AURORA™ SHUTTERS, TRADITIONS® WOOD SHUTTERS AND COMPOSITE SHUTTERS

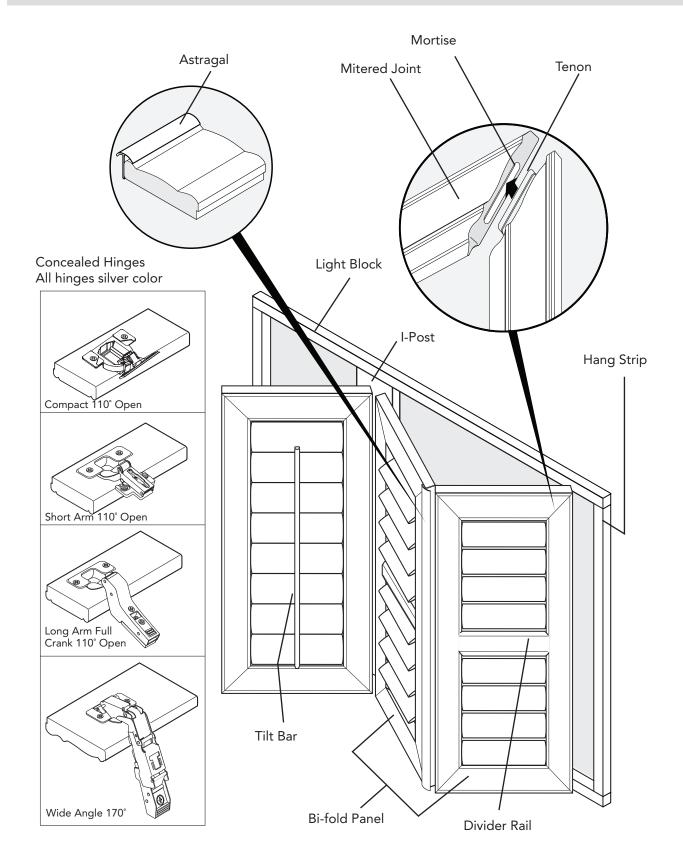
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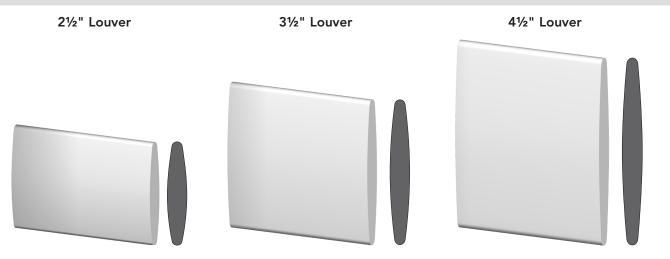
Aurora[™] Shutters

PRODUCT ILLUSTRATION



Product Options – Aurora Shutters

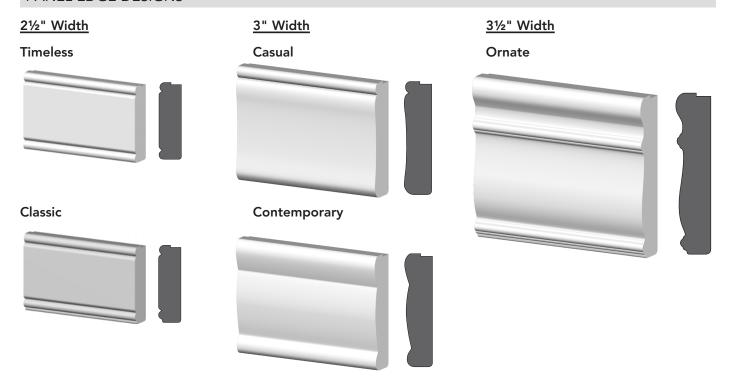
LOUVER SIZES AVAILABLE



COLORS AVAILABLE

*Also available in wood shutter program

PANEL EDGE DESIGNS

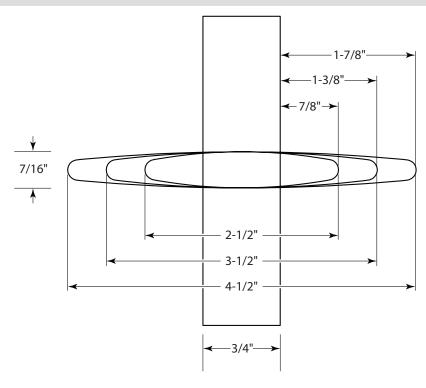


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Louver Size Clearances Chart – Aurora Shutters

LOUVER SIZES AVAILABLE



NOTE: Hidden tilt add 1/8" to depth for window clearance.

PANEL WIDTH/HEIGHT MINIMUM AND MAXIMUM SIZES

Panel Edge Design	Timeless	and Classic	Contempora	ry and Casual	Orr	ate
Divider rail minimum	Divider rail required over 60"		One divider rail required over 72"		One divider rail required over 72"	
requirements			Two divider rails required over 84"		Two divider rails required over 96"	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Width single panel	10"	30"	11"	30"	12"	30"*
Width bi-fold	10"	24"	11"	24"	12"	24"
Height	15"	84"	18"	96"	21"	120"

^{*}Panels over 96" tall have a maximum width of 26"

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Mounting Options for Aurora Shutters Drywall Wrapped Windows

OUTSIDE MOUNT OPTIONS

		OVERLAP	MINIMUM WINDOW DEPTH	MAXIMUM PANEL SWING	PAGE
OPTION #1 BUILD-OUT	TOP VIEW +1.5-1 overlap 0.75 1.0 WALL	1½" Beyond edge of opening	Flush	110°	7
OPTION #2 WALL MOUNT	TOP VIEW +2.0 overlap	2" Beyond edge of opening	3/4"	110°	8
OPTION #3 HANG STRIP	TOP VIEW 0.25 overlap — 75 WALL WALL	¼" Beyond edge of opening	3/4"	110°	9
OPTION #5 DIRECT MOUNT	TOP VIEW 0.75 overlap	¾" Beyond edge of opening	1¾"	110°	11
OPTION #7 DIRECT MOUNT	TOP VIEW 0.75 overlap WALL	³ 4" Beyond edge of opening	3½"	170°	13

INSIDE MOUNT OPTIONS MAXIMUM MINIMUM WINDOW PANEL OVERLAP SWING PAGE **DEPTH** TOP VIEW **OPTION #4** -1.75- 0.75 WALL 1.625 WALL _ **RECESSED** N/A 15/8" 110° 10 **HANG STRIP** TOP VIEW OPTION #6 **RECESSED** N/A 4" 110° 12 WALL **DIRECT MOUNT** TOP VIEW **OPTION #8 RECESSED** N/A 170° 14 WALL **DIRECT MOUNT**

Mounting Options for Aurora Shutters Wood Trimmed Windows

OUTSIDE MOUNT OPTIONS

	OVERLAP	MINIMUM WINDOW DEPTH	MAXIMUM PANEL SWING	PAGE
OPTION #1 BUILD-OUT TOP VIEW 1.5 overlap 0.75 WALL WALL WALL WALL	1½" Beyond edge of opening	Flush	110°	7
OPTION #2 WALL MOUNT WALL TOP VIEW -2.0—loverlap WALL WALL WALL	2" Beyond edge of opening	3/4"	110°	8
OPTION #3 HANG STRIP TOP VIEW 0.25 overlap -75 WALL	½" Beyond edge of opening	3/4"	110°	9
OPTION #5 DIRECT MOUNT TOP VIEW 0.75 overlap 1.75 WALL WALL	¾" Beyond edge of opening	11⁄4"	110°	11
OPTION #7 DIRECT MOUNT TOP VIEW 0.75 overlap O.5 WALL	³ ⁄4" Beyond edge of opening	3"	170°	13

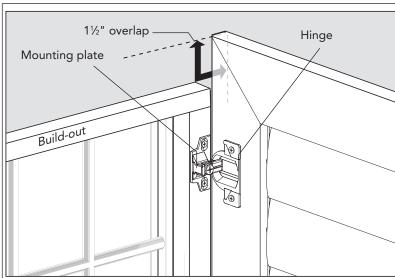
INSIDE MOUNT OPTIONS

		OVERLAP	MINIMUM WINDOW DEPTH	MAXIMUM PANEL SWING	PAGE
OPTION #4 RECESSED HANG STRIP	1.25 —1.75— 0.75 WALL	N/A	11⁄4"	110°	10
OPTION #6 RECESSED DIRECT MOUNT	TOP VIEW 1,0 WALL	N/A	31/2"	110°	12
OPTION #8 RECESSED DIRECT MOUNT	TOP VIEW [0.5] WALL WALL	N/A	3½"	170°	14

OPTION 1 — SHALLOW WINDOWS-OUTSIDE MOUNT

Less than 3/4" window depth

BUILD-OUT WITH 11/2" OVERLAP



Drywall wrapped window: 1½" overlap with build-out

Minimum window depth: Flush to wall

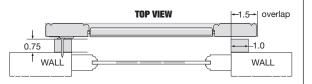
Hinge: Compact 110° open

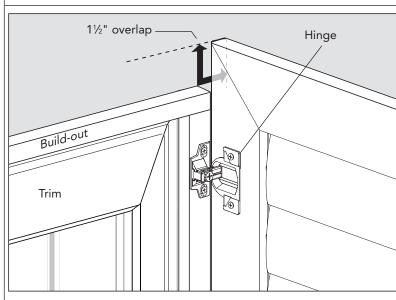
Tilt In: Yes

Measure Type: Window opening
Finished Size: Factory will add 3" to

ordered width and 3" to ordered height or 1½" to height for windows

with a sill.





Window with trim: 1½" overlap with build-out

Minimum window depth: Flush to wall

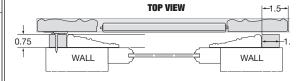
Hinge: Compact 110° open
Tilt In: Yes

Measure Type: Trim to trim

Finished Size: Factory will add 3" to

ordered width and 3" to ordered height or 1½" to height for windows

with a sill.



4½" louvers are not available on this option.

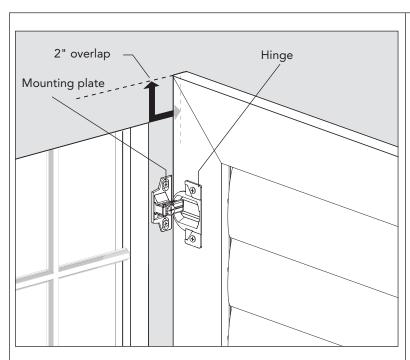
NOTE: Larger build-out needed for $3 \frac{1}{2}$ " or $4 \frac{1}{2}$ " louvers, see below.

Build-out Chart

Louver Size	Build-out Height
2½"	3/4"
3½"	11/4"
4½"	1¾"

OPTION 2 — SHALLOW WINDOWS-OUTSIDE MOUNT

WALL MOUNT WITH 2" OVERLAP



Drywall wrapped window: 2" overlap Minimum window depth: 3/4"

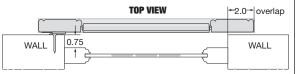
Hinge: Compact 110° open

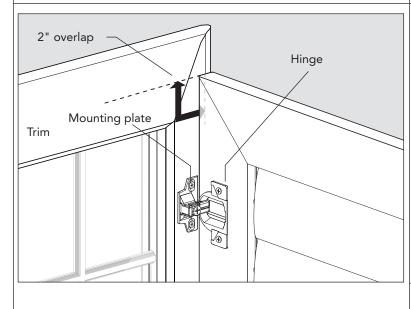
Tilt In: Yes

Measure Type: Window opening **Finished Size:** Factory will add 4" to

ordered width and 4" to ordered height or 2" to height for windows

with a sill.





Window with trim: Trim with no reveal, 2" overlap

Minimum window depth: 3/4"

Hinge: Compact 110° open

Tilt In: Yes

Measure Type: Window opening

Finished Size: Factory will add 4" to

ordered width and 4" to ordered height or 2" to height for windows

with a sill.



Requires 1/2" flat surface on trim.

NOTE: Build-out required for 3 % " and 4 % " louvers, see below.

Build-out Chart

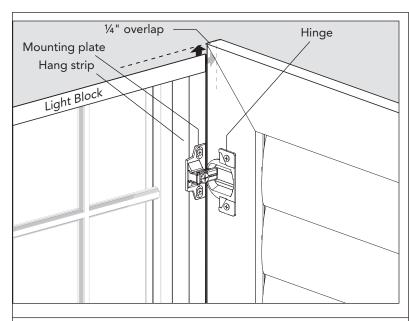
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Louver Size	Build-out Height	
2½"	None	
3½"	3/4"	
4½"	11/4"	

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OPTION 3 — SHALLOW WINDOWS-OUTSIDE MOUNT

HANG STRIP WITH 1/4" OVERLAP



Drywall wrapped window: 1/4" overlap Minimum window depth: 3/4"

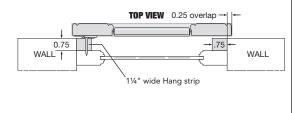
Hinge: Compact 110° open

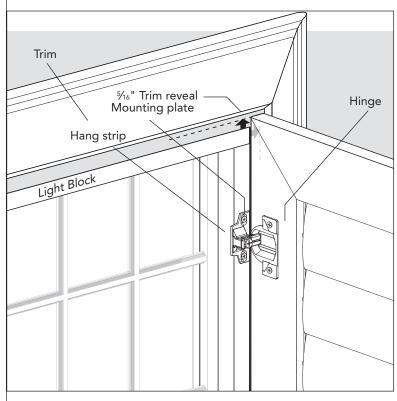
Tilt In: No

Measure Type: Window opening
Finished Size: Factory will add ½" to

ordered width and ½" to ordered height or ¼" to height for windows

with a sill.





