

COMPOSITE SHUTTERS

Product Information Guide

Features

Shutter Styles	3-4
Product Illustration	5

Options

Frame Type Decision Tree	6
Measuring Standard Composite Shutters	7
Louver Options	8
Color Options	9
Hardware Options	9
Double Mouse Hole	9
Panel Overlap Options	9
Tilt Options: Hide-A-Tilt™	10
Tilt Options: Split Tilt	10
Divider Rail Requirements	11
Measuring Divider Rail or Split Tilt Location	11
Measuring T-Post Locations	11
Standard Shutters Composite Panel Configurations	12
Composite Frame Configurations	13
Installation Hardware	13
Frame Product Detail	14-15

Specifications

Proper Application of the Tilt-Out Z-Frame	16
Sill Cap Application	16
Deductions for Frame Allowances	17

Size Considerations

All Louver Sizes: Minimum and Maximum	18
Standard Shutters: Minimum and Maximum	19

Specialty Styles

Café Shutters	20
Double Hung Shutters	21
Double Hung Shutters: Minimum and Maximum Order Width	22
Measuring Double Hung Split Location	22
Double Hung Shutters: Minimum and Maximum Order Height	23
Sunburst Arch without Frame	24
Sunburst Arch with Frame	25
Framed Arch Installation Option	26
Frameless Arch Installation Option	26

Specialty Styles

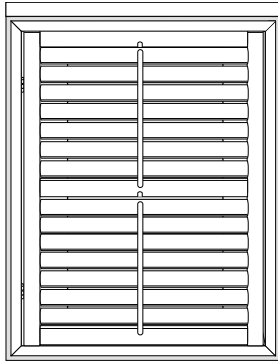
Arch and Angle Top Panel Shutters	27
Measuring Leg Height and Divider Rail Height for Window Opening	27
Measuring Leg Height and Divider Rail Height for Frame-to-Frame Measurement	27
Arch and Angle Top Shutters: Minimum and Maximum	28
Arch and Angle Top Panel Shutters Height Limitations	29
How to Make a Template	29
French Door Options	30
French Door Sizes: Minimum and Maximum	30
French Door Shutters: Placement of L-Frame	30
French Door Shutters: Recessed Back Plate	30
French Door Options: Cut-out	31
Bypass Shutters	32
Bypass Valance Options	32
Valance Keystones	32
Bypass Shutters: Mounting Options	33
Bypass Track System Configuration Options	34
Bypass Shutters: Minimum and Maximum Width	34
Bypass Track System Stack Back Option	35
Custom Header	35

General Information

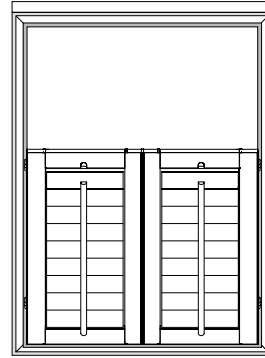
Definitions	36
Care Instructions	36

Features

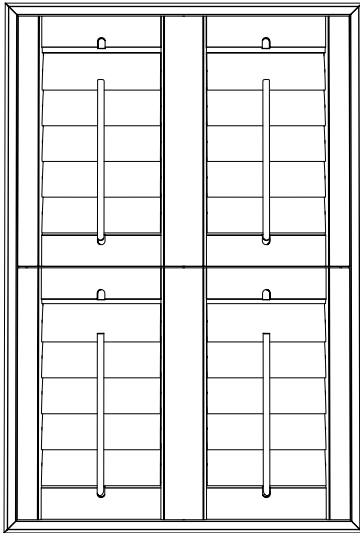
Shutter Styles



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



Café: Classic style covers the bottom part of the window, allowing light to enter while protecting your privacy. **Not recommended in composite; tops are not finished.**



Double Hung: Versatile style in which panels are mounted separately on top of each other, allowing the top and bottom to be opened independently. **Not recommended in composite; tops are not finished.**

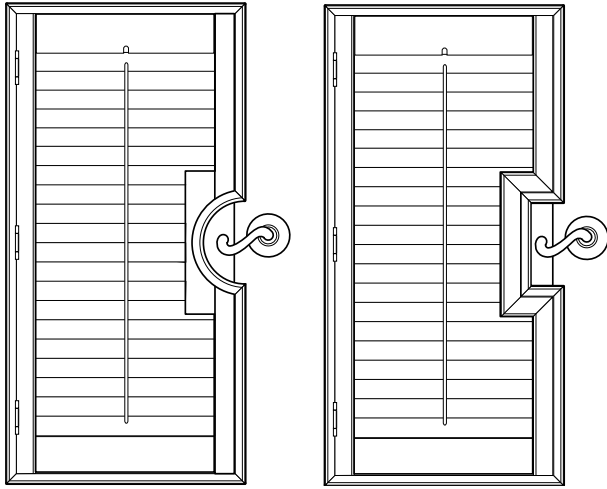


Bypass Track System: Shutter panels slide on double top tracks to open and close. The track system can be ordered with a box-out (side frame) or with the header mounted directly to a window casing or the ceiling. Ideal for patios or closet doors. Louvers must be closed to pass.

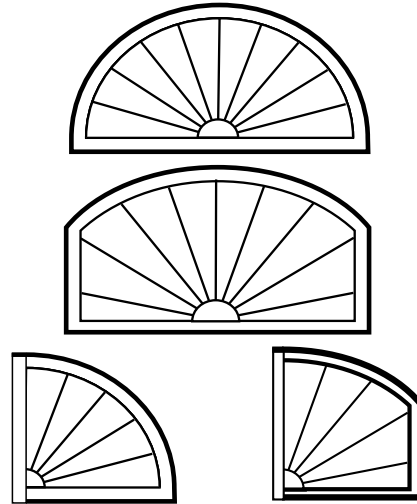
NOTE: Shutters do not block all light from entering the room. All shutters have moving parts. These parts have tolerance gaps that will allow some light to filter through the shutter.

Features

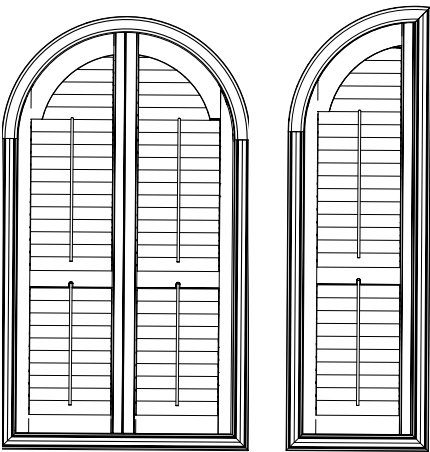
Shutter Styles



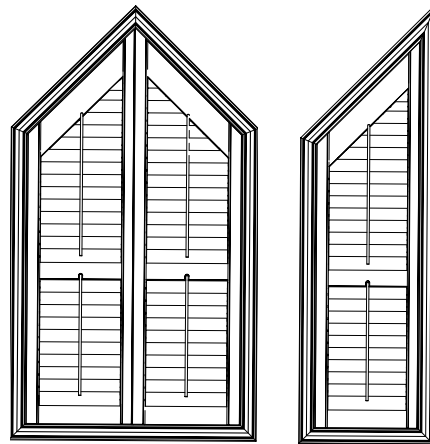
French Doors: Add the beauty of shutters to French doors. Curved or rectangular cut-out options complement contemporary door handles or traditional door knobs.



Sunburst Arches: Sunburst patterned louvers cover unique window silhouettes, such as eyebrow and elongated arches. Also available as $\frac{1}{4}$ arches.



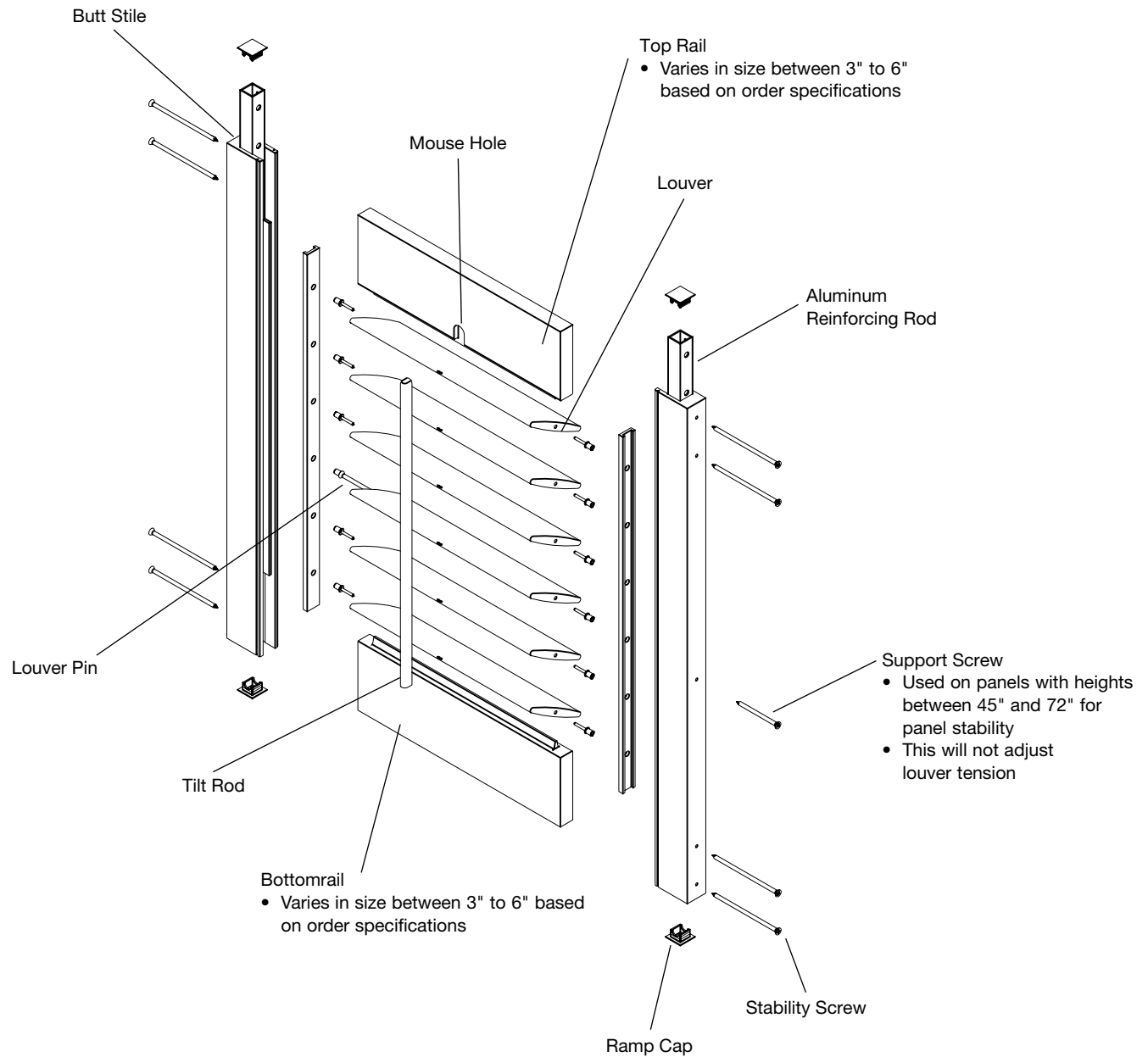
Arched Panels: Provide whole window solutions that fit the rounded shape of full arch windows perfectly. Available in full arch panel or $\frac{1}{4}$ arch panel.



Angled Top Panels: Provide whole window solutions that accommodate slanted windows. Available in full angle panel or $\frac{1}{2}$ angle panel.

