

Graber Traditions® Wood Shutters English US Price Guide

TRADITIONS™ WOOD SHUTTERS

Product Information Guide

Features	
The Springs Window Fashions (SWF) Wood Story	3
Wood Characteristics	4
Shutter Styles	5-6
Product Illustration: Wood Shutters	7
Product Illustration: Panel Detail	7
Options	
Frame Type Decision Tree	8
Measuring Standard Wood Shutters	9
Color Options	.10
Additional Color Information	. 10
Graber® Custom Color	. 10
Custom Color Match Process	. 10
Louver Options	.11
Hardware Options	. 12
Panel Overlap Options	. 12
Tilt Type Options: Overview	. 12
Tilt Type Options: Front Tilt	. 13
Tilt Type Options: Hide-A-Tilt™	-14
Tilt Options: Split Tilt	.14
Divider Rail Requirements	. 15
Measuring Divider Rail or Split Tilt Location	. 15
Measuring T-Post Locations	. 15
Standard Shutters Wood Panel Configurations	.16
Wood Frame Configurations	. 17
Frame Product Detail	-21
Specifications	
Proper Application of the Tilt-Out Z-Frame	.22
Sill Cap Application	.22
Deductions for Frame Allowances	.23
Installation Hardware	.23
Size Considerations	
All Louver Sizes: Minimum and Maximum	.24
Standard Shutters: Minimum and Maximum	25



Specialty Styles
Café Shutters
Double Hung Shutters
Double Hung Shutters: Minimum and Maximum Order Width
Measuring Double Hung Split Location
Double Hung Shutters: Minimum and Maximum Order Height
Sunburst Arch without Frame
Sunburst Arch with Frame
Framed Arch Installation Option
Frameless Arch Installation Options
Arch and Angle Top Panel Shutters
Arch and Angle Top Panel Shutters Height Limitations
Measuring Leg Height and Divider Rail Height for Window Opening
Measuring Leg Height and Divider Rail Height for Frame-to-Frame Measurement
How to Make a Template
French Door Options
French Door Sizes: Minimum and Maximum
French Door Shutters: Placement of L-Frame
French Door Shutters: Recessed Back Plate
French Door Options: Cut-Out
Bypass Shutters
Bypass Valance Options
Valance Keystones
Bypass Shutters: Mounting Options
Bypass Track System Configuration Options
Bypass Shutters: Minimum and Maximum Width
Bypass Track System Stack Back Option
Custom Header41
Bifold Track System Stack Back Option
Bifold Track System
Bifold Track System: Mounting Options
Bifold Shutters Minimum and Maximum Width
Bifold Valance Options
Sidelight
Bay Windows
Corner Windows
General Information
General Information
Definitions
Care Instructions

The Springs Window Fashions (SWF) Wood Story

Quality of Wood Defines a Shutter's Quality

We use only 100% North American hardwood in the construction of our wood shutters because of its light weight, consistent color, hardness, structural stability, and attractive grain.

Sound Forestry Techniques

We work only with foresters who practice "sustained yield forest management"—nearly twice as much hardwood grows as is harvested in the U.S. each year. The volume of hardwoods in American forests today is 90% larger than it was 50 years ago.

Preserving Our Natural Resources

Our SWF wood facility in Grayling, Michigan, consumes recycled sawdust and wood shavings, generating the heat required to dry lumber, for a completely self-sufficient manufacturing process. Our Reynosa, Mexico, fabrication and finishing facility is 99.7% pollution-free, above any U.S. standard.

SWF Wood Facility in Grayling, Michigan

We have control over the quality of wood used—we control the process from green lumber to finished shutters. Hardwoods used in crafting Graber® Wood Shutters are kiln-dried and molded at our SWF wood facility. The wood is dried slowly to strict wood shutter specifications because structural change can occur when moisture is removed. Molding and sanding operations provide the highest quality surface, free of defects.

SWF Wood Fabrication and Finishing in Reynosa, Mexico

At our state-of-the-art finishing plant in Reynosa, Mexico, components are carefully sorted prior to fabrication for color uniformity and wood characteristics. We sort wood as an end user, rather than as a finishing vendor, taking out defects in a climate-controlled building. Each shutter is handmade by craftsmen to your client's custom needs. To finish the shutter, we use only high quality paints and stains; on-site certified color technicians provide both application and quality control.

What Makes SWF Shutters Different from the Rest?

- Wood shutters are made from 100% North American hardwoods—the premier wood used in the construction of shutters
- SWF wood facilities provide state-of-the-art technologies and processes
- Expanded finish choices with unique staining process that showcases the natural grain of the wood
- An outstanding selection of styles, louvers (including 4½" size), frames, and arches
- The best customer service team in the industry—trained to answer any questions about Graber Wood Shutters
- · Limited lifetime warranty

Wood Characteristics

Wood used to manufacture Graber® Wood Shutters has many natural characteristics that make it truly unique. No two pieces of hardwood are alike. The following are all natural characteristics of wood, and we do not consider them to be defects:

- Grain—the direction, size, and appearance of wood fibers vary greatly depending on where the wood is cut within the tree
- Mineral Marks—dark or discolored areas caused by minerals that the tree extracts from the soil; they can be either streaks or stains, usually blackish blue
- Tiger Striping—directional change in grain pattern
- Burl—formed from an irregular growth on the outer edge of the tree
- Bird's Eye—small area on the surface of the board where fibers are contorted to form circular figures that resemble birds' eyes
- Knots—vary in size, shape, structure, and color (only solid knots less than %" diameter are allowed)

Natural variations in color and grain effect are inherent in the beauty of wood. These variations are within established industry guidelines and should be expected. In addition, shutters may stain slightly darker or lighter than the samples shown.



Flat Grain



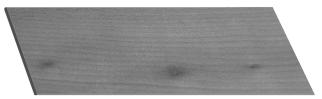
Grain Change



Mineral Marks



Tiger Striping

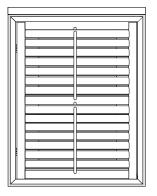


Burl/Bird's Eye

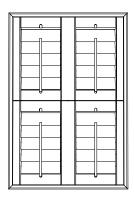


Knots

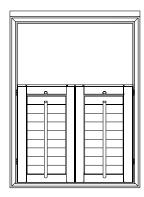
Shutter Styles



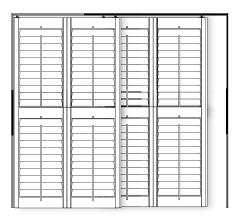
Standard Panel: A rectangularshaped panel that can be installed using any frame style. Panel covers the entire window opening.



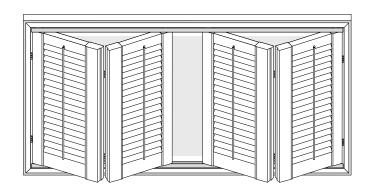
Double Hung: Versatile style in which panels are mounted separately on top of each other, allowing the top and bottom to be opened independently.



Café: Classic style covers the bottom part of the window, allowing light to enter while protecting your privacy. A good choice for bedrooms or kitchens.



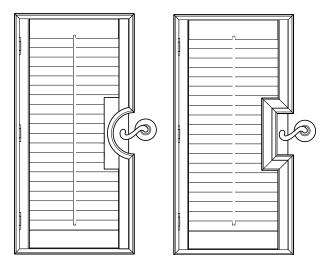
Bypass Track System: Shutter panels slide on double top tracks to open and close. The track system can be ordered with a box-out (side frame) or with the header mounted directly to a window casing or the ceiling. Ideal for patios or closet doors. Louvers must be closed to pass.



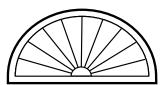
Bifold Track System: Two, four, or eight panels are hinged together with a top and bottom track. Popular for large windows, patio doors, or sliding glass doors.

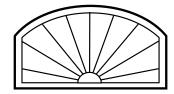
NOTE: Remember that shutters do not block all light from entering the room. All shutters have moving parts. These parts have tolerance gaps that will allow some light to filter through the shutter.

Shutter Styles



French Doors: Add the beauty of shutters to French doors. Curved or rectangular cut-out options complement contemporary door handles or traditional door knobs.

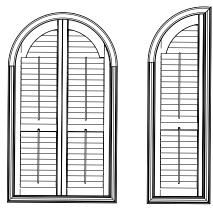




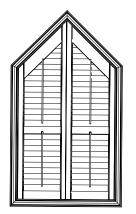


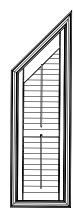


Sunburst Arches: Sunburst patterned louvers cover unique window silhouettes such as eyebrow, elongated, and elliptical arches. Also available as ½ arches.



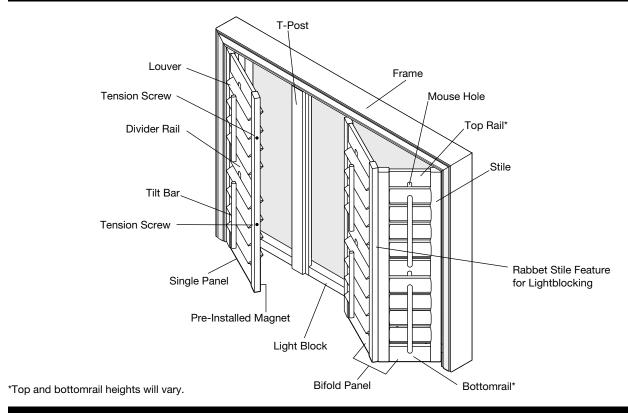
Arched Panels: Provide whole window solutions that fit the rounded shape of full arch windows perfectly. Available in full arch panel or $\frac{1}{2}$ arch panel.



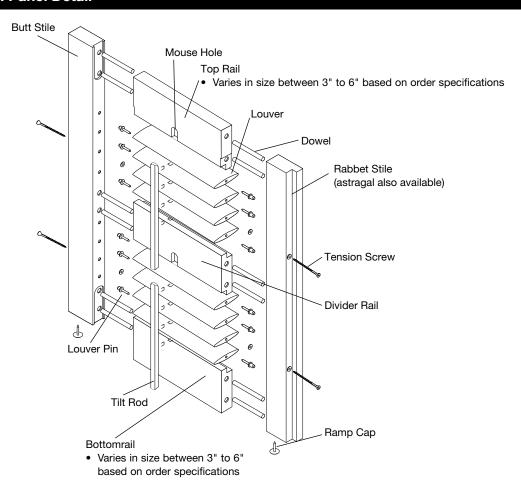


Angled Top Panels: Provide whole window solutions that accommodate slanted windows. Available in full angle panel or ½ angle panel.

Product Illustration: Wood Shutters

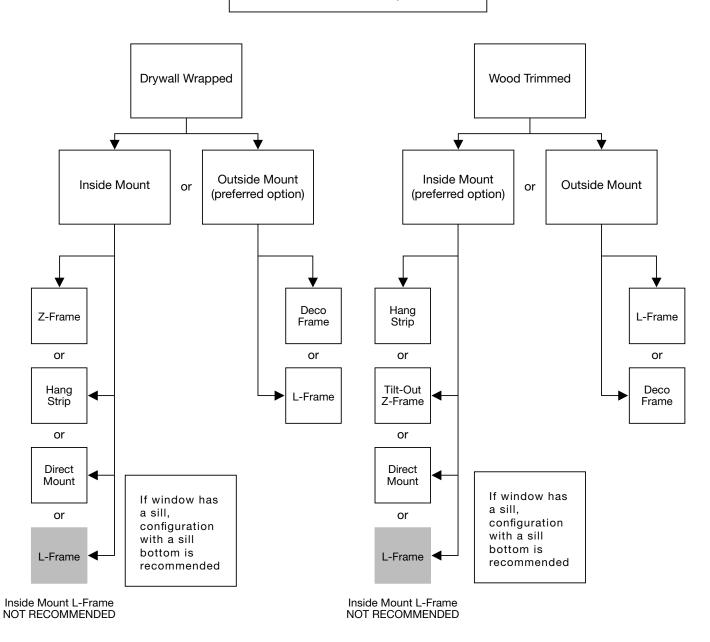


Product Illustration: Panel Detail



Frame Type Decision Tree

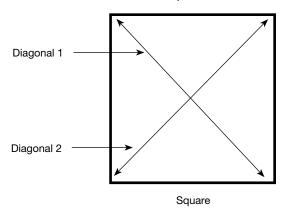
Review window and the area around the window. Choose from the options below.

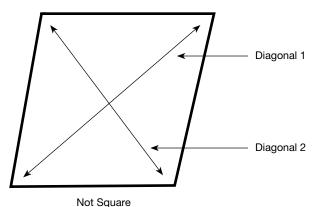


Measuring Standard Wood Shutters

Confirm That The Window Is Square.

Measure the diagonals. If the difference between the two diagonal measurements in the same window is greater than ¼", an outside mount shutter is required.



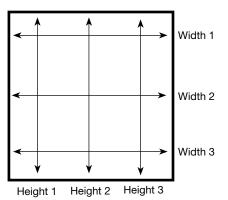


Window Opening Measurement

Inside Mount with Hang Strips, Direct Mount, Z-Frame, Tilt-Out Z-Frame

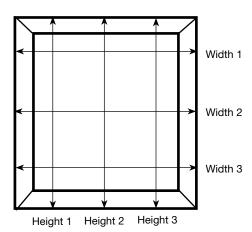
- Measure the width at three points and the height at three points
- Use the **SMALLEST** width and height measurements

NOTE: Factory makes no allowances/deductions for tilt-out Z-frame.



Frame-to-Frame Measurement Required for L-Frame and Deco Frame

- Place a sample of the L-frame or deco frame on the window frame or wall to determine frame-to-frame placement
- Measure frame-to-frame width at three points and frame-to-frame height at three points
- Use the **LARGEST** width and height measurements



HELPFUL HINT: If shutters are in the same room and/or side by side, shutters must be ordered at the same height to ensure that rail height, divider rail location, louver count, and hinge quantity will match.

NOTE: See "Corner Windows" and "Bay Windows" sections for measuring instructions.

Color Options: Refer to Price List

Additional Color Information

Due to the nature of manufacturing, colors may vary slightly between dye lots. Please order all shutters for the same room at the same time. Slight variations may also occur between the finished products and the color samples (see "Wood Characteristics" section).

Graber® Custom Color

Choosing an appropriate color for Graber Wood Shutters is critical to pulling a room's style together. With our unique custom color matching, your clients will never have to compromise on color again! We will even color match a competitor's color at no extra charge.

Just provide a color swatch or sample of the color you want to match—woodwork, wall coverings, paint, fabric—and our expert color technicians will provide an exact color match.

NOTE: See custom color form for colors that do not require a sample to be submitted. A strike-off approval will still be required prior to production.

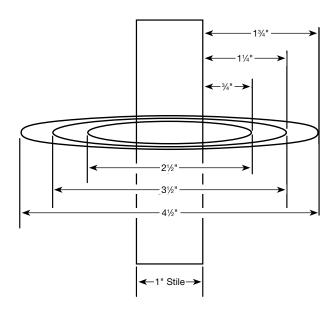
Custom Color Match Process

- 1. Complete the custom color match request form.
- 2. Supply Springs Window Fashions with a color sample. For best results, submit a 3" x 3" color sample.
- Send the form and the sample to: Springs Window Fashions 1500 Sycamore Road G5 Montoursville, PA 17754 Attn: Custom Color Department

- 4. Strike-off approval is required for all shutter orders.
- 5. Strike-offs will be sent for approval within 10 to 14 days of receiving the color sample.
- Once color approval is received, fabrication of the custom shutters will begin. Lead time begins once color is approved.

