

COMPOSITE SHUTTERS

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General Information

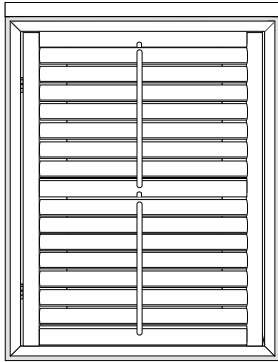
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Pricing

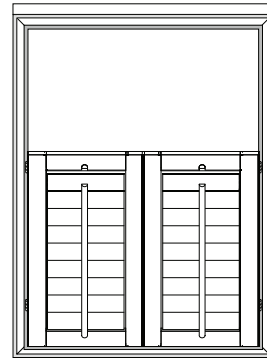
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Features

Shutter Styles



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



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

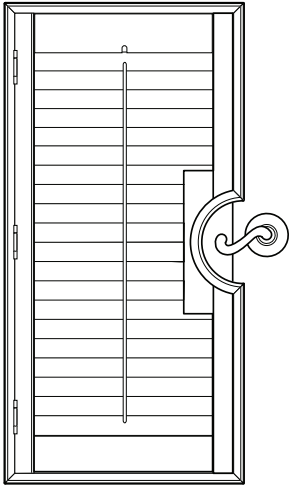


Bypass Track System: Shutter panels slide on a top track to open and close. The track system can be attached to a frame or mounted directly to a window casing or the ceiling. Ideal for patios or closet doors. Louvers must be closed to pass.

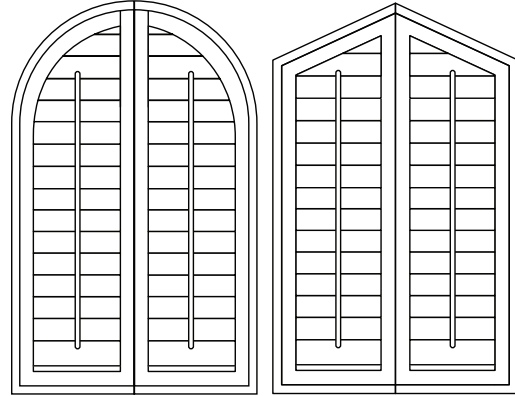
NOTE: Shutters do not block all light from entering the room. All shutters have moving parts. These parts have tolerance gaps that will allow some light to filter through the shutter.

