT covered by this Limited Warranty

In addition to any other limitations or exclusions in this Limited Warranty, Andersen shall have no obligation for product failure, damage or costs due to or related to the following:

- Product modifications or glass shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated coverings, etc.).
- Units improperly assembled or improperly mulled by others.
- Failure due to the application of non Andersen hardware (e.g., locksets, trim sets, hinges, panic hardware, closers, etc.).
- Failure to properly install Andersen hardware.
- Adjustments or corrections due to improper installation.
- Improper installation or use, including use of a non-commercial door as a main entrance or exit door for a building other than a single-family residential unit or re-installing an Andersen window or door after it has been removed from a building and re-sold and/or re-installed in a different building.
- Exposure to conditions beyond published performance specifications.
- Water infiltration other than as a result of a defect in manufacturing, materials or workmanship.
- Condensation.
- Improper maintenance, such as use of brickwash, razor blades, sealants, sanding or improper washing.

- Chemicals or airborne pollutants, such as salt or acid rain.
- Delivery by others.
- Accidents.
- Acts of God.
- Normal wear and tear.

Additional items excluded from this Limited Warranty:

- Labor to replace sash or door panels, glass or other components.
- Labor and other costs related to the removal and disposal of defective product.
- Labor and materials to paint or stain any repaired or replaced product, component, trim or other carpentry work that may be required.
- Products not manufactured by Andersen.
- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision.
- Rattling of grille bars within an air space.
- Insects passing through or around the insect screen.
- Tarnish or corrosion to hardware finishes.
- Special glazings. Contact us concerning the limited warranty on special glazings.
- Bright brass and satin nickel finishes on hardware.
- Service trips to provide instruction on product use.
- Andersen® A-Series windows and doors, 400 Series and 200 Series windows and doors, 400 Series windows with Stormwatch® protection and impact-resistant glass, storm doors, Renewal by Andersen® windows, E-Series/Eagle® windows and doors, Silver Line® windows and doors, American Craftsman® windows and doors and Weiland® windows and doors have their own limited warranties and are not covered by this Limited Warranty. For information on warranty coverage for these products, please refer to the specific limited warranties for these products. They are available from your dealer or at www.andersenwindows.com.

How to register your Owner-To-Owner® Limited Warranty

Andersen offers quick, easy warranty registration on our website. Just go to www.andersenwindows.com/warranty and submit your warranty information online. All warranty information is treated confidentially and will not be sold or traded to any person or organization outside of Andersen and the Andersen Dealer Network.



Warranty Claim Procedure

To make a claim under this Limited Warranty, contact the Andersen retailer/dealer who sold you your Andersen® product. Or, you may contact us at:

Andersen Windows, Inc./Andersen Service Center
100 Fourth Avenue North
Bayport, MN 55003-1096

You may also contact us using the Parts & Service section of our website at www.andersenwindows.com or reach us by phone at 1-888-888-7020.

You can help us serve you faster by collecting and including the following important information:

- Description of the product such as the exterior color, unit type and size and inside visible glass measurements.
- Product ID label information.
- Glass logo information etched in the inside corner of the glass.
- Description of product concerns.
- Documentation of the purchase date, if available.
- Your name, address (with zip code) where the product is installed and telephone numbers.

Non-Warranty Repair

You will be responsible for all costs related to any repair that is not covered by this Limited Warranty or which is outside of the limited warranty period. When warranty coverage is unclear, Andersen may charge an inspection fee for any on-site product inspection. If the inspector determines the Andersen® product has a defect covered by this Limited Warranty, the inspection fee will be waived.

For specific warranty information outside the United States, please contact your local distributor or write to:

Andersen Windows, Inc./International Division
100 Fourth Avenue North
Bayport, MN 55003-1096 USA

DISPUTE RESOLUTION PROCESS

General

If you are dissatisfied with the remedy provided to you under the Limited Warranty set forth above or have any other claim against Andersen related to your Andersen® products, you and Andersen agree to resolve the claim using the following process ("Dispute Resolution Process"). This Dispute Resolution Process will apply to claims of any nature relating to your Andersen product ("Dispute(s)"). Disputes include, but are not limited to, claims for breach of contract or breach of warranty, claims for violation of state or federal laws or regulations, claims based in tort, negligence or product liability, claims based in fraud or fraud in the inducement, marketing or advertising claims and claims related to the enforceability or effect of any term of the Limited Warranty or the Dispute Resolution Process, including, but not limited to, the waivers of class action and jury trials.