Features

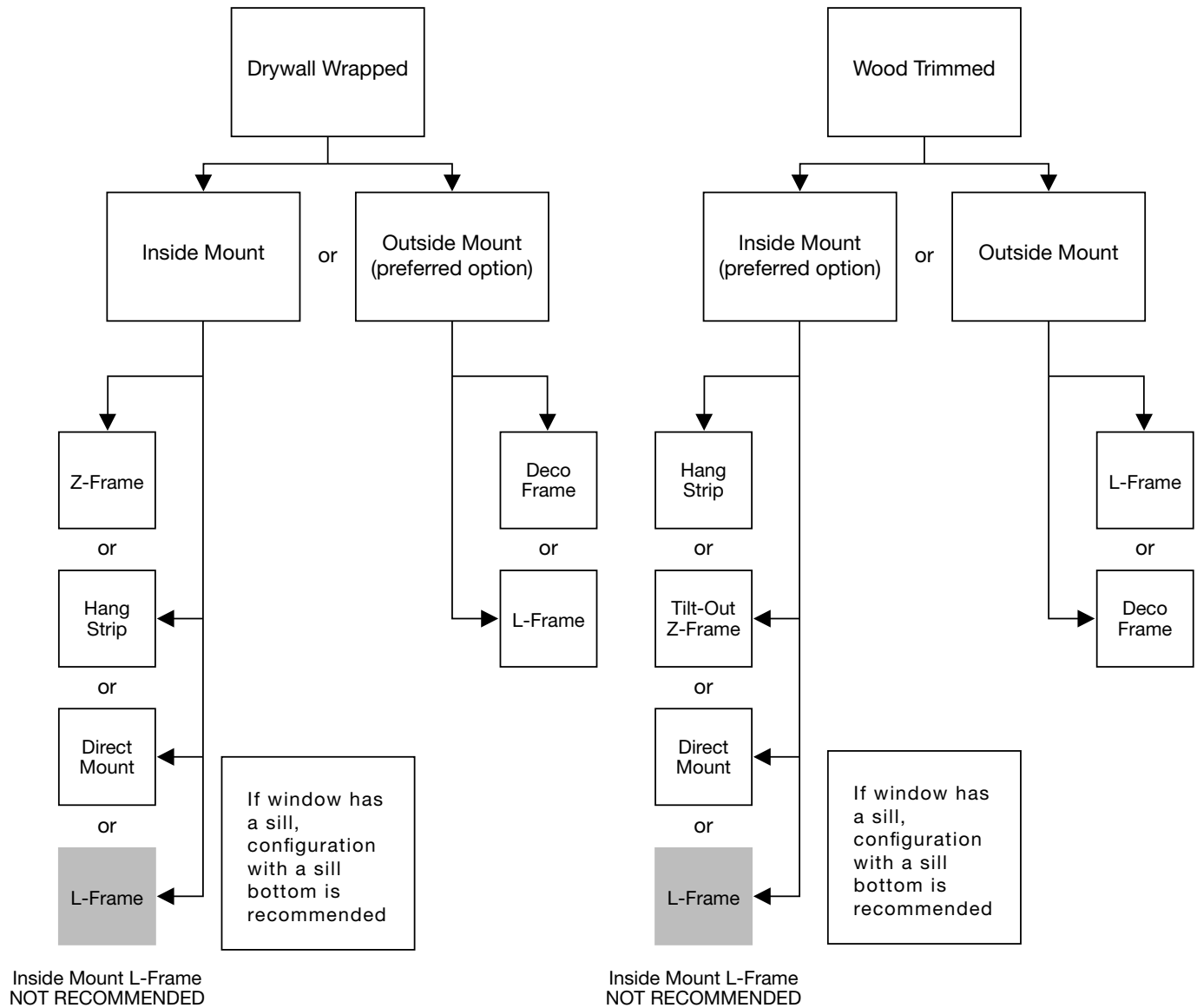
Product Illustration



Options

Frame Type Decision Tree

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

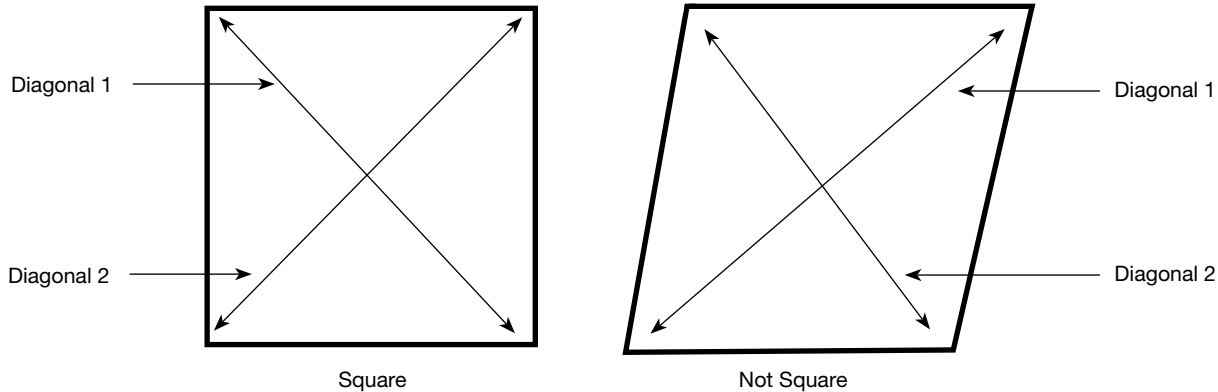


Options

Measuring Standard Composite 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 $\frac{1}{4}$ ", an outside mount shutter is required.

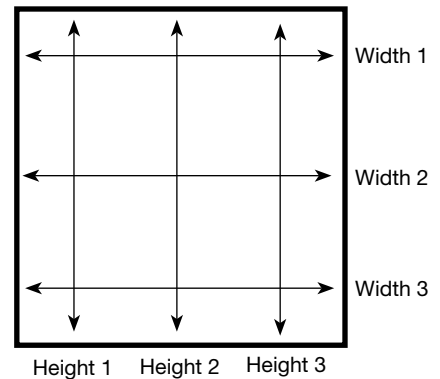


Window Opening Measurement

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

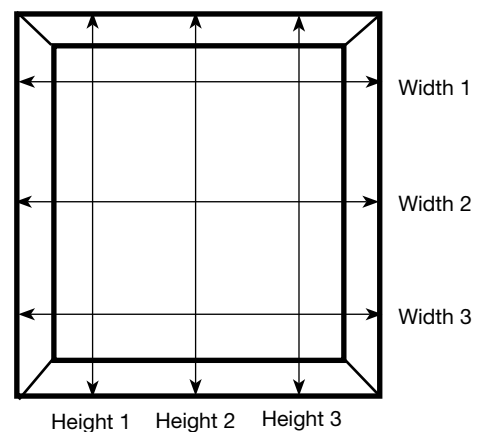
NOTE: Factory makes no allowances/deductions for tilt-out Z-frame.



Frame-to-Frame Measurement

Required for L-Frame and Traditional Deco Frame

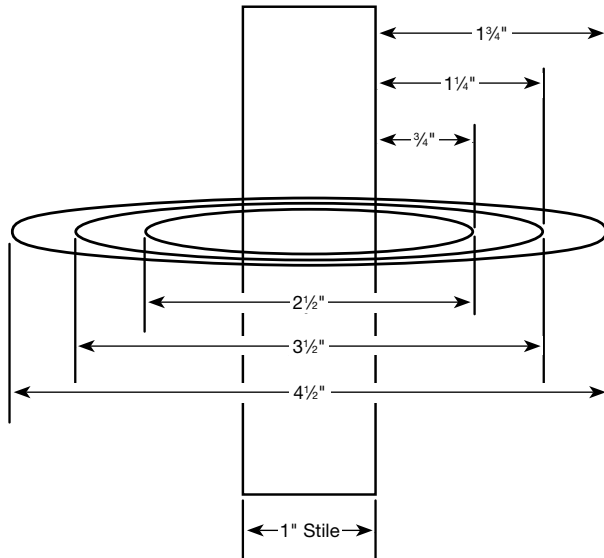
- Place a sample of the L-frame or traditional deco frame on the window frame or wall to determine frame-to-frame placement
- Measure frame-to-frame width at three points and frame-to-frame height at three points
- Use the **LARGEST** width and height measurements



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.

Options

Louver Options



Minimum Clearance Needed from Back Panel Surface		
Louver Size (inches)	Standard Tilt (inches)	Hide-A-Tilt™ (inches)
2½	¾	1⅞
3½	1¼	1⅞
4½	1¾	2⅞

NOTE: Hide-A-Tilt requires an additional ⅜" window clearance.

Minimum Clearance Needed by Louver Size and Frame Type Standard Tilt (Hide-A-Tilt)						
Louver Size (inches)	Direct Mount (inches)	Hang Strip (inches)	Standard Z-Frame (inches)	Signature Z-Frame (inches)	2" L-Frame (inches)	Traditional Deco and Tilt-Out Z-Frames (inches)
2½	1¼ (2⅞)	2⅝ (2⅞)	1⅞ (1¾)	1⅝ (1⅞)	0 (¾)	¼ (⅞)
3½	2¼ (2⅞)	2⅝ (2⅞)	1⅞ (2¼)	1⅝ (2⅞)	½ (⅞)	¾ (1⅞)
4½	2¾ (3¼)	2¾ (3¼)	2⅞ (2¾)	2⅝ (2⅞)	1 (1⅞)	1¼ (1⅞)

2½" Louver

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

3½" Louver

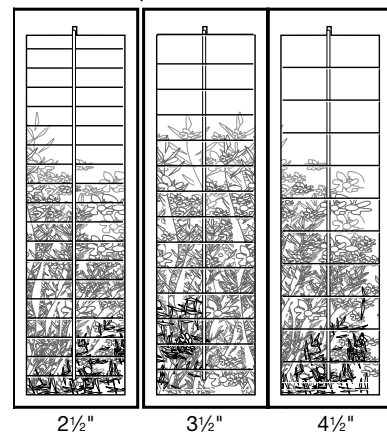
- Most popular louver size
- Offers more visibility and light control than 2½" louver

4½" 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

NOTE: Shutters ordered with panels over 30" wide have reinforced louvers.

Composite Louver Sizes



Options

Color Options

Composite

Base White	2051
Creamy White	2729
Silk White	2922

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

*5% surcharge

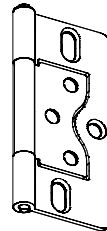
Hide-A-Tilt™ Colors

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

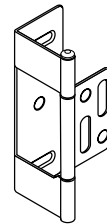
- Steel Grey
- White

NOTES:

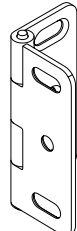
1. Hide-A-Tilt color will default based on shutter color but can be changed at time of order. For specialty shutters, Hide-A-Tilt color will default based on shutter color, either white or off-white, and cannot be changed at time of order.
2. Bifold hinges are seen from the street side. The bifold hinge color will default to White or Off White to coordinate with composite color regardless of hardware color ordered.



Frame Hinge



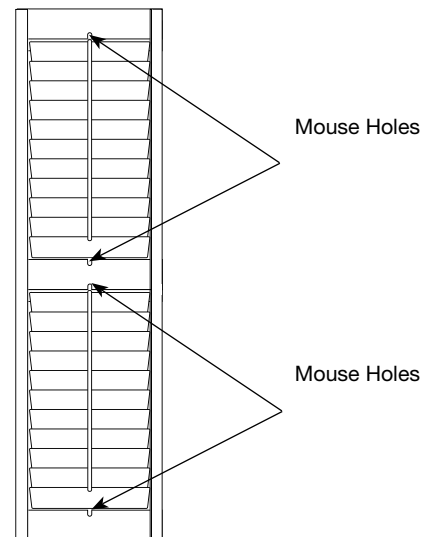
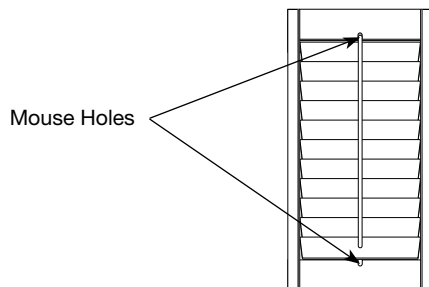
Hang Strip Hinge



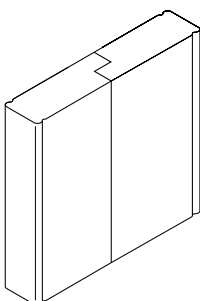
Bifold Hinge

Double Mouse Hole

- Panel has mouse hole on the rails above and below each louver section, which allows the louvers to be closed in the upward or downward position
- Double mouse hole shutters will have tighter closure in the up position

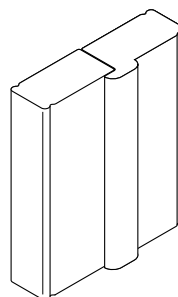


Panel Overlap Options



Rabbet Stile Panel Overlap

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

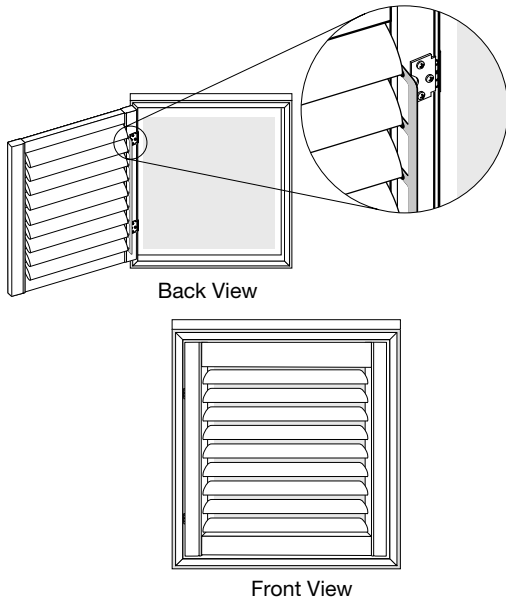


Astragal Stile Panel Overlap

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

Options

Tilt Options: Hide-A-Tilt™



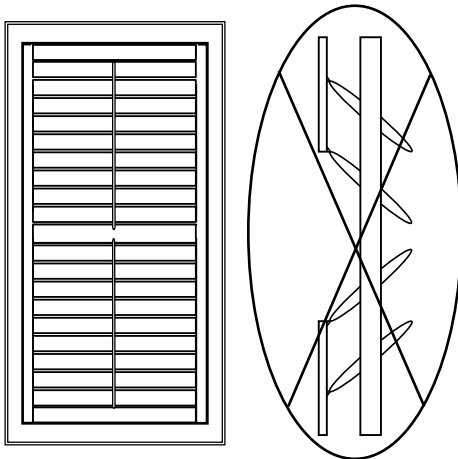
Hide-A-Tilt option offers the tilt mechanism in the back of the shutter panel, eliminating the traditional tilt bar and creating an unobstructed view, as well as a clean linear appearance. A thin steel tilt bar is attached to the louvers in the rear of the panel. Operation of the shutter is as simple as moving one louver into position; all of the other louvers will follow.