Window with trim: Trim with 5/16" reveal

Minimum window depth: 3/4"

Hinge: Compact 110° open

Tilt In: No

Measure Type:Window openingFinished Size:Factory will add $\frac{1}{2}$ " to

ordered width and $\frac{1}{2}$ " to ordered height or $\frac{1}{4}$ " to height for windows

with a sill.



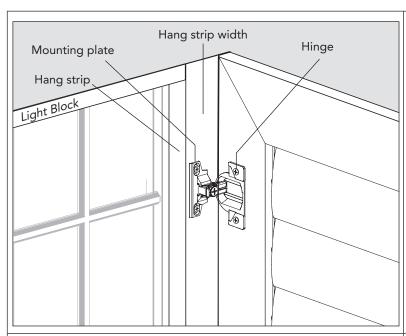
Requires minimum of $\,\,1/4\,^{\rm m}$ reveal between edge of window and trim.

Required Clearance

Louver Size	Minimum Window Depth
21/2"	3/4"
3½"	1½"
41/2"	2"

OPTION 4 — SHALLOW WINDOWS-INSIDE MOUNT

INSET WITH 3/4" HANG STRIP



Drywall wrapped window: Inset window

Minimum window depth: 1%"

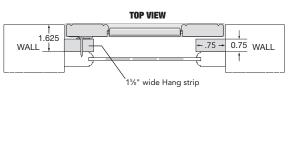
Hinge: Compact 110° open

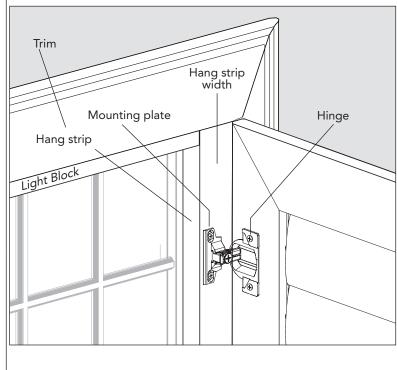
Tilt In: No

Measure Type: Window opening
Finished Size: Factory will deduct 1/4"

from the ordered width

height.





Window with trim: Trim with no reveal

Minimum window depth: 11/4"

Hinge: Compact 110° open

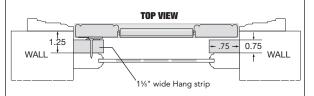
Tilt In: No

Measure Type: Window opening

Finished Size: Factory will deduct ¼"

from the ordered width

height.



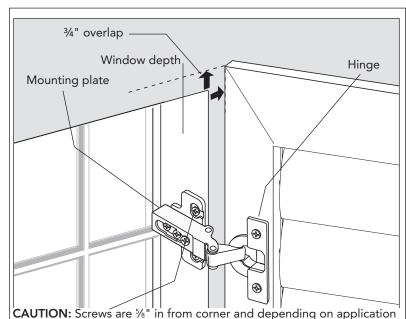
Required Clearance

Louver Size	Minimum Window Depth
21/2"	3/4"
31/2"	1½"
41/2"	2"

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OPTION 5 — SHALLOW WINDOWS-OUTSIDE MOUNT

WITH 3/4" OVERLAP



may not hit a stud. Screws could also hit the metal corner bead.

Drywall wrapped window: Outside mount with 3/4"

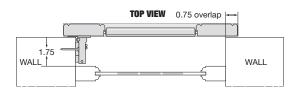
overlap

Minimum window depth: 1¾"

Hinge: Short Arm 110° open
Tilt In*: Yes, %6" clearance
Measure Type: Window opening
Finished Size: Factory will add 1½" to

ordered width and 1½" to ordered height or ¾" to height for windows

with a sill.



* Hinge must be disengaged from mounting plate and panel removed to tilt window in.

Mounting plate
Trim

Hinge

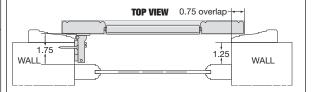
Window with trim: Trim with no reveal

Minimum window depth: 11/4"

Hinge: Short Arm 110° open
Tilt In*: Yes, %6" clearance
Measure Type: Window opening
Finished Size: Factory will add 1½" to

ordered width and 1½" to ordered height or ¾" to height for windows

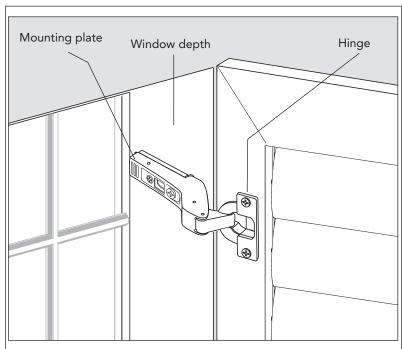
with a sill.



* Hinge must be disengaged from mounting plate and panel removed to tilt window in.

OPTION 6 — DEEP WINDOWS-INSIDE MOUNT

INSET MOUNT



Drywall wrapped window: Flush inset

Minimum window depth: 4"

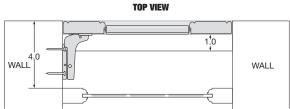
Long arm full crank 110° open Hinge:

Yes, 3/8" clearance required Tilt In*:

Measure Type: Window opening Finished Size: Factory will deduct 1/4"

from the ordered width

and height.



* Hinge must be disengaged from mounting plate and panel removed to tilt window in.

Window with trim: Trim with no reveal

Minimum window depth: 3½"

Hinge: Long arm full crank

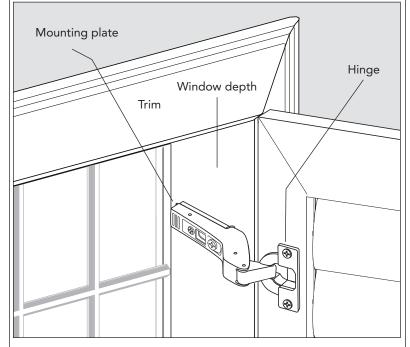
110° open

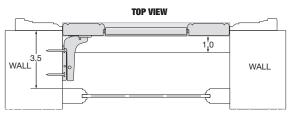
Yes, 3/8" clearance required Tilt In*:

Window opening Measure Type: Finished Size: Factory will deduct 1/4"

from the ordered width

and height.





* Hinge must be disengaged from mounting plate and panel removed to tilt window in.

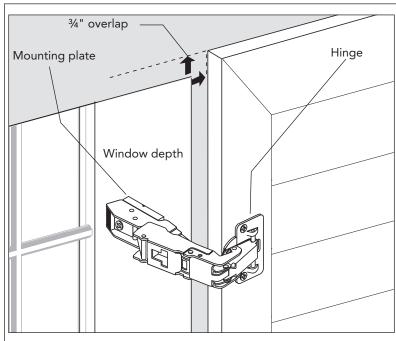
GRABER.

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OPTION 7 — DEEP WINDOWS-OUTSIDE MOUNT

NOTE: Only available with Ornate Panel edge design.

WITH 3/4" OVERLAP



Drywall wrapped window: 3/4" overlap Minimum window depth: 31/2"

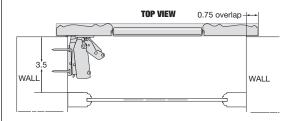
Hinge: Wide angle 170°
Tilt In: Yes, ¾" clearance

required

Measure Type: Window opening
Finished Size: Factory will add 1½" to

ordered width and 1½" to ordered height or ¾" to height for windows

with a sill.



* Hinge must be disengaged from mounting plate and panel removed to tilt window in.

Window with trim: Trim with no reveal

Minimum window depth: 3"

Hinge: Wide angle 170°
Tilt In: Yes, ¾" clearance

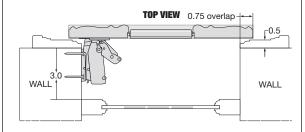
required

Measure Type: Window opening

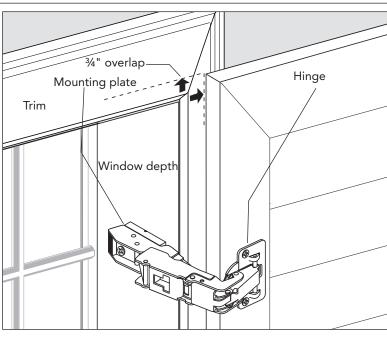
Finished Size: Factory will add 1½" to

ordered width and $1\frac{1}{2}$ " to ordered height or $\frac{3}{4}$ " to height for windows

with a sill.



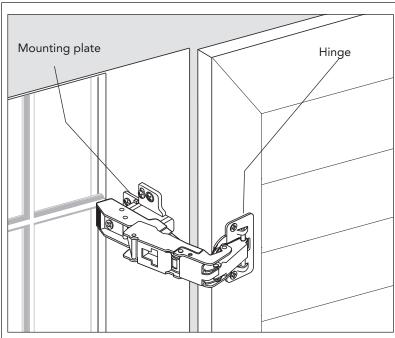
* Hinge must be disengaged from mounting plate and panel removed to tilt window in.



OPTION 8 — DEEP WINDOWS-INSIDE MOUNT

NOTE: Only available with Ornate Panel edge design.

RECESSED DIRECT MOUNT



Drywall wrapped window: Inset Minimum window depth: 4"

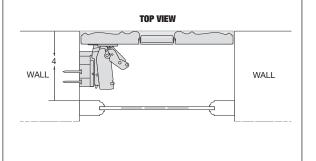
Hinge: Wide angle 170°

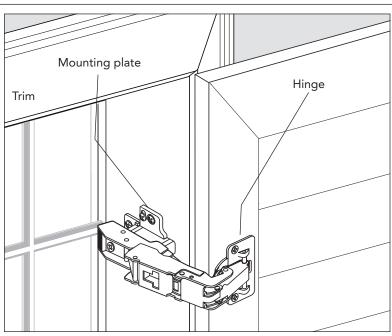
Tilt In: No

Measure Type: Window opening
Finished Size: Factory will deduct ¼"

from the ordered width

height.





Window with trim: Trim with no reveal

Minimum window depth: 3 1/2"

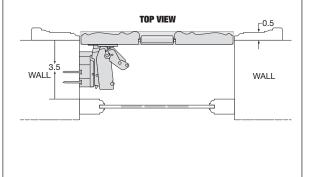
Hinge: Wide angle 170°

Tilt In: No

Measure Type: Window opening
Finished Size: Factory will deduct ¼"

from the ordered width

height.



How to Measure – Aurora Shutters

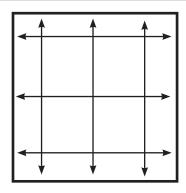
WINDOW OPENING

Measure the width at three points and the height at three points. Use the smallest width and height measurements.

For windows that are more than 1/4" out of square on diagonal measurements, we recommend an outside mount installation.

For drywall-wrapped windows with a rounded edge (Bullnose) where the radius of the Bullnose is 1" or less, simply measure the window opening as if it were a square corner. For radius larger than 1" measure from where the wall becomes flat for window opening measurement.

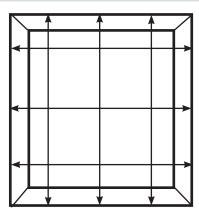
NOTE: On large radius Bullnose edges confirm the louvers will have sufficient clearance to rotate with the 2" overlap.



TRIM-TO-TRIM (INSTALL OPTION 1 ONLY IF WINDOW HAS TRIM)

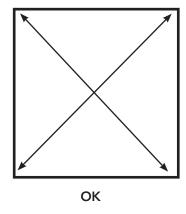
Measure width and height from outside of window trim to outside of window trim at three points. Use the largest width and height measurements.

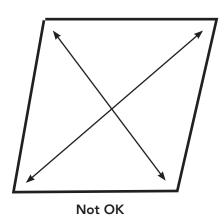
For windows with sills, measure from top of trim to window sill for height.



CONFIRM THAT WINDOW IS SQUARE

Measure the diagonals. If the difference between the two measurements is greater than $\frac{1}{4}$ ", an outside mount shutter is required.