Notice Required

To assert a Dispute, you must first provide Andersen with written notice. A Notice of Dispute form is available for your use on Andersen's website at www.andersenwindows.com/noticeofdispute.

Andersen Response

Andersen will have 60 days from receipt of your Notice of Dispute to respond to you in writing. In that response or at any later time, Andersen may make one or more written offers to you to resolve your Dispute.

No Class Action or Jury Trials

YOU AGREE THAT YOU MAY ASSERT DISPUTES AGAINST ANDERSEN ONLY ON AN INDIVIDUAL BASIS AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY CLASS OR REPRESENTATIVE ACTION OR PROCEEDING. AS PART OF THIS DISPUTE RESOLUTION PROCESS, YOU AND ANDERSEN ALSO AGREE TO WAIVE ANY RIGHT TO A JURY AND AGREE TO HAVE ALL DISPUTES HEARD AND DECIDED SOLELY BY THE FEDERAL OR STATE COURT JUDGE.

Opt-Out Procedure

You may opt out of this Dispute Resolution Process by completing and submitting a written Opt-Out Notice. The Opt-Out Notice is located on Andersen's website at www.andersenwindows.com/optout. Whether or not you opt out of the Dispute Resolution Process, all terms of the Limited Warranty set forth above remain in force and effect.

Applicable Law and Severability

This Dispute Resolution Process, including, but not limited to, issues related to its enforceability and effect, will be governed by the laws of the State of Minnesota without regard to conflict of law principles. If any term of this Dispute Resolution Process is found to be invalid or unenforceable in any particular jurisdiction, that term will not apply to that issue in that jurisdiction. Instead, that term will be severed with the remaining terms continuing in full force and effect.

Questions

If you have questions about the Dispute Resolution Process or Opt-Out Procedure, contact us at 844-332-7972.

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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/sWWnYn6ON3Y>

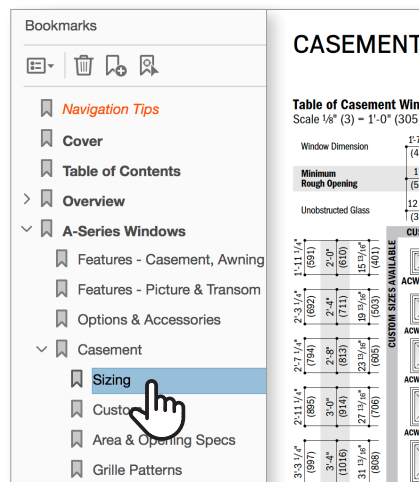
BOOKMARK NAVIGATION

①

Acrobat will display the bookmarks panel when you open the PDF.

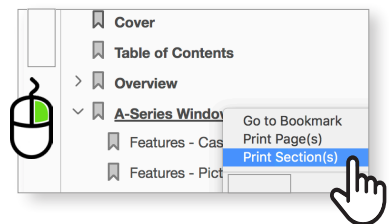
Bookmarks are the easiest way to find specific product information.

Select a topic and that page will be displayed.



②

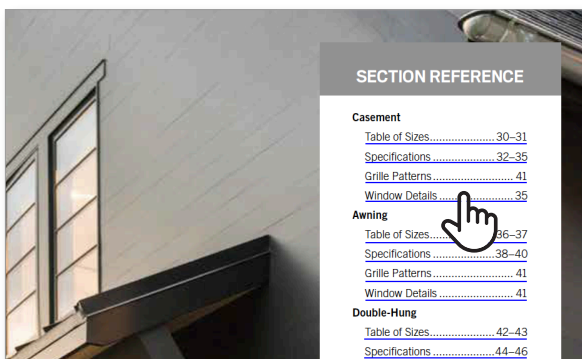
If you need to print a specific section, **right click on that section** within in the bookmarks panel and choose “**Print Section.**”



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.

Beauty in the Details.