NOTE: A color chip must be sent or color on file must be chosen. We cannot accept paint formulas from vendors.

Louver Options



Minimum Clearance Needed from Back Panel Surface								
Louver Size (inches)	Standard Tilt (inches)	Hide-A-Tilt™ (inches)						
2½	3/4	11//8						
3½	11/4	1 %						
4½	13/4	21//8						

NOTE: Hide-A-Tilt requires an additional 3/8" window clearance.

	Minimum Clearance Needed by Louver Size and Frame Type Standard Tilt (Hide-A-Tilt)										
Louver Size (inches)			Z-Frame	Legacy Z-Frame (inches)	Signature, Bullnose, and Craftsman Z-Frames (inches)	2" L-Frame (inches)	Traditional Deco and Tilt-Out Z-Frames (inches)				
2½	1¾ (2⅓)	25/16 (211/16)	1% (1%)	1 ⁵ / ₁₆ (1 ¹³ / ₁₆)	1 ⁵ / ₁₆ (1 ¹¹ / ₁₆)	0 (%)	1/4 (5/8)				
3½	21/4 (25/8)	25/16 (211/16)	17/8 (21/4)	113/16 (25/16)	1 ¹³⁄₁₅ (2 ³∕₁₅)	1/2 (7/8)	³¼ (1¹%)				
4½	23/4 (31/8)	23/4 (31/8)	23/8 (23/4)	25/16 (213/16)	2 ⁵ / ₁₆ (2 ¹¹ / ₁₆)	1 (1%)	1¼ (1%)				

2½" Louver

- Traditional in style
- Minimal window depth needed
- Shutters are focal point of the room

31/2" Louver

- Most popular louver size
- \bullet Offers more visibility and light control than 2% " louver

41/2" Louver

- Provides the greatest visibility through the open louvers
- Looks most proportionate in a larger window; view beyond the window becomes more important
- Louvers almost disappear when open

Wood Louver Sizes 2½" 3½" 4½" 4½"

Hardware Options

Select the hardware color that best fits your décor.

Hinge Colors

- Antique Brass
- · Off White
- Oil Rubbed Bronze
- Satin Nickel
- Stainless Steel*
- White

*Surcharge

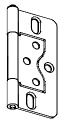
Hide-A-Tilt™ Colors

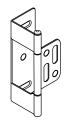
(see color coordination chart in "Tilt Options: Hide-A-Tilt" section)

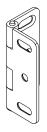
- Steel Grey
- White

NOTES:

- 1. Hide-A-Tilt color will default to shutter color but can be changed at time of order.
- 2. Bifold hinges are seen from the street side. On painted shutters the bifold hinge color will default to White or Off White to coordinate with paint color regardless of hardware color ordered.





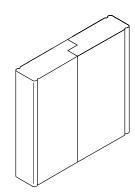


Frame Hinge

Hang Strip Hinge

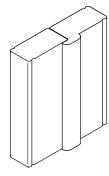
Bifold Hinge

Panel Overlap Options



Rabbet Stile Panel Overlap

- Factory standard
- Right over left overlap only
- Left over right overlap not available



Astragal Stile Panel Overlap

- No charge option
- Right over left overlap standard
- Left over right overlap optional
- Astragal will automatically be used between bifold panels

Tilt Type Options: Overview

We offer four tilt type options – two with 1-way louver closure (up only) and two with 2-way louver closure (up and down).

- 1. Front Tilt 1-Way Closure (Up Only)
- 2. Front Tilt 2-Way Closure (Up/Down)
- 3. Hidden Tilt 1-Way Closure (Up Only)
- 4. Hidden Tilt 2-Way Closure (Up/Down)

Different rails are used for 1-way closure vs. 2-way closure, as shown to the right.

Shutter panels made with 1-way closure (up only) will have the tightest louver to louver closure.

RAILS FOR 1-WAY CLOSURE (UP ONLY)

DIVIDER

DIVIDER

BOTTOM

RAILS FOR 2-WAY TOP

TOP

TOP

TOP

BOTTOM

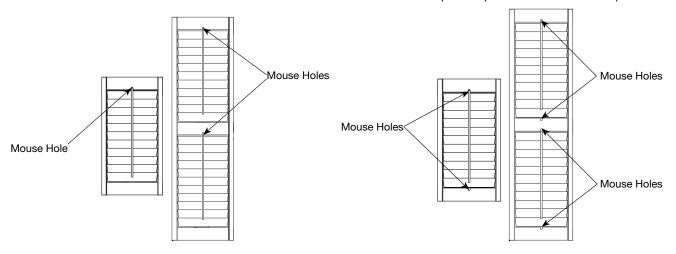
BOTTOM

BOTTOM

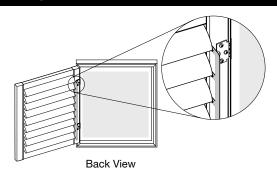
Tilt Options: Front Tilt

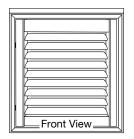
A traditional tilt bar is located on the front center of the panel and is connected to the edge of the louvers with staples. **Important:** The purpose of the tilt bar is to provide louver alignment, not for changing louver position or opening the shutter panel. Louvers should be opened/closed by grabbing onto one louver directly and the remaining louvers will follow.

- **1-Way Closure (Up Only)** Panels have a mouse hole on the rails above each louver section
- Panels with 1-way louver closure will have the tightest louver to louver closure, but in the upwards direction only
- **2-Way Closure (Up/Down)** Panels have mouse holes on the rails above and below each louver section
- Shutters with 2-way louver closure will allow the louvers to be closed up and down; however, louver to louver light gaps will be larger
- Shutters with 2-way louver closure will have better closure when louvers are in the upwards position vs. downwards position



Tilt Options: Hide-A-Tilt™





Hide-A-Tilt option – Includes the tilt mechanism on the back side of the shutter panel, eliminating the traditional front tilt bar to create an unobstructed view and clean linear appearance. A thin steel bar is attached to the louvers on the rear of the panel. Operation of the shutter is as simple as moving one louver into position, and all of the other louvers will follow.

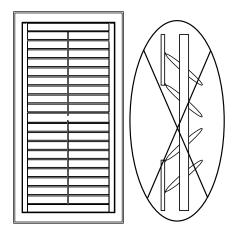
- Available as 1-Way Closure (Up Only) and 2-Way Closure (Up/Down
- Shutters with 1-way louver closure will have the tightest louver to louver closure, but in the upwards direction only
- Shutters with 2-way louver closure will allow the louvers to be closed up and down; however, louver to louver light gaps will be larger
- Shutters with 2-way louver closure will have better closure when louvers are in the upwards position vs. downwards position
- Hide-A-Tilt is mounted on hinge side for standard shutters and attached with screws
- No mouse hole in the panel
- Hide-A-Tilt bar color will default based on shutter color (see chart below) but can be manually changed at time of order
- Ordered heights over 60" require split tilt
- Hide-A-Tilt requires an additional 3/8" window clearance

Hide-A-Tilt™ Color Coordination Chart

Shutter Color	Default Hide-A-Tilt Color
Angora (1052)	Steel Grey
Antique White (1026)	Steel Grey
Base White (1051)	White
Base White* (2051)	White
Creamy White* (2729)	Steel Grey
Crisp White (1712)	White
Dover White (1683)	Steel Grey
Dovetail (1839)	Steel Grey
Grey Beige (1817)	Steel Grey
Medium Grey (1841)	Steel Grey
Pearl (1922)	White
Silk White* (2922)	White
Snow White (1909)	White
Snowflake (1603)	White
Stepping Stone (1889)	Steel Grey
Stucco (1963)	Steel Grey
All Stains	Steel Grey
All Custom Colors	Steel Grey

^{*}Composite color match.

Tilt Options: Split Tilt



NOTE: Upper and lower louvers cannot be positioned at opposing angles because Split Tilt-Front Tilt Bar AND Divider Rail the edges of the louvers will touch.

Top and bottomrails may vary or be unequal due to requested locations and louver spacing.

Splits one large louver set into two individually operated louver sets by attaching two separate tilt bars.

To measure split tilt, use bottom of frame reference point to desired split location. See measuring instructions in "Measuring Divider Rail or Split Tilt Location" section.

Split Tilt-Front Tilt Bar, No Divider Rail

- Split tilt can be requested centered or ordered location
- 31/2" louver exact to ordered location
- 4½" louver may have up to 2" tolerance to ordered location
- 2½" louver not available (the front tilt will not allow the louvers to function properly)

Split Tilt—Hide-A-Tilt™ Bar, No Divider Rail

- Split tilt can be requested centered or ordered location
- 2½" and 3½" louver exact to ordered location
- 4½" louver may have up to 2" tolerance to ordered location

- 3½" louver may cause split tilt to have up to 2" tolerance to ordered location when combined with a divider rail; divider rail location will be exact
- Split tilt can only be requested above OR below divider rail, not both
- Split tilt can be requested centered or ordered location
- 2½" louver not available (the front tilt will not allow the louvers to function properly)

Split Tilt-Hide-A-Tilt Bar AND Divider Rail

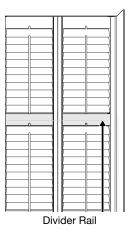
- 2½" and 3½" may cause split tilt to have 2" tolerance to ordered location when combined with a divider rail; divider rail location will be exact
- 41/2" louver may cause split tilt AND divider rail to have up to 2" tolerance to ordered location
- Split tilt can only be requested above OR below divider rail, not both
- Split tilt can be requested centered or ordered location

Divider Rail Requirements

Splits one large louver set into two individually operated louver sets by adding a horizontal rail. It is used to add strength to tall panels or add a decorative element.

- Divider rails are required over 84" height for added strength
- Divider rail can be requested (when not required) for design purposes
- A 3" divider rail is used with 21/2" and 31/2" louvers
- A 4" divider rail is used with 41/2" louvers
- Minimum louver set between rails is two louvers
- Two divider rails are available per shutter, but never required
- Divider rails for 21/2" and 31/2" louvers will be exact to ordered location
- Divider rails for 41/2" louvers may have up to 2" tolerance to ordered location to achieve uniform louver spacing
- All arch/angle panels may only have one divider rail and may have up to 2" tolerance to ordered location

IMPORTANT INFORMATION: Top and bottom rail sizes may vary and/or be unequal in size due to a specified divider rail location. Rail sizes will vary from 3" to 6" based on order specifications. If shutters are in the same room and/or side by side, it is critical to order them at the same exact height to ensure divider rail locations and rail heights match. Please reference the Louver Count/Rail Height Calculator on Graberdirect.com to ensure satisfaction before order is placed



Measuring Divider Rail or Split Tilt Location

Always start from the bottom point of measure to center of the desired divider rail or split tilt location.

To measure frame-to-frame, measure from the bottom of the shutter frame up to the center of the desired rail or split tilt location.

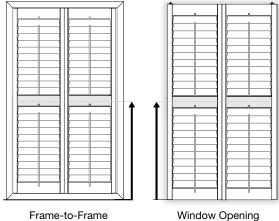
To measure window opening, measure from the sill or bottom of the window opening to the center of the desired rail or split tilt location.

IMPORTANT CONSIDERATIONS

Rail sizes—Top and bottomrail sizes may vary in the same shutter due to requested location of the divider rail/split tilt and louver spacing.

Same room shutters—If shutters are in the same room, they should be ordered with the same height and options to ensure rail sizes match. Varying heights will result in inconsistent rail sizes and/or louver counts.

· If ordering direct mount or hang strip, you may request to align either top or bottomrails of uneven shutters at time of order; opposite rails of shutter and louver count may not match



NOTE: Divider rail/split tilt locations may fluctuate if ordering rail alignment.

Measuring T-Post Locations

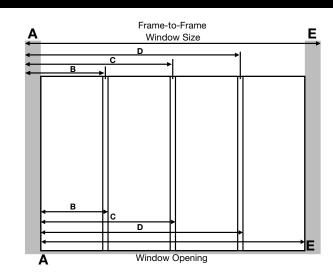
Always start from the left point of measure type to the center of the desired T-post location.

To measure frame-to-frame, measure from the left of the shutter frame to the center of the desired T-post location.

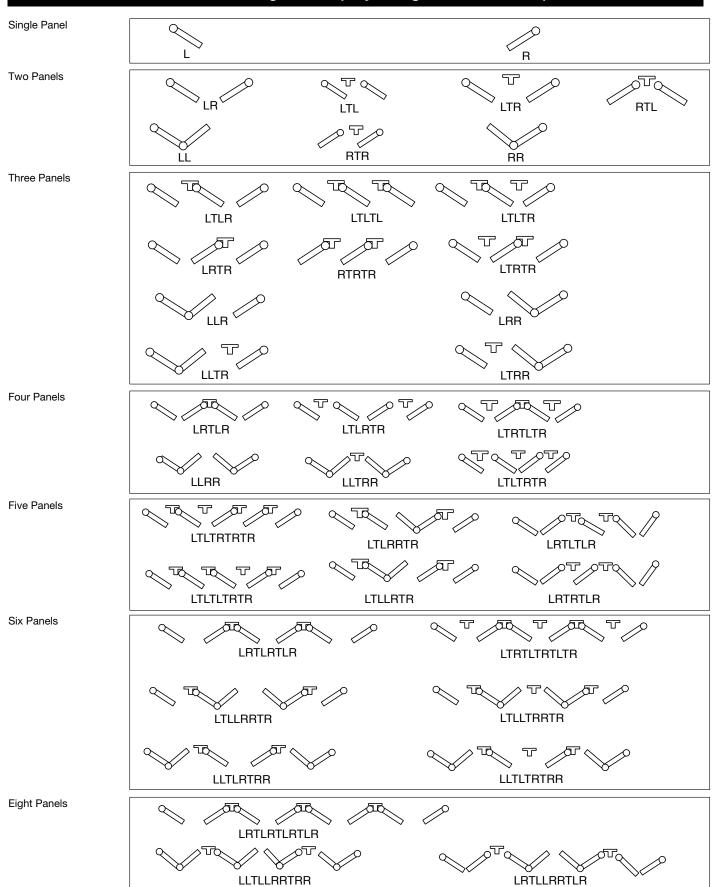
To measure window opening, measure from the left inside of the window opening to the center of the desired T-post location.

If there is more than one T-post, measure from the left of measure type to the center of first T-post location, then measure from the left of measure type over to the center of the second T-post location, etc. EXAMPLE: A-B, A-C, A-D

ALWAYS measure from the same point the frame was measured. **EXAMPLE:** If measuring for L-frame, frame-to-frame measure type, A is the outside edge of the L-frame.