- Hide-A-Tilt is mounted on hinge side for standard shutters and attached with screws
- No mouse hole in the panel
- Hide-A-Tilt allows louvers on a standard shutter to be closed in the upward or downward position
- Hide-A-Tilt bar color will default based on shutter color (see chart below) but can be manually changed at time of order
- Hide-A-Tilt requires an additional $\frac{3}{8}$ " window clearance

Color Coordination Chart	
Shutter Color	Default Hide-A-Tilt Color
Base White (2051)	White
Creamy White (2729)	Steel Grey
Silk White (2922)	White

NOTE: For specialty shapes; Hide-A-Tilt bar will be matched to the shutter color, either white or off-white. When panels exceed 52" in height, Hide-A-Tilt will need to be split.

Tilt Options: Split Tilt



NOTE: Upper and lower louvers cannot be positioned at opposing angles because the edges of the louvers will touch.

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

Split Tilt

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
- $3\frac{1}{2}$ " louver exact to ordered location
- $4\frac{1}{2}$ " louver may have 2" tolerance to ordered location
- $2\frac{1}{2}$ " 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
- $2\frac{1}{2}$ " and $3\frac{1}{2}$ " louver exact to ordered location
- $4\frac{1}{2}$ " louver may have 2" tolerance to ordered location

Split Tilt—Front Tilt Bar AND Divider Rail

- $3\frac{1}{2}$ " louver may cause split tilt to have 2" tolerance to ordered location when combined with a divider rail; divider rail location will be exact
- $4\frac{1}{2}$ " louver may cause split tilt AND divider rail to have 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
- $2\frac{1}{2}$ " louver not available (the front tilt will not allow the louvers to function properly)

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

- $2\frac{1}{2}$ " and $3\frac{1}{2}$ " may cause split tilt to have 2" tolerance to ordered location when combined with a divider rail; divider rail location will be exact
- $4\frac{1}{2}$ " louver may cause split tilt AND divider rail to have 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

Options

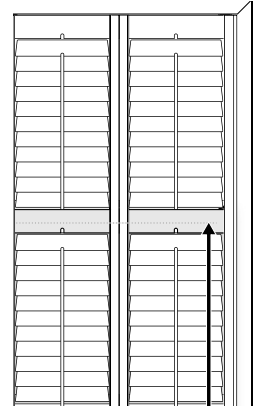
Divider Rail Requirements

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 72" height for added strength
- Divider rail can be requested (when not required) for design purposes
- A 3" divider rail is used with all louver sizes
- Minimum louver set between rails is two louvers
- Maximum one divider rail is available per shutter
- Divider rails for 2½" and 3½" louvers are exact to ordered location
- Divider rails for 4½" louvers may have 2" tolerance to ordered location to achieve uniform louver spacing
- All arch/angle panels may have 2" tolerance to ordered location

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

NOTE: Top and bottom rail sizes may vary and/or be unequal due to requested location and louver spacing. Rail sizes vary from 3" to 6" based on order specifications.



Divider Rail

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.

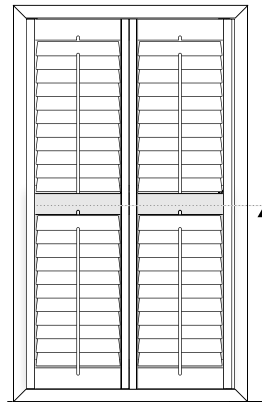
IMPORTANT CONSIDERATIONS

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

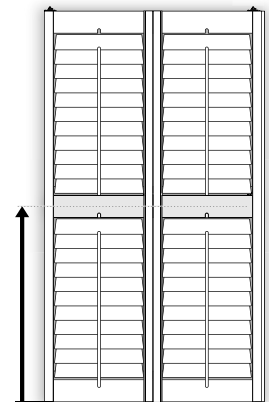
Same room shutters—If shutters are in the same room, they should be ordered with the same height and options to ensure rail sizes match. Varying heights will result in inconsistent rail sizes and/or louver counts.

- If ordering direct mount or hang strip, you may request to align uneven shutters at time of order.

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



Frame-to-Frame



Window Opening

Measuring T-Post Locations

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

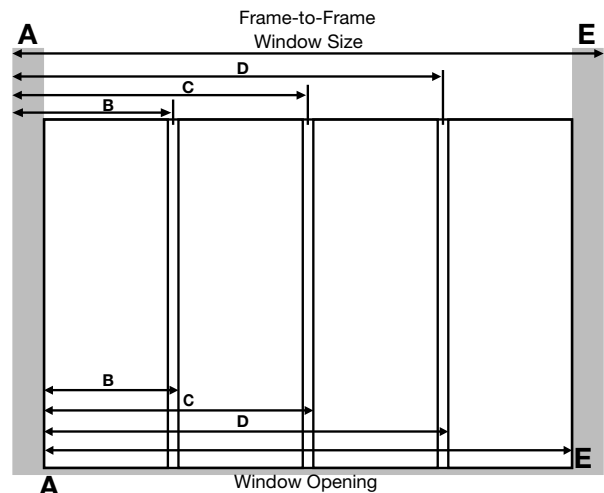
To measure frame-to-frame, measure from the left of the shutter frame to the center of the desired T-post location.

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.

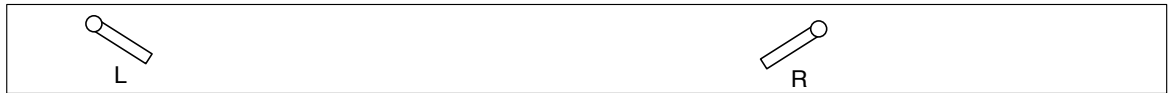
EXAMPLE: If measuring for L-frame, frame-to-frame measure type, A is the outside edge of the L-frame.



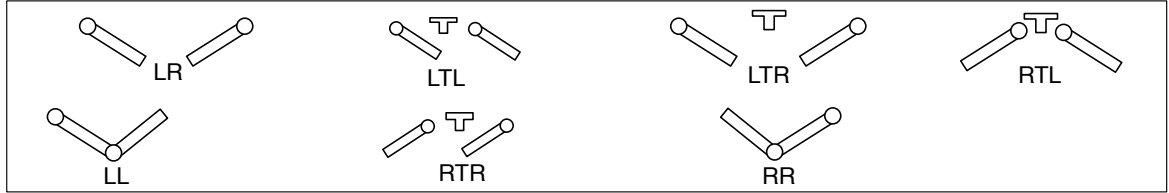
Options

Standard Shutters Composite Panel Configurations (only configurations available)

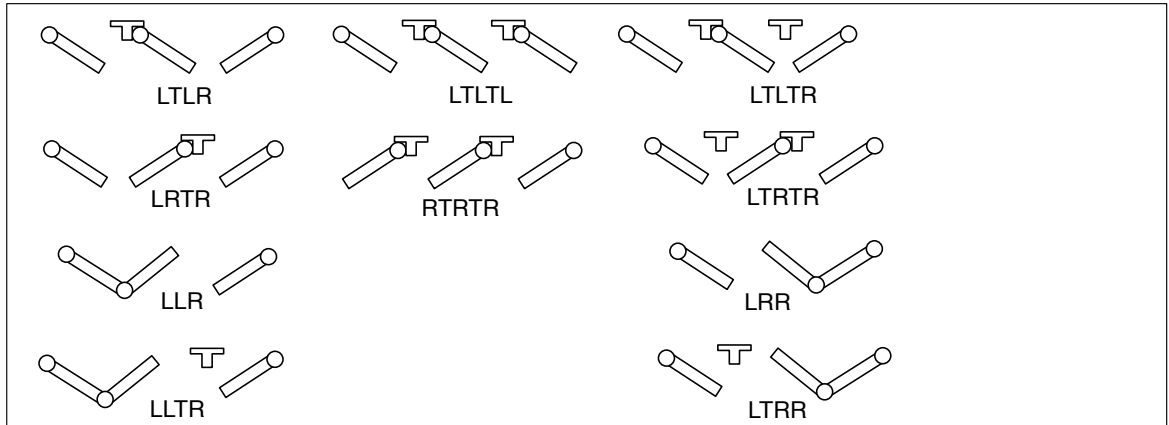
Single Panel



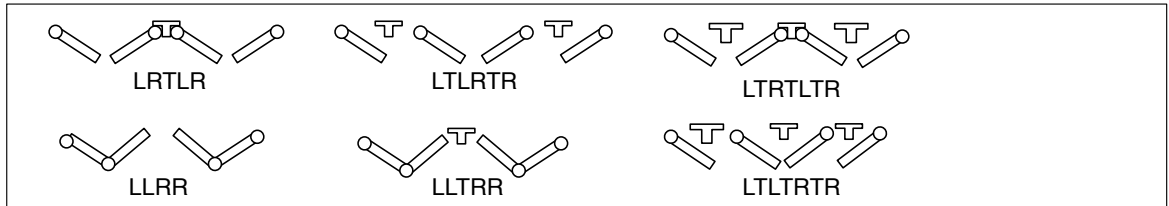
Two Panels



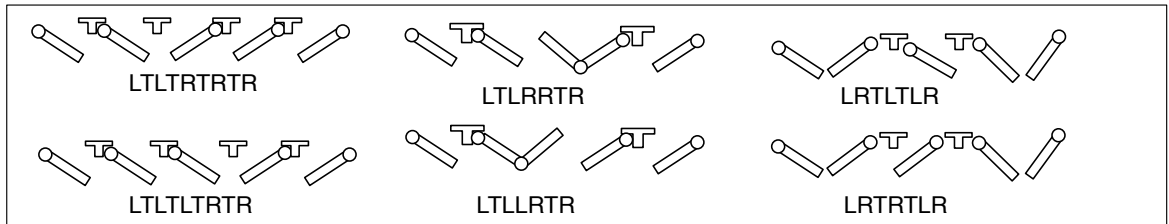
Three Panels



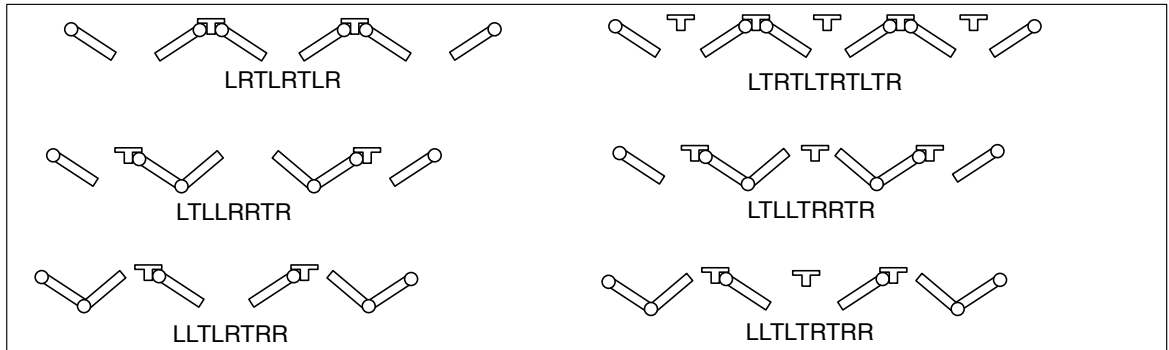
Four Panels



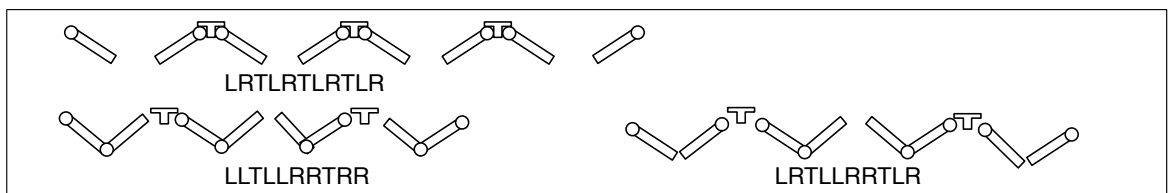
Five Panels



Six Panels



Eight Panels

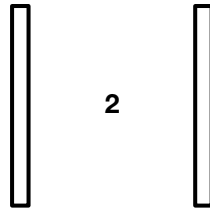


Options

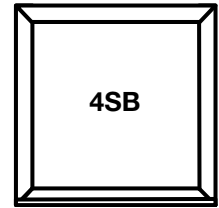
Composite Frame Configurations

2-Sided

Hang strip and direct mount with inside mount is available only in 2-sided frame (vertical). Light block included at no charge.

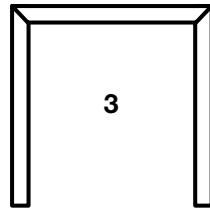


4-Sided with Sill Bottom

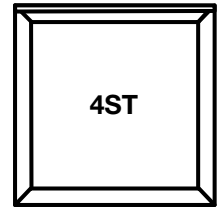


3-Sided

Light block included at no charge.