Features

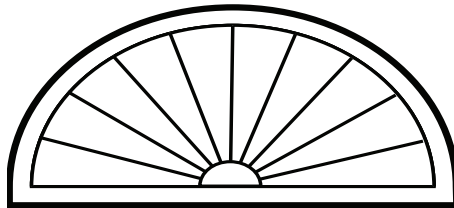
Shutter Styles



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



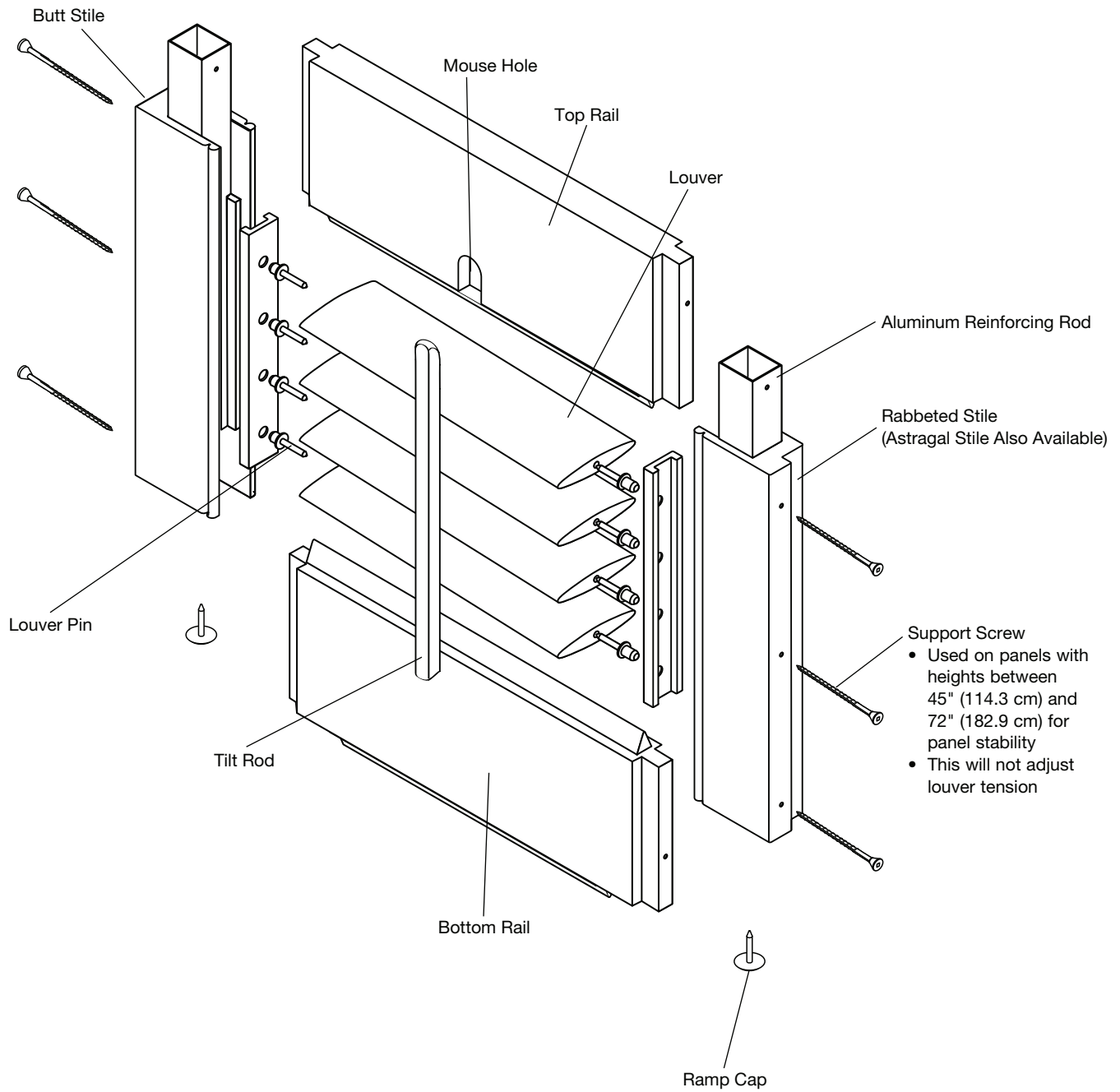
Arch or Angle Top Panels: Provide whole window solutions that fit the rounded shape of full arch windows perfectly. Angled panels accommodate slanted windows. Available in full arch or angle, $\frac{1}{4}$ arch, or $\frac{1}{2}$ angle.