Standard Shutters Wood Panel Configurations (only configurations available)



Wood Frame Configurations 2-Sided 4-Sided with Sill Bottom Hang strip and direct mount with inside mount is available only in 2-sided frame (vertical). Light 2 4SB block included at no charge. 3-Sided 4-Sided with Sill Top Light block included at no charge. 3 4ST 3-Sided Inverted 4-Sided Light block included at no charge. 31 3-Sided with Sill Top 4-Sided with Sill Top Light block included at and Bottom no charge. **3ST** 4TBS 3-Sided Inverted with 4-Sided with Sill Top and Sill Cap Bottom **Sill Bottom** Light block included at 3ISB no charge. 4TSCB 3-Sided Inverted with 4-Sided with **Sill Cap Bottom Sill Cap Bottom** 3ISCB 4SCB

NOTE: Direct mount includes four light blocks at no charge.

Sill cap configurations not available on any ¼ arches and any angles or arch top panels with configurations over 5 panels

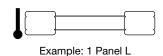
Frame Product Detail

NOTE: Frames larger than 105" ordered size will be spliced.

Direct Mount

- Inside mount only
- · Window opening measure only
- · Panel is prehinged
- Four light blocks included
- Factory automatically makes deductions: Width-3/16", Height-1/4"

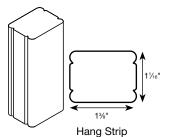
õ 0

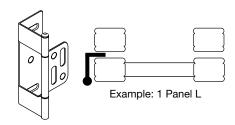


Frame Hinge

Hang Strip

- · Inside mount only
- Window opening measure only
- Includes adjustable wraparound hinge for easy installation
- · Panel and hang strip are prehinged
- · Hang strip is predrilled
- Top and bottom light blocks included
- Factory automatically makes deductions: Width-3/16", Height-1/4"

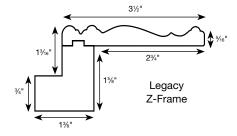


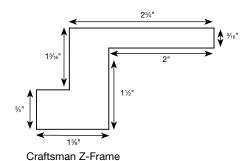


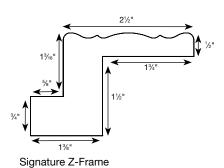
Hang Strip Hinge

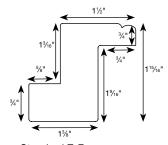
Z-Frames

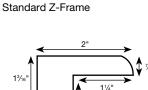
- · Inside mount only
- Window opening measure only
- Panel and frame are prehinged
- Frame is not predrilled
- Standard, signature, legacy, bullnose, craftsman-factory automatically makes deductions: Width-5/16"; for Height see chart in "Deductions for Frame Allowances" section
- Tilt-out Z-frame-factory makes no deductions, measurement is the same as the window opening, see "Proper Application of the Tilt-Out Z-Frame" section

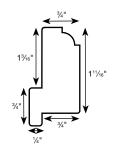




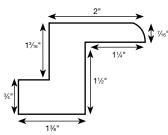








Tilt-Out Z-Frame



Bullnose Z-Frame

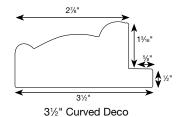
May 2022 18 | graberdirect.com

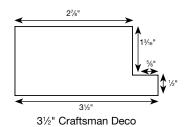
Frame Product Detail

NOTE: Frames larger than 105" ordered size will be spliced.

Deco Frames

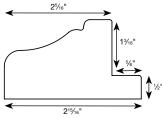
- · Outside mount only
- Frame-to-frame measure only
- Panel and frame are prehinged
- Frame is not predrilled
- No factory deduction made
 - If using for inside mount or in a tight spot, installer must make own deduction for proper fit and order as frame-to-frame





15/16" 5/6" 5/6" 4/2"

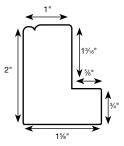
3½" Beaded Deco



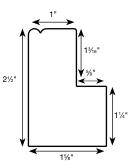
3" Traditional Deco

L-Frames

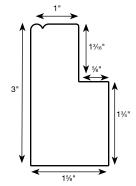
- Recommended outside mount
- Frame-to-frame measure only
- Panel and frame are prehinged
- Frame is not predrilled
- No factory deduction made
 - If using for inside mount or in a tight spot, installer must make own deduction for proper fit and order as frame-to-frame



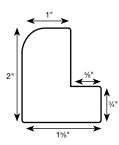
2" Standard L-Frame



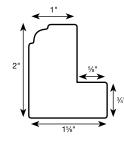
2½" Extended Standard L-Frame



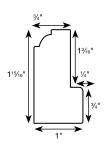
3" Extended Standard L-Frame



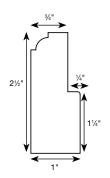
2" Bullnose L-Frame



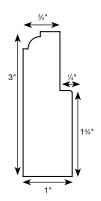
2" Colonial L-Frame



Narrow Colonial L-Frame



21/2" Extended Narrow Colonial L-Frame



3" Extended Narrow Colonial L-Frame

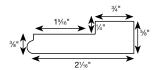
May 2022

Frame Product Detail

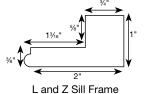
NOTE: Frames larger than 105" ordered size will be spliced.

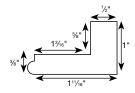
Sill Frames

- Offered with L-, Z-, and deco frames
- Not available with buildouts
- Sill frames are mitered to fit side frames and attached via ½" Hoffman keys

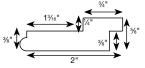


Narrow Colonial L Sill Frame

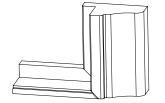




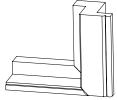
Deco Sill Frame



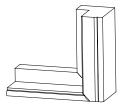
Tilt Z Sill Frame



Wood Traditional Deco Frame with Sill



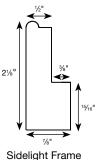
Wood Z-Frame with Sill



Wood L-Frame with Sill

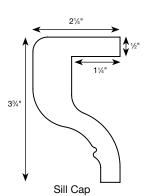
Sidelight Frame

- Frame-to-frame measure only
- 4-sided configuration only
- · Left or right panel configurations only
- 2½" or 3½" louvers only
- Frame shipped assembled
- · Buildout available, attached at factory
- See "Sidelight" section for more information



Sill Cap

- Available with all frames
- Available with following frame configurations: 3-sided inverted with sill cap bottom, 4-sided with sill cap bottom, 4-sided with sill frame top, and sill cap bottom
- Buildout included (1%" x 1/2") for inside mount frames
- Not available on ¼ arches, ¼ arch panels, any angles, or any arch top panel with configuration over 5 panels



Frame Product Detail

NOTE: Frames larger than 105" ordered size will be spliced.

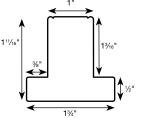
Light Block

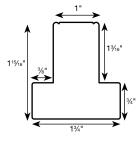
• Included with hang strip, direct mount, 2-sided, and 3-sided frame types



T-Post

- Post that divides the shutter into multiple sections
- T-posts are predrilled by factory
- · Horizontal post available with double hung
- T-post L-bracket included on hang strip and direct mount





Deco T-Post

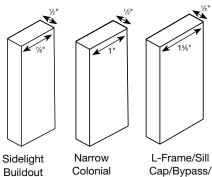
Standard T-Post

Deco

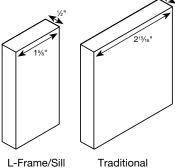
Buildout

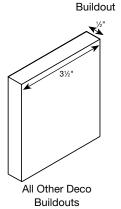
Buildout

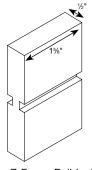
- Used with L-frames, deco frames, Z-frames, sidelight frames, and sill caps
- Available only in 1/2" thickness
- Maximum ½" (one piece) per shutter for sidelight frames and bypass/bifold
- Maximum 1" (two pieces) per shutter for Z-frames
- Maximum 2" (four pieces) per shutter for L-frames and deco frames
- Not available with sill configurations



L-Frame





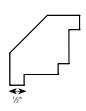


Bifold Buildout

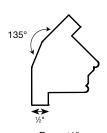
Z-Frame Buildout

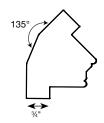
Corner Posts and Bay Posts

- A vertical post used for installing shutters in bay and corner windows
- See "Corner Windows" and "Bay Windows" sections for more information



←→
¾"
Standard ¾"





Deco ½" Standard ¾"
Corner Post Corner Post

Deco ½" Bay Post

Standard ¾" Bay Post

May 2022

Specifications

Proper Application of the Tilt-Out Z-Frame

Tilt-Out Z-Frame (inside mount)

Designed to be used with certain styles of window trim. Panel and frame are prehinged. Frame is not predrilled. Shipment includes self-tapping trim-head screws.

Tilt-out Z-frame must be ordered as "Window Opening" (WO) size. NO factory deduction is made with this frame.

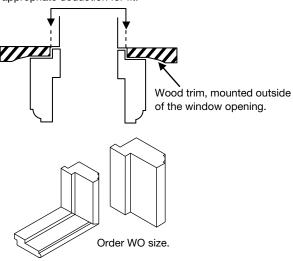
Factory Deductions: Width: 0"

Height: 0"

NOTE: Installer MUST make own deductions for proper fit. If diagonal measurements exceed 1/8" out of square, use other outside mount



When using with wood trim, measure the order width from these points and make the appropriate deduction for fit.



Tilt-Out Z-Frame with Sill Frame

Sill Cap Application

Ordering Options











2" Overlap Per Side



Specified Cap Length

Three Available Frame Configuration Options

- 3-sided inverted with sill cap bottom
- · 4-sided with sill cap bottom
- 4-sided with sill frame top and sill cap bottom

Existing sill length on window will be required when ordering. This is to assure that sill cap option ordered will fit over the top of your existing window sill. A 1%" buildout will be provided to take up the gap between the existing sill and any inside mount frame. This buildout will be butted up to the back edge of the sill cap to extend the depth. Sill cap cannot be used if existing window sill

The sill cap will sit flush against the wall for window sills protruding up to 11/4" from the face of the wall. The sill cap can be used on deeper sills but there will be a gap between the wall and the sill cap.

No mounting hardware included. Adhesive should be used to attach sill cap to window sill.

NOTE: Not available on sunburst arches, bay, corner, sidelight, ¼ arches, ¼ arch panels, any angles, or arch top panels with configurations over 5 panels.

Specifications

Deductions for Frame Allowances

Direct Mount

- · Automatically taken at factory
- Width deduction—3/16"
- Height deduction—1/4"

Hang Strip

- Automatically taken at factory
- Width deduction—3/16"
- Height deduction—1/4"

Z-Frame (standard and signature only)

- Automatically taken at factory
- · See chart below for width and height deductions

Z-Frame Configuration	Frame Width Deduction (inches)	Frame Height Deduction (inches)
2-Sided	- ⁵ ⁄ ₁₆	No deduction*
3-Sided or 3-Sided Inverted	- 5/16	- ⁵ / ₃₂ *
3-Sided Sill Top or Bottom	- 5⁄ ₁₆	- 1⁄ ₁₆ *
3-Sided Inverted with Sill Cap Bottom	- 5/16	- 1⁄ ₁₆ *
4-Sided	- 5⁄ ₁₆	- 5⁄ ₁₆
4-Sided Sill Top or Bottom	- 5/16	- 5⁄32
4-Sided Sill Top and Bottom	- ⁵ ⁄ ₁₆	- 1/16
4-Sided Sill Top and Sill Cap Bottom	- 5∕₁6	- 1/16
4-Sided Sill Cap Bottom	- 5/16	- 5/ ₃₂

^{*}Using this deduction, panel clearance on open ends of frame will automatically be $\frac{1}{8}$ ".

NOTE: Factory makes no deductions on tilt-out Z-frames; the measurement is the same as the window opening (see "Proper Application of the Tilt-Out Z-Frame" section). You must take your own deductions on tilt-out Z-frames.

L-Frame

- · No deductions taken at factory
- If using for inside mount or in a tight spot, installer must make own deduction for proper fit and order as frame-to-frame

Traditional Deco Frame

- No deductions taken at factory
- If using in a tight spot, installer must make own deduction for proper fit and order as frame-to-frame

Installation Hardware

Included with Order

- Hinge pins
- Hoffman keys
- Installation screws (hinge, mounting, etc.)
- T-post L-bracket (if required)
- Touch up paint dabber—paints only; due to top coat process, touch-up bottles are NOT provided with stains but can be requested

Available Upon Request—Contact Customer Service

- Hinge shims
- Extra louver pins
- Extra screws
- Screw caps (cover exposed screw heads)

Size Considerations

All Louver Sizes: Minimum and Maximum (order width by panel configuration)

		Hang Tilt- Z-Fr	Mount, Strip, Out ame	Z-Fr	ame VO Size		ame F Size	L-Fr	onial	Deco	ditional Frame	Bea Crafts Deco	urved, ded, sman, Frame
Number of Panels	Panel Configurations				Maximum Width (inches)						Maximum Width (inches)		Maximum Width (inches)
1 Panel	L, R*	9¾16	36¾6	11	38	11¾6	38¾6	1011/16	3711/16	1313/16	4013/16	1 4¹5⁄₁6	41 ¹⁵ / ₁₆
	LR*	181/16	72½16	19%	73½	201/16	741/16	19%6	73%6	2211/16	76¹¹⁄₁₅	23 ¹³ ⁄ ₁₆	77 ¹³ / ₁₆
2 Panels	LTR, LTL, RTR, RTL*	19%	73%	21¾6	75 ¾16	21%	75¾	201//8	74 ⁷ /8	24	78	251//8	791//8
	LL, RR*	181/16	521/16	197/8	53%	201/16	541/16	19%	53 ¹⁵ ⁄₁6	2211/16	56 ¹¹ / ₁₆	2313/16	57¹³⁄₁ ₆
	LLR, LRR*	271/4	781/4	29½6	801/16	291/4	801/4	28¾	79¾	31%	82 ⁷ /s	33	84
	LLTR, LTRR*	281/4	891/4	301/16	911/16	301/4	911/4	29¾	90¾	321/8	93¾	34	95
3 Panels	LTLR, LRTR*	281/4	1091/4	301/16	11111/16	301/4	11111/4	29¾	110¾	321//8	1131//8	34	115
	LTLTR, LTRTR, LTLTL, RTRTR*	29%	110%6	31%	112%	31%	112%	3111/16	1121/16	34¾6	115 ¹³ ⁄ ₁₆	355⁄16	1165/16
	LLRR*	365/16	1045⁄16	381/8	1061//8	385/16	1065/16	37 ¹³ ⁄ ₁₆	10513/16	4015/16	108¹⁵⁄₁ ₆	421/16	1101/16
	LLTRR*	371/8	1051//	38 ¹⁵ ⁄ ₁₆	106 ¹⁵ ⁄ ₁₆	391/⁄8	1071//8	385%	106%	41¾	109¾	42 ⁷ /8	110%
4 Panels	LRTLR*	371/8	1451/8	38 ¹⁵ ⁄ ₁₆	146 ¹⁵ ⁄ ₁₆	39⅓	1471//8	385/8	146%	41¾	149¾	42 ⁷ / ₈	150%
	LTLRTR*	387/16	1467/16	401/4	148¼	407/16	148%	39 ¹⁵ ⁄ ₁₆	147 ¹⁵ ⁄ ₁₆	431/16	1511⁄16	44¾6	152¾16
	LTRTLTR, LTLTRTR*	39¾	147¾	41%	149%	41¾	149¾	411/4	149¼	44¾	152%	45½	153½
	LTLLRTR, LTLRRTR	47%	162%	511/4	1661/4	51 ⁵ / ₈	1665%	511//8	1661//	56¾	171%	591//8	1741/8
5 Panels	LRTLTLR, LRTRTLR	475⁄16	1825/16	50 ¹⁵ ⁄ ₁₆	18515/16	51¾ ₆	189¾6	50 ¹¹ / ₁₆	18811/16	54¹³⁄₁ ₆	1941/16	59¹¹⁄₁ ₆	19511/16
	LTLTLTRTR, LTLTRTRTR	49¹⁵⁄₁₅	18415/16	53%16	188%	53¹⁵∕₁ ₆	18815/16	537/16	1887/16	57%	19313/16	607/16	1957/16
	LLTLRTRR	56¾6	178¾16	58	180	58¾6	180 ³ 16	57 ¹¹ / ₁₆	17911/16	60 ¹³ ⁄ ₁₆	18213/16	61 ¹⁵ ⁄ ₁₆	18315/16
	LTLLRRTR	56¹¹⁄₁₅	17811/16	58½	180½	58¹¹⁄₁ ₆	18011/16	58¾6	180¾6	61%	1835⁄16	627/16	1847/16
6 Panels	LRTLRTLR	56¾16	218¾6	58	220	58¾ ₁₆	220¾6	57 ¹¹ / ₁₆	21911/16	60 ¹³ ⁄ ₁₆	222 ¹³ / ₁₆	61%	2235⁄16
	LTLLTRRTR, LLTLTRTRR	57½	179½	595/16	1815⁄16	59½	181½	59	181	62½	1841⁄⁄8	631/4	1851⁄4
	LTRTLTRTLTR	60½	2221/8	61 ¹⁵ ⁄ ₁₆	22315/16	62½	2241/8	61 ⁵ ⁄8	2335/8	64¾	226¾	65%	2271/8
	LRTLLRRTLR	7315/16	249¹⁵⁄₁6	75¾	251¾	75 ¹⁵ ⁄ ₁₆	251 ¹⁵ / ₁₆	757/16	2517/16	78%	254%	79¹¹⁄₁₅	25511/16
8 Panels	LLTLLRRTRR	7315/16	209¹⁵⁄₁6	75¾	211¾	75 ¹⁵ ⁄ ₁₆	211 ¹⁵ ⁄ ₁₆	751/16	2117/16	78%	214%	79¹¹⁄₁ ₆	21511/16
	LRTLRTLRTLR	751/4	2911⁄4	77½	2931/16	771/4	2931/4	76¾	292¾	79%	295%	81	297