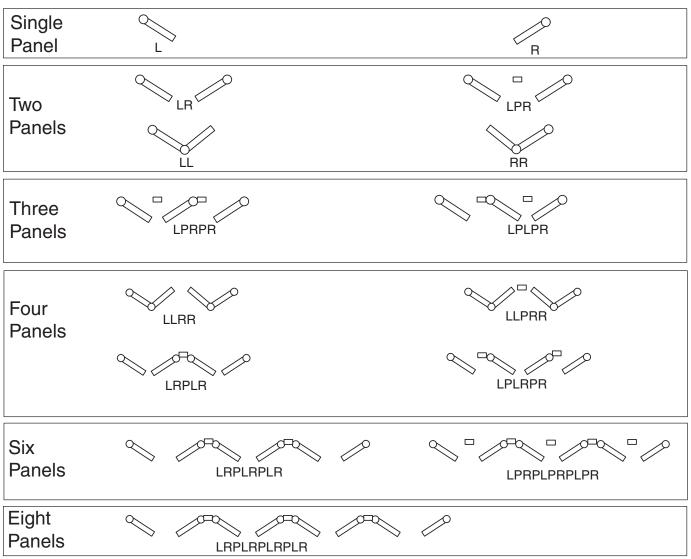




Panel Configurations – Aurora Shutters

PANEL CONFIGURATIONS AVAILABLE





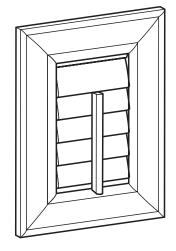
- All panel configurations ordered with an I Post will receive a frame to assemble.
- Panels hinged to an I Post will use a compact hinge.

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Tilt Options – Aurora Shutters

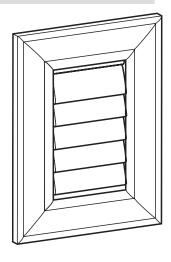
STANDARD TILT

Standard tilt features a tilt-bar on the front of the panel.

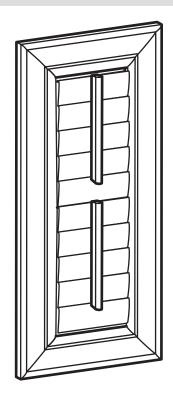


HIDDEN TILT

Stainless steel tilt-bar on back of panel (on hinge side) requires additional 1/8" clearance.

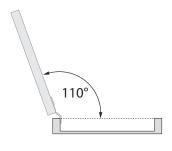


SPLIT TILT

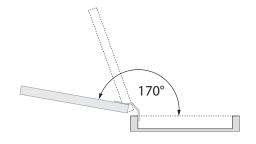


- Available on Standard Tilt and Hidden Tilt
- Split is always as centered as possible

PANEL OPENINGS AT 110° AND 170°



Install Options 1-6

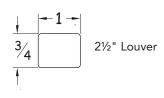


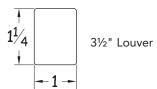
Install Options 7 and 8

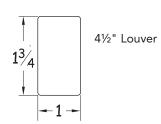
Lightblock and Build-outs - Aurora Shutters

LIGHTBLOCK, BUILD-OUTS AND I-POST

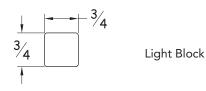


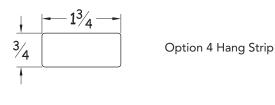


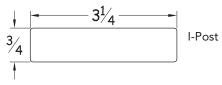




Light Blocks, Hang Strips and Post Components





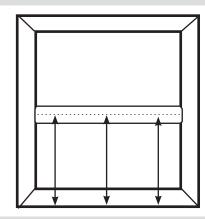


DIVIDER RAILS

Window opening measurements: Measure from bottom of window opening to center of divider rail location.

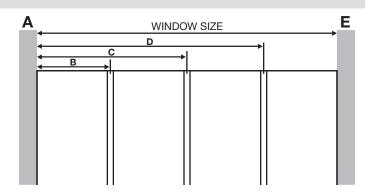
Trim-to-trim measurements: Measure from bottom of trim to center of divider rail location or sill to center of divider rail. (Option 1 with trim only)

Note: Must have four (4) louvers between any 2 rails. Divider rail width: 3".



I-POSTS

Window opening measurements: Measure from left side of window opening to center of any I-post location. Trim-to-trim measurements: Measure from left edge of trim to center of I-post location. (Option 1 with trim only)



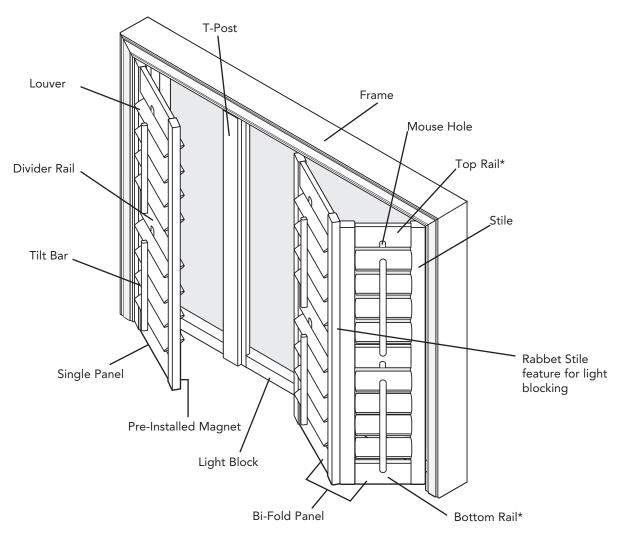
Pricing Information – Aurora Shutters

$\textbf{Aurora}^{\text{\tiny{TM}}} \textbf{ Shutter Pricing:}$

Measure Type Trim to Trim, Install option 1 (windows with trim)	. \$38.50 per sq. ft.
Window Opening, Install options 1-6	. \$38.50 per sq. ft.
Window Opening, Install option 7-8	. \$39.50 per sq. ft.
Split Tilt	. \$16.00 per shutter
Hidden Tilt	. \$54.00 per shutter

Wood Shutters

PRODUCT ILLUSTRATION

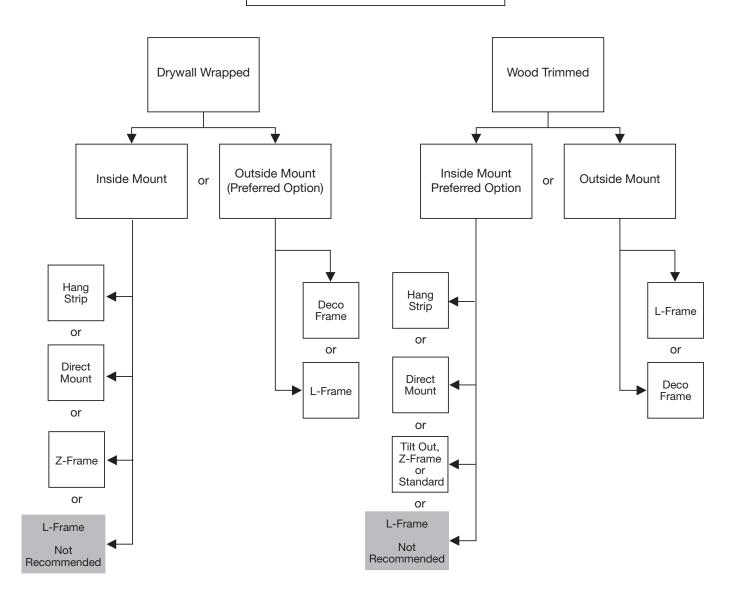


*Top and Bottom Rail heights will vary.

Mouse Hole – standard is top only – optional top and bottom (double mouse hole)

Shutter Frame Type Decision Tree

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

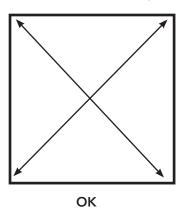


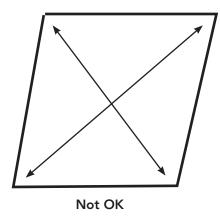
If window has a sill, configuration with a sill bottom is recommended

Measuring-Standard Shutters

Confirm that the window is square.

Measure the diagonals. If the difference between the two measurements is greater than $\frac{1}{4}$, an outside mount shutter is required.

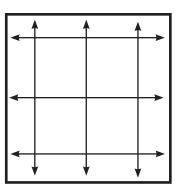




Window Opening Measurement Inside Mount with Hang Strips, Direct Mount, Z-Frame, Tilt-Z

Measure the width at three points and the height at three points. Use the smallest width and height measurements.

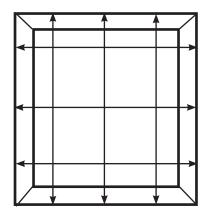
NOTE: Factory makes no allowances/deductions for Tilt-Z frame.



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.



NOTE: At least 1¾" flat surface is needed on each side of the window for an L-Frame.

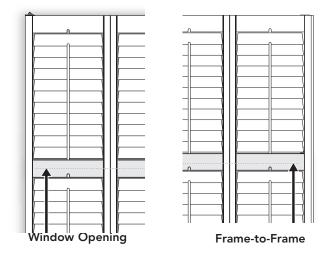
Helpful Hint: If shutters are in the same room and/or side by side, shutters must be ordered at the same height to ensure rail width, divider rail location, louver count and hinge quantity will match.

Measuring-Divider Rails and T-Posts

MEASURING DIVIDER RAIL

Always start from the bottom point of measure to center of the desired divider rail location. To measure frame-to-frame, measure from the bottom of the shutter frame up to the center of the desired rail location. To measure window opening, measure from the sill or bottom of the window opening to the center of the desired rail location.

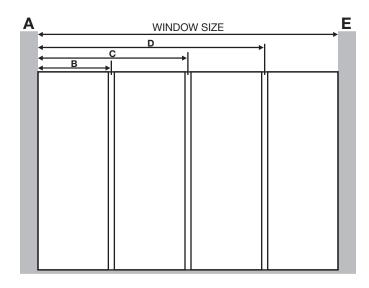
If there are two divider rails, measure from the bottom of measure type up to center of first rail location then measure from the bottom of measure type up to the center of the second rail location.



MEASURING T-POSTS

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.

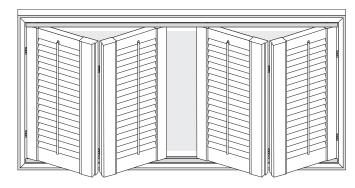


ALWAYS measure from the same point the frame was measured. EXAMPLE: If measuring for L-Frame, frame-to-frame measure type, A is the outside edge of the L-Frame.

Shutter Styles



Standard Panel: A rectangular shaped panel that can be installed using any frame style.



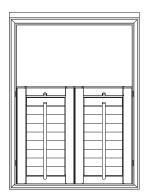
Bi-Fold Track System (wood only): Two or four panels are hinged together with a top and bottom track (see pages 47-49 for bi-fold information).



Bi-Fold: Two panels are hinged together and fold to lie flush.

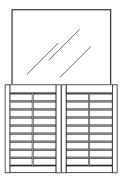


Bypass Track System: Shutter panels slide on a top track to open and close. The track system can be attached to a frame or mounted directly to a window casing or the ceiling. The most common approach is a 3-sided box-out with floor guides. Louvers must be closed before sliding panels (see pages 45-46, 49-50 for bypass information).



Café: Panels come standard with a magnet on the base of each panel; aligning catch at top of panels is optional.

Café Shutters



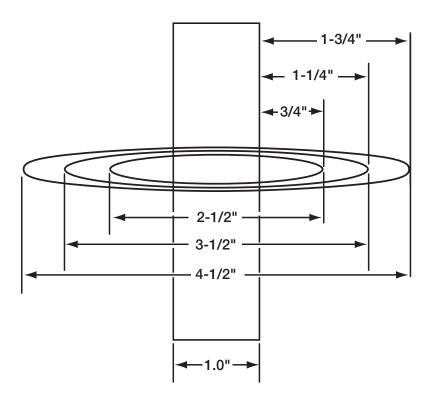
Shown as 2 sided

Shown as 4 sided

Rear view of Café Panel
Optional: Café Aligning Catch

- Tops of wood panels are finished.
- Tops of composite panels are NOT finished and are not recommended.
- Café shutter panels cover the lower portion of the window.
- Pricing is width x café panel height.
- Optional Café Aligning Catch
- Frame can be ordered to stop at panel height

Wood and Composite Louver Options



Note: Hide-a-Tilt requires an additional 3/8" window clearance

21/2" Louver (Wood and Composite)

- Traditional in style and most widely used louver size
- Minimal window depth needed
- Shutters are focal point of the room
- Required clearance 3/4"
- Hide-a-tilt available; required clearance 11/8"

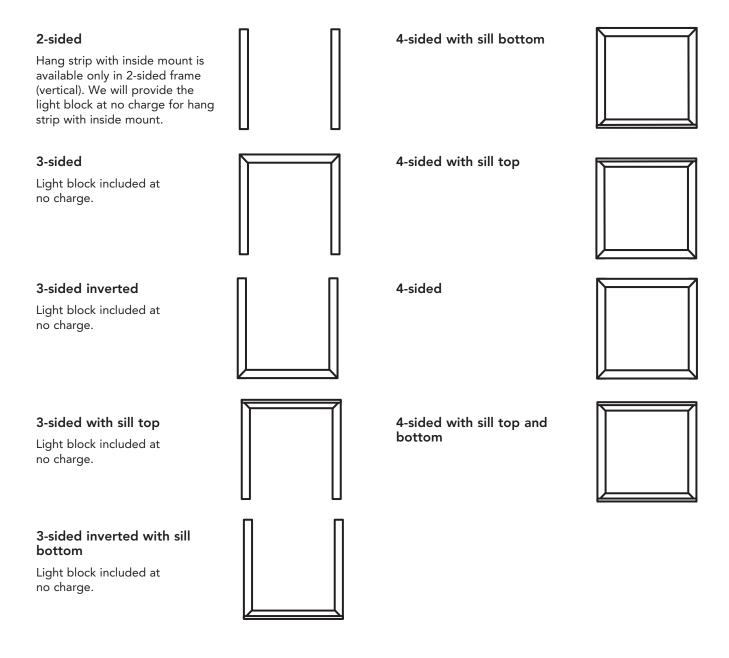
3½" Louver (Wood and Composite)