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

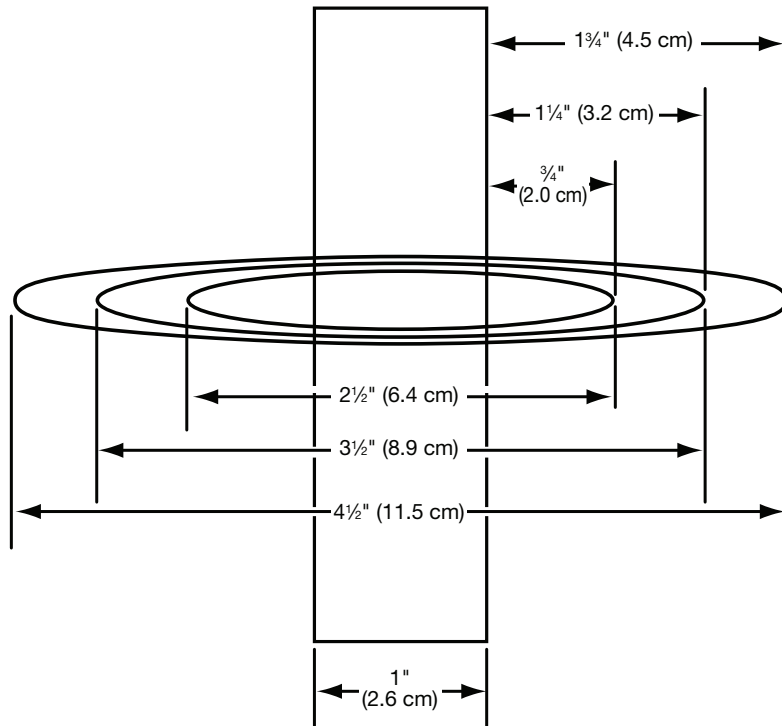
Features

Product Illustration



Options

Louver Options



Minimum Clearance Needed From Back Panel Surface		
Louver Size inches (cm)	Standard Tilt inches (cm)	Hide-a-Tilt™ inches (cm)
2½ (6.4)	¾ (2.0)	1½ (2.9)
3½ (8.9)	1¼ (3.2)	1¾ (4.2)
4½ (11.5)	1¾ (4.5)	2½ (5.4)

NOTE: Hide-a-Tilt requires an additional ⅜" (1.0 cm) window clearance.

2½" (6.4 cm) Louver

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

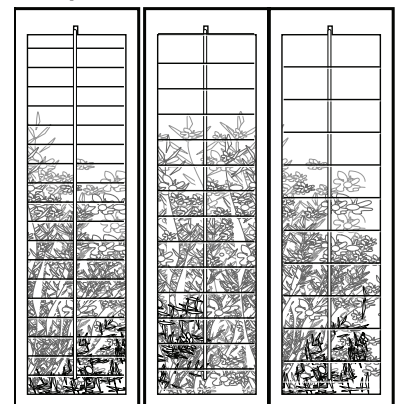
3½" (8.9 cm) Louver

- Most popular louver size
- Offers more visibility and light control

4½" (11.5 cm) Louver

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

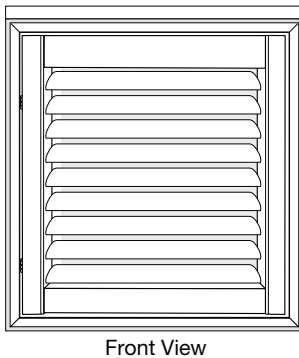
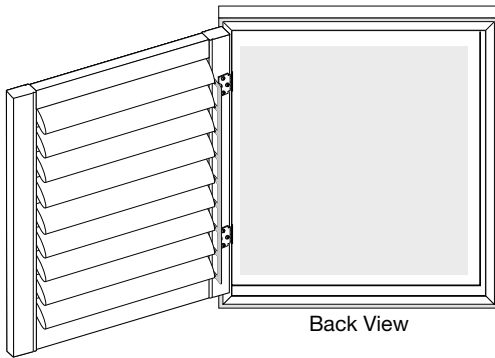
Composite Louver Sizes



2½" (6.4 cm) 3½" (8.9 cm) 4½" (11.5 cm)

Options

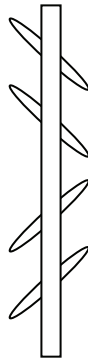
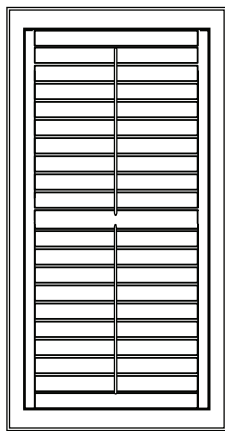
Tilt Options: Hide-a-Tilt™



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

- Hide-a-Tilt bar will always be stainless steel color
- Hide-a-Tilt is mounted on hinge side for standard shutters
- No mouse hole in the panel
- Hide-a-Tilt allows the shutter to be closed in the upward or downward position

Tilt Options: Split Tilt



Split Tilt

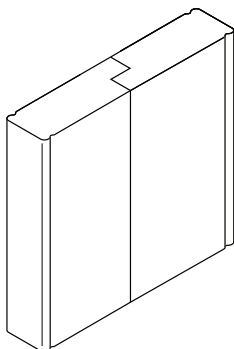
No divider rail. Splits one large louver set into two individually operated louver sets by cutting the tilt bar.