^{*}Panel configurations available in double hung.

NOTE: Frames larger than 105" ordered size will be spliced.

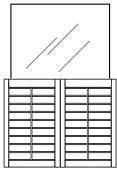
Size Considerations

Standard Shutters: Minimum and Maximum (order height by frame type and louver size)

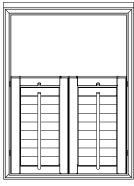
			Mi	inimum (inch	96)	Maximum (inches)
				Louver Size		` ′
				Louver Size	· 	Louver Size
Measure						
Туре	Frame Configuration	Frame Type	2 ½	3½	41/2	21/2, 31/2, 41/2
	2-sided	Direct mount/hang strip	101/4	121/4	141/4	1201/4
	3-sided inverted with sill cap bottom		103/4	12¾	14¾	1191/4
	2-sided		101/4	121/4	141/4	1201/4
	3-sided and 3-sided inverted 3-sided sill top or bottom		11½ 11½	13½ 13½	151/ ₈ 151/ ₂	121½ 121½
	3-sided sin top or bottom 3-sided inverted with sill cap bottom		103/4	123/4	143/4	12172
	4-sided	Z-frame (except tilt-out)	121/16	141/16	161/16	1221/16
	4-sided with sill top or bottom	Z marie (except tilt out)	111//	131/8	151/8	1211//
ning.	4-sided with sill top and bottom		11	13	21	121
Window Opening	4-sided with sill cap bottom		11%	135/8	15%	121%
» »	4-sided with sill frame top and sill cap bottom		111//	131/s	15½	1211/8
inde	2-sided		101/4	121/4	141/4	1201⁄4
×	3-sided and 3-sided inverted		1015/16	1215/16	1415/16	12015/16
	3-sided sill top or bottom		11 5⁄16	135/16	15 ½16	1215/16
	3-sided inverted with sill cap bottom		10¾	12¾	14¾	120¾
	4-sided	Tilt-out Z-frame	11%6	131/16	15%	121%
	4-sided with sill top or bottom		10%6	121/16	14%16	120%
	4-sided with sill top and bottom		11	13	15	121
	4-sided with sill cap bottom		10¾	12¾	14¾	120¾
	4-sided with sill frame top and sill cap bottom		111//	131//	151//8	1211//8
	2-sided		101/4	121/4	141/4	120¼
	3-sided and 3-sided inverted		11¼	13¼	151/4	1211/4
	3-sided sill top or bottom		11%	13%	15%	121%
	3-sided inverted with sill cap bottom	L-frame	10¾	12¾	14¾	120¾
	4-sided	(except narrow colonial)	121/4	141/4	161/4	1221/4
	4-sided with sill top or bottom		11¾	13¾	15¾	121¾
	4-sided with sill can bettem		11 11¾	13 13¾	15 15¾	121
	4-sided with sill cap bottom		11 ⁷ / ₄	131/4	151/8	121¾ 121½
	4-sided with sill frame top and sill cap bottom 2-sided		101/4	121/4	141/4	1201/4
	3-sided and 3-sided inverted		11	13	15	121
	3-sided sill top or bottom		115%	135%	15%	121%
	3-sided inverted with sill cap bottom		10¾	12¾	1434	120¾
	4-sided	Narrow colonial L-frame	113/4	13¾	15¾	121¾
	4-sided with sill top or bottom		11½	13½	15½	121½
	4-sided with sill top and bottom		11	13	15	121
Je L	4-sided with sill cap bottom		11½	13½	15½	121½
Frar	4-sided with sill frame top and sill cap bottom		1111//8	131//8	151//8	1211//8
Frame-to-Frame	2-sided		10¼	121/4	141/4	1201/4
Шe	3-sided and 3-sided inverted		131//	151//	171//8	1231//8
Fra	3-sided sill top or bottom		10%	12%	14%	120%
	3-sided inverted with sill cap bottom	3½" deco frame	10¾	12¾	14¾	120¾
	4-sided	(curved, beaded,	16	18	20	126
	4-sided with sill top or bottom	and craftsman)	13½	15½	17½	123½
	4-sided with sill top and bottom		11	13	15	121
	4-sided with sill cap bottom		141/4	161/4	18¼	1241/4
	4-sided with sill frame top and sill cap bottom		111//8	131/4	151//8	1211//
	2-sided		101/4	121/4	141/4	1201/4
	3-sided and 3-sided inverted		121/16	14%	16%	122%
	3-sided sill top or bottom		10%	12%	145/8	120%
	3-sided inverted with sill cap bottom	3" deco frame	10¾	123/4	14¾	120¾
	4-sided with sill top or bottom	(traditional)	14 ⁷ / ₈ 12 ¹⁵ / ₁₆	16 ⁷ / ₈ 14 ¹⁵ / ₁₆	18¾ 16 ¹⁵ ⁄₁6	124 ⁷ / ₈ 122 ¹⁵ / ₁₆
	4-sided with sill top or bottom		12 1916	14 1916	15	122 19/16
	4-sided with sill top and bottom 4-sided with sill cap bottom		11 13 ¹ / ₁₆	13 15 ¹¹ / ₁₆	15 17 ¹ / ₁₆	121 123 ¹¹ / ₁₆
	·		131/16	131/8	151/8	12311/16
	4-sided with sill frame top and sill cap bottom 4-sided	Sidelight	111/8	131/4	N/A	971/4
	1 -31060	Sideligiti	1 1 /4	13/4	11//1	31 /4

NOTE: Frames larger than 105" ordered size will be spliced.

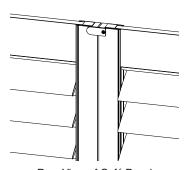
Café Shutters







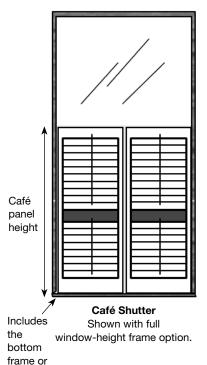
Shown as 4-Sided



Rear View of Café Panel Optional: Café Aligning Catch

- Tops of wood panels are finished
- Café shutter panels cover the lower portion of the window
- Frame can be ordered to stop at panel height or can be ordered to fully frame the window
- Pricing is based on width x café panel height
- Panels come standard with magnet on the base of each panel; aligning catch at the top panels is optional and must be requested at the time of order
- Panel configurations ordered with a T-post will come with T-post cut to frame height, not café panel height

ORDER ENTRY TIP: When ordering frames to stop at panel height: 3-sided, 3-sided sill top, or 4-sided with or without sill configurations must be entered as standard shutters. 2-sided, 3-sided inverted, and 3-sided inverted sill bottom can be entered as café with panel and frame height the same size.



sill frame, if ordered

Café is available in a variety of frames, both inside and outside mount.

- · Measure format depends on frame type selected
- For direct mount, use "window opening" size (WO) and no frame is furnished
 NOTE: Panel will be 1/8" smaller than café panel height ordered for bottom swing clearance.
- For hang strip, use "window opening" size (WO) and hang strip will be the same height as café panel

NOTE: Panel will be 1/8" smaller than café panel height ordered for bottom swing clearance.

• For Z-frame, use "window opening" size (WO) and frame can be made at same height as café panel or be made at window height for "full-height frame"

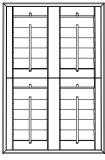
NOTE: The café panel height ordered will include whatever frame configuration is ordered for the bottom. The café panel height at which the panels will stop.

For L-frame and traditional deco frame, use "frame-to-frame" size (F-F) and frame can be
made the same height as café panel or be made at window height for "full-height frame"
NOTE: The café panel height ordered will include whatever frame configuration is

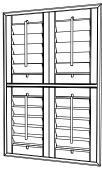
ordered for the bottom. The café panel height at which the panels will stop.

Double Hung Shutters

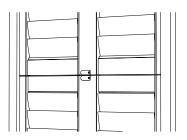
A specialty shutter style with one set of shutter panels over the top of another set of shutter panels in a continuous frame within a window. The panels are independent of each other, allowing each panel to operate separately.







Double Hung with Horizontal T-Post



Rear View of Double Hung Panel with Aligning Catch

- Tops of wood panels are finished
- · Maximum of up to four panel shutter configurations per set only
- Top and bottom panel sections must have identical panel configurations
- All frame configurations available
- Maximum height of bottom panel 84"
- Maximum height of top panel 60"
- Top rails in bottom set and bottomrails in top set will not exceed 3½" on 2½" and 3½" louvers
 - 4½" louvers may have rails larger than 3½"
- Divider rail not available
- · Split tilt available as center only; cannot be specified
 - Split tilt available as either top or bottom panel sets or both top and bottom
- Available with Front Tilt (1-way and 2-way closure),
 Hide-A-Tilt™ (1-way and 2-way closure), and Astragal
- Aligning catch automatically included in LR, LLR, LRR, LTLR, LRTR, LRR, LRTLR, and LTLRTR configurations
- Horizontal T-post option available
 - L-bracket automatically included with all horizontal T-post orders (see image to right)
 - If horizontal T-post is ordered with panel configuration including a T-post, the horizontal T-post will be split and the vertical T-post will be one piece
 - Not available with sidelight frame or when order ships from Asia



Double Hung Shutters: Minimum and Maximum Order Width (by panel configuration)

		Direct Mount, Hang Strip, and Tilt-Out Z-Frame		Z-Fr	Narrow Colonial 3" Traditional Cr		Z-Frame L-Frame						Bea Crafts	urved, ded, sman, Frame
		wo	Size	wo	Size	F-F	Size	F-F	Size	F-F	Size	F-F	Size	
Number of Panels	Panel Configurations		Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	
1 Panel	L, R	93/16	36¾6	11	38	113/16	38¾6	1011/16	3711/16	13 ¹³ ⁄ ₁₆	4013/16	14 ¹⁵ / ₁₆	41 ¹⁵ ⁄ ₁₆	
	LR	181/16	721/16	197/8	73%	201/16	741/16	19%	73%	2211/16	76¹¹⁄₁ ₆	23 ¹³ / ₁₆	77¹³⁄₁6	
2 Panels	LTR, LTL, RTR, RTL	19%	73%	21¾6	75¾6	21%	75%	20%	741//8	24	78	251//8	791//8	
	LL, RR	181/16	52½6	19%	53%	201/16	54½	19%	53 ¹⁵ ⁄ ₁₆	2211/16	56¹¹⁄₁ ₆	23 ¹³ ⁄ ₁₆	57¹³⁄₁ ₆	
	LLR, LRR	271/4	781/4	291/16	801/16	291/4	801/4	28¾	79¾	311//8	821//8	33	84	
3 Panels	LLTR, LTRR	281/4	891/4	301/16	9111/16	301/4	91¼	29¾	90¾	321/8	931//8	34	95	
3 Paneis	LTLR, LRTR	281/4	1091⁄4	301/16	11111/16	301/4	11111/4	29¾	110¾	321/8	1137//8	34	115	
	LTLTR, LTRTR, LTLTL, RTRTR	29%	110%16	31%	112%	31%6	112%16	311⁄16	1121/16	34¾6	115 ¹³ ⁄ ₁₆	355⁄16	1165⁄16	
	LLRR	365/16	1045⁄16	381/8	1061//8	385⁄16	1065⁄16	37 ¹³ ⁄ ₁₆	10513/16	4015/16	108 ¹⁵ ⁄16	421/16	1101/16	
	LLTRR	371/8	1051//8	3815/16	10615/16	391/8	1071//8	38⅓	106%	41¾	109¾	42 ⁷ / ₈	110%	
4 Panels	LRTLR	371/8	1451/8	3815/16	14615/16	391/8	1471/8	38⅓	146%	41¾	149¾	42 ⁷ / ₈	150%	
	LTLRTR	387/16	1467/16	401/4	1481⁄4	407/16	1487/16	39¹⁵⁄₁6	147¹⁵⁄₁6	431/16	151½6	44¾6	15213/16	
	LTRTLTR, LTLTRTR	39¾	147¾	41%6	149%	41¾	149¾	41¼	149¼	443/8	152%	45½	153½	

Measuring Double Hung Split Location

Measure double hung split location exactly how you measure for divider rail and split tilt (see "Measuring Divider Rail or Split Tilt Location" section). Always start from the bottom point of measurement to center of the desired double hung split.

- Double hung split location will always be exact
- If ordering a horizontal T-post, ordered split location will be located at the center of the T-post

To measure frame-to-frame, measure from the bottom of the shutter frame up to the center of the desired double hung split location.

To measure window opening, measure from the sill or bottom of the window opening to the center of the desired double hung split location.