- Offers more visibility and light control than small louver
- Design flexibility when working with space around shutter
- Required clearance 11/4"
- Hide-a-tilt available; required clearance 1%"

4½" Louver (Wood and Composite)

- 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
- Required clearance 13/4"
- Hide-a-tilt available; required clearance 21/8"
- Not available on Composite Woodgrain colors

Wood and Composite Frame Configurations

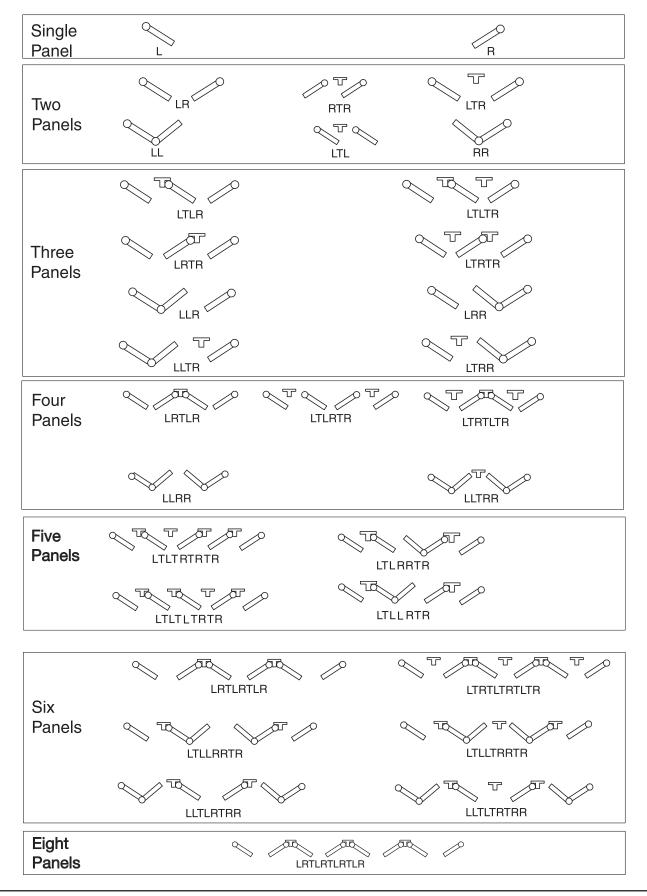


27

Direct mount includes four light blocks at no charge.

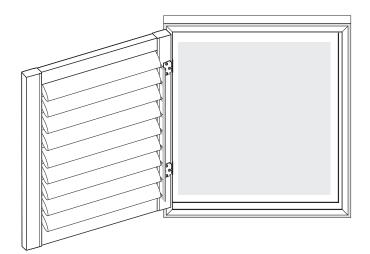
Wood and Composite Panel Configurations-Standard Shutters

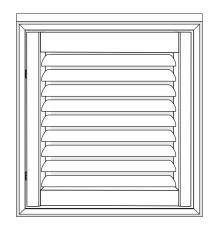
STANDARD AND BI-FOLD PANEL-ONLY CONFIGURATIONS AVAILABLE



△GRABER 28

Wood and Composite Options





Hide-a-TiltTM 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 stainless steel tilt bar is attached to the louvers in the rear of the panel. Operation of the shutter is as simple as positioning one louver into position; all of the other louvers will follow. Hide-a-Tilt allows the shutter to be closed in the upward and downward position.

Available on wood and composite standard shutters, French doors, bi-fold or bypass with $2\frac{1}{2}$ ", $3\frac{1}{2}$ " and $4\frac{1}{2}$ " louvers. To measure for a Hide-a-Tilt, use the traditional measuring procedure (page 26), and check for additional $\frac{1}{2}$ " clearance in the back of the shutter.

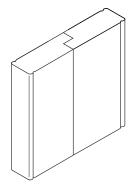
- Maximum height without divider rail is 72".
- Hide-a-Tilt bar will always be stainless steel color

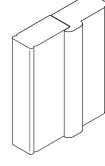
ASTRAGAL PANEL OVERLAP STYLES FOR WOOD AND COMPOSITE SHUTTERS

Rabbet and Astragal Style Overlap

- Rabbet overlap is right over left
- Astragal standard overlap will be right over left; optional overlap is left over right
- All panels on an order will have the same overlap
- Not available on Composite Woodgrain colors

*NOTE: Bi-Fold panels will be rabbetted between the panels.





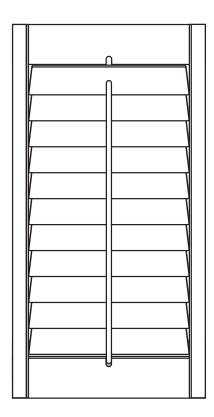
Rabbet Style Panel Overlap

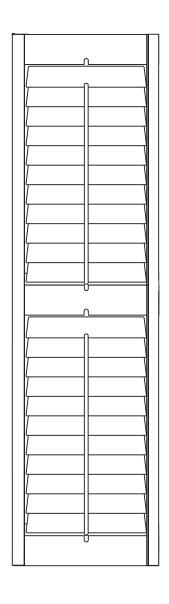
Astragal Style Panel Overlap

Wood and Composite Options

Double Mouse Hole for Wood and Composite Shutters

 A mouse hole on the rail above and below each louver section allows the louvers to be closed in the upward or downward position





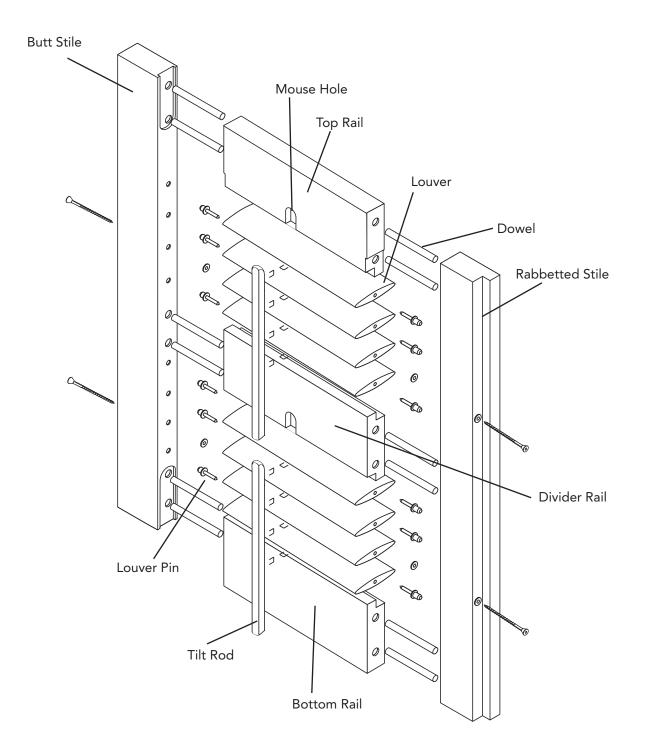
HARDWARE OPTIONS

Hinge Colors

Select the hardware color that best fits your decor:

- White
- Off White
- Antique Brass
- Oil Rubbed Bronze
- Satin Nickel
- Bright Brass

Wood Shutter Illustration



Graber Wood Characteristics

WOOD CHARACTERISTICS

Wood used to manufacture wood shutters has many natural characteristics which 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
- 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 ¾" diameter are allowed)
- Mineral Marks Dark or discolored areas caused by minerals which the tree extracts from the soil; they can be either streaks or stains, usually blackish blue

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.





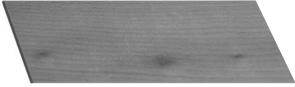
Grain Change



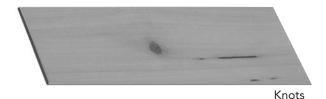
Mineral Marks



Tiger Striping



Burl/Bird's Eye



Wood Shutter Pricing

Wood Shutter Pricing:

Frame Type Hang Strip, Direct Mount, Tilt-Z Frame (Window Opening only) L-Frames (Frame to Frame only) Z-Frames (Window Opening only) Deco Frames (Frame to Frame only)	\$50.00 per sq. ft \$52.00 per sq. ft \$52.00 per sq. ft	:. \$54.00 per sq. ft. :. \$54.00 per sq. ft. :. \$56.00 per sq. ft. :. \$56.00 per sq. ft.
Bi-fold or Bypass Inside Mount Track Systems** Wood Specialty Shutters (with or without frames) Perfect Arches, Elongated and Eyebrow Arches		All Colors
Arched Panels - arched panel square foot charge Square Foot Charge		.\$110.00 per sq. ft.
Additional Surcharges Café Shutter with 4-sided frame French Door Cut-Out* Hidden Tilt Bar. Bi-Fold or Bypass 3-sided Box-Out (outside mount only)** Bypass Decorative Valance Bi-Fold or Bypass Stackback Surcharge** Astragal Café Aligning Catch.		\$500.00 10% 15% o charge 5% o charge
Custom Color (flat fee per color per order) Standard Shutters		

^{*}Calculate the overall square footage of the French Door panel using the L-Frame price; then add the surcharge.

**Calculate the overall square footage of the Bypass or Bi-Fold panels. Use the overall square footage to calculate the surcharge for the Box-Out or Stackback surcharge.

Wood Shutter Color Options

COLORS AVAILABLE

Antique White1026	Natural1007 Peru1688	Additional Colors Available (NOT SAMPLED)
Bone 1024 Cappuccino 1546 Cherry Wood 1014 Cognac 1465 Dark Cherry 1316 Designer White 1055 Dover White 1683	Peru 1688 Putty 1410 Raven 1690 Saddle Brown 1694 Sienna 1685 Snowflake 1603 Stark White 1869	(NOT SAMPLED) Almond
Espresso	Swiss Coffee	Light Pecan. 1020 Mocha. 1759 Pinewood 1056 Sable. 1565 Stucco. 1963 Tawny. 1045 Truffle 1054

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 on page 32).

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.
- 3. Send the form and the sample to:

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

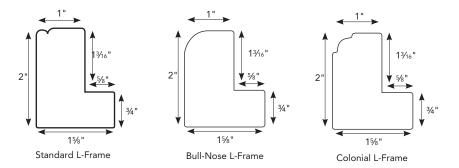
- 4. Strike-off approval is required for all shutter orders.
- 5. Strike-offs will be sent for approval within 10-14 days of receiving the color sample.
- 6. Once color approval is received, fabrication of the custom shutters will begin.

Wood Shutter Frame Options

FRAME OPTIONS

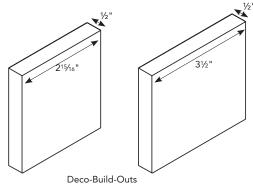
L-Frames

- Frame to frame measurement only
- Recommend outside mount only
- Frame Configuration (see page 27)
 - 2-sided
 - 3-sided
 - 3-sided inverted
 - 3-sided with sill top
 - 3-sided inverted with sill bottom
 - 4-sided with sill bottom
 - 4-sided with sill top
 - 4-sided
 - 4-sided with sill top and bottom
- Standard, Bull-Nose or Colonial L-Frame



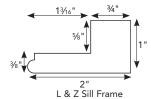
Build-Outs

- Used with L-Frames and Deco frames
- Maximum of 2" (4 pieces) per shutter; ½" increments

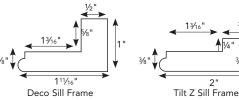


Sill Frames

- Offered with L, Z-Frames and Deco Frames
- Not available with Build-Outs

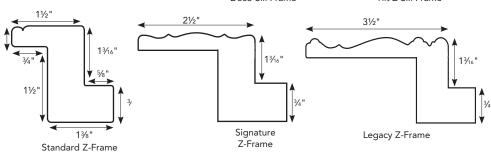


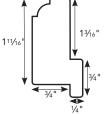
L-Build-Out



Z-Frames

- Window opening measurement only
- Inside mount only
- Frame Configuration (see page 27)
 - 2-sided
 - 3-sided
 - 3-sided inverted
 - 3-sided with sill top
 - 3-sided inverted with sill bottom
 - 4-sided with sill bottom
 - 4-sided with sill top
 - 4-sided
 - 4-sided with sill top and bottom
- Standard, Tilt-Out, Signature or Legacy Z-Frames





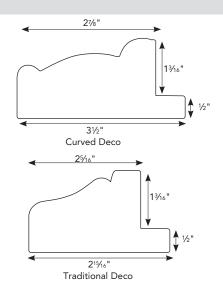
Windows larger than 96" may require splicing for the frame. Tilt-Out Z-Fram

Wood Shutter Frame Options

FRAME OPTIONS

Deco Frame

- Frame to frame measure only
- · Outside mount only
- Frame Configurations (see page 27):
 - 2-sided
 - 3-sided
 - 3-sided inverted
 - 3-sided with sill top
 - 3-sided inverted with sill bottom
 - 4-sided
 - 4-sided with sill bottom
 - 4-sided with sill top
 - 4-sided with sill top and bottom
- Curved Deco and Traditional Deco



Hang Strip Frame

- Inside mount only, window opening measure only
- Frame Configuration
 - 2-sided frames with top and bottom light blocks
- Includes adjustable wrap-around hinge for easy installation
- Standard gap between shutter and window will be $\frac{1}{8}$ " to $\frac{3}{16}$ "
- Window opening must be square; diagonal measurements must be within ¼" difference

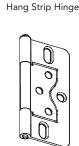
23/32"

Light Block

13/81

Hang Strip





Frame Hinge

Light Block

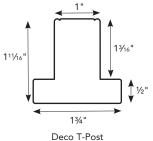
 Included with hang strip, direct mount, 3-sided and 2-sided frame types

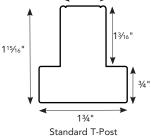
T-Post

 A vertical post that divides the panel into two sections (used with wider shutters).