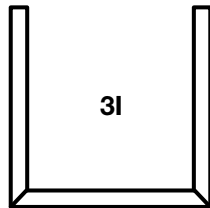


4-Sided with Sill Top

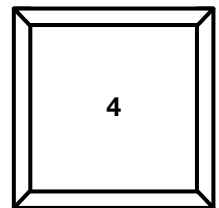


3-Sided Inverted

Light block included at no charge.

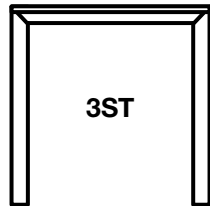


4-Sided

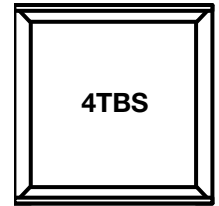


3-Sided with Sill Top

Light block included at no charge.

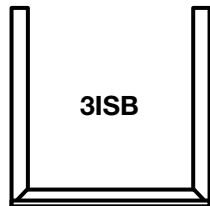


4-Sided with Sill Top and Bottom

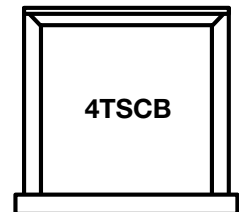


3-Sided Inverted with Sill Bottom

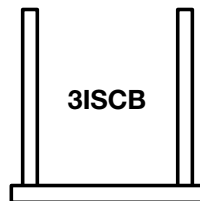
Light block included at no charge.



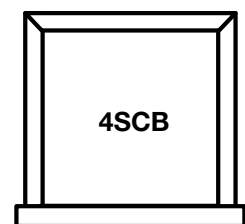
4-Sided with Sill Top and Sill Cap Bottom



3-Sided Inverted with Sill Cap Bottom



4-Sided with Sill Cap Bottom



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

Installation Hardware

Included with order

- Hinge pins
- Hoffman keys
- Installation screws (hinge, mounting, etc.)
- T-post L-bracket (if required)

Available upon request—contact customer service

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

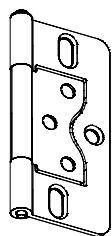
Options

Frame Product Detail

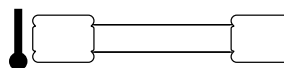
NOTE: Frames larger than 115" ordered size require splicing.

Direct Mount

- Inside mount only
- Window opening measure only
- Panel is prehinged
- Four light blocks included
- Factory automatically makes deductions:
Width— $\frac{1}{4}"$, Height— $\frac{1}{4}"$
- Must be installed with hinge barrel only outside the window opening



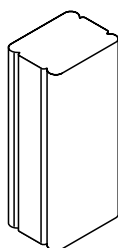
Frame Hinge



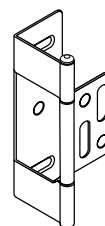
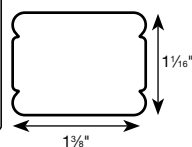
EXAMPLE: 1-panel L

Hang Strip

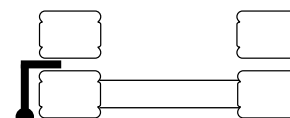
- Inside mount only
- Window opening measure only
- Includes adjustable wraparound hinge for easy installation
- Panel and hang strip are prehinged
- Hang strip is predrilled
- Top and bottom light blocks included
- Factory automatically makes deductions:
Width— $\frac{1}{4}"$, Height— $\frac{1}{4}"$
- Must be installed with hinge barrel only outside the window opening



Hang Strip



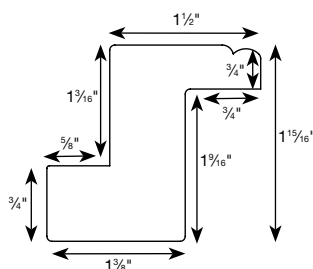
Hang Strip Hinge



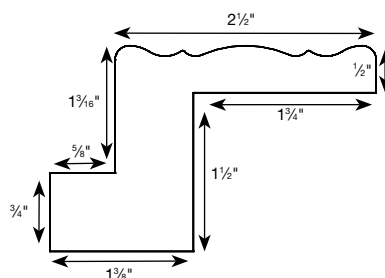
EXAMPLE: 1-panel L

Z-Frames

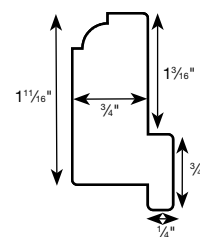
- Inside mount only
- Window opening measure only
- Panel and frame are prehinged
- Frame is not predrilled
- Standard, signature—factory automatically makes deductions:
Width— $\frac{5}{8}"$; Height, see chart in "Deductions for Frame Allowances" section
- No deduction taken on tilt-out Z-frame; measurement is the same as the window opening, see "Proper Application of the Tilt-Out Z-Frame" section



Standard Z-Frame*



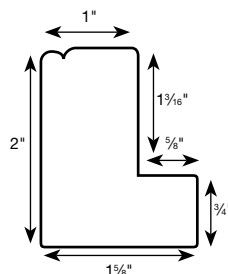
Signature Z-Frame*



Tilt-Out Z-Frame

L-Frame

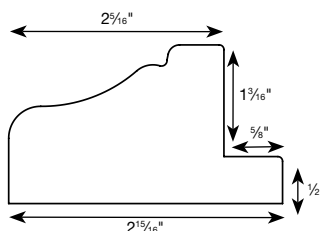
- Recommended outside mount
- Frame-to-frame measure only
- Panel and frame are prehinged
- Frame is not predrilled
- No factory deduction made
 - If using for inside mount or in a tight spot, installer must make own deduction for proper fit and order as frame-to-frame



2" Standard L-Frame*

Traditional Deco Frame

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



Traditional Deco Frame*

*Frames for specialties differ slightly. See "Sunburst Arch with Frame" section for dimensional drawings.

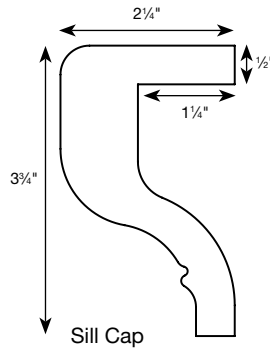
Options

Frame Product Detail

NOTE: Frames larger than 115" ordered size require splicing.

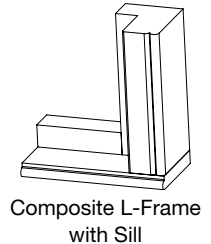
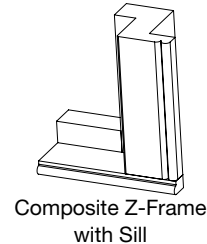
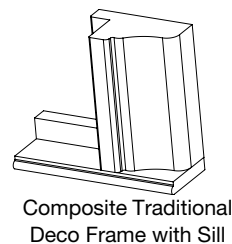
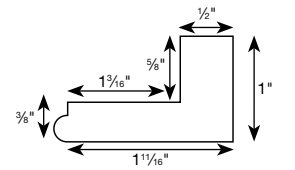
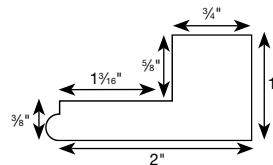
Sill Cap

- 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 ($1\frac{1}{8}" \times \frac{1}{2}"$) for inside mount frames
- Will be made in wood and painted to match shutter color ordered
- Not available on specialty shapes



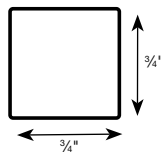
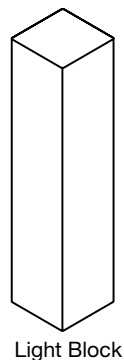
Sill Frame

- Offered with L-, Z-, and traditional deco frame
- Not available with buildouts
- Sill frames are notched to accommodate side frames and joined with screws



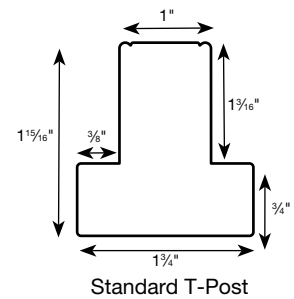
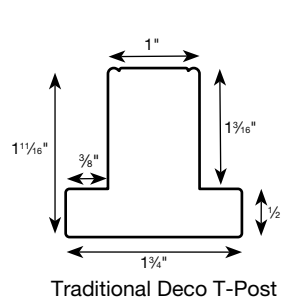
Light Block

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



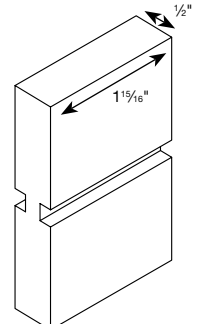
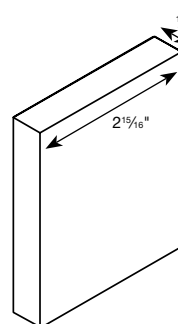
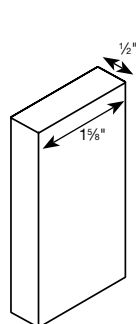
T-Post

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



Buildout

- Used with L-frames, deco frame, and Z-frames
- Available only in $\frac{1}{2}"$ thickness
- Maximum $\frac{1}{2}"$ (one piece) per shutter for bypass
- Maximum 1" (two pieces) per shutter for Z-frames
- Maximum 2" (four pieces) per shutter for L-frames and deco frame
- Not available with sill configurations



L-Frame/Sill Cap/
Bypass Buildout

Traditional Deco Buildout

Z-Frame Buildout

Specifications

Proper Application of the Tilt-Out Z-Frame

Tilt-Out Z-Frame (inside mount)

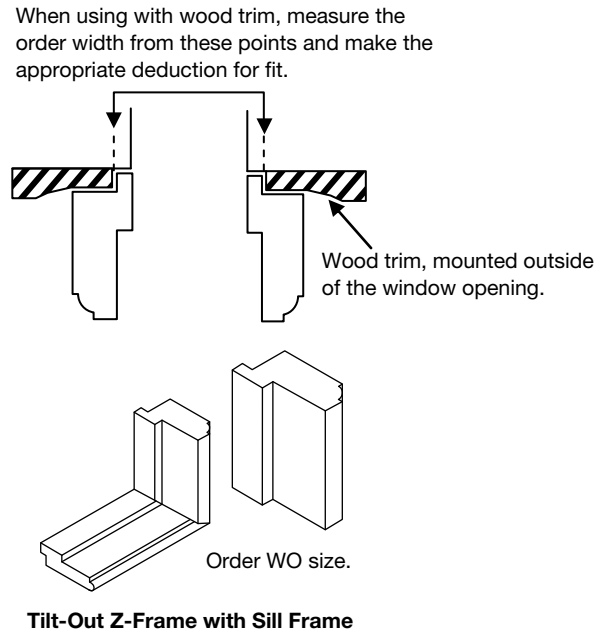
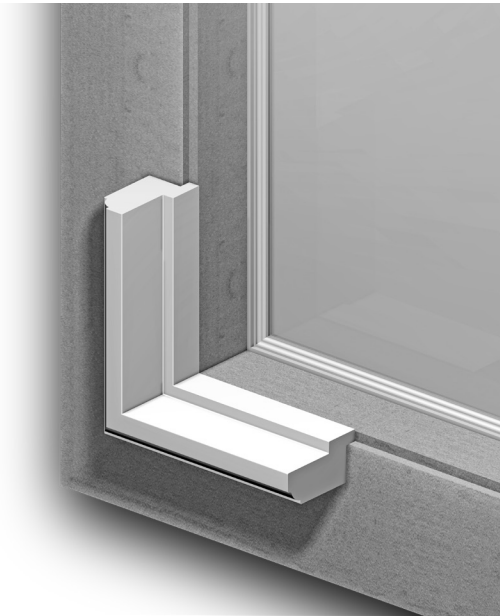
Designed to be used with certain styles of window trim. Panel and frame are prehinged. Frame is not predrilled. Shipment includes self-tapping trim head screws.

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

Factory Deductions: Width: 0"

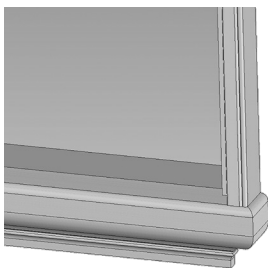
Height: 0"

NOTE: Installer MUST make own deductions for proper fit. If diagonal measurements exceed $\frac{1}{8}$ " out of square, use other outside mount frame style.

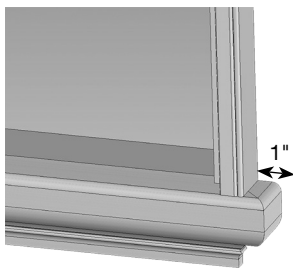


Sill Cap Application

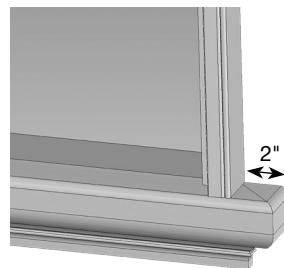
Ordering Options



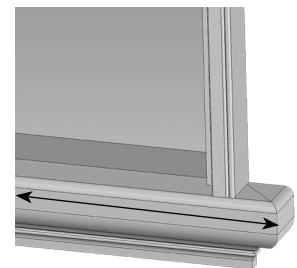
Flush with Frame



1" Overlap Per Side



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 $1\frac{5}{8}$ " 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 has apron.

The sill cap will sit flush against the wall for window sills protruding up to $1\frac{1}{4}$ " 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 any composite specialties.