Double Hung Shutters: Minimum and Maximum Order Height (by frame type and louver size)

			Mi	nimum (inch	es)	Maximum (inches)
				Louver Size		Louver Size
Measure Type	Frame Configuration	Frame Type	2 ½	3 ½	4½	21/2, 31/2, 41/2
	2-sided	B: 1 1/1 1:	207/16	247/16	287/16	1207/16
	3-sided inverted with sill cap bottom	Direct mount / hang strip	2015/16	24¹⁵⁄₁6	2815/16	12015/16
	2-sided		207/16	247/16	287/16	1207/16
	3-sided and 3-sided inverted		211/16	25½6	297/16	1217/16
	3-sided sill top or bottom		2013/16	24 ¹³ ⁄ ₁₆	2813/16	12013/16
	3-sided inverted with sill cap bottom		2015/16	24 ¹⁵ ⁄ ₁₆	2815/16	12015/16
	4-sided	Z-frame (except tilt-out)	221/4	26¼	301/4	1221/4
ng	4-sided with sill top or bottom		21¾6	25¾16	293/16	121¾6
Window Opening	4-sided with sill top and bottom		213/16	25¾6	29¾16	121¾6
ó	4-sided with sill cap bottom		211/16	251/16	297/16	1217/16
δο	4-sided with sill frame top and sill cap bottom		215/16	255/16	295/16	1215/16
Vinc	2-sided		207/16	247/16	287/16	1207/16
	3-sided and 3-sided inverted		207/16	247/16	287/16	1207/16
	3-sided sill top or bottom		2013/16	2413/16	2813/16	12013/16
	3-sided inverted with sill cap bottom	T" 17 (2015/16	2415/16	2815/16	12015/16
	4-sided	Tilt-out Z-frame	207/16	247/16	287/16	1207/16
	4-sided with sill top or bottom		2013/16	24 ¹³ / ₁₆	2813/16	12013/16
	4-sided with sill top and bottom		213/16	253/16	293/16	1213/16
	4-sided with sill cap bottom		207/16	24 ⁷ / ₁₆	287/16	1207/16
	4-sided with sill frame top and sill cap bottom 2-sided		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆ 24 ⁷ / ₁₆	28 ¹⁵ / ₁₆	120 ¹⁵ ⁄ ₁₆
	3-sided and 3-sided inverted		20 ⁷ 16 21 ⁷ /16	24 ^{7/16} 25 ⁷ / ₁₆	20 ⁷ / ₁₆	1217/16
	3-sided sill top or bottom		21 /16 20 ¹³ / ₁₆	24 ¹³ / ₁₆	29 ⁷¹⁶ 28 ¹³ / ₁₆	12013/16
	3-sided sint top of bottom 3-sided inverted with sill cap bottom		20 716	24 / 16	28 ¹⁵ / ₁₆	120 716
	4-sided	L-frame	20 /16	24 /16 26 ⁷ / ₁₆	307/16	120 /16
	4-sided with sill top or bottom	(except narrow colonial)	2113/16	25 ¹³ / ₁₆	2913/16	12113/16
	4-sided with sill top and bottom		213/16	251/16	293/16	1213/16
	4-sided with sill cap bottom		2115/16	25 ¹⁵ / ₁₆	2915/16	12115/16
	4-sided with sill frame top and sill cap bottom		2015/16	2415/16	2815/16	12015/16
	2-sided		207/16	247/16	287/16	1207/16
	3-sided and 3-sided inverted		213/16	253/16	293/16	1213/16
	3-sided sill top or bottom		2013/16	2413/16	2813/16	12013/16
	3-sided inverted with sill cap bottom		2015/16	24 ¹⁵ / ₁₆	2815/16	12015/16
	4-sided	Narrow colonial L-frame	21 ¹⁵ ⁄ ₁₆	25 ¹⁵ / ₁₆	2915/16	121 ¹⁵ ⁄16
	4-sided with sill top or bottom		21%	25%	291/16	121%
Φ	4-sided with sill top and bottom		213/16	25¾6	293/16	121¾6
ame	4-sided with sill cap bottom		21 ¹¹ / ₁₆	25 ¹¹ / ₁₆	2911/16	12111/16
J-F.	4-sided with sill frame top and sill cap bottom		2015/16	2415/16	2815/16	12015/16
Frame-to-Fr	2-sided		207/16	247/16	287/16	1207/16
ram	3-sided and 3-sided inverted		235/16	275⁄16	315/16	1235⁄16
<u> </u>	3-sided sill top or bottom		2013/16	24 ¹³ / ₁₆	2813/16	12013/16
	3-sided inverted with sill cap bottom	3½" deco frame	2015/16	24¹⁵⁄₁6	2815/16	12015/16
	4-sided	(curved, beaded,	26¾6	31¾6	35¾6	126¾6
	4-sided with sill top or bottom	and craftsman)	2311/16	2711/16	3111/16	12311/16
	4-sided with sill top and bottom		213/16	25¾6	293/16	121¾6
	4-sided with sill cap bottom		2313/16	27 ¹³ / ₁₆	3113/16	123 ¹³ / ₁₆
	4-sided with sill frame top and sill cap bottom		2015/16	2415/16	2815/16	12015/16
	2-sided		207/16	247/16	287/16	1207/16
	3-sided and 3-sided inverted		22¾	26¾	30¾	122¾
	3-sided sill top or bottom		2013/16	2413/16	2813/16	120¹³⁄₁6
	3-sided inverted with sill cap bottom	3" deco frame	2015/16	2415/16	2815/16	12015/16
	4-sided	(traditional)	231//8	271/8	311//	1231/8
	4-sided with sill top or bottom		2211/16	2611/16	3011/16	12211/16
	4-sided with sill top and bottom		213/16	25¾6	293/16	121¾6
	4-sided with sill cap bottom		231/4	271/4	311/4	1231/4
	4-sided with sill frame top and sill cap bottom		2015/16	2415/16	2815/16	12015/16

NOTE: Maximum height of top panel is 60". Maximum height of bottom panel is 84".

Sunburst Arch without Frame

Specialty Shape without Frame: Panel Only

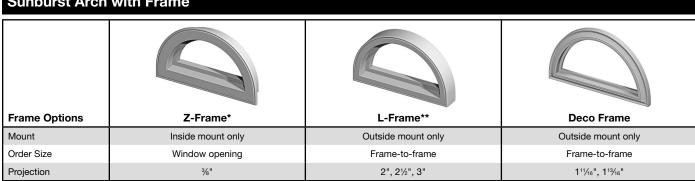
- Sunburst pattern-no horizontal louvers
- Beveled louvers for maximum light control
- Louver sizes will vary based on height and width of arch
- Louver rotation will vary based on louver size and louvers will not open to a full 90 degrees
- The arch has no tilt bar; the louvers open individually and are spring loaded at the bottom pin
- All wood colors available; wood arches can be matched to composite colors
- Buildouts not available
- Panel is 1" thick and may not match projection of other outside mount standard shutters
- Order arch as frame-to-frame finished size (factory takes no deductions)

Allow sufficient wall space to mount. Panel-only arches are:

Wood Frameless Arch Base Width (inches)	Top Rail Size (inches)	Bottomrail Size (inches)
20 to less than 24	2	1
24 to less than 45	3	2
45 to less than 80	3	3
80 to 108	4	4

Specialty Shape without Frame: Minimum and Maximum Sizes							
		Wie	dth	Hei	ght		
Frameless Full and ¼ Sunburs	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)			
Height	Perfect Sunburst Arch (order as eyebrow) Height = 50% of width No template required	20	108	10	54		
Height Width	Eyebrow Sunburst Arch Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if height exceeds 54% of width	20	108	7	54		
H1 Width H2 Width	Elongated Sunburst Arch Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if ordered height minus ordered leg height exceeds 54% of width	20	108	10	71¼		
Height	Elliptical Sunburst Arch Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template always required	20	108	10	54		
Leg Height Center Height	% Eyebrow Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 108% of width	15	54	7	54		
Leg Height Width A Center Height	% Elongated Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 132% of width	15	54	10	71¼		

Sunburst Arch with Frame



^{*}Framed arches not available with tilt-out Z-frame.

NOTE: All frame types are available with sill bottom.

Buildouts are available on L-frame and deco frame arches (not available with sill bottom). Sill cap not available.

Specialty Shape without Frame: Minimum and Maximum Sizes							
			Width		Height		
Framed Full and ¼ Sunburst Arches				Maximum (inches)	Minimum (inches)	Maximum (inches)	
Height Width	Perfect Sunburst Arch (order as eyebrow) Height = 50% of width No template required	Z-frame	21 ¹³ ⁄ ₁₆	10913/16	11 ¹³ ⁄ ₁₆	55 ¹³ / ₁₆	
		L-frame	221/8	1101//8	121/8	561/8	
		Narrow colonial L-frame	21%	105%	11%	55⅓	
		3" deco frame	24¾	112¾	14¾	58¾	
		3½" deco frame	25%	113%	15%	59%	
	Eyebrow Sunburst Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if height exceeds 54% of width	Z-frame	21 ¹³ ⁄ ₁₆	109¹³⁄₁6	813/16	55 ¹³ / ₁₆	
1		L-frame	221/8	1101//8	91//8	56½	
Height		Narrow colonial L-frame	21%	105%	85/8	55⅓	
		3" deco frame	24¾	112¾	11¾	58¾	
Widai		3½" deco frame	25%	113%	121/8	59%	
	Elongated Sunburst Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if ordered height minus ordered leg height exceeds 54% of width	Z-frame	21 ¹³ ⁄ ₁₆	109¹³⁄₁6	11 ¹³ ⁄ ₁₆	731/16	
H1 Height H2 Width		L-frame	221/8	1101//8	121//8	73%	
		Narrow colonial L-frame	21%	105%	11%	72 ⁵ / ₈	
		3" deco frame	24¾	112¾	14¾	76	
		3½" deco frame	25%	113%	15%	771//8	
		Z-frame	21 ¹³ ⁄₁ ₆	109¹³⁄₁6	813/16	731/16	
Height	Elliptical Sunburst Arch Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template always required	L-frame	221//8	1101//	91//8	73%	
		Narrow colonial L-frame	21%	105%	85/8	72%	
★		3" deco frame	24¾	112¾	11¾	76	
← Width →		3½" deco frame	25%	113%	121/8	771//8	
Leg Height Center Height Width	1/4 Eyebrow Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 108% of width	Z-frame	16¹¾16	55 ¹³ / ₁₆	11 ¹³ ⁄ ₁₆	55 ¹³ / ₁₆	
		L-frame	171//8	561//8	121//8	56½	
		3" deco frame	19¾	58¾	14¾	58¾	
		3½" deco frame	201/8	591/8	15 ⁷ / ₈	591//8	
Leg Height Center H2 Height Width	% Elongated Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 132% of width	Z-frame	16¹¾16	55 ¹³ ⁄16	11 ¹³ ⁄ ₁₆	731/16	
		L-frame	17½	56½	121//8	73%	
		3" deco frame	19¾	58¾	14¾	76	
		3½" deco frame	20%	59 ⁷ / ₈	15%	771/4	

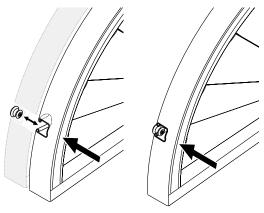
NOTE: The following frame types are not available as ½ arches:

- Narrow colonial L-frame
- Bullnose Z-frame
- Craftsman deco and Z-frame
- 21/2" and 3" extended standard L-frame
- 21/2" and 3" extended narrow colonial L-frame

^{**}Narrow colonial L-frame will have 15/16" projection.

Framed Arch Installation Option

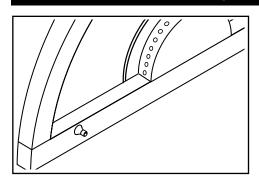
Arches arrive with the louvers not installed and packed separately. Louvers are numbered on bottom edge from right to left on the bottom as you look at the interior (room) side.



Framed Arch-Installing Panel to Frame

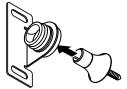
Button catch (imbedded) is standard. Panels are attached to frame via button catch. The frame itself installs as a standard L-, Z-, or deco frame.

Frameless Arch Installation Option



Bulldog Catch

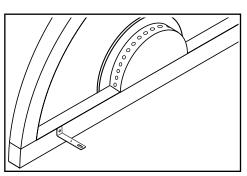
Bulldog catch works best with window openings that have a square edge. Allows arch panel to be removed for cleaning. Available in White.



Suggested quantity usage: Less than 36"-3

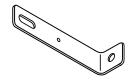
36" to 72"-5

72" to 108"-7



L-Bracket

L-bracket works best with windows that have a bullnosed edge. Long-throw on the L-bracket allows you to reach past the curved window edge to a flat surface. Available in zinc color.

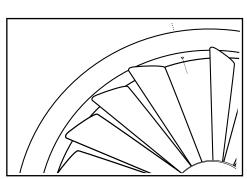


Suggested quantity usage:

Less than 36"-5

36" to 72"-7

72" to 108"-9



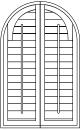
Trim Head Screw

If using trim head screws to mount, pilot a hole diagonally from underside of curved frame and exit through rear of frame. Place screw hole near louver pin to help hide hole from view.

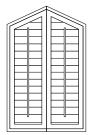


Arch and Angle Top Panel Shutters

See chart below for available options.





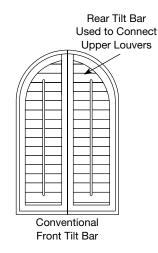


Angle Top Panel

	Arch Top Panel	Arch Top Panel with T-Post	1/4 Arch Top, 1/2 Angle, Angle	
Manufacturing Location	Reynosa	Asia	Asia	
Louver Sizes	2½", 3½", 4½"	2½", 3½", 4½"	2½", 3½", 4½"	
Colors	All wood colors Can match composite colors Custom/competitor color match	All wood colors Can match composite colors Custom/competitor color match	All wood colors Can match composite colors Custom/competitor color match	
Astragal	Yes-standard or reversed	Yes-standard or reversed	Yes-standard or reversed	
Hide-A-Tilt [™]	Yes	Yes	Yes	
Divider Rail	One available Center or specified Will have +/- 2" tolerance	One available Center or specified Will have +/- 2" tolerance	One available Center or specified Will have +/- 2" tolerance	
Split Tilt	One available Center or specified Will have +/- 2" tolerance	One available Center or specified Will have +/- 2" tolerance	One available Center or specified Will have +/- 2" tolerance	
Panel Configurations	All panel configurations up to and including 4 panels	All panel configurations with 5 or more panels	All panel configurations	
Frame Configurations	3-sided, 4-sided, 4-sided with sill bottom, 4-sided with sill cap	3-sided, 4-sided, 4-sided with sill bottom	3-sided, 4-sided, 4-sided with sill bottom	
Buildouts	Yes—outside mount frames, 4-sided only	Yes—outside mount frames, 4-sided only	Yes—outside mount frames, 4-sided only	
Frames Not Available	Tilt Z	Tilt Z Bullnose Z-frame Craftsman Z-frame 2½" L-frame 3" L-frame Narrow colonial L 3½" craftsman deco	Tilt Z Bullnose Z-frame Craftsman Z-frame 2½" L-frame 3" L-frame Narrow colonial L 3½" craftsman deco	
Hide-A-Tilt Colors	White Steel Grey	Steel Grey	Steel Grey	
Options Not Available on Specialties	Double hung 2-way closure Split tilt/divider rail combination			

Arch Operation

- Louver tilt is restricted up to 90° (degrees) due to the curvature (or slope) at the top of the panel; a divider rail or split tilt can be used to separate the upper arch portion from the lower rectangular portion; this will allow for full louver rotation of the louvers below the divider rail or split
- Arch louvers tilt/close in the upwards position only
- When ordering a wood arch and the tilt bar does not reach the top louvers, a tilt bar will be added to the back of the shutter to allow all louvers to close together at the same time



Rear Tilt Bar Used to Connect **Upper Louvers** Hide-A-Tilt is Available Optional Rear Hide-A-Tilt

Arch and Angle Top Panel Shutters Height Limitations

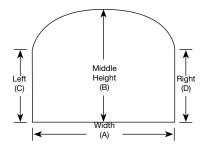
See size considerations for width minimums and maximums.