Direct Mount

- Inside mount only, window opening measure only
- Four light blocks included
- Window opening should be square; diagonal measurements must be within ¼" differences





Post Standard T-Po

GRABER

Wood Frame Allowances

WOOD DIRECT MOUNT AND HANG STRIP FRAMES

Window Opening Measure Only

Window must be square (diagonal dimensions within 1/4" of each other)

Factory makes deductions - Width deduction = $\frac{3}{6}$ " Length deduction = $\frac{1}{4}$ "

NOTE: Frames will be 1/8" larger than panels

WOOD Z FRAME (STANDARD, 21/2 SIGNATURE AND 31/2 LEGACY Z)

Window Opening - Factory makes deductions. see below:

2 sided: width - 5/16" length - 0

3 sided: Width $-\frac{5}{16}$ " length $-\frac{5}{32}$ "

3 sided invert: Width - 5/16" length - 5/32"

3 sided sill top: Width $-\frac{5}{16}$ " length $-\frac{1}{16}$ "

3 sided invert sill bottom: Width - 5/16" length - 1/16"

4 sided: Width - 5/16" length - 5/16"

4 sided sill top: Width - 5/16" length - 5/32"

4 sided sill bottom: Width - 5/16" length - 5/32"

4 sided sill top and bottom: Width - 5/16" length - 1/16"

NOTE: Factory makes no deductions on Tilt-Z Frames.

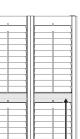
DIVIDER RAIL REQUIREMENTS

21/2", 31/2" & 41/2" Wood Shutters

- 1. For panel up to 30" wide, divider rails are required over 84" height for added strength.
- 2. For panels wider than 30", 1 divider rail is required panel height over 60".
- 3. For panels wider than 30", 2 divider rails are required for panels over 78".
- 4. Divider rail can be requested (when not required) for design purposes.
- 5. A 3" divider rail is used with 2½" and 3½" louvers.
- 6. A 4" divider rail is used with 4½" louvers.
- 7. Factory may shift rail up or down, (+ or -2") to achieve uniform louver spacing.
- 8. Minimum louver set is 2" in each section.

Divider rail

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.



2½", 3½", 4½" Wood Shutters–Minimum/Maximum Order Sizes

 $21\!\!/\!_2$ ", $31\!\!/\!_2$ " & $41\!\!/\!_2$ " WOOD SHUTTERS - Minimum and Maximum Order Sizes by Panel Configuration

PANEL	Examples of shutter configurations with	DIRECT MOUNT, HANG STRIP, TILT OUT Z-FRAMES		Z-FRAMES		L-FRAMES		CURVED DECO FRAMES		TRADITIONAL DECO FRAME	
000	combinations of panels and	Order V	V-O Size	Order V	V-O Size	Order I	F-F Size	F-F	Size	F-F	Size
	T-posts	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
1 Panel	▶	93/16"	36¾16"	11"	38"	113/16"	38¾16"	14 ¹⁵ / ₁₆ "	41 ¹⁵ / ₁₆ "	1313/16"	4013/16"
2 Panel		181/16"	721/16"	19%"	73%"	201/16"	741/16"	2313/16"	77 ¹³ ⁄ ₁₆ "	2211/16"	7611/16"
2 Panel, 1 T-Post	■ , ™ ,∕■	19%"	73%"	213/16"	75¾16"	21%"	75%"	251/%"	791/8"	24"	78"
1 Bi-Fold	- ~	181/16"	521/16"	197/8"	53%"	201/16"	541/16"	2313/16"	57 ¹³ / ₁₆ "	2211/16"	56 ¹ / ₁₆ "
1 Panel, 1 Bi-Fold		271/4"	881/4"	291/16"	901/16"	291/4"	901/4"	33"	94"	31%"	921/8"
1 Panel, 1 Bi-Fold, 1 T-Post	► ✓ ▼ ✓■	281⁄4"	891/4"	301/16"	911/16"	301⁄4"	91¼"	34"	95"	321/8"	931/8"
3 Panel, 1 T-Post		281⁄4"	1091⁄4"	301/16"	11111/16"	30¼"	1111⁄4"	34"	115"	32%"	113%"
3 Panel, 2 T-Post		29%16"	110%16"	31%"	112%"	31%16"	112%16"	355/16"	1165/16"	34¾16"	115¾6"
2 Bi-Fold		365/16"	1045/16"	381/8"	1061⁄8"	385/16"	1065/16"	421/16"	1101/16"	4015/16"	10815/16"
2 Bi-Fold, 1 T-Post		371/8"	1051/%"	3815/16"	10615/16"	391/8"	1471/8"	471/8"	110%"	41¾"	109¾"
4 Panel, 1 T-Post		371⁄8"	1451/8"	3815/16"	14615/16"	391/8"	1471/8"	421/8"	150%"	41¾"	149¾"
4 Panel, 2 T-Post		387/16"	1467/16"	401/4"	1481⁄4"	40%16"	148%16"	44¾16"	152¾16"	431/16"	1511/16"
4 Panel, 3 T-Post		39¾"	147¾"	41%16"	149%16"	41¾"	149¾"	45½"	153½"	44¾"	152¾"
5 Panel, 2 T-Post		47%"	162%"	51¼"	1661⁄4"	51⅓"	1665%"	511/⁄8"	1741/8"	56%"	171%"
5 Panel, 2 T-Post		47%"	162%"	51¼"	1661/4"	51%"	166%"	511/⁄8"	1741/8"	567/8"	171%"
5 Panel, 4 T-Post		4915/16"	18415/16"	53%16"	188%6"	5315/16"	18815/16"	607/16"	1957/16"	57%16"	19313/16"
5 Panel, 4 T-Post		4915/16"	18415/16"	53%16"	188%6"	5315/16"	18815/16"	607/16"	1957/16"	57%16"	19313/16"
2 Panel, 2 Bi-Fold, 2 T-Post	■ T ~ T / ■	56¾16"	17811/16"	58½"	180½"	5811/16"	18011/16"	627/16"	1847/16"	615/16"	1835/16"
6 Panel, 2 T-Post		563/16"	218¾16"	58"	220"	58¾16"	220¾16"	615/16"	2235/16"	6013/16"	22213/16"
2 Panel, 2 Bi-Fold, 3 T-Post	₽ _₹ ₹ _₹ ₹	57½"	179½"	595/16"	1815⁄16"	59½"	181½"	631/4"	185¼"	621/8"	1841⁄8"
6 Panel, 5 T-Post		601/8"	2221/8"	61 ¹⁵ ⁄ ₁₆ "	22315/16"	621/8"	2241/8"	65%"	227%"	64¾"	226¾"
8 Panel, 3 T-Post		751/4"	2911⁄4"	777/16"	2931/16"	771⁄4"	2931/4"	81"	297"	797/8"	295%"

Windows larger than 96" may require splicing for the frame.

Wood Arches-Non-Perfect Arch Template

HOW TO MAKE A TEMPLATE (RECOMMENDED FOR INSIDE MOUNT FRAMELESS ARCHES)

- 1. Tape paper over the window opening, allowing plenty of overlap. See below for template material information.
- Draw an exact outline of the window opening. Be careful NOT to press in or crease the paper of the template while tracing.
- 3. Remove the paper from the window opening and cut out the arch
- 4. Place the template back on the window opening to verify size.
- 5. Mark the template with the following:
 - Room Side
 - Purchase Order Number
 - Customer's Name
 - Company Name and Account Number
 - Frame-to-frame measurement (width) of shutter panels below the arch if applicable
- 6. Attach a copy of the purchase order to the template.
- 7. Roll the template and place it in a mailing tube.
- 8. DO NOT FOLD THE TEMPLATE!

9. Mail to:

Springs Window Fashions 8467 Route 405 South P.O. Box 500

Montgomery, PA 17752 Attn: Shutter Department

Acceptable Materials for Making a Template*

- Kraft type paper
- Butcher paper
- Lightweight poster paper that can be rolled without creasing

Non-Acceptable Materials for Making a Template

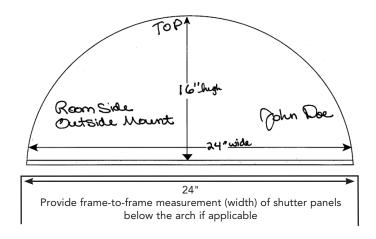
- Newspaper
- Wrapping paper
- Tissue paper
- Fabrics
- Wood
- Wax paper

If the material used to make a template stretches, tears easily, will not lay flat after being rolled, or will mark the product in any way, Springs Window Fashions will refuse to use the template and require a new one.

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

NOTE: Notify Customer Service at time of order if a template is being sent, otherwise order will be processed without.

Manufacturer will not add to or deduct from size. Provide finished size for frameless arches.



Frameless Wood Arches

Frameless Arches: Panel Only- Templates not Required

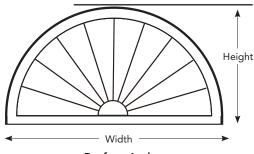
- 1. Beveled louvers for maximum light control.
- 2. Starburst pattern no horizontal louvers.
- 3. Offered three ways: perfect, eyebrow and elongated.

NOTE: Perfect arch – width must be exactly two times the height.

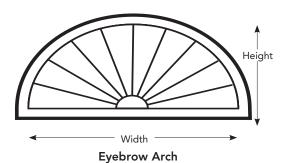
- 4. All wood color options and composite whites are available.
- 5. The arch has no tilt bar; the louvers open individually.
- 6. Allow sufficient wall space to mount. Panel-only arches that are:
 - 20"-24" wide: top frame 2" wide, bottom frame 1" wide
 - 24"-45" wide: top frame 3" wide, bottom frame 2" wide
 - 45"-80" wide: top frame 3" wide, bottom frame 3" wide
 - 80"-108" wide: top frame 4" wide, center support louver (non-functioning), bottom frame 4" wide
- 7. Panel is 11/16" thick and may not match projection of other outside mount standard shutters.
- 8. Order arch as frame-to-frame.

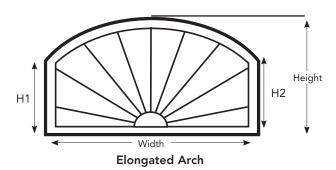
NOTE: If mounting arch inside take own deduction and order frame-to-frame. Template recommended.

NOTE: Arches over 80" wide require a center non-operating louver for support.



Perfect Arch





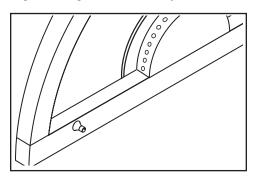
Frameless Arch Minimum and Maximum Sizes								
Francisco Banal Only	Wid	dth	Height					
Frameless - Panel Only	Minimum	Maximum	Minimum	Maximum				
Perfect Arch (Height = 50% of width)	20"	108"	10"	54"				
Eyebrow (Height = no less than 33% of width)	20"	108"	7"	54"				
Elongated Arch (Height = no greater than 66% of width)	20"	108"	10"	71¼"				

△ GRABER 40

Wood Frameless Arches-Installation Methods

Frameless Arch Installation Methods

Arches arrive with the louvers pre-installed but louvers are removable for certain installations. Louvers are numbered on bottom edge from right to left for easy installation.

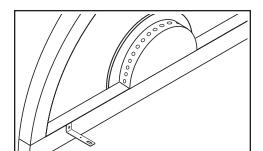


Bulldog catch works best with window openings that have a square edge. Allows arch panel to be removed for cleaning. Available in White.

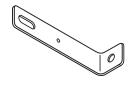


Suggested quantity usage: Less than 36" - 3

36" to 72" - 5 72" to 108" - 7

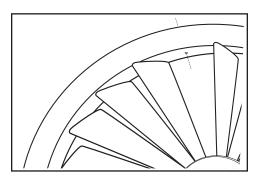


L-bracket works best with windows that have a bull-nosed edge. Long-throw on the L-bracket allows you to reach past the curved window edge to a flat surface.