Specifications

Deductions for Frame Allowances

Direct Mount

- Automatically taken at factory
- Width deduction— $\frac{1}{4}$ "
- Height deduction— $\frac{1}{4}$ "

Hang Strip

- Automatically taken at factory
- Width deduction— $\frac{1}{4}$ "
- Height deduction— $\frac{1}{4}$ "

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	- $\frac{5}{16}$	No deduction*
3-Sided or 3-Sided Inverted	- $\frac{5}{16}$	- $\frac{5}{32}$ *
3-Sided Sill Top or Bottom	- $\frac{5}{16}$	- $\frac{1}{16}$ *
3-Sided Inverted with Sill Cap Bottom	- $\frac{5}{16}$	- $\frac{1}{16}$ *
4-Sided	- $\frac{5}{16}$	- $\frac{5}{16}$
4-Sided Sill Top or Bottom	- $\frac{5}{16}$	- $\frac{5}{32}$
4-Sided Sill Top and Bottom	- $\frac{5}{16}$	- $\frac{1}{16}$
4-Sided Sill Top and Sill Cap Bottom	- $\frac{5}{16}$	- $\frac{1}{16}$
4-Sided Sill Cap Bottom	- $\frac{5}{16}$	- $\frac{5}{32}$

*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

Size Considerations

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

Number of Panels	Panel Configurations	Direct Mount, Hang Strip, and Tilt-Out Z-Frame		Standard and Signature Z-Frames		L-Frame		Traditional Deco Frame	
		WO Size		WO Size		F-F Size		F-F Size	
		Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
1 Panel	L, R*	9¼	36⅞	11¼	37⅞	11¼	38¼	14⅞	40⅞
2 Panels	LR*	18⅞	72	19⅞	73⅞	20⅞	74⅞	24⅞	76⅞
	LTR, LTL, RTR, RTL*	19⅞	73⅞	21⅞	75⅞	21⅞	75⅞	26⅞	78⅞
	LL, RR	18⅞	48½	19⅞	49⅞	20⅞	50⅞	24⅞	52⅞
3 Panels	LLR, LRR	27⅞	71⅞	29⅞	73⅞	29¼	73⅞	24⅞	76½
	LLTR, LTRR	28¼	85⅞	30⅞	86⅞	30¼	87¼	35⅞	89⅞
	LTLR, LRTR*	28¼	109⅞	30⅞	110⅞	30¼	111¼	35⅞	113⅞
	LTLTR, LTRTR, LTLTL, RTRTR*	29⅞	110⅞	31⅞	112	31⅞	112⅞	37¼	115¼
4 Panels	LLRR	36⅞	95⅞	38⅞	97⅞	38⅞	97⅞	44⅞	100⅞
	LLTRR	37⅞	97	38⅞	98⅞	39⅞	99⅞	45⅞	101⅞
	LRTLRL*	37⅞	145	38⅞	146⅞	39⅞	147⅞	46⅞	150⅞
	LTLRTR*	38⅞	146⅞	40¼	148⅞	40⅞	148⅞	47⅞	151⅞
	LRTLRLR, LTLRTRR*	39¼	147¼	41⅞	149⅞	41¼	149⅞	48⅞	152⅞
5 Panels	LTLRRLR, LTLRLR	47⅞	146⅞	51¼	148⅞	51⅞	148⅞	61⅞	151
	LTLRLRLR, LTLRLRLR	50⅞	184⅞	51⅞	186⅞	52⅞	187	60⅞	189⅞
	LRTLRLR, LRTLRLR	47⅞	182⅞	50⅞	185⅞	51⅞	184⅞	55⅞	187⅞
6 Panels	LLRLRLR	56⅞	170⅞	58	172⅞	58⅞	172⅞	67⅞	175⅞
	LRTLRLRLR	56⅞	216	58	219⅞	58⅞	220⅞	67⅞	223⅞
	LTLRLRLR	56⅞	172⅞	58½	172⅞	58⅞	174⅞	67⅞	175⅞
	LTLRLRLR, LTLRLRLR	57½	171⅞	59⅞	173⅞	59½	173⅞	68⅞	176⅞
	LRTLRLRLRLR	60¼	222⅞	62⅞	223⅞	62¼	224⅞	70⅞	226⅞
8 Panels	LRTLRLRLRLR	75¼	291¼	77⅞	293⅞	77¼	295	80⅞	228⅞
	LRTLRLRLRLR	73⅞	241⅞	75¼	243¼	75⅞	243⅞	79⅞	247⅞
	LTLRLRLRLRLR	73⅞	193⅞	75¼	195¼	75⅞	195⅞	79⅞	198⅞

*Panel configurations available in double hung.

NOTE: Panel widths larger than 30" for 2½" and 3½" louvers and larger than 26" for 4½" louvers will be made with reinforced louvers.

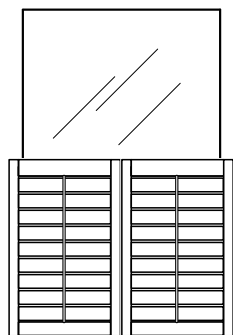
Size Considerations

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

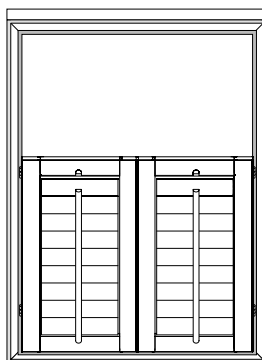
Measure Type	Frame Configurations	Frame Type	Minimum (inches)			Maximum (inches)
			Louver Size			Louder Size
			2½	3½	4½	2½, 3½, 4½
Window Opening	2-sided	Direct mount/hang strip	10¼	12¼	14¼	96¼
	3-sided inverted with sill cap bottom		10¼	12¼	14¼	96¼
	2-sided	Z-frame	10¼	12¼	14¼	96¼
	3-sided and 3-sided inverted		11⅞	13⅞	15⅞	97⅞
	3-sided sill top or bottom		11½	13½	15½	97⅞
	3-sided inverted with sill cap bottom		11⅞	13⅞	15⅞	96¾
	4-sided		12⅞	14⅞	16⅞	97⅞
	4-sided with sill top or bottom		11⅞	13⅞	15⅞	97½
	4-sided with sill top and bottom		11	13	15	97
	4-sided with sill cap bottom		10¾	12¾	14¾	97⅝
	4-sided with sill frame top and sill cap bottom		11⅞	13⅞	15⅞	97⅞
	2-sided	Tilt-out Z-frame	10¼	12¼	14¼	96¼
	3-sided and 3-sided inverted		10⅞	12⅞	14⅞	96⅝
	3-sided sill top or bottom		11⅞	13⅞	15⅞	96⅝
	3-sided inverted with sill cap bottom		10¾	12¾	14¾	96¾
	4-sided		11⅞	13⅞	15⅞	96¼
	4-sided with sill top or bottom		10⅞	12⅞	14⅞	96¾
	4-sided with sill top and bottom		11	13	15	97
	4-sided with sill cap bottom		10¾	12¾	14¾	96¾
	4-sided with sill frame top and sill cap bottom		11⅞	13⅞	15⅞	97⅞
Frame-to-Frame	2-sided	L-frame	10¼	12¼	14¼	96¼
	3-sided and 3-sided inverted		11¼	13¼	15¼	97¼
	3-sided sill top or bottom		11⅞	13⅞	15⅞	97⅝
	3-sided inverted with sill cap bottom		11¼	13¼	15¼	96¾
	4-sided		12¼	14¼	16¼	98¼
	4-sided with sill top or bottom		11¼	13¼	15¼	97⅝
	4-sided with sill top and bottom		11	13	15	97
	4-sided with sill cap bottom		10¾	12¾	14¾	97¼
	4-sided with sill frame top and sill cap bottom		11⅞	13⅞	15⅞	97⅞
	2-sided	Traditional deco frame	10¼	12¼	14¼	96¼
	3-sided and 3-sided inverted		12⅞	14⅞	16⅞	98⅞
	3-sided sill top or bottom		10⅞	12⅞	14⅞	96⅝
	3-sided inverted with sill cap bottom		13⅞	15⅞	17⅞	96¾
	4-sided		14⅞	16⅞	18⅞	100⅞
	4-sided with sill top or bottom		12⅞	14⅞	16⅞	98⅞
	4-sided with sill top and bottom		11	13	15	97
	4-sided with sill cap bottom		10¾	12¾	14¾	99⅞
	4-sided with sill frame top and sill cap bottom		11⅞	13⅞	15⅞	97⅞

Specialty Styles

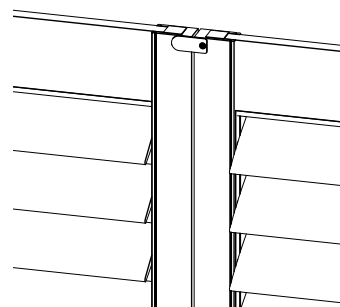
Café Shutters



Shown as 2-Sided



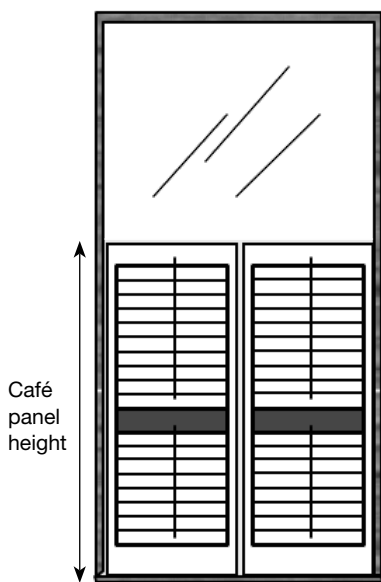
Shown as 4-Sided



Rear View of Café Panel
Optional: Café Aligning Catch

- Tops of composite panels are NOT finished and are not recommended for café shutters
- 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.



Includes the bottom frame or sill frame, if ordered

Café Shutter
Shown with full window-height frame option.

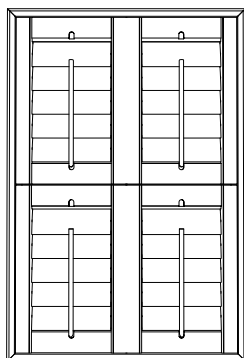
Café is available in a variety of frames, both inside and outside mount.

- Measure format depends on frame type selected
- For direct mount, use “window opening” size (WO) and no frame is furnished
NOTE: Panel will be $\frac{1}{8}$ " 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 $\frac{1}{8}$ " 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 is the 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 is the height at which the panels will stop.

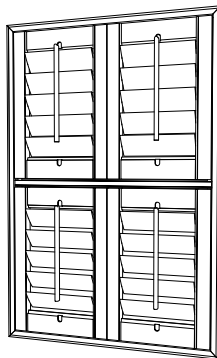
Specialty Styles

Double Hung Shutters

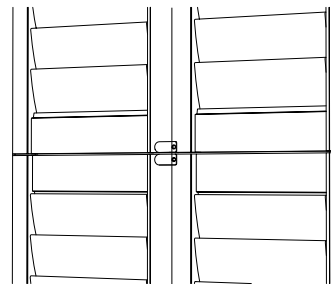
A specialty shutter style with one set of shutter panels over the top of another set of shutter panels in a continuous frame within a window. The panels are independent of each other, allowing each panel to operate separately.



Double Hung

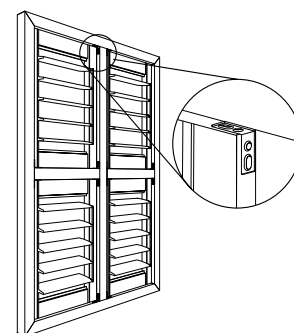


Double Hung with
Horizontal T-Post



Rear View of Double Hung Panel
with Aligning Catch

- Tops of composite panels are NOT finished and are not recommended for double hung shutters
- Maximum of up to four panel shutter configurations per set only, not including any bifold configurations
- Top and bottom panel sections must have identical panel configurations
- All frame configurations available
- Maximum height of bottom panel 72"
- Maximum height of top panel 48"
- 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
- Hide-A-Tilt™, astragal, and double mouse hole are available
- Aligning catch automatically included in LR, LTLR, LRTR, LRTL, 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



Specialty Styles

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

Number of Panels	Panel Configurations	Direct Mount, Hang Strip, and Tilt-Out Z-Frame		Standard and Signature Z-Frames		L-Frame		Traditional Deco Frame	
		WO Size		WO Size		F-F Size		F-F Size	
		Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
1 Panel	L, R	9 ¹ / ₄	36 ³ / ₁₆	11 ¹ / ₁₆	37 ⁷ / ₈	11 ¹ / ₄	38 ¹ / ₄	13 ³ / ₈	40 ⁷ / ₈
2 Panels	LR	18 ¹ / ₁₆	72	19 ⁷ / ₈	73 ¹ / ₁₆	20 ¹ / ₁₆	74 ¹ / ₁₆	24 ¹¹ / ₁₆	76 ¹¹ / ₁₆
	LTR, LTL, RTR, RTL	19 ³ / ₈	73 ³ / ₈	21 ¹ / ₁₆	75 ¹ / ₁₆	21 ³ / ₈	75 ⁷ / ₁₆	26 ¹ / ₁₆	78 ¹ / ₁₆
3 Panels	LTLR, LRTR	28 ¹ / ₄	109 ³ / ₁₆	30 ¹ / ₁₆	110 ⁷ / ₈	30 ¹ / ₄	111 ¹ / ₄	35 ⁷ / ₈	113 ³ / ₈
	LTLTR, LTRTR, LTLTL, RTRTR	29 ⁹ / ₁₆	110 ⁹ / ₁₆	31 ³ / ₈	112	31 ⁹ / ₁₆	112 ⁵ / ₈	37 ¹ / ₄	115 ¹ / ₄
4 Panels	LRTLRL	37 ¹ / ₈	145	38 ¹⁵ / ₁₆	146 ¹¹ / ₁₆	39 ¹ / ₈	147 ¹ / ₁₆	46 ¹ / ₁₆	150 ¹ / ₁₆
	LTLRTR	38 ⁷ / ₁₆	146 ³ / ₈	40 ¹ / ₄	148 ¹ / ₁₆	40 ⁷ / ₁₆	148 ⁷ / ₁₆	47 ¹ / ₁₆	151 ¹ / ₁₆
	LTRLTR, LTLRTR	39 ¹ / ₄	147 ³ / ₄	41 ¹ / ₁₆	149 ⁷ / ₁₆	41 ³ / ₄	149 ¹³ / ₁₆	48 ⁷ / ₁₆	152 ⁷ / ₁₆

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.