Ordered Height Limitations for Arch and Angle Top Shutters							
			Minimum (inches) Louver Size		Maximum (inches) Louver Size		
	Frame Configuration	Frame Type	2½", 3½"	4½"	2½", 3½", 4½"		
	2-sided	Hang strip/direct mount	151/4	201/4	1201/4		
Window Opening	3-sided	Z-frames	161//	211//8	1211//8		
Window Opening	4-sided with sill bottom	Z-frames	161/4	211//8	1211//8		
	4-sided	Z-frames	171/16	221/16	1221/16		
Frame-to-Frame	3-sided	L-frames	161/4	211//4	1211/4		
	4-sided with sill bottom	L-frames	16¾	21¾	121¾		
	4-sided	L-frames	171/4	221/4	1221/4		
	3-sided	Narrow colonial L-frame	16	21	121		
	4-sided with sill bottom	Narrow colonial L-frame	16½	21½	121½		
	4-sided	Narrow colonial L-frame	16¾	21¾	121¾		
	3-sided	Deco frames (curved/beaded/craftsman)	181//	231//8	1231//8		
	4-sided with sill bottom	Deco frames (curved/beaded/craftsman)	18½	23½	123½		
	4-sided	Deco frames (curved/beaded/craftsman)	21	26	126		
	3-sided	Traditional deco frame	17%	229/16	122%		
	4-sided with sill bottom	Traditional deco frame	1715/16	2215/16	12215/16		
	4-sided	Traditional deco frame	19%	241//8	1241/8		

NOTES:

- 1. Minimum leg height is 13" on arch top panels and angle tops.
- 2. All frames except tilt Z available.
- 3. Divider rail requirements are the same as standard shutters. One divider rail available on arches/angles.
- 4. Template required when the ordered height minus the leg height is over 54% of the width.

Measuring Leg Height and Divider Rail Height for Window Opening



Frames requiring WO measurement:

Z-frame, hang strip, and direct mount

Measuring Leg Height:

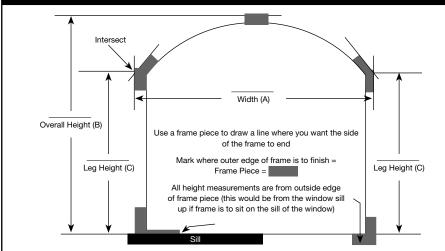
Measure from bottom of window up to arch "break point."

• Minimum leg height is 13"

Measuring Divider and Split Tilt Rail Height:

Measure from bottom of window up to center of divider rail/split tilt.

Measuring Leg Height and Divider Rail Height for Frame-to-Frame Measurement



Frames Requiring

F-F Measurement:

L-frames and traditional deco frames

Measuring Leg Height:

Measure from bottom edge of frame up to arch "intersect" of the window (C).

• Minimum leg height is 13"

Measuring Divider and Split Tilt Rail Height:

Measure from bottom of frame up to center of each divider rail/split tilt.

How To Make a Template

Template Requirements

Templates are only **required** for the following instances:

- Sunburst arches: if ordered height exceeds 54% of ordered width
- Arch top panels: if ordered height minus leg height is over 54% of ordered width
- Any arch with an elliptical arch shaped top

Templates are recommended for the following instances:

• Inside mount arches (direct mount, hang strip, frameless)

ALL OTHER ARCHES DO NOT NEED TEMPLATES.

Template Material

Acceptable material—Kraft paper, butcher paper, and light-weight poster paper that can be rolled without creasing. **Nonacceptable material**—Newspaper, wrapping paper, tissue paper, fabrics, wood, cardboard, and wax paper.

If material used to make template tears, stretches, will not lay flat, or cannot be rolled, Springs Window Fashions will refuse to use the template and require a new one.

If more than one piece of paper must be used, a strong packing tape must hold pieces together. Painter's tape or scotch tape will not be accepted; this allows the paper to move and measurements to become inaccurate.

Creating the Template

- Using painter's tape, tape paper over window opening, allowing adequate overlap over window to include any framing needed.
 - If window opening frame is being ordered, draw an exact outline of the window opening; manufacturing will make proper deductions for fit; be careful not to press in or crease the paper of the template while tracing.
 - If frame-to-frame arch or frameless arch is being ordered, the template should be made to the exact size needed; manufacturing will not take any deductions or make any additions to the size submitted.
- 2. Tracing arch should only be done with a pencil or pen that is no thicker than $\frac{1}{16}$ " thick to ensure correct arch size is ordered.
- 3. Remove the paper from the window and cut out the arch.
- 4. Fold template in half to verify template is symmetrical (mirror image). You may need to adjust size in field before shipping to Springs Window Fashions.
- 5. Once template is cut out, adjustments have been made, and template is symmetrical, place template back in window to ensure proper fit.
- 6. Mark template with the following:
 - · Room side
 - SWF order number
 - · Company name and account number
 - PO number
- 7. Attach a copy of the purchase order to the template.
- 8. Roll (DO NOT FOLD!) template and place in a shipping tube.
- 9. Mail to:

Springs Window Fashions, LLC Attn: Shutter Department 8467 Route 405 South P.O. Box 500 Montgomery, PA 17752

NOTE: Use only tape that will not pull off paint or wallpaper.

Comment on purchase order if a template is being sent; otherwise order may begin to be processed without.

French Door Options

- 2½", 3½", and 4½" louvers
- Available with Front Tilt (1-way and 2-way closure), Hide-A-Tilt™ (1-way and 2-way closure), Split Tilt
- All wood colors available; wood French doors can be matched to composite colors
- · Single panels hinged on the same side as the door
- L-frames include standard L, extended standard L, narrow colonial L, and extended narrow colonial L
- Sidelight not available
- Order frame-to-frame

- Outside mount only
- Divider rails are not available
- Buildouts can be requested at time of order, extended L-frames provided as necessary
- Button catches plus magnets are standard to provide for a secure closure
- Narrow colonial L-frame is made with magnet catch closure only
- Split tilt will have +/- 2" tolerance from requested location

| Projection Based on Louver Size (inches) | Standard L, Narrow Colonial L-Frame | 2½ | 2" L-frame | 3½ | 2½" L-frame | 4½ | 3" L-frame |

Manufacturing will automatically use a larger standard L-/narrow colonial L-frame projection for your order according to the louver size. An additional $\frac{1}{2}$ or $\frac{1}{2}$ can also be requested if needed for louver clearance on larger trims. Factory will also make all adjustments to back plate elevation based on trim projection and extra buildout requested.

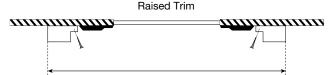
NOTE: All French door shutters for cut-out and no cut-out should be ordered at the same time to ensure rail size and louver counts will match.

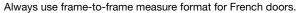
French Door Sizes: Minimum and Maximum

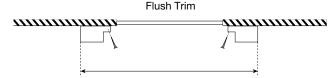
	Minimum (inches)	Maximum (inches)
Width	16¾	381/4
Height	37³/₄	901/4

French Door Shutters: Placement of L-Frame

L-frame always sits outside of the trim, never on the trim. If no raised trim, place the L-frame far enough beyond the glass to rest totally flat on the door and to avoid risk of breaking the glass when driving the mounting screws in place. Use caution when placing screws, as the glass often extends under the trim and could easily crack.



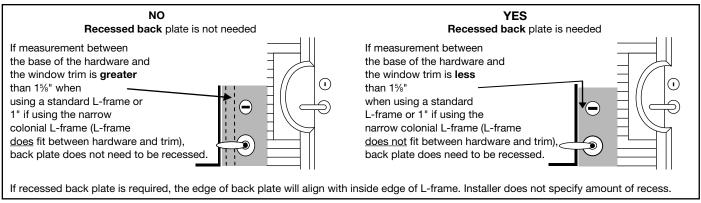




Always use frame-to-frame measure format for French doors.

French Door Shutters: Recessed Back Plate

A recessed back plate is required when there is insufficient space between the base of the door hardware and the glass trim to place L-frame flat on the door surface.



Caution:

- 1. When measuring (F-F) width and height, be sure that L-frame can rest flat on the door surface and not be obstructed by the glass trim.
- 2. If "yes" is selected, the edge of the recessed back plate will be built to align with the inside edge of the L-frame.

French Door Options: Cut-Out

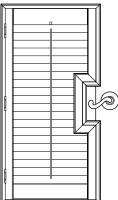
L-Frame No Cut-Out



This should only be ordered when installed next to a French door with cut-out; otherwise order it as a standard shutter.

NOTE: If ordered as standard shutter, French door button catch can be added at time of order.

Rectangular Cut-Out (surcharge applies)



Curved Cut-Out (surcharge applies)

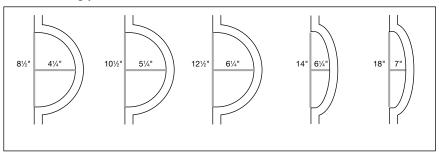


Order Rectangular Cut-Out when:

- 1. Choose if the base of the door hardware is rectangular.
- Must specify width and height of the cut-out. There are NO set standard sizes to conform to. There are NO templates to use.
- Be sure to make proper allowances for the door handle to pivot easily when determining your cut-out size.

Order a Curved Cut-Out when:

- 1. Choose a curved cut-out if the base of the door handle (or knob) is round.
- 2. Five (5) standard cut-out sizes are available: three (3) half-circles and two (2) half-ovals.
- 3. Other custom sizes of curved cut-outs are NOT available.
- 4. Be sure to make proper allowances for the door handle to pivot easily when determining your cut-out size.

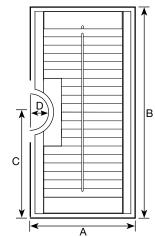


This image is taken from the backside of the French door order form.

C A

Rectangular Cut-Out

- A = Shutter width-frame-to-frame
- **B** = Shutter height—frame-to-frame
- **C** = Bottom of shutter frame to **bottom** of cut-out
- B **D** = Width of cut-out
 - E = Height of cut-out



Curved Cut-Out

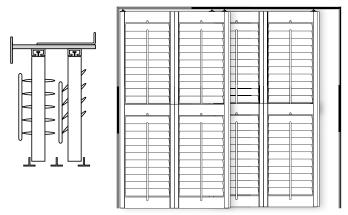
- A = Shutter width—frame-to-frame
- **B** = Shutter height—frame-to-frame
- C = Bottom of shutter frame to center of cut-out
- B **D** = Width of cut-out

NOTE: Laminated template is available to help size curved cut-out (contact customer service to request).

Bypass Shutters

- Ideal solution for large windows and patio doors
- System consists of a double-top track and optional floor guides (no bottom track)
- · All wood color options available
- Available in all louver sizes
- Available with Front Tilt (1-way and 2-way closure),
 Hide-A-Tilt™ (1-way and 2-way closure), and Split Tilt
- See the minimum and maximum order sizes charts (factory to determine panel size based on width ordered and configuration)
- Divider rail required over 84" ordered height
- Tracks wider than 144" will be spliced
- Header and valance could be spliced over 96"
- 1/2" buildout is available
- Divider rail with split tilt not available on the same shutter

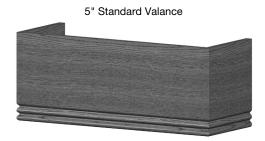
- Mounting options:
 - Outside mount—with or without box-out (box-out recommended)
 - Exact frame-to-frame with box-out
 - Inside mount-minimum window depth 5%"
- All mounting options include:
 - Track and header board: Unit includes two tracks installed to header; header is 5½" deep and ¾" thick
 - Valances: Two top treatment styles available: 5" double beaded standard valance and 4½" decorative valance (optional)
 - Outside mount is available with stack back or custom header, see "Bypass Track System Stack Back Option" and "Custom Header" sections



NOTE: Louvers must be closed in order for panels to pass each other.

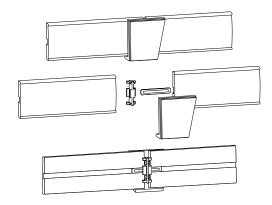
Bypass Valance Options





Valance Keystones

- Decorative keystones are automatically provided on wood valances that require splicing
- Keystones are centered/equally spaced unless special splice location is requested at time of order
- Optional keystones can be ordered with single piece valances under 96"; for surcharge, see price charts
- Maximum number of keystones per valance is three
- · Keystones are stained or painted to match shutter color ordered
- Measuring instructions:
 - For inside/outside/exact ordering—indicate keystone measurement from left of window opening to center of keystone; manufacturing will calculate valance and keystone location to ensure correct location when installed in window.
 - For special valance width ordering—provide exact valance backside measurement needed; measure using inside measurement from inside corner of miter to center of keystone; keystone locations will be exact.



Bypass Shutters: Mounting Options



OUTSIDE MOUNT-WITH FACTORY ADDITIONS

Width Measure (with box-out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim and record as window opening size. Regardless of ordered size, factory will add 3½" to your overall ordered width.

NOTE: When measuring, add more for bullnose drywall so that the frames mount completely on flat surface.

Width Measure (without box-out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim and record as window opening size. Regardless of ordered size, factory will add 1¼" to your overall ordered width.

NOTE: When measuring, add more to extend beyond window edge for more privacy.

Height Measure (with or without box-out): If no window trim: measure from floor surface to top of the window opening. If window trim: measure to top of window trim. Regardless of ordered size, factory will add 2%" to your overall ordered height.

Other Measuring Considerations: 1/2" buildout is available.

Valance Information: Valance returns are included and wrap around the outside of the box-out, if ordered. Returns are mitered (special valance width and return width available).

Box-Out Information: Optional side frames are 5½" deep and ¾" thick.

Stack Back Information: Optional to allow shutter panels to clear the window opening; factory will calculate based on ordered size. Custom/special header board size is also available if full stack back cannot be achieved.



OUTSIDE MOUNT-EXACT FRAME-TO-FRAME

Width and Height Measure: Factory will not add or deduct from ordered size—measure width and height as finished frame-to-frame size including the box-out. Only available with box-out.

Other Measuring Considerations: ½" buildout is available.