Suggested quantity usage: Less than 36" - 5 $\,$

36" to 72" - 7 72" to 108" - 9



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.

Framed Wood Arches

Framed Arches - Templates not required.

- 1. Beveled louvers for maximum light control.
- 2. Starburst pattern no horizontal louvers.
- 3. Offered 3 ways perfect, eyebrow and elongated.

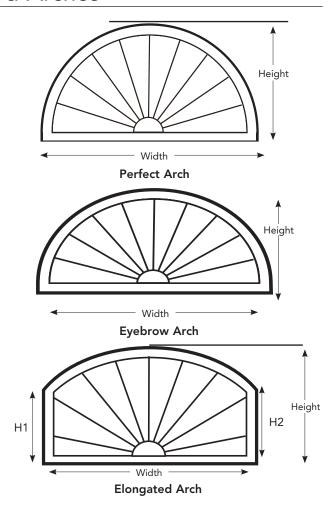
NOTE: Perfect arch – width must be exactly two times the height.

- 4. All wood color options and composite whites are available.
- 5. Arch has no tilt bar, louvers open individually.
- 6. Louvers are shipped installed but are removable.

Frame Options (see pages 35-36)

- All L-Frames outside mount only Frame projections is 2". Measure frame-to-frame.
- All Deco Frames outside mount only Measure frame-to-frame.
- All Z-Frame inside mount only Always ordered as window opening size.

NOTE: Framed arches not available with Tilt-Z frame.

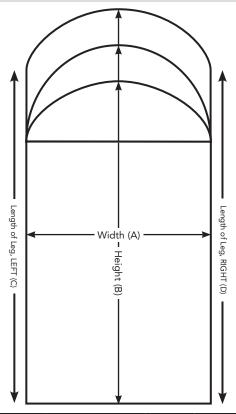


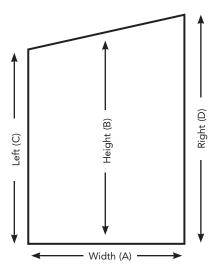
Order width and height limitations of framed arches								
	Wi	dth	Hei	ght				
Arch type	Minimum	Maximum	Minimum	Maximum				
Perfect arch with L frames	221/8	1101//8	121//8	56½				
Perfect arch with Z frames	21 ¹³ / ₁₆	109¹³⁄₁₀	11 ¹³ ⁄16	55 ¹³ ⁄16				
Perfect arch with curved deco	271//8	1151//8	171//8	711//8				
Perfect arch with traditional deco	24¾	112¾	14¾	58¾				
Eyebrow arch with L frames	221/8	1101//8	91/8	561/8				
Eyebrow arch with Z frames	21 ¹³ /16	109¹³⁄₁₀	8 ¹³ / ₁₆	55 ¹³ / ₁₆				
Eyebrow arch with curved deco	271/8	1151//8	141/8	711/8				
Eyebrow arch with traditional deco	24¾	112¾	11¾	58¾				
Elongated arch with L frames	221/8	1101//8	121/8	73%				
Elongated arch with Z frames	21 ¹³ /16	109¹³⁄₁₀	11 ¹³ ⁄ ₁₆	731/16				
Elongated arch with curved deco	271/8	1151//8	171/8	78%				
Elongated arch with traditional deco	24¾	112¾	14¾	76				

△GRABER 42

Wood Arched Panel Shutter Measure Sheet

MEASURING





Note: Not all louvers ordered will open to a 90° angle, depending on the curve of the arch.

Ordered Width Limitations for Arched and Rake Panel Shutters										
		Window	Opening		Frame-to-Frame					
Panel	Hang	Strip	Z Fra	Z Frames L Fram		Frames Traditional Deco		Curved Deco Frame		
Configurations	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
L/R	93/16	36¾6	11	38	11¾6	38¾6	1313/16	4013/16	14 ¹⁵ / ₁₆	41 ¹⁵ ⁄ ₁₆
LL/RR	181/16	521/16	197//8	53%	201/16	541/16	2211/16	56 ¹ 1⁄16	2313/16	57¹¾₁6
LR	181/16	721/16	197/8	73%	201/16	741/16	2211/16	76 ¹ 1⁄ ₁₆	23 ¹³ / ₁₆	77 ¹³ ⁄16
LLRR	365/16	1045/16	381/8	1061//	385/16	1065/16	4015/16	10815/16	421/16	1101/16

Ordered Height Limitations for Arched and Rake Panel Shutters								
	Frame	F	Minin	num	Maximum			
	Configuration	Frame type	2.5/3.5 Louvers	4.5 Louver	2.5/3.5/4.5 Louve			
	2 side	Hang strip/direct mount	151/4	201/4	1201/4			
Window Opening	3 sided	Z frames	161//8	211//	1211/8			
window Opening	4 sided with sill bottom	Z frames	161//8	211//	1211/8			
	4 side	Z frames	171/16	221/16	1221/16			
	3 sided	L frame	161/4	211/4	121¼			
	4 sided with sill bottom	L frame	16¾	21¾	121¾			
	4 sided	L frame	171/4	221/4	1221⁄4			
	3 sided	Deco curve	181//8	231/8	123%			
Frame-to-Frame	4 sided with sill bottom	Deco curve	181⁄2	231/2	123½			
	4 sided	Deco curve	21	26	126			
	3 sided	Traditional deco	17%	22%16	122%			
	4 sided with sill bottom	Traditional deco	17 ¹⁵ ⁄ ₁₆	22 ¹⁵ ⁄ ₁₆	12215/16			
	4 side	Traditional deco	19%	241//8	1247/8			

- Frame Types Available (see pages 35-36)

 All L-Frames, all Deco Frames order as Frame to Frame
- All Z-Frames (except Tilt-Z) order as Window Opening
- Astragal, Hide-A-Tilt and Split Tilt available.

- 2½", 3½" & 4½" louvers available
- All wood color options available

Wood French Door Shutters

FRENCH DOOR OPTIONS - WOOD SHUTTERS ONLY

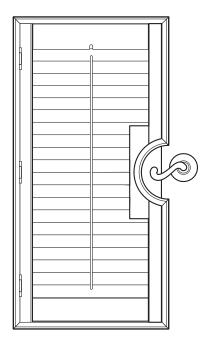
- Shutters for French Doors are outside mount only
- Single panels hinged on the same side as the door
- Three options are available: L-Frame with curved cut-out,
 L-Frame (no cut-out), L-Frame with rectangular cut-out
- Order frame-to-frame
- 2½", 3½" and 4½" louvers only
- Hide-a-Tilt, Split Tilt and double mouse hole available
- All wood color options are available

- Two cut-out options allow for handle function: Curved and Rectangular
- L-Frames include Standard L, Bullnose L and Colonial L
- Build-outs are provided as needed
- Divider rails are not available
- Button catches plus magnets are standard to provide for a secure closure

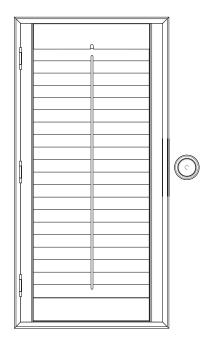
NOTE: All French Door shutters for cut-out and no cut-out should be ordered at the same time.

MINIMUM/MAXIMUM FRENCH DOOR SIZES

	Width	Height
Minimum	16¾"	37¾"
Maximum	38¼"	901/4"

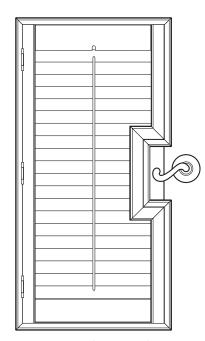


L-Frame with Curved Cut-Out (Surcharge applies)



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.

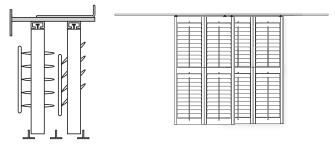


L-Frame with Rectangular Cut-Out (Surcharge applies)

Wood and Composite Bypass Shutters

BYPASS TRACK SYSTEM

- All wood colors options available, whites only in composite
- Ideal solution for large windows and patio doors
- Outside mount with 3-Sided Box-Out is recommended
- System consists of a double-top track and floor guides
- Available in 2½" and 3½" louver sizes
- Available with Hide-a-Tilt
- Available with Double Mouse Hole
- Minimum and maximum order sizes on page 50 (Factory to determine panel size based on width ordered and configuration.)



OUTSIDE MOUNT NOTES

Width Measurement (with Box-Out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim. Factory will add 3½" to your overall ordered width. Note: When measuring, add more for bullnose so that frames mount completely on flat surface.

Width Measurement (without Box-Out): If no window trim: measure window opening. If window trim: measure outside edge of trim to outside edge of trim. Factory will add 11/4" to your overall ordered width. Note: When measuring, add more to extend beyond window edge for privacy purposes and add more for bullnose so that frames mount completely on flat surface.

Height Measurement (with or without Box-Out): 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 25%" to your overall ordered height.

Other Measurement Considerations: If there are window moldings, factory can accommodate only up to $\frac{1}{2}$ " thick molding when using $3\frac{1}{2}$ " louvers and Hide-a-Tilt.

Track and Header Board: Unit includes track installed to header. Header is $5\frac{1}{2}$ " deep and $\frac{3}{4}$ " thick.

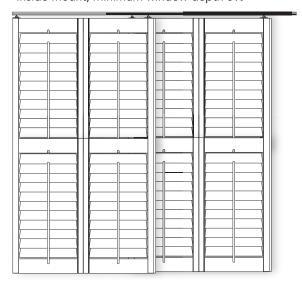
Valances and Returns: Two top-treatment styles are available: standard 5" double-bead valance and the optional 4 %" decorative valance. Valance returns are included and wrap around the outside of the Box-Out (frame). Returns are mitered and are 5 %" (inside measure). Refer to page 50 for valance options.

Box-Out (side frames): Optional Box-Out (side frames) are available for outside mount bypass shutters. Box-Out Frame is $\frac{3}{4}$ " x $\frac{5}{2}$ ".

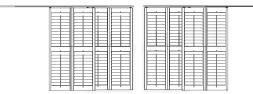
Stackback: Optional Stackback is available for outside mount bypass shutters. Custom Stackback widths are available. See details on page 50.

Configuration Options:

- Outside mount with Box-Out
- Outside mount without Box-Out
- Outside mount with full Stackback (with or without Box-Out) or custom header
- Inside mount, minimum window depth 5%"



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



INSIDE MOUNT NOTES

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

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

Other Measurement Considerations: Minimum window depth requirement 5%".

Track and Header Board: Unit includes track installed to header. Header is 5½" deep and ¾" thick.

Valances and Returns: Two top-treatment styles are available: standard 5" double-bead valance and the optional 4½" decorative valance. No returns are available. Valance ends are not mitered. Refer to page 50 for valance options.

Box-Out (side frames): Box-Out (side frames) are not available.

Stackback: Stackback is not available for inside mount bypass shutters.

Wood and Composite Bypass Shutters

BYPASS SHUTTER - MINIMUM/MAXIMUM ORDER SIZES BY PANEL CONFIGURATION

			WC	OD			COMP	OSITE	
			side unt*	Inside Mount		Outside Mount*		Inside	Mount
		Order V	V-O Size	Order V	V-O Size	Order V	V-O Size	Order V	V-O Size
Panel Configuration	Example of shutter unit configurations using various panel combinations	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum
1L / 1R		18"	70"	20"	71"	18"	58"	20"	59"
1L / 1C / 1R		27½"	104"	28½"	106½"	27½"	86"	28½"	881/2"
1L/1C/1C/1R		37"	141"	38"	142"	37"	117"	38"	118"
2L / 2R		37¾"	141¾"	38¾"	142¾"	37¾"	117¾"	38¾"	118¾"
2L / 1C / 1C / 2R		56"	212"	581/8"	213"	56"	176"	581/8"	177"
2L / 2C / 2R		571⁄8"	2131/8"	581/%"	213"	571⁄8"	1771⁄/8"	581/8"	1771⁄4"
2L / 2C / 2C / 2R		76½"	284½"	77½"	285½"	76½"	236½"	77½"	237½"

^{*}Same minimum/maximum sizes apply if ordered with Stackback options and with or without Box-Out. NOTE: Header, side frame and valance will be wood on Composite Bypass. Panels will be composite.

Composite Bypass Height Minimum and Maximum							
Options	Maximum						
Outside mount	15¾	96¾					
Inside mount	171⁄4	981/4					

Wood Bypass Height Minimum and Maximum							
Options	Maximum						
Outside mount	15¾	120¾					
Inside mount	171⁄4	1221/4					

Wood Bypass Shutter Divider Rail Requirements

- 1st divider rail required over 84" ordered height
- 2nd divider rail required over 100" ordered height

Composite Bypass Shutter Divider Rail Requirements

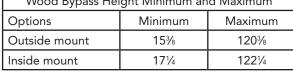
- Divider rail required over 72" ordered height
- Only one divider rail available

SETTING BRACKET HEIGHT (for outside mount without side frames)

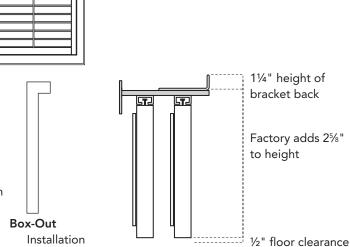
For Wall Mount Bypass Shutter System Top of Angle Bracket to Floor:

Top of bracket will be 31/8" above ordered height. This includes 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.