Specialty Styles

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

Measure Type	Frame Configuration	Frame Type	Minimum (inches)			Maximum (inches)
			Louver Size			Louver Size
			2½	3½	4½	2½, 3½, 4½
Window Opening	2-sided	Direct mount/hang strip	20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	3-sided inverted with sill cap bottom		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	96 ¹⁵ / ₁₆
	2-sided	Z-frame	20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	3-sided and 3-sided inverted		21 ¹¹ / ₃₂	25 ¹¹ / ₃₂	29 ¹¹ / ₃₂	97 ¹¹ / ₃₂
	3-sided sill top or bottom		20 ¹⁹ / ₁₆	24 ¹⁹ / ₁₆	28 ¹⁹ / ₁₆	96 ¹⁹ / ₁₆
	3-sided inverted with sill cap bottom		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	96 ¹⁵ / ₁₆
	4-sided		22 ¹ / ₄	26 ¹ / ₄	30 ¹ / ₄	98 ¹ / ₄
	4-sided with sill top or bottom		21 ²³ / ₃₂	25 ²³ / ₃₂	29 ²³ / ₃₂	97 ²³ / ₃₂
	4-sided with sill top and bottom		21 ³ / ₁₆	25 ³ / ₁₆	29 ³ / ₁₆	97 ³ / ₁₆
	4-sided with sill cap bottom		21 ²⁷ / ₃₂	25 ²⁷ / ₃₂	29 ²⁷ / ₃₂	97 ²⁷ / ₃₂
	4-sided with sill frame top and sill cap bottom		21 ¹ / ₁₆	25 ¹ / ₁₆	29 ¹ / ₁₆	97 ¹ / ₁₆
	2-sided	Tilt-out Z-frame	20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	3-sided and 3-sided inverted		20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ³ / ₈
	3-sided sill top or bottom		20 ¹⁹ / ₁₆	24 ¹⁹ / ₁₆	28 ¹⁹ / ₁₆	96 ¹⁹ / ₁₆
	3-sided inverted with sill cap bottom		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	96 ¹⁵ / ₁₆
	4-sided		20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	4-sided with sill top or bottom		20 ¹³ / ₁₆	24 ¹³ / ₁₆	28 ¹³ / ₁₆	96 ¹³ / ₁₆
	4-sided with sill top and bottom		21 ³ / ₁₆	25 ³ / ₁₆	29 ³ / ₁₆	97 ³ / ₁₆
	4-sided with sill cap bottom		20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	4-sided with sill frame top and sill cap bottom		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	96 ¹⁵ / ₁₆
Frame-to-Frame	2-sided	L-frame	20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	3-sided and 3-sided inverted		21 ⁷ / ₁₆	25 ⁷ / ₁₆	29 ⁷ / ₁₆	97 ⁷ / ₁₆
	3-sided sill top or bottom		20 ¹⁹ / ₁₆	24 ¹⁹ / ₁₆	28 ¹⁹ / ₁₆	96 ¹⁹ / ₁₆
	3-sided inverted with sill cap bottom		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	96 ¹⁵ / ₁₆
	4-sided		22 ⁷ / ₁₆	26 ⁷ / ₁₆	30 ⁷ / ₁₆	98 ⁷ / ₁₆
	4-sided with sill top or bottom		21 ¹³ / ₁₆	25 ¹³ / ₁₆	29 ¹³ / ₁₆	97 ¹³ / ₁₆
	4-sided with sill top and bottom		21 ³ / ₁₆	25 ³ / ₁₆	29 ³ / ₁₆	97 ³ / ₁₆
	4-sided with sill cap bottom		21 ¹⁵ / ₁₆	25 ¹⁵ / ₁₆	29 ¹⁵ / ₁₆	97 ¹⁵ / ₁₆
	4-sided with sill frame top and sill cap bottom		20 ¹⁵ / ₁₆	24 ¹⁵ / ₁₆	28 ¹⁵ / ₁₆	96 ¹⁵ / ₁₆
	2-sided	Traditional deco frame	20 ⁷ / ₁₆	24 ⁷ / ₁₆	28 ⁷ / ₁₆	96 ⁷ / ₁₆
	3-sided and 3-sided inverted		22 ³ / ₄	26 ³ / ₄	30 ³ / ₄	98 ³ / ₄
	3-sided sill top or bottom		20 ¹³ / ₁₆	24 ¹³ / ₁₆	28 ¹³ / ₁₆	96 ⁶³ / ₇₄
	3-sided inverted with sill cap bottom		20 ¹⁹ / ₁₆	24 ¹⁹ / ₁₆	28 ¹⁹ / ₁₆	96 ¹⁵ / ₁₆
	4-sided		25 ¹ / ₁₆	29 ¹ / ₁₆	33 ¹ / ₁₆	101 ¹ / ₁₆
	4-sided with sill top or bottom		23 ¹ / ₈	27 ¹³ / ₁₆	29 ¹³ / ₁₆	97 ¹³ / ₁₆
	4-sided with sill top and bottom		21 ³ / ₁₆	25 ³ / ₁₆	29 ³ / ₁₆	97 ³ / ₁₆
	4-sided with sill cap bottom		23 ¹ / ₄	27 ¹ / ₄	31 ¹ / ₄	99 ¹ / ₄
	4-sided with sill frame top and sill cap bottom		21 ¹ / ₁₆	25 ¹ / ₁₆	29 ¹ / ₁₆	97 ¹⁵ / ₁₆

NOTE: Maximum height of top panel is 48". Maximum height of bottom panel is 72".

Specialty Styles

Sunburst Arch without Frame

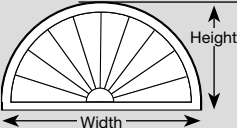
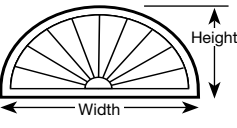
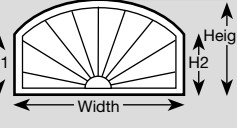
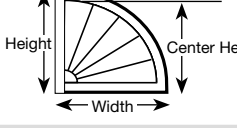
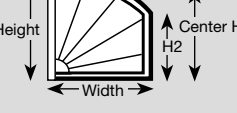
Specialty Shape without Frame: Panel Only

- Sunburst pattern—no horizontal louvers
- Rabbeted 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
- Buildouts not available
- Panel is 1 $\frac{1}{16}$ " 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:

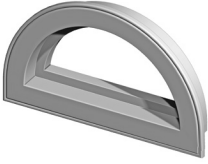
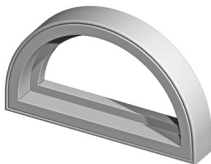

Frameless Arch Base Width (inches)	Top Rail Size (inches)	Bottomrail Size (inches)
20 to less than 24	2	1
24 to less than 45	3	2
45 to less than 72	3	3

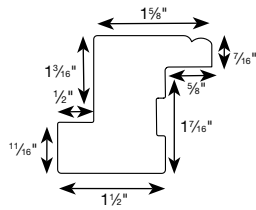
NOTE: If mounting arch inside, take own deduction and order frame-to-frame. Template recommended.

Specialty Shape without Frame: Minimum and Maximum Sizes				
Frameless Full and $\frac{1}{4}$ Sunburst Arches—Panel Only	Width		Height	
	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
 <p>Perfect Sunburst Arch (order as eyebrow) Height = 50% of width No template required</p>	20	100	15	50
 <p>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</p>	20	100	15	50
 <p>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</p>	20	100	15	50
 <p>$\frac{1}{4}$ Eyebrow Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 108% of width</p>	15	50	15	50
 <p>$\frac{1}{4}$ Elongated Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 132% of width</p>	15	50	15	50

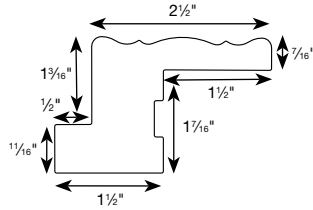
Specialty Styles

Sunburst Arch With Frame

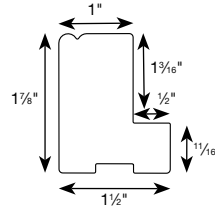
			
Frame Options	Z-Frame*	L-Frame	Traditional Deco Frame
Mount	Inside mount only	Outside mount only	Outside mount only
Order Size	Window opening	Frame-to-frame	Frame-to-frame
Projection	$\frac{3}{8}$ "	2"	$1\frac{1}{16}$ "



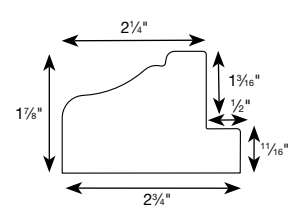
Standard Z-Frame



Signature Z-Frame

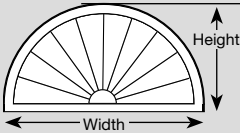
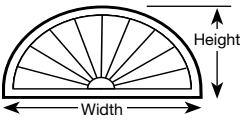
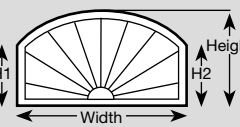
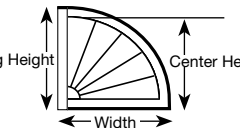
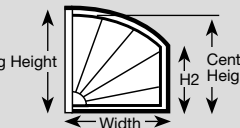


L-Frame



Deco Frame

The above frame dimensions will be used for specialty shapes.

Specialty Shape with Frame: Minimum and Maximum Sizes					
Framed Full and 1/4 Sunburst Arches		Width		Height	
		Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
 <p>Perfect Sunburst Arch (order as eyebrow) Height = 50% of width No template required</p>	Z-frame	22 1/4	102 1/4	17 1/4	52 1/4
	Signature Z-frame	30	102 1/4	17 1/4	52 1/4
	L-frame	22 1/4	102 1/4	17 1/4	52 1/4
	Traditional deco frame	24 3/4	104 3/4	19 3/4	54 3/4
 <p>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</p>	Z-frame	22 1/4	102 1/4	17 1/4	52 1/4
	Signature Z-frame	30	102 1/4	17 1/4	52 1/4
	L-frame	22 1/4	102 1/4	17 1/4	52 1/4
	Traditional deco frame	24 3/4	104 3/4	19 3/4	54 3/4
 <p>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</p>	Z-frame	22 1/4	102 1/4	17 1/4	52 1/4
	Signature Z-frame	30	102 1/4	17 1/4	52 1/4
	L-frame	22 1/4	102 1/4	17 1/4	52 1/4
	Traditional deco frame	24 3/4	104 3/4	19 3/4	54 3/4
 <p>1/4 Eyebrow Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 108% of width</p>	Z-frame	17 1/4	52 1/4	17 1/4	52 1/4
	Signature Z-frame	30	52 1/4	17 1/4	52 1/4
	L-frame	17 1/4	52 1/4	17 1/4	52 1/4
	Traditional deco frame	19 3/4	54 3/4	19 3/4	54 3/4
 <p>1/4 Elongated Sunburst Arch Leg height minimum = 33% of width Leg height maximum = 132% of width</p>	Z-frame	17 1/4	52 1/4	17 1/4	52 1/4
	Signature Z-frame	30	52 1/4	17 1/4	52 1/4
	L-frame	17 1/4	52 1/4	17 1/4	52 1/4
	Traditional deco frame	19 3/4	54 3/4	19 3/4	54 3/4

NOTE: All frame types are available with sill bottom.

Framed arches not available with sill cap.

Buildouts are available on L-frame and traditional deco frame arches.