Valance Information: Valance returns are included and wrap around the outside of the box. Returns are mitered (special valance width and return width available).

Box-Out Information: Required box-out side frames are 5½" deep and ¾" thick.

Stack Back Information: Stack back is not available. Custom/special header board size is available.

INSIDE MOUNT-WITH FACTORY DEDUCTIONS

Width Measure: Order window opening width and factory will make a $\frac{1}{2}$ " deduction off the track for proper fit.

Height Measure: Order window opening height and factory will make a $\frac{1}{2}$ " deduction. The carriers are adjustable.

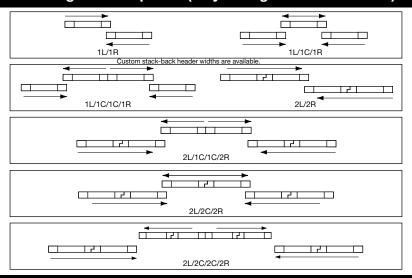
Other Measuring Information: Minimum window depth required for 5%." No buildouts available.

Valance Information: Special valance width available. Valance returns and special return width available.

Box-Out Information: Not available.

Stack Back Information: Stack back and custom/special header board size are not available.

Bypass Track System Configuration Options (only configurations available)



Bypass Shutters: Minimum and Maximum Width (order size by panel configuration)

		Outside Mount with Additions		Inside Mount		Outside Mo	ount-Exact
		Order V	VO Size	Order V	VO Size	Exact Frame-to-Frame	
Panel Configuration	Example of Shutter Unit Configurations Using Various Panel Combinations	Minimum Width (inches)	Maximum Width (inches)	Minimum Width (inches)	Maximum Width (inches)	Minimum Width (inches)	Maximum Width (inches)
1L/1R		18	70	20	71	191⁄4	731/4
1L/1C/1R*		27½	104	28½	106½	27¾	108¾
1L/1C/1C/1R		37	141	38	142	361/4	144¼
2L/2R		37¾	141¾	38¾	142¾	36	145
2L/1C/1C/2R*		56	212	581//8	213	541/4	216¼
2L/2C/2R*		571/8	2131/8	581//8	213	541⁄4	216¼
2L/2C/2C/2R		76½	284½	77½	285½	71 ¹³ ⁄₁6	287¹³⁄₁6

^{*}Window opening is 33% with these panel configurations. Stack back or custom header recommended.

NOTES:

- Same minimum/maximum sizes apply if ordered with stack back options and with or without box-out.
- 2. Combinations with a 2C, 2L, or 2R will be rabbeted together and move as one unit.

Wood Bypass Height Minimum and Maximum								
Options Minimum (inches) Maximum (inches								
Outside Mount	15%	120%						
Inside Mount	171/4	1221/4						
Exact	15%	1221/4						

Setting Bracket Height

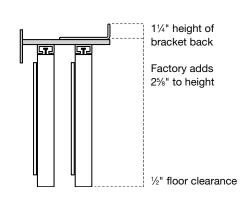
(for outside mount without side frames)

For Wall Mount Bypass Shutter System

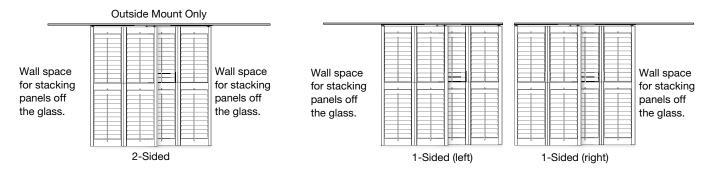
Top of Angle Bracket to Floor:

Top of bracket is 3% above ordered height. This includes ½ clearance off the floor.

NOTE: With optional box-out, side frames determine the mounting height. Bottom edge of side frame is meant to touch the floor surface.



Bypass Track System Stack Back Option



The stack back option allows for the shutter panels to clear the window opening, creating an unobstructed view. Panels made to cover window. Header/track made larger so panels stack off glass.

Measure only the window opening area for outside mount with stack back. Factory will calculate the correct stack back needed for full stack back. Custom header also available.

System consists of a double-top track and floor guides.

Calculating Approximate Stack Back: Factory will add additional width to ordered size for stack back. Amounts vary, depending on the number of panels. See chart below for total (approximate) amount that will be added to the window opening size. This determines the approximate overall unit width.

% of Window Opening Size Added for Various Numbers of Panels									
2	2 3 4 6 8								
50%	66%	50%	66%	50%					

Custom Header

If wall space is not available for complete stack back, custom header size may be ordered. Give window opening size and custom header size.

- Panels will be built to cover the window opening size
- The track, header, and valance will be built to the custom size requested
- Available on bypass and bifold track systems
- · Outside mount only

ORDER ENTRY TIP: Enter the opening size as the ordered width. Choose "no" for stack back and then place desired finished size in the customer header field.

Bifold Track System Stack Back Option

The stack back option allows for the shutter panels to clear the window opening, creating an unobstructed view. **Panels made to cover window. Header/track made larger so panels stack off glass.**

Measure only the frame-to-frame area for outside mount with stack back. Factory will calculate the correct stack back needed for full stack back. Custom header also available.

System consists of a single top track and optional bottom track.

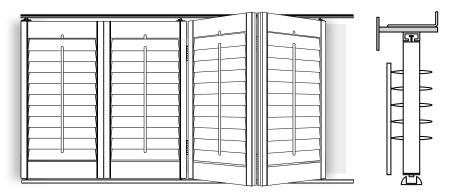
Calculating Approximate Stack Back: Factory will add additional width to ordered size for stack back. Amounts vary, depending on the number of panels. Total (approximate) amount that will be added to the window opening size is calculated by multiplying the number of panels by 1½. This determines the approximate overall unit width.

Bifold Track System

- System consists of top and bottom track and quarter-round as standard
- · Available in all louver sizes
- All wood color options are available
- Available with Front Tilt (1-way and 2-way closure),
 Hide-A-Tilt™ (1-way and 2-way closure), and Split Tilt
- · Divider rail with split tilt not available on the same shutter

Configuration Options:

- · Outside mount with box-out
- Outside mount with box-out and stack back
- Inside mount



Bottom Track Detail

Installer screws the track to the floor and attaches "quarter-round" up to the face of the track (and along the back of the track, if needed).

NOTES:

- Factory does not supply adhesive, trim nails, or other fasteners to install quarter-round.
- Factory always furnishes bottom track. Installer determines whether bottom track is needed.

Bifold Track System: Mounting Options

OUTSIDE MOUNT NOTES—WITH FACTORY ADDITIONS

Width Measurement (using the required box-out): If no window trim: measure window opening (WO) size. If window trim: measure outside edge of trim to outside edge of trim. Factory will add 5" to your overall ordered width.

NOTE: When measuring, add more for bullnose so that frames mount completely on flat surface.

Height Measurement: If no window trim: measure from floor surface to top of window opening. If window trim: measure to top of window trim. **Factory will add 3½" to your overall ordered height.**

Other Measurement Considerations: If there are window moldings, factory can accommodate only up to ½" thick molding when using 3½" louvers and Hide-A-Tilt.

Track and Header Board: Unit includes track installed to header board. Header is 31/2" deep and 3/4" thick.

Valances and Returns: One top treatment style is available: standard 2%" single-bead valance. Valance returns are included and wrap around the outside of the box-out (frame). Refer to the valance options.

Box-Out (side frames): Side frames are required for securing the pivot set of outermost panels. Box-out frame is ¾" x 3½".

Stack Back Available: Optional stack back is available for outside mount bifold shutters. Custom stack back widths are available.

INSIDE MOUNT NOTES—WITH FACTORY DEDUCTIONS

Width Measurement: Order WO (window opening) and provide net window width. Factory will make ½" deduction from the track for proper fit.

Height Measurement: Order WO (window opening) and provide net window height. Factory will make approximately ½" deduction. Carriers are adjustable.

Minimum window depth requirement 3%". Standard edge gap (edge of panel to inside of window edge) is %" on both sides of the units.

Track and Header Board: Unit includes track installed to header.

Valances and Returns: One top treatment style is available: standard 2%" single-bead valance. No returns are available. Valance ends are not mitered. Refer to the valance options.

Box-Out (side frames): Box-out is not available. The pivot set of outermost panels is secured to the inside of window opening. **Stack back not available**.

Bifold Shutters Minimum and Maximum Width (order sizes by panel configuration)

	Outside Mount (with side frame)		Stack	lount with Back e frame)	Inside Mount		
		Order V	VO Size	Order V	VO Size	Order V	VO Size
Panel Configuration	Example of Shutter Unit Configurations Using Various Panel Combinations	Minimum Width (inches)	Maximum Width (inches)	Minimum Width (inches)	Maximum Width (inches)	Minimum Width (inches)	Maximum Width (inches)
LL/RR		17	49	14	48	21	54
LLRR/LLLL/RRRR		38	100	32	95	41	105
LLLLRRRR		80	205	70	194	80	209

Wood Bifold Height Minimum and Maximum							
Options Minimum Maximum (inches) (inches)							
Outside Mount	171/8	1201//8					
Inside Mount	15⅓	1221//8					

Setting Bracket Height (for outside mount)

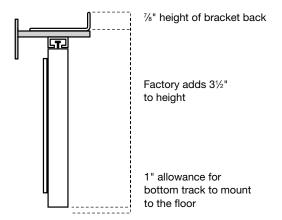
For Wall Mount Bifold Shutter System Top of Angle Bracket to Floor:

Top of bracket is 5%" above ordered height.

NOTE: Side frames determine the mounting height. Bottom edge of side frame is meant to touch the floor surface.

Bifold Track System Divider Rail Requirements

- Divider rail required over 84" ordered height
- Tracks wider than 144" are spliced; header and valance may be spliced over 96" wide



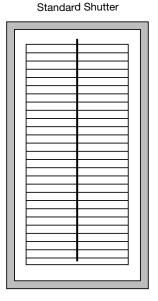
Bifold Valance Options

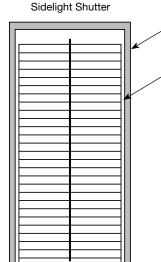
23/8" Standard Valance



NOTE: Valance keystones available. See "Valance Keystones" section.

Sidelight

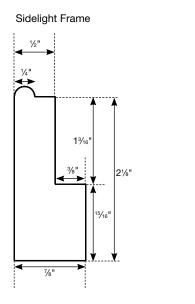


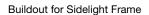


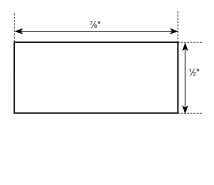
- 21/2" and 31/2" louvers only
- Low profile L-frame style, similar to sill frame
- 4-sided frame configuration only
- Frame-to-frame (F-F) measuring
- Narrow panel side stile width
- Left or right panel configurations only
- Divider rail never required, but is available
- Buildout is available and is automatically furnished when specifying 3½" louvers; maximum one layer of buildout; buildout is attached at the factory
- Available with Front Tilt (1-way and 2-way closure), Hide-A-Tilt™ (1-way and 2-way closure), and Split Tilt
- Not available as double hung

- Panel side stile = 2"
- Standard L-frame face width = 1"
- Panel side stile = 13/8"
- Sidelight frame face width = ½"

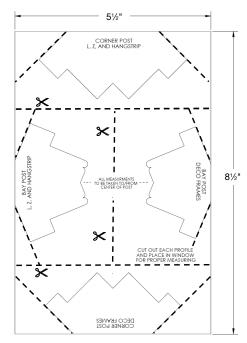
	Minimum and Maximum Sizes												
	Width	(all louver sizes)		Height									
Minimum Order Size	Maximum Order Size	Minimum Finished	Maximum Finished	Minimum Order Size (F-F size) (inches)	Maximum Order Size (F-F size) (inches)	Maximum Order Size (F-F size) (inches)							
(F-F size) (inches)	(F-F size) (inches)	Panel Width (inches)	Panel Width (inches)	2.5" louvers	3.5" louvers	All Louver Sizes							
73/16	13¾6	6	12	111/4	131/4	971/4							





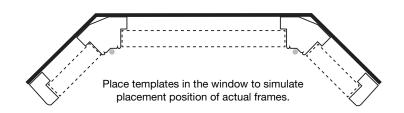


Bay Windows



Frame (footprint) template available. Cut out individual pieces for use during measure.

- 135° (degree) angled bays only
- Framed configurations offered:
 - · 2-sided framed configurations only
- Unframed configurations offered:
 - Direct mount and hang strip
- All frame styles except tilt-out Z, narrow colonial L, extended standard L, extended narrow colonial L, bullnose Z, craftsman Z, deco, and sill cap available
- T-posts are available (see parameters below)
- No buildout is available
- 2½", 3½", and 4½" louvers
- Split tilt is available as center only (cannot specify)
- · Not available as double hung

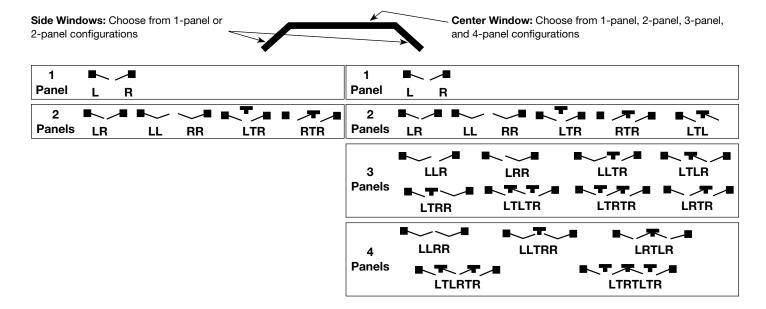


Measuring Tips

- 1. For direct mount, hang strip, and Z-frame: order WO. Measure from inner edge of window to center of bay post.
- 2. For L-frame and deco frame: order F-F. Measure from outside edge of outer frame to center of bay post.
- 3. For center shutter: measure from center of bay post to center of bay post.

Both measure formats use the (front) center of the bay post as reference points (see small dots on diagram above).