Divider Rail



Tracks wider than 144" will be spliced

• Header and valance could be spliced over 96".

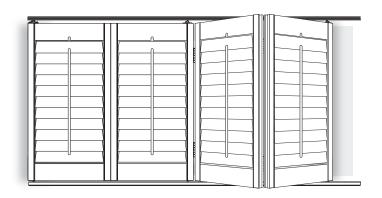
Wood Bi-fold Track System Shutters

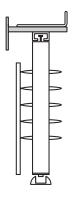
BI-FOLD TRACK SYSTEM

- All wood colors options are available
- System consists of top and bottom track and quarter-round as standard
- Available in 2½" and 3½" louver sizes
- Available with Hide-a-Tilt
- Available with double mouse hole
- Minimum and maximum order sizes on page 48.

- Outside mount with Box-Out
- Outside mount with optional Stackback (with Box-Out)
- Inside mount, minimum window depth 3%"

Configuration Options:





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).

Note: Factory does not supply adhesive, trim nails or other fasteners to install quarter-round.

Note: Factory always furnishes bottom track. Installer determines whether bottom track is needed.

OUTSIDE MOUNT NOTES

Width Measurement (using the required Box-Out): If no window trim: measure window opening (W-O) 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 $\frac{1}{2}$ " thick molding when using $3\frac{1}{2}$ " louvers and Hidden Tilt.

Track and Header Board: Unit includes track installed to header board. Header is 3½" deep and ¾" 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). Returns are mitered and are 37%" (inside measurement). Refer to page 50 for valance options.

Box-Out (side frames): Sides frames are required for securing the pivot set of outer most panels. Box-Out Frame is $\frac{3}{4}$ " x $\frac{3}{2}$ ".

Stackback available: Optional Stackback is available for outside mount bi-fold shutters. Custom Stackback widths are available. See page 50.

INSIDE MOUNT NOTES

Width Measurement: Order W-O (window opening) and provide net window width. Factory will make a $\frac{1}{2}$ " deduction from the track for proper fit.

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

Other Measurement Considerations: Minimum window depth requirement 3%". Standard edge gap (edge of panel to inside of window edge) is 3%" 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 page 50 for valance options.

Box-Out (side frames): Box-Out is not available. The pivot set of outer most panels is secured to the inside of window opening.

Stackback not available.

GRABER.

Wood Bi-fold Track System Shutters

BI-FOLD SHUTTER - MINIMUM/MAXIMUM ORDER SIZES BY PANEL CONFIGURATION

		Outside Mount (with side frame)		Outside Mount with Stackback (with side frame) Order W-O Size		Inside Mount	
						Order W-O Size	
Panel Configuration	Example of shutter unit configurations using various panel combinations	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
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 Bi-fold Minimum and Maximum							
Height Only Minimum Maximum							
Outside mount	151/8	1221//8					
Inside mount 171/8 1227/8							

SETTING BRACKET HEIGHT (for outside mount)

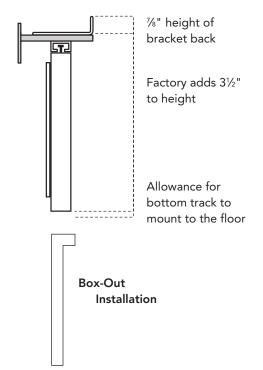
For Wall Mount Bi-Fold Shutter System Top of Angle Bracket to Floor:

Top of bracket will be 5%" above ordered height.

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

Bi-Fold Track System Divider Rail Requirements

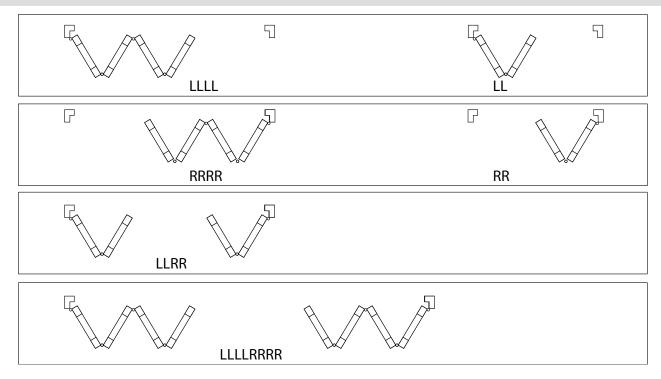
- Divider rail required over 84" ordered height
- Tracks wider than 144" will be spliced, header and valance may be spliced over 96" wide.



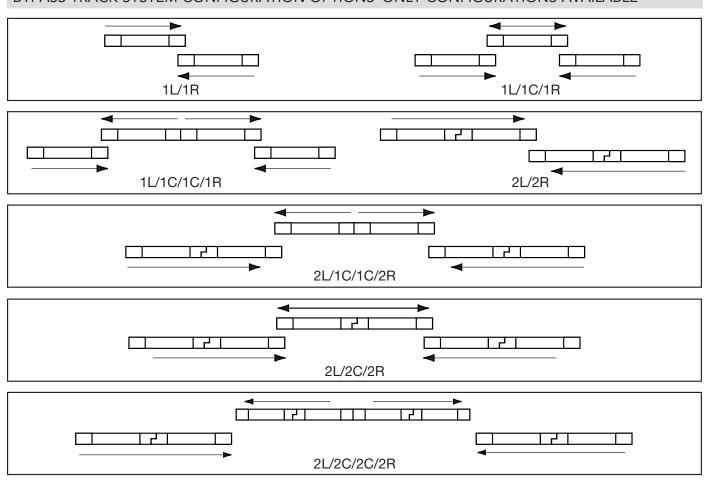
△ GRABER 48

Wood Track Systems-Panel Configurations

BI-FOLD TRACK SYSTEM CONFIGURATION OPTIONS-ONLY CONFIGURATIONS AVAILABLE



BYPASS TRACK SYSTEM CONFIGURATION OPTIONS-ONLY CONFIGURATIONS AVAILABLE



Wood Track Systems-Stackback and Valance

Stackback Option

(available on Bypass or Bi-Fold Track Systems)

The Stackback option allows for the shutter panels to clear the window opening, creating an unobstructed view.

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

Measuring for Outside Mount with Box-Out (Bypass Only)

It is recommended that the Box-Out frame be mounted to a flat surface. Add trim or molding to the width and height of the opening of the window.

General Guidelines for Stackback

Use the formulas below to estimate the minimum additional space needed. Submit frame-to-frame measurement only; do not include additional width needed. Factory will calculate the additional frame length needed.

Bypass Track System - Stackback

- Ideal solution for large windows and patio doors
- Outside mount with 3-sided Box-Out is standard
- System consists of a double-top track and floor guides

Configuration Options:

- Outside mount with Box-Out
- Outside mount without Box-Out

Bypass Panel Configurations (For Full Stackback):

Width Measurement x 1.5 = Frame Width

Example: Width Measurement = 100"

100" x 1.5 = 150" Frame Width (Approximate)

Bi-Fold Track System - Stackback

Bi-Fold Track System

 System consists of top and bottom track and quarterround as standard

Configuration Options:

Outside mount (Box-Out required)

Bi-Fold Panel Configurations:

Number of Panels per Side x 1.5"

Example: LLRR, 2 sided stackback

1.5" x 2 = 3" An additional 3" on each side is needed.

VALANCE OPTIONS

41/2" Decorative Valance (Optional Bypass Only)



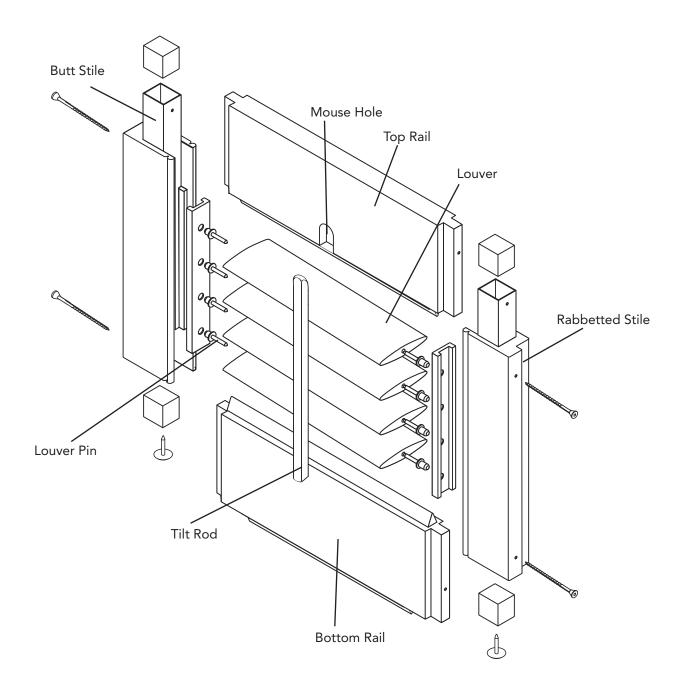
23/8" Standard Valance (Bi-Fold Only)



5" Standard Valance (Bypass Only)



Composite Exploded View



Composite Shutter Pricing

Composite Pricing:

Reynosa Manufacturing (10 working days to ship) Hang Strip, Z-Frames, Direct Mount, Tilt-Z Frame (window opening only) L-Frame, Deco Frame (frame to frame only) Bypass Track System	\$45.50 per sq. ft.
Asian Manufacturing (42 days to deliver) Hang Strip, Z-Frames, Direct Mount, Tilt Z-Frame (window opening only) L-Frame, Deco Frame (frame to frame only)	

Colors Available:

COMPOSITE - Whites

Silk White	2922
Off White	2185
Sweet White	2729

Additional Surcharges

Hide-a-Tilt™ Bar	10%
Bypass 3 Sided Box Out*	15%
Bypass Stackback*	5%
Astragal	N/C
Cafe Aligning Catch	N/C
Bypass Decorative Valance	

^{*} Calculate overall square feet of Bypass. Use overall square foot price to calculate surcharge for Box-Out and Stackback.

Composite Characteristics

- Perfect for high humidity areas
- Color will not fade
- Easy cleaning with soap and water
- Exclusive 'printed' shutter looks more like real wood

Panel Size Limitations

	MINI	MUM	MAXIMUM		
	2½", 3½"	4½"	2½", 3½"	4½"	
Single Panel Width (Reg.)	9"	9"	30"	30"	
Single Panel Width (Bi-fold)	9"	9"	24"	24"	
Panel Height	15"	15"	96"	96"	

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Composite Frame Allowances

COMPOSITE DIRECT MOUNT AND HANG STRIP FRAMES

Window Opening Measure Only

Window must be square (diagonal dimensions within 1/4" of each other)

Factory makes deductions - Width deduction = $\frac{1}{4}$ " Length deduction = $\frac{1}{4}$ "

COMPOSITE Z FRAME (STANDARD AND SIGNATURE)

Window Opening - Factory makes deductions. See below:

2 sided: width $-\frac{5}{16}$ " length -0

3 sided: Width - 5/16" length - 5/32"

3 sided invert: Width – $\frac{5}{16}$ " length – $\frac{5}{32}$ "

3 sided sill top: Width - 5/16" length - 1/16"

3 sided invert sill bottom: Width - 5/16" length - 1/16"

4 sided: Width - 5/16" length - 5/16"

4 sided sill top: Width - 5/16" length - 5/32"

4 sided sill bottom: Width - 5/16" length - 5/32"

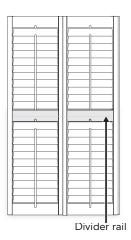
4 sided sill top and bottom: Width - 5/16" length - 1/16"

NOTE: Factory makes no deductions on Tilt-Z Frames

DIVIDER RAIL REQUIREMENTS

21/2", 31/2" & 41/2" Composite Shutters

- 1. Required over 72" panel height for panel strength
- 2. Divider rail can be requested under 72" for privacy or design purposes
- 3. A 3" divider rail is used
- 4. Factory may shift rail up or down, (+ or -2") to achieve uniform louver spacing
- 5. Minimum louver set for smaller portion is 2 louvers



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 rails will match.