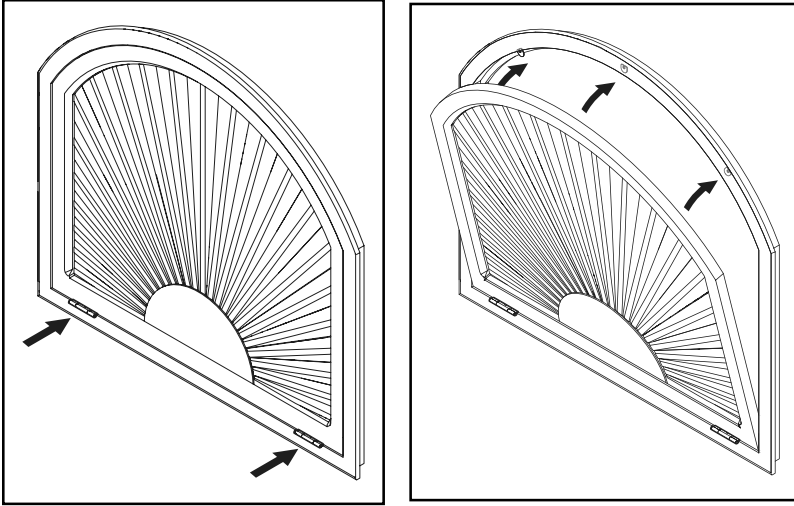
Buildouts are not available with sill bottom.

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

Specialty Styles

Framed Arch Installation Option

Arches arrive with the louvers installed.



Framed Arch—Installing Panel to Frame

Framed arches install similar to standard shutters with the exception that they are hinged on the bottom.

Framed Arch Panel Width (inches)	Number of Hinges
Less than 44	2
Greater than or equal to 44	3
Greater than or equal to 72	4
Greater than or equal to 96	5

Frameless Arch Installation Option

Frameless arches to be installed using hinges and embedded magnets that will attach to a light block shaped to the panel profile. All necessary hardware and components will be included with shutter.

Specialty Styles

Arch and Angle Top Panel Shutters

Available Arch Options:

- 2½", 3½", and 4½" louvers
- Astragal, Hide-A-Tilt™, split tilt, and 1 divider rail
 - Split tilt and divider rails will have +/- 2" tolerance
- All panel configuration in standard shutters
- All frames except tilt-out Z-frame
- Frame configurations: 3-sided, 4-sided, and 4-sided with sill bottom
- Buildouts available for L-frame and traditional deco frames without sill bottom

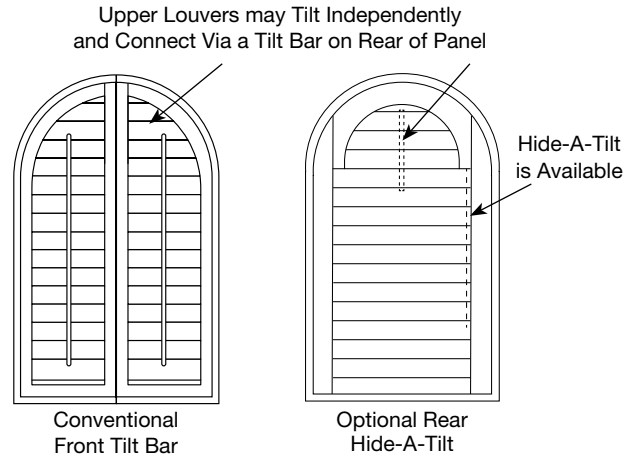
Not Available Arch Options:

- Double hung
- Split tilt AND divider rail together
- Multiple divider rails
- Sill cap
- Double mouse hole

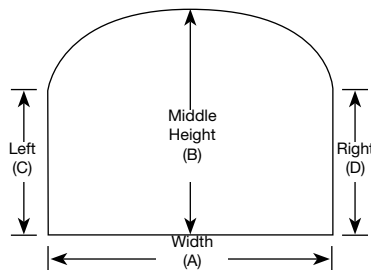
Arch Operation

- Arch louvers only tilt/close in the upwards position
- Louver tilt is restricted up to 90° (degrees) due to the curvature (or slope) at the top of the panel; a divider rail 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

NOTE: Arch/angle top shutters ordered with a signature Z-frame cannot be under 30" in 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:

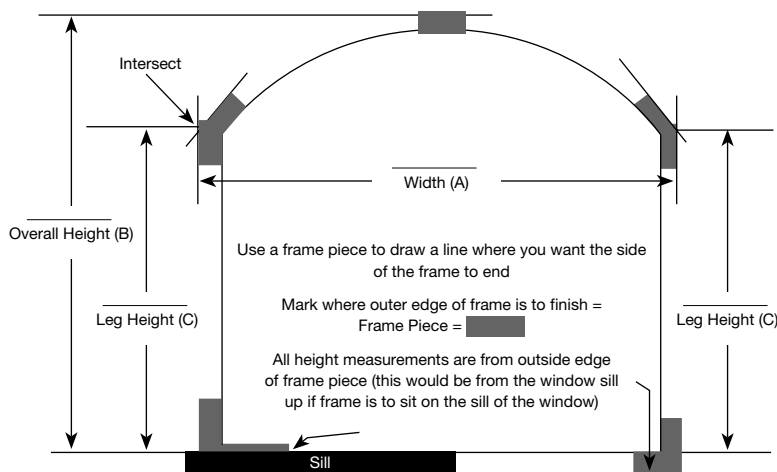
Measure from bottom of window up to arch "break point".

- 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.

NOTE: Divider rail requirements are the same as standard shutters. One divider rail available on arches/angles.
Template required when the ordered height minus the leg height is over 54% of the width.

Specialty Styles

Arch and Angle Top Shutters: Minimum and Maximum (order width by panel configuration)

Number of Panels	Panel Configurations	Direct Mount, Hang Strip, and Tilt-Out Z-Frame		Standard Z-Frames		Signature Z-Frames		L-Frame		Traditional Deco Frame	
		WO Size		WO Size		WO Size		F-F Size		F-F Size	
		Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)	Minimum (inches)	Maximum (inches)
1 Panel	L,R	9¼	36⅞	11⅞	38⅞	30	38⅞	11¼	38¼	13¼	40¼
2 Panels	LR	18⅞	72	20⅞	74⅞	30	74⅞	20⅞	74⅞	24⅞	76⅞
	LTR, LTL, RTR, RTL	19⅞	73⅞	21⅞	75⅞	30	75⅞	21⅞	75⅞	25⅞	77⅞
	LL, RR	18⅞	40½	20⅞	42⅞	30	42⅞	20⅞	42⅞	24⅞	44⅞
3 Panels	LLR, LRR	27⅞	76¼	29⅞	78⅞	30	78⅞	29¼	78¼	24⅞	80¼
	LLTR, LTRR	28¼	77⅞	30⅞	79⅞	30⅞	79⅞	30¼	79¼	35⅞	81¼
	LTLR, LRTR	28¼	109⅞	30⅞	111⅞	30⅞	111⅞	30¼	111¼	35⅞	113¼
	LTLTR, LTRTR, LTLTL, RTRTR	29⅞	110⅞	31⅞	112½	31⅞	112½	31⅞	112⅞	37⅞	115⅞
4 Panels	LLRR	36⅞	79⅞	38⅞	81⅞	38⅞	81⅞	38⅞	81⅞	44⅞	84⅞
	LLTRR	37⅞	81	39⅞	82⅞	39⅞	82⅞	39⅞	83⅞	45⅞	85⅞
	LRTLRL	37⅞	145	39⅞	147⅞	39⅞	147⅞	39⅞	147⅞	45⅞	149⅞
	LTLRTR	37⅞	146⅞	40⅞	148⅞	40⅞	148⅞	40⅞	148⅞	46⅞	149⅞
	LRTLRL, LTLRTR	39¼	147¼	42⅞	149⅞	42⅞	149⅞	41¼	149⅞	48⅞	152⅞
5 Panels	LTLRTR, LTLRTR	47⅞	134⅞	51¼	138⅞	51¼	138⅞	51⅞	138⅞	61⅞	140⅞
	LTLRTRTR, LTLRTRTR	50⅞	184⅞	52⅞	187⅞	52⅞	187⅞	52⅞	187	60½	189½
	LRTLRL, LRTLRL	47⅞	182⅞	51⅞	185⅞	51⅞	185⅞	51⅞	184⅞	55⅞	187⅞
6 Panels	LLTLRTRR	56⅞	154⅞	58½	156⅞	58½	156⅞	58⅞	156⅞	66⅞	158⅞
	LRTLRLTLR	56⅞	216	58½	219⅞	58½	219⅞	58⅞	220⅞	66⅞	222⅞
	LTLRTRR	56⅞	156⅞	59	156⅞	59	156⅞	58⅞	158⅞	67⅞	159⅞
	LTLRTRTR, LTLRTRTR	57½	155⅞	60⅞	157⅞	60⅞	157⅞	59½	157⅞	67⅞	159⅞
	LRTLRLTLR	60¼	222⅞	62⅞	224⅞	62⅞	224⅞	62¼	224⅞	70⅞	226⅞
8 Panels	LRTLRLTLR	75¼	291¼	77⅞	294⅞	77⅞	294⅞	78⅞	295	80¼	297¼
	LRTLRLTLR	73⅞	225⅞	76¼	228¼	76¼	228¼	77⅞	227⅞	79⅞	231⅞
	LLTLRTRR	73⅞	161⅞	76¼	163¼	76¼	163¼	75⅞	163⅞	79⅞	166⅞

NOTE: Panel widths larger than 22" will have reinforced louvers for all louver sizes.

Specialty Styles

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				
	Frame Configuration	Frame Type	Minimum Louver Size (inches)	Maximum Louver Size (inches)
			2½, 3½, 4½	2½, 3½, 4½
Window Opening	2-sided	Hang strip/direct mount	16¼	96¼
	3-sided	Z-frame	16⅝	97⅝
	4-sided	Z-frame	17⅝	98⅝
	4-sided with sill bottom	Z-frame	16⅝	97¾
	3-sided	Tilt Z-frame	16⅝	96¾
	4-sided	Tilt Z-frame	17⅝	96¼
	4-sided with sill bottom	Tilt Z-frame	16⅝	96¾
Frame-to-Frame	3-sided	L-frame	17¼	97¼
	4-sided	L-frame	18¼	97¼
	4-sided with sill bottom	L-frame	17¾	96¼
	3-sided	Traditional deco frame	18⅝	98½
	4-sided	Traditional deco frame	20⅞	100¾
	4-sided with sill bottom	Traditional deco frame	18⅞	98¾

NOTE: Minimum leg height is 13" on arch top and angle top panels.

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

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

1. 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. Tracing arch should only be done with a pencil or pen that is no thicker than ⅛" thick to ensure correct arch size is ordered.
2. Remove the paper from the window and cut out the arch.
3. 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.
4. Once template is cut out, adjustments have been made, and template is symmetrical, place template back in window to ensure proper fit.
5. Mark template with the following:
 - Room side
 - SWF order number
 - Company name and account number
 - PO number
6. Attach a copy of the purchase order to the template.
7. Roll (DO NOT FOLD!) template and place in a shipping tube.
8. 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.

Specialty Styles

French Door Options

- 2½" and 3½" louvers
- Hide-A-Tilt™, split tilt, and double mouse hole available
- Single panels hinged on the same side as the door
- Standard L-frame only
- Order frame-to-frame
- Outside mount only

- A divider rail is required for ordered height greater than 74"
- Button catches plus magnets are standard to provide for a secure closure
- Factory will automatically add and attach buildouts based on your louver size; see chart below
- Split tilt may have +/-2" tolerance from ordered location

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

Projection Based on Louver Size (inches)	Frame	Buildout (inches)
2½	2" L-Frame	0
3½	2" L-Frame	½

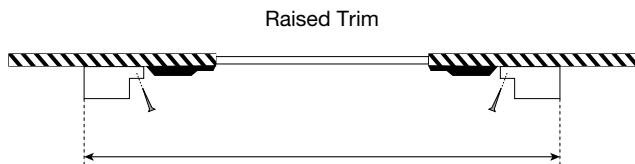
Manufacturing will automatically add buildouts to your order according to the louver size. An additional ½" or 1" can also be requested if needed for louver clearance on larger trims. Factory will also make all adjustments to back plate elevation based on trim projection and extra buildout requested.

French Door Sizes: Minimum and Maximum

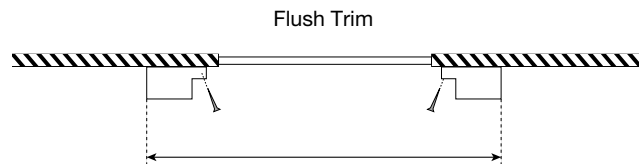
	Minimum (inches)	Maximum (inches)
Width	14	29 ¹³ / ₁₆
Height	34 ¹ / ₈	86 ¹ / ₄

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



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.

NO
Recessed back plate is not needed

If measurement between the base of the hardware and the window trim is **greater** than 1½" (L-frame does fit between hardware and trim), back plate does not need to be recessed.

YES
Recessed back plate is needed

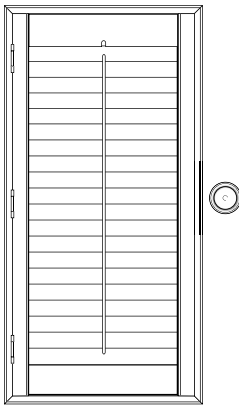
If measurement between the base of the hardware and the window trim is **less** than 1½" (L-frame does not fit between hardware and trim), back plate does need to be recessed.

If recessed back plate is required, the edge of back plate will align with inside edge of L-frame. Installer does not specify amount of recess.