The hardware for our A-Series windows is created exclusively for Andersen and is made of forged metal for added strength. A range of available finishes makes it easy for customers to coordinate their window hardware with their cabinet hardware, faucets and other room décor.

Also available with VeriLock® Security Sensors, one of the most advanced technologies in the industry. For more information, see [pages 16-17](#) or visit andersenwindows.com/connect.



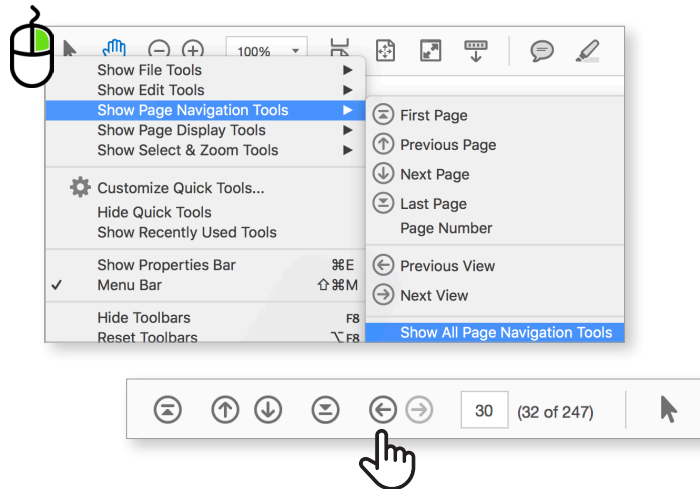
Add additional navigation tools by adjusting the default settings in Acrobat.

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**.

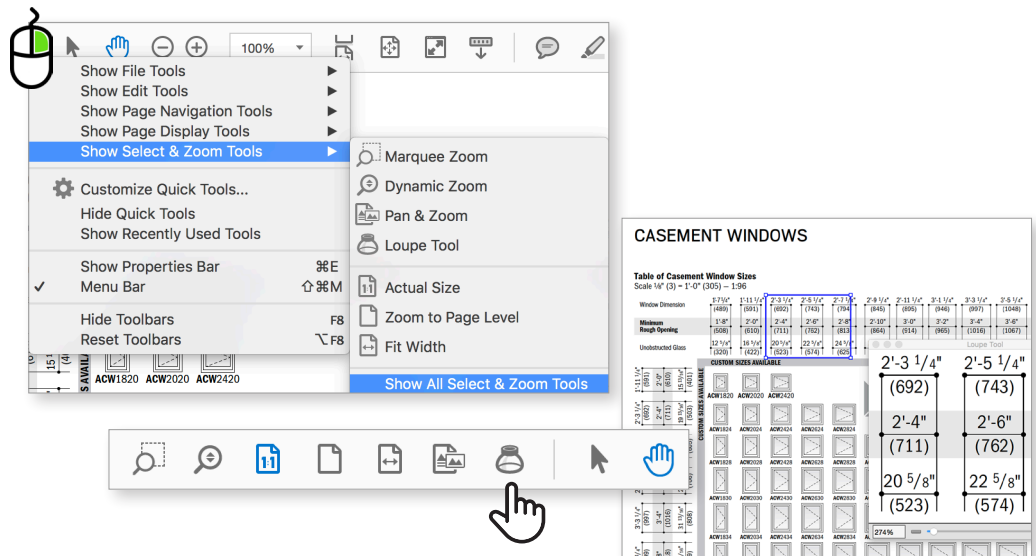
Right and left facing arrows are added to the tool bar allowing you to go back or forward to the last page you viewed.



②

Another helpful tool is the **Loupe Tool**. It allows you to zoom in on the page without having to increase the page size.

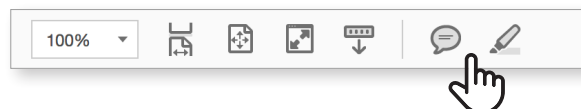
To add a **Loupe Tool** to your tool bar, **right click on tool bar**, select **Show Select & Zoom Tools** and then choose **Show All Select & Zoom Tools**.



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/sWWnYn6ON3Y>

We are always looking for ways to improve.
Please send feedback to webmarketing@andersencorp.com.