Composite Shutters-Minimum/Maximum Order Sizes

 $2\frac{1}{2}$ " & $3\frac{1}{2}$ " LOUVERS - Minimum and Maximum **Order Sizes** by Panel Configuration

	Examples of shutter configurations with	DIRECT MOUNT, HANG STRIP AND TILT-OUT Z-FRAME		STANDARD & SIGNATURE Z-FRAMES		L-FRAME		DECO FRAME		
PANEL CONFIGURATION	NEL combinations of panels and		W-O Size		W-O Size		F-F Size		F-F Size	
1 Panel	1-posts	93/16"	Maximum 303/16"	Minimum	Maximum 317/8"	Minimum 113/16"	Maximum 321/4"	Minimum 141/4"	Maximum 34½"	
2 Panel		181/16"	60"	197/8"	6111/16"	201/16"	621/16"	241/16"	641/16"	
2 Panel, 1 T-Post	■ ,▼,■	19%"	61%"	213/16"	631/16"	21%"	637/16"	257/16"	657/16"	
1 Bi-Fold	- ~	181/16"	48"	197/8"	4911/16"	201/16"	501/16"	241/16"	521/16"	
1 Panel, 1 Bi-Fold		273/16"	78¾16"	291/16"	80"	291⁄4"	801/4"	241/16"	821/16"	
1 Panel, 1 Bi-Fold, 1 T-Post	■ ~ ™ /■	281/4"	793/16"	301/16"	801/8"	301/4"	811⁄4"	351⁄4"	831/4"	
3 Panel, 1 T-Post		281/4"	913/16"	301/16"	921/8"	30¼"	931/4"	35¼"	951⁄4"	
3 Panel, 2 T-Post		29 %16"	92%16"	31%"	941⁄4"	31%"	945/8"	36⁵⁄8"	965/8"	
2 Bi-Fold		365/16"	95%"	381⁄8"	975/16"	385/16"	9711/16"	4311/16"	9911/16"	
2 Bi-Fold, 1 T-Post		371⁄8"	97"	3815/16"	9811/16"	391/8"	991/16"	451/16"	1011/16"	
4 Panel, 1 T-Post		371⁄8"	121"	3815/16"	12211/16"	391⁄8"	1231/16"	451/16"	1251/16"	
4 Panel, 2 T-Post		387/16"	122%"	401/4"	1241/16"	407/16"	1247/16"	467/16"	1267/16"	
4 Panel, 3 T-Post		39¾"	123¾"	41%16"	1257/16"	41¾"	12513/16"	47 ¹³ / ₁₆ "	127 ¹³ /16"	
5 Panel, 2 T-Post		485/8"	104%16"	51¼"	14315/16"	51⅓"	14411/16"	6011/16"	14811/16"	
5 Panel, 2 T-Post		485/8"	104%16"	51¼"	14315/16"	51%"	14411/16"	6011/16"	14811/16"	
5 Panel, 4 T-Post		501/16"	15415/16"	51%"	156%"	521/16"	157"	60"	159"	
5 Panel, 4 T-Post		501/16"	15415/16"	51%"	156%"	521/16"	157"	60"	159"	
2 Panel, 2 Bi-Fold, 2 T-Post	▶ ₹~ √ ₹/#	563/16"	158%16"	58½"	160%"	5811/16"	160%16"	66%16"	162%16"	
6 Panel, 2 T-Post		56¾16"	182"	58"	18311/16"	58¾16"	1841/16"	667/16"	1861/16"	
2 Panel, 2 Bi-Fold, 3 T-Post	₽ _₹ ₹ _₹ ₹	57½"	159%"	595/16"	1611⁄16"	59½"	1617/16"	677/16"	1637/16"	
6 Panel, 5 T-Post		601/4"	1861/8"	621/16"	18713/16"	621/4"	188¾16"	70¾6"	190¾6"	
8 Panel, 3 T-Post		75¾"	243¾"	777/16"	245%16"	77¾"	247"	79¾"	249¾"	

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Composite Shutters-Minimum/Maximum Order Sizes

$4\frac{1}{2}$ " LOUVERS - Minimum and Maximum **Order Sizes** by Panel Configuration

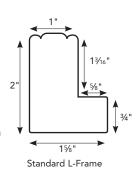
	Examples of shutter configurations with	DIRECT MOUNT, HANG STRIP AND TILT-OUT Z-FRAME		STANDARD & SIGNATURE Z-FRAMES		L-FRAME		DECO FRAME		
PANEL CONFIGURATION	PANEL combinations of panels and				W-O Size		F-F Size		F-F Size	
1 Panel	T-posts	93/16"	Maximum 263/16"	Minimum 11"	Maximum 277/8"	Minimum 113/16"	Maximum 281/4"	Minimum 13 ³ / ₁₆ "	Maximum 301/4"	
2 Panel		181/16"	52"	19%"	5311/16"	201/16"	541/16"	221/8"	561/16"	
2 Panel, 1 T-Post	• •	19%"	53%"	213/16"	5511/16"	21¾"	551/16"	23%"	57½16"	
1 Bi-Fold	- ~	181/16"	48"	197/8"	4911/16"	201/16"	501/16"	221/8"	521/16"	
1 Panel, 1 Bi-Fold		27 ³ ⁄ ₁₆ "	74 ³ ⁄ ₁₆ "	291/16"	76"	291⁄4"	761⁄4"	241/16"	781/16"	
1 Panel, 1 Bi-Fold, 1 T-Post	···	281/4"	753/16"	301/16"	767/8"	301/4"	771⁄4"	325/16"	791/4"	
3 Panel, 1 T-Post		281/4"	79 3/16"	301/16"	741/8"	301/4"	811⁄4"	325/16"	831/4"	
3 Panel, 2 T-Post		29%16"	80%16"	31%"	821/4"	31%6"	82%"	33%16"	845/8"	
2 Bi-Fold		365/16"	95%"	381/%"	975/16"	385/16"	9711/16"	3915/16"	9911/16"	
2 Bi-Fold, 1 T-Post		371/8"	97"	3815/16"	9811/16"	391/8"	991/16"	40¾"	1011/16"	
4 Panel, 1 T-Post		371/8"	105"	38 ¹⁵ ⁄16"	10611/16"	391⁄8"	1071/16"	40¾"	1091/16"	
4 Panel, 2 T-Post		387/16"	106%"	401/4"	1081/16"	407/16"	1087/16"	42½"	1107/16"	
4 Panel, 3 T-Post		39¾"	107¾"	41%16"	1097/16"	41¾"	10913/16"	43¾"	111 ¹³ / ₁₆ "	
5 Panel, 2 T-Post		485%"	1281/16"	51¼"	13115/16"	51%"	14211/16"	6011/16"	14611/16"	
5 Panel, 2 T-Post		485%"	1281/16"	51¼"	13115/16"	51%"	14211/16"	6011/16"	14611/16"	
5 Panel, 4 T-Post		501/16"	14215/16"	51%"	1445%"	521/16"	145	60	14711/16"	
5 Panel, 4 T-Post		501/16"	14215/16"	51%"	144%"	521/16"	145	60	14711/16"	
2 Panel, 2 Bi-Fold, 2 T-Post		563/16"	150%16"	58½"	152%"	58 ¹¹ / ₁₆ "	152%16"	605/16"	154%16"	
6 Panel, 2 T-Post		563/16"	158"	58"	15911/16"	58¾6"	1601/16"	605/16"	1621/16"	
2 Panel, 2 Bi-Fold, 3 T-Post	■ ▼✓ ▼ ✓ ▼ ✓	57½"	151%"	595/16"	153¾16"	59½"	1537/16"	61½"	1557/16"	
6 Panel, 5 T-Post		601/4"	1621/8"	621/16"	16313/16"	621/4"	164¾6"	641⁄4"	166¾6"	
8 Panel, 3 T-Post		75¾"	211¾"	77 ⁷ /16"	213%16"	773/4"	215"	791/4"	217"	

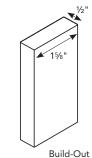
Composite Shutter Frame Options

Frame Options

L-Frame

- Frame to frame measurement only
- Outside mount only
- Frame Configurations:
 - 2-sided
 - 3-sided
 - 3-sided inverted
 - 3-sided with sill top
 - 3-sided inverted with sill bottom
 - 4-sided with sill bottom
 - 4-sided with sill top
 - 4-sided
 - 4-sided with sill top and bottom

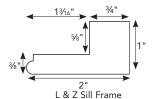


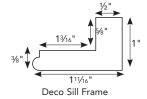


(Maximum of 2", (four pieces) per shutter; ½" increments)

Sill Frames

- Offered with L & Z-Frames and Deco Frame
- Not available with buildouts

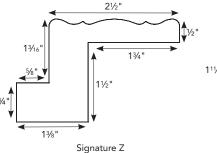


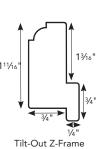


Z-Frames

- Window opening measurement only
- Inside mount only
- Frame Configurations:
 - 2-sided
 - 3-sided
 - 3-sided inverted
 - 3-sided with sill top
 - 3-sided inverted with sill bottom
 - 4-sided with sill bottom
 - 4-sided with sill top
 - 4-sided
 - 4-sided with sill top and bottom
- Standard, 21/2" Signature and Tilt Z

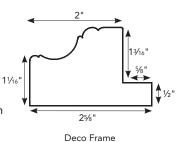
13/4" 13/16" 3/4" 13/16" 13/16" Standard Z

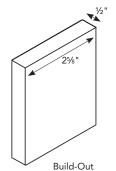




Deco Frame

- Frame to frame measurement only
- Outside mount only
- Frame Configurations:
 - 2-sided
 - 3-sided
 - 3-sided inverted
 - 3-sided with sill top
 - 3-sided inverted with sill bottom
 - 4-sided with sill bottom
 - 4-sided with sill top
 - 4-sided
 - 4-sided with sill top and bottom





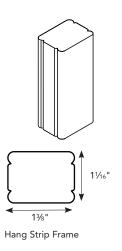
(Maximum of 2", (four pieces) per shutter; ½" increments)

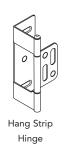
NOTE: Windows larger than 115" will require splicing for the frame.

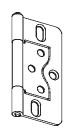
Composite Shutter Frame Options

Hang Strip Frame

- Window opening must be square; diagonal measurements within 1/4"
- · Inside mount only, window opening measure only
- Frame Configuration:
 - 2-sided frames with top and bottom light blocks
- Standard gap between shutter and window will be 1/8" - 3/16"
- Includes adjustable wrap-around hinge for easy installation



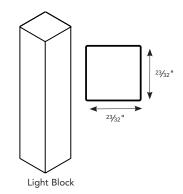




Frame Hinge

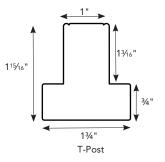
Light Block

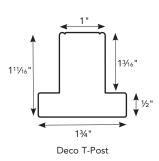
 Included with hang strip, direct mount, two-sided and three-sided frame types



T-Post

 A vertical post that divides the panel into two sections (used with wider shutters).





Direct Mount

- · Inside mount only, window opening measure only
- Four light blocks included
- Window opening must be square; diagonal measurements must be within ¼" differences

NOTE: Windows larger than 115" will require splicing for the frame.

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.

Bi-Fold – Two panels are hinged together to lie flush against the window or wall.

Bi-Fold 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.

Build-Out – Used in conjunction with L-Frames and Deco 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 – 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 Mouse Hole – Recess on the top and bottom rail allowing for the louvers to be completely closed in either direction.

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.

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.

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.

Stackback – Configuration that allows the panels of the bypass or bi-fold 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 used to open and close the louvers.

T-Post – A vertical post that divides the panel into two sections (used with wider shutters).

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

Warranty and Care

LIMITED LIFETIME WARRANTY

OUR OBLIGATION TO YOU:

The manufacturer warrants your Graber Shutters will be free from original defects in materials or workmanship for as long as the original purchaser owns the product. Under the Limited Lifetime Warranty, the obligations of the manufacturer are limited to the repair or replacement of parts or product found to be defective. The manufacturer is not responsible for shipping costs or labor costs for measuring and taking the product down or reinstalling the product. If repairs are made under this warranty, the repairs will be made with like or similar parts.

This warranty does not cover conditions or damages caused by accidents, alterations, misuse or failure to follow instructions for measurement, installation, cleaning or maintenance. In addition, normal wear and tear are not covered by the Limited Lifetime Warranty.

Some wood materials may warp in high humidity areas. The manufacturer considers these things normal wear and tear and are not covered by this warranty.

TO RECEIVE WARRANTY SERVICE, PLEASE:

- Contact our customer service department at (877) 675-0089 and advise them of the nature of the issue. Customer Service will provide you with information as to how to proceed.
- 2. Please remember, product returned for warranty claims must be accompanied by the original sales receipt as well as written details regarding the nature of the problem, location of the product, etc.
- 3. If your product is returned, please retain a copy of the shipping information for your records.

THIS LIMITED WARRANTY DOES NOT COVER, AND IS INTENDED TO EXCLUDE, ANY AND ALL LIABILITY ON THE PART OF THE MANUFACTURER, WHETHER UNDER THIS LIMITED WARRANTY OR UNDER ANY WARRANTY IMPLIED BY LAW FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES FOR BREACH HEREOF OR THEREOF, EXCEPT AS EXPRESSLY PROVIDED ABOVE IN THIS LIMITED WARRANTY, THE COMPANY HEREBY NEGATES AND DISCLAIMS ALL EXPRESS WARRANTIES.

Note: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the foregoing limitation or exclusion regarding such damages may not apply to you. Also, this Limited Warranty gives specific legal rights, and you may also have other rights which vary from state to state.

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 1-2 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.

COMPOSITE SHUTTERS

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

If the Composite Shutter comes into contact with certain metals a black mark may result. These black marks can easily be removed with denatured alcohol.

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.

AURORA SHUTTERS

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



Graber is a brand of Springs Window Fashions, the Best Experience Company