Specialty Styles

French Door Options: Cut-out

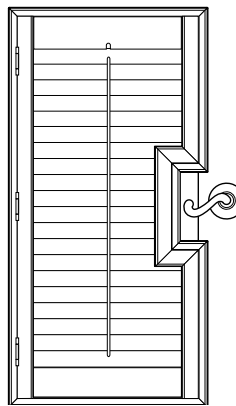
L-Frame
No Cut-out



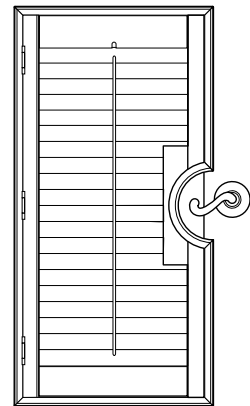
This should only be ordered when installed next to a French door with cut-out; otherwise order it as a standard shutter.

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)

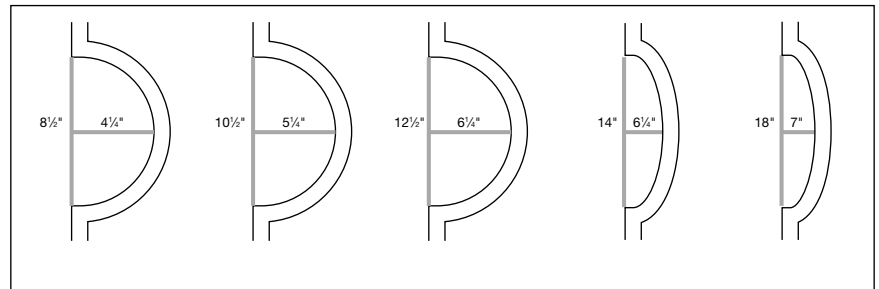


Order Rectangular Cut-out when:

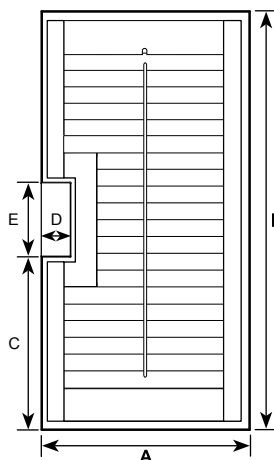
1. Choose if the base of the door hardware is rectangular.
2. Must specify width and height of the cut-out. There are NO set standard sizes to conform to. There are NO templates to use.
3. Be sure to make proper allowances for the door handle to pivot easily when determining your cut-out size.

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.

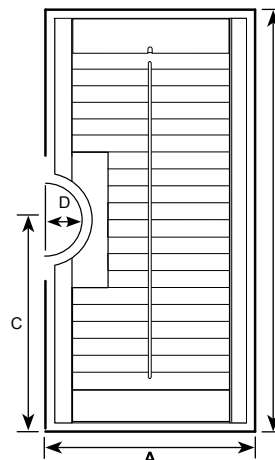


This image is taken from the backside of the French door order form.



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
D = Width of cut-out
E = Height of cut-out



Curved Cut-out

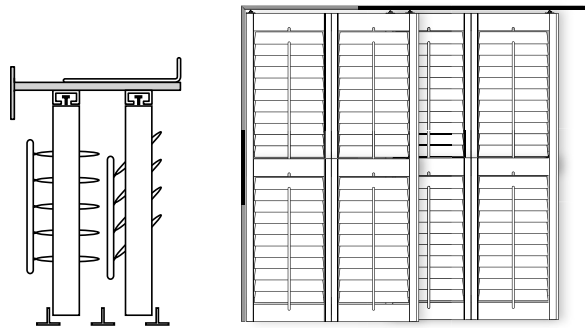
- A** = Shutter width—frame-to-frame
B = Shutter height—frame-to-frame
C = Bottom of shutter frame to center of cut-out
D = Width of cut-out

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

Specialty Styles

Bypass Shutters

- Ideal solution for large windows and patio doors
- System consists of a double-top track and optional floor guides (no bottom track)
- Available in all louver sizes
- Available with double mouse hole, Hide-A-Tilt™, and split tilt
- See the minimum and maximum order sizes charts (factory to determine panel size based on width ordered and configuration)
- Panels are composite
- Headers, box-out, and valance made of wood and painted to match shutter color ordered
- Divider rail on 2½" and 3½" louvers will be exact to ordered size; divider rail on 4½" louvers will have a 2" tolerance
- Divider rail required if over 72" ordered height
- Tracks wider than 144" will be spliced
- Header and valance could be spliced over 96"
- ½" buildout is available
- Split tilt and divider rail not available together on same shutter
- Configuration options:
 - Outside mount—with or without box-out (box-out recommended)
 - Exact frame-to-frame with box-out
 - Inside mount—minimum window depth 5⅝"
- All mounting options include:
 - Valances: two top treatment styles available:
 - 5" double beaded standard valance,
 - 4½" decorative valance (optional)
 - Track and header board: unit includes two tracks installed to header; header is 5½" deep and ¾" thick
 - 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



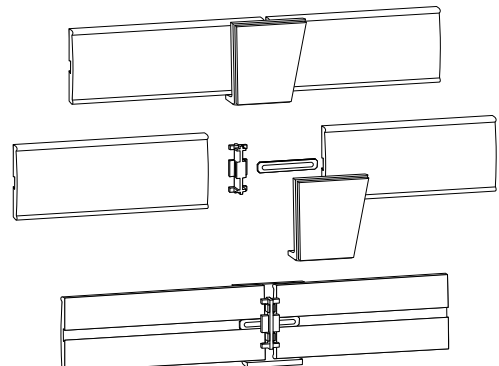
4½" Decorative Valance



5" Standard Valance

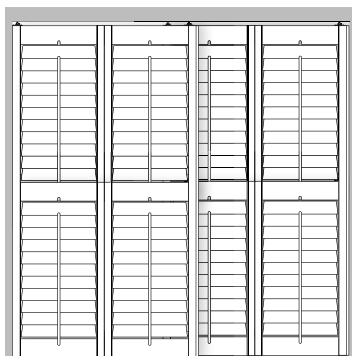
Valance Keystones

- 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 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



Specialty Styles

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 3¼" 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.

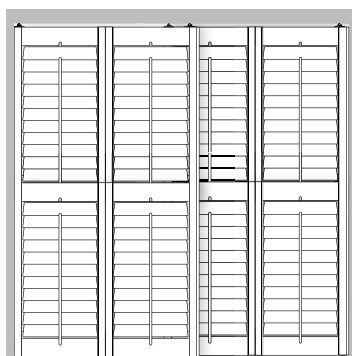
Height Measure (with or without box-out): If no window trim: measure from floor surface to top of the window opening. If window trim: measure to top of window trim. **Regardless of ordered size, factory will add 2⅝" to your overall ordered height.**

Other Measuring Considerations: ½" 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 ½" deduction off the track for proper fit.

Height Measure: Order window opening height and factory will make a ½" deduction. The carriers are adjustable.

Other Measuring Information: Minimum window depth required for 5⅝". No buildouts available.

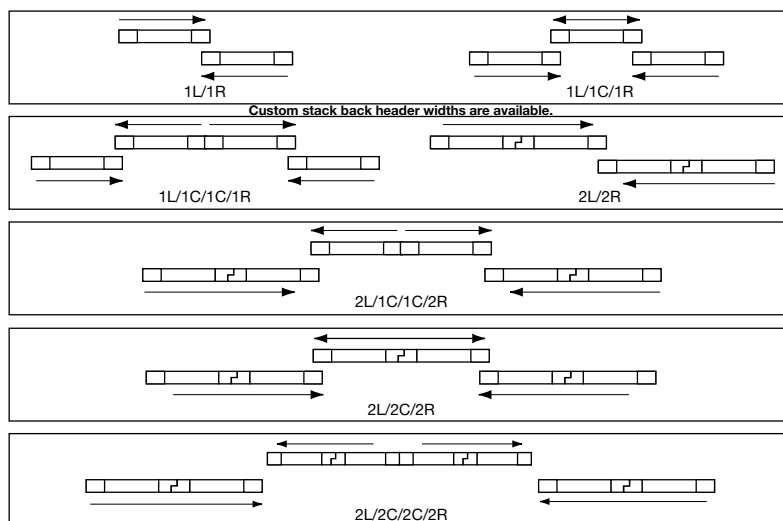
Valance Information: Special valance width available. Valance returns and special return width available.

Box-Out Information: Not available.

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

Specialty Styles

Bypass Track System Configuration Options (only configurations available)



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

Panel Configuration	Example of Shutter Unit Configurations Using Various Panel Combinations	Outside Mount with Additions		Inside Mount		Outside Mount – Exact	
		Order WO Size		Order WO Size		Exact Frame-to-Frame	
		Minimum Width (inches)	Maximum Width (inches)	Minimum Width (inches)	Maximum Width (inches)	Minimum Width (inches)	Maximum Width (inches)
1L/1R		18	70	20	71	19 $\frac{1}{4}$	73 $\frac{1}{4}$
1L/1C/1R*		27 $\frac{1}{2}$	104	28 $\frac{1}{2}$	106 $\frac{1}{2}$	27 $\frac{3}{4}$	108 $\frac{3}{4}$
1L/1C/1C/1R		37	141	38	142	36 $\frac{1}{4}$	144 $\frac{1}{4}$
2L/2R		37 $\frac{3}{4}$	141 $\frac{3}{4}$	38 $\frac{3}{4}$	142 $\frac{3}{4}$	36	145
2L/1C/1C/2R*		56	212	58 $\frac{5}{8}$	213	54 $\frac{1}{4}$	215 $\frac{1}{4}$
2L/2C/2R*		57 $\frac{1}{8}$	213 $\frac{1}{8}$	58 $\frac{5}{8}$	213 $\frac{1}{4}$	71 $\frac{13}{16}$	215 $\frac{1}{2}$
2L/2C/2C/2R		76 $\frac{1}{2}$	284 $\frac{1}{2}$	77 $\frac{1}{2}$	285 $\frac{1}{2}$	71 $\frac{13}{16}$	287 $\frac{3}{4}$

*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.
- Combinations with a 2C, 2L, or 2R will be rabbeted together and move as one unit. Panels to be connected during installation.

Composite Bypass Height Minimum and Maximum

Options	Minimum (inches)	Maximum (inches)
Outside Mount	15 $\frac{3}{8}$	96 $\frac{3}{8}$
Inside Mount	17 $\frac{1}{4}$	99
Exact	17 $\frac{1}{4}$	99

Setting Bracket Height

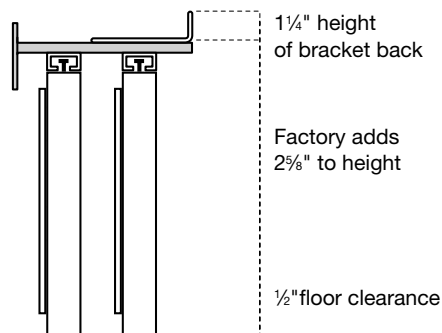
(for outside mount without side frames)

For wall mount bypass shutter system

Top of angle bracket to floor:

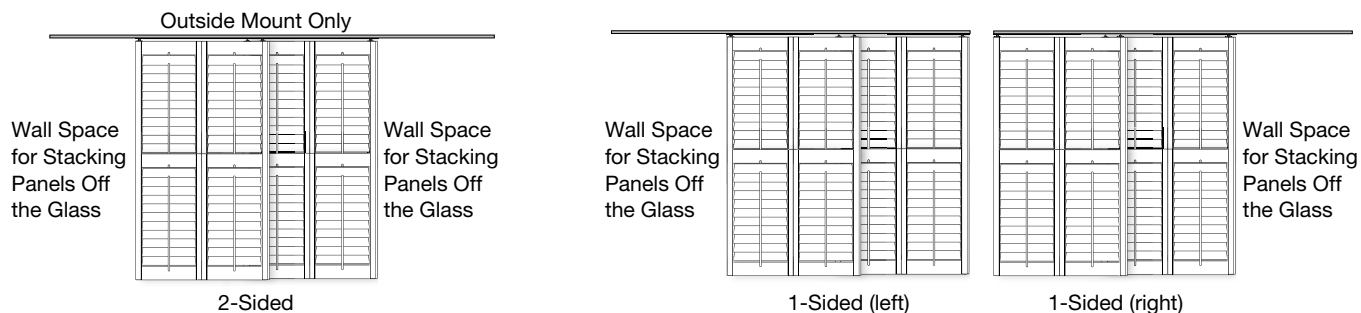
Top of bracket will be 3 $\frac{7}{8}$ " above ordered height. This includes $\frac{1}{2}$ " clearance off the floor.

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



Specialty Styles

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	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

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

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.

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.

Double Mouse Hole—Recess on the top and bottom rail allowing for the louvers to be completely closed in either direction. Close in upward position for optimal closure.

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 in the top rail of the panel that the lift rod rests in when the louvers are completely closed. Standard is single mouse hole.

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.

Rabbit 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.

Reinforced Louvers—Louvers which are strengthened by an aluminum support bar running through the center of the louver to prevent sag.

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 track system to completely slide beyond the window opening.

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

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

Occasional light vacuuming with a brush attachment should keep shutters clean. More severe soiling can be removed by using a soft cloth along with a mild detergent and water solution.

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