Available Panel Configurations by Window Locations-For Bay Windows



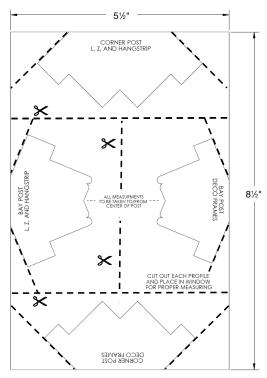
Bay Windows

Minimum and Maximum Order Width Sizes by Fold Pattern and by Frame Type

			Mount Strip	Z-F r	ame		ditional Frame	Bea	urved, ded, Frame	L-Fr	ame
		Orde	r WO	Orde	r WO	Order F	Order F-F Size Order F-F Size		Order F-F Size		
	configurations Available Side Windows of the Bay	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
1 Panel	L R	913/16	36 ¹³ / ₁₆	10%6	37%16	121//8	391/8	1213/16	39¹³⁄₁6	1013/16	37¹³⁄₁6
2 Panel	LR	18%16	72%16	19%	73%16	2013/16	74 ¹³ ⁄ ₁₆	217/16	75½6	19%6	73%16
2 Panel, 1 T-Post	LTR or RTR	20	74	20¾	73%	225/16	75%	22 ¹³ / ₁₆	75 ¹⁵ ⁄ ₁₆	21	74
1 Bifold	LL or RR	18%16	52%6	19%6	52%	20%	54¾	217⁄16	55½6	19%16	53 ⁹ ⁄16

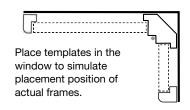
Panel Configurations Available for the Center Window of the Bay, Bay Post-to-Bay Post Only (no frame to consider) Minimum (inches) (inches)								
1 Panel	L R	10 ⁷ / ₁₆	37 ⁷ / ₁₆					
2 Panel	LR	19¾6	73¾6					
2 Panel, 1 T-Post	LTR	20%	73%					
1 Bifold	■ ~	19%6	53¾16					
1 Panel, 1 Bifold	LLR	285⁄16	895/16					
1 Panel, 1 Bifold, 1 T-Post	LLTR	295%	110%					
3 Panel, 2 T-Post	LTLTR	30¹³⁄₁6	111¹³∕₁₅					
2 Bifold	LL RR	37⅓6	105¾6					
2 Bifold, 1 T-Post	LLTRR	38⅓	106%					
4 Panel, 1 T-Post	LRTLR	38%	146%					
4 Panel, 2 T-Post	LTLRTR	39%	147%					
4 Panel, 3 T-Post	LTRTLTR	40%	148%					

Corner Windows



individual pieces for use during measure.

- 90° (degree) angled corners only
- Framed configurations offered:
 - 2-sided framed configurations only
- Unframed configurations offered:
 - · Direct mount and hang strip
- All frame styles except tilt-out Z, narrow colonial L, extended standard L, extended narrow colonial L, bullnose Z, craftsman Z, deco, and sill cap available
- T-posts are available (see parameters below)
- No buildout is available
- 2½", 3½", and 4½" louvers
- Split tilt is available as center only (cannot specify)
- Not available as double hung

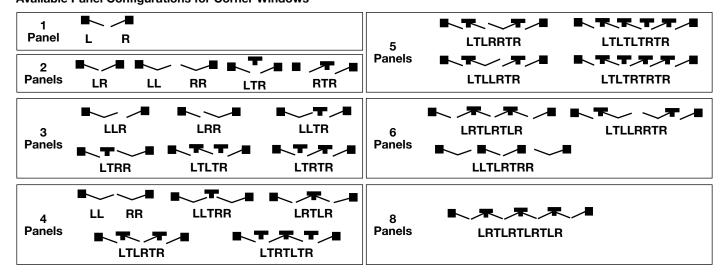


Measuring Tips

- 1. For direct mount, hang strip, and Z-frame: order WO. Measure from inner edge of window to center of corner post.
- 2. For L-frame and deco frame: order F-F. Measure from outside edge of outer frame to center of corner post.

Both measure formats use the (front) center of the corner post as reference points (see small dots on diagram above).

Available Panel Configurations for Corner Windows



Corner Windows

Minimum and Maximum Order Width Sizes by Fold Pattern by Frame Type

		Hang	Mount Strip	Z-Fr	ame	3" Trad	litional, Frame	Bea Deco	urved, ded, Frame		ame
		Orde			r WO		F-F Size		F-F Size		F-F Size
	onfigurations Available for ndows of the Corners	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
1 Panel	L R	913/16	36¹³⁄₁₅	10%6	37%6	121//	391/4	1213/16	39¹³⁄₁6	10¹³⁄₁6	37¹¾ ₆
2 Panel	LR	18%	72%16	19%6	73%16	2013/16	74¹³⁄₁6	217⁄16	75½6	19%	73%6
2 Panel, 1 T-Post	LTR or RTR	20	74	20¾	73%	225⁄16	75%	22¹³⁄₁6	75 ¹⁵ /16	21	74
1 Bifold	or ~	18%	52%	19%6	52%	20%	54%	217/16	55¾6	19%	53%
1 Panel, 1 Bifold	LLR	271/4	881/4	28%	89%	30¾6	91¾6	30%	91%	281/4	891/4
1 Panel, 1 Bifold, 1 T-Post	LLTR	281/4	891/4	295/8	90%	31¾6	923/16	31%	92¾	291/4	901/4
3 Panel, 2 T-Post	LTLTR	29	110%6	30¹⁵⁄₁6	11115/16	32½	113½	33¾16	114¾16	30%6	111%
2 Bifold	LL RR	36%	104%	37¹1⁄₁6	10511/16	391/4	10815/16	39¹⁵⁄₁6	10815/16	375⁄16	1055/16
2 Bifold, 1 T-Post	LLTRR	371/8	1051/8	38½	106½	401/16	1081/16	40¾	108¾	381/4	1061/4
4 Panel, 1 T-Post	LRTLR	371/8	1451/8	38½	146½	401/16	148½6	42¾	148¾	381/4	1461⁄4
4 Panel, 2 T-Post	LTLRTR	387/16	1467/16	39¹³⁄₁₅	147¹³⁄₁6	41%	149%	421/16	1501/16	397/16	1477/16
4 Panel, 3 T-Post	LTRTLTR	39¾	147¾	411/8	1491⁄8	4211/16	15011/16	43%	151%	40¾	148¾
3 Panel, 1 Bifold, 2 T-Post	LTLRRTR	47%	162%	50 ¹³ / ₁₆	16513/16	55¾6	170¾6	57	172	50%	165%
5 Panel, 4 T-Post	LTLTLTRTR	49¹⁵⁄₁6	18415/16	531/%	188⅓	561//	1921//	585/16	1935⁄16	52 ¹⁵ ⁄16	187¹5⁄₁6
2 Panel, 2 Bifold, 2 T-Post	LTLLRRTR	56¾16	178¾6	57%16	179%6	591//	1811//	59 ¹³ ⁄ ₁₆	181¹¾ ₆	57 ¹³ / ₁₆	179¹¾₁6
6 Panel, 2 T-Post	LRTLRTLR	56¾16	218¾6	57%	219%6	59%	2211//8	59 ¹³ ⁄ ₁₆	221 ¹³ ⁄ ₁₆	57 ¹³ / ₁₆	219¾6
8 Panel, 3 T-Post	LRTLRTLRTLR	751/4	291¼	76%	292%	78¾16	294¾16	78%	2947/8	76½	2921/4

General Information

Definitions

Aligning Catch—Concealed magnet and catch plate on back top side of café panels. Used to provide a flush panel alignment.

Astragal—Covers clearance gap between two panels for the purpose of eliminating light gap. Integral to stile.

Bifold—Two panels are hinged together to lie flush against the window or wall.

Bifold Track System—Two or more hinged panels on a track. Panels do not lie flush against the window or wall.

Box-Out Frame—Track system frame option that creates an outside mount application consisting of a three-sided frame with or without a decorative valance.

Buildout—Used in conjunction with frames to move panels away from window, allowing additional clearance for louvers to open.

Bypass Track System—Two or more panels on two-overhead track that slide and pass each other.

Café Style Shutters—Cover the lower portion of an opening. They can be made to any height within product specifications.

Direct Mount—Mounting the shutter panels directly to the window casing.

Divider Rail—A rail that divides the shutter panel into two horizontal sections. It is used to add strength to a tall panel or add a decorative touch.

Double Hung—One set of panels installed over top of another set of panels within one framed window opening. Can be combined with a horizontal T-post if needed.

Guide—Component part used with bypass configurations to lead the panels so that they do not project into the room.

Hang Strip—The mounting frame that is used for inside mount shutter panels.

Inside Mount—A shutter that is mounted on the inside of an opening.

Light Block—Square rail that blocks light between the window sill and the shutter panel. Used with direct mount, hang strip, 2-sided frames, and 3-sided frames.

Louvers - The movable fins inside the shutter panel.

Mouse Hole—Recess at the top/bottom of the panel that the tilt bar rests in when the louvers are completely closed. 1-way closure will give tighter closure than 2-way.

Outside Mount—A shutter that is mounted on the outside of an opening.

Panel—The part of the shutter that consists of a set of louvers, two rails, and two stiles.

Rabbet Stile—A special cut on the stiles that allows the panels to overlap. Helps control light penetration between the panels.

Rails—The top and bottom solid portions of a panel that frame the louvers.

Sill Cap—Decorative wood sill used to cover existing sills that protrude from window.

Split Tilt—Divides louvers into two operable sections by attaching two separate tilt bars.

Square Window—Diagonal measurements must be within ¼" difference. Windows that are not square will need to have the shutter mounted to the outside of the window opening.

Stack Back—Configuration that allows the panels of the bypass or bifold track system to completely slide beyond the window opening.

Stile—The vertical portion of the panel frame to which the louvers are anchored.

Strike Off—Sample color swatch to be approved prior to the production of the order.

Tilt Bar—A vertically mounted bar located on the front of the shutter. Not used to tilt the louvers, but is attached so all louvers connect together and move in unison when a louver is moved.

T-Post—A vertical post that divides the shutter into multiple sections (used with wider shutters). Also used horizontally to separate panels on double hung shutters.

Window Depth—The distance from the surface of the wall to the closest part of the window (examples: latch, crank, frame, etc.).

Care Instructions

Wood Shutters

Occasional light vacuuming with a brush attachment should keep shutters clean. For minor soiled areas, clean with warm water using a clean cotton cloth. Dry with a second clean cotton cloth. For more severe soiling, use a mild detergent diluted to a 5% solution with room temperature water. Clean with a cotton cloth. Wipe area with clear water to remove any detergent residue and dry with cotton cloth.

Adjusting Tension System

The wood shutters that you have purchased include a built-in tension system to allow for adjustments. If you find that your louvers are too loose or are not functioning to your standards, simply follow these instructions. Open the panels fully; on each side of the panel you will find a tension adjustment screw hole. With a small screwdriver, gently turn the screw one to two turns (left to loosen, right to tighten the tension) to your desired resistance level on each side of the panel. Repeat this process for each panel, if necessary.



Graber is a brand of Springs Window Fashions, the Best Experience Company Graber and the Graber logo are registered trademarks of Springs Window Fashions, LLC.

(5/22) | 21-294702

GRABER.

Graber Wood and Composite Shutters

Designers US Price List — Effective February 2023

Wood Shutters Pricing

Frame Type	Price (per square foot)		
	Painted	Stained	
Hang Strip, Direct Mount	75.62	84.39	
L-Frames, Sidelight Frame	77.73	86.63	
Deco Frames, Z-Frames, Tilt-Out Z-Frame	79.16	88.07	
Bifold/Bypass Track Systems*	81.54	88.74	

Wood Specialty Shutters Surcharges

How to calculate specialty retail price: Calculate overall square footage of the specialty shutter; then multiply the base price of the frame type chosen, and add the surcharge from chart below. For quarter arches, quarter arch panels, all angles, and any arch panel configuration with a T-post and more than four panels, round up width and height to whole number before calculating square foot value.

	Frameless, Hang Strip, Direct Mount	L-Frame	Deco Frame	Z-Frame
Sunburst Arches	500	575	625	625
Quarter Sunburst Arches	500	575	625	625
Arched Panel Shutters	500	575	625	625
Angled Panel Shutters	500	575	625	625

Additional Surcharges			
Astragal	No charge		
Bifold or Bypass Box-Out (outside mount only)*	15%		
Bifold or Bypass Stack Back*	5%		
Bypass Decorative Valance	No charge		
Café Aligning Catch	No charge		
Café Shutter with 4-Sided Frame	5%		
Custom Color (flat fee per color per order)	149 net		
Double Hung	15%		
French Door Cut-out**	500		
Hide-A-Tilt™ Bar	10%		
Stainless Steel Hinge	5%		
Valance Keystones (when requested without a splice)	22		
Wood Corner Post and Bay Post	61.25		
Wood Sill Cap	10%		

^{*} Calculate the overall square footage of the bypass or bifold panels, multiply by the per square foot price based on frame type, and use that total to calculate the surcharge for the box-out and/or stack back.

Updated: 12/2/2022

^{**} Calculate the overall square footage of the French Door panel, multiply by the L-Frame per square foot price; then add the surcharge.

NOTE: 1/4 arches, 1/4 arch panels, all angles, any arch panel configuration with more than four panels, and all associated standard shutters will be made in Asia.

Standard shutters ordered with any of these specialties are sent to Asia to ensure consistency in color and finishing.

Wood Shutters Paint Colors					
Angora	1052	Medium Grey	1841	Base White*	2051
Antique White	1026	Pearl	1922	Creamy White*	2729
Base White	1051	Snow White	1909	Silk White*	2922
Crisp White	1712	Snowflake	1603	Competitive Paint	COMP
Dover White	1683	Stepping Stone	1889	Custom Paint	CUSP
Dovetail	1839	Stucco	1963	Unfinished Paint**	UFP
Grey Beige	1817				

*Composite color match.

**Unfinished paint grade comes primed.

NOTE: Color of wood may vary slightly due to the natural characteristics of wood.

Wood Shutters	s Stain Colors				
Allspice*	9821	Golden Oak	1030	Timeless Grey	1847
Base Black	1767	Harbor Grey	1761	True Taupe	1848
Cappuccino	1546	Henna	1949	Truffle	1054
Cherry Wood	1014	Homestead Oak	1943	Walnut	1012
Chestnut	1849	Honey Maple	1013	Wheat	1710
Cognac	1465	Knotty Pine	1515	Competitive Stain	COMS
Dark Cherry	1316	Natural	1007	Custom Stain	CUSS
Dark Walnut	1641	Saddle Brown	1694	Unfinished Stain	UFS
Espresso	1716	Sienna	1685		

NOTE: Color of wood may vary slightly due to the natural characteristics of wood. *Allspice color number to match horizontal blind = 1821.

Updated: 12/2/2022 2

Composite Shutters Pricing

Frame Type		Price
Hang Strip, Direct Mount	60.74	per square foot
L-Frame, Deco Frame, Z-Frames, Tilt-Out Z-Frame	62.04	per square foot
Bypass Track System	64.18	per square foot

Composite Specialty Shutters Pricing (Made in Asia)	Р	rice
Arches Frameless	\$ 123.00	per square foot
Arches Framed	\$ 137.00	per square foot
Arch/Angle Top Panel Shutters	\$ 110.00	per square foot
French Door without Cut-out	\$ 62.04	per square foot
French Door with Cut-out (Base Price)*	\$ 62.04	per square foot
French Door with Cut-out (Surcharge)*	450	per cut-out

^{*}Calculate the overall square footage of the French door shutter, multiply by the per square foot base price, then add the cutout surcharge.

NOTE: Shipping damage must be reported to SWF within 12 calendar days of receipt.

Additional Surcharges	
Astragal	No charge
Bypass Box-Out**	15%
Bypass Decorative Valance	No charge
Bypass Stack Back**	5%
Café Aligning Catch	No charge
Café Shutter with 4-Sided Frame	5%
Double Hung	15%
Hide-A-Tilt™ Bar	10%
Stainless Steel Hinge	5%
Valance Keystones (when requested without a splice)	22
Wood Sill Cap	10%

^{**} Calculate overall square footage of the bypass panels, multiply by the per square foot price based on frame type, and use that total to calculate the surcharge for the box-out and/or stack back.

Composite Shut	tters Colors				
Base White	2051	Creamy White	2729	Silk White	2922

Updated: 12/2/2022 3