- Split tilt is available for all louver sizes with Hide-a-Tilt; it is not available on 2½" (6.4 cm) louver with standard tilt (the front tilt will not allow the louvers to function properly)
- 2½" (6.4 cm) and 3½" (8.9 cm) louvers—split will be specified as exact
- 4½" (11.5 cm) louvers—split may shift up or down +/- 2"

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

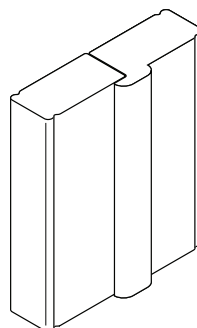
NOTE: Top and bottom rails may vary or be unequal due to requested locations and louver spacing. Rail sizes vary from 3" to 6" (7.7 to 15.3 cm).

Panel Overlap Styles



Rabbet Style Panel Overlap

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



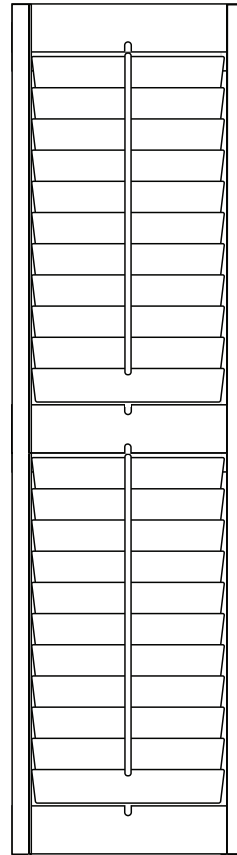
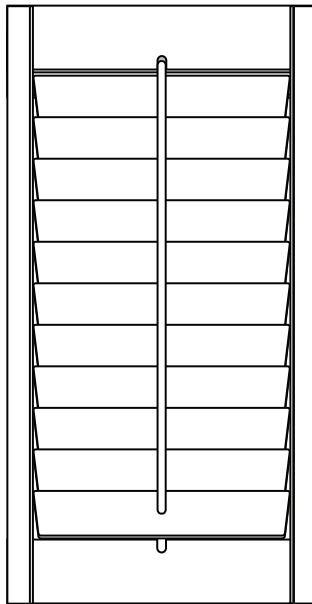
Astragal Style Panel Overlap

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

Options

Double Mouse Hole

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



Color Options

Base White	2051
Creamy White	2729
Silk White.	2922

Hardware Options

Hinge Colors

Select the hardware color that best fits your decor:

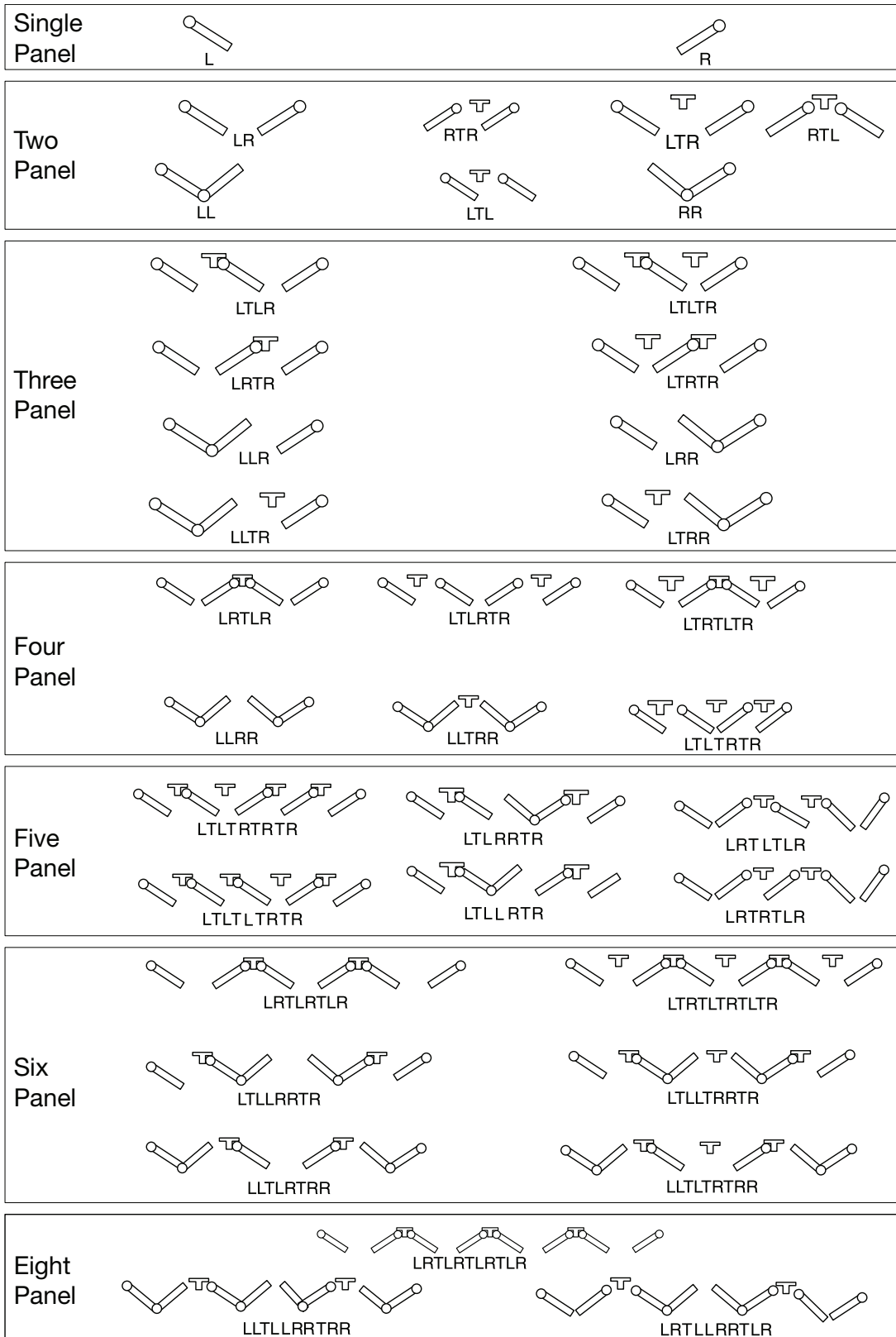
- Antique Brass
- Off White
- Oil Rubbed Bronze
- Satin Nickel
- Stainless Steel*
- White

*5% surcharge

Options

Composite: Panel Configurations: Standard, Arch, Angled Top Shutters

Panel Configurations Must Be Selected From This Chart



Size Considerations

Composite: Minimum and Maximum Width by Panel Configuration: 2½" (6.4 cm) and 3½" (8.9 cm) Louvers

Number of Panels	Panel Configurations	Direct Mount, Hang Strip, and Tilt-Out Z-Frame		Standard and Signature Z-Frame		L-Frame		Deco Frame	
		WO Size		WO Size		F-F Size		F-F Size	
		Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)
1 Panel	L, R	9 ³ / ₁₆ (23.4)	30 ³ / ₁₆ (76.7)	11 (28.0)	31 ¹ / ₈ (81.0)	11 ³ / ₁₆ (28.5)	32 ¹ / ₄ (82.0)	14 ⁷ / ₈ (37.8)	34 ⁷ / ₈ (88.6)
2 Panels	LR	18 ¹ / ₁₆ (45.9)	60 (152.4)	19 ⁵ / ₈ (50.5)	61 ¹ / ₁₆ (156.7)	20 ¹ / ₁₆ (51.0)	62 ¹ / ₁₆ (157.7)	24 ¹ / ₁₆ (62.8)	64 ¹ / ₁₆ (164.4)
	LTR, LTL, RTR, RTL	19 ⁵ / ₈ (49.3)	61 ³ / ₈ (155.9)	21 ³ / ₁₆ (53.9)	63 ¹ / ₁₆ (160.2)	21 ⁵ / ₈ (54.3)	63 ³ / ₁₆ (161.2)	26 ¹ / ₁₆ (66.2)	65 ¹ / ₁₆ (165.3)
	LL, RR	18 ¹ / ₁₆ (45.9)	48 (122.0)	19 ⁵ / ₈ (50.5)	49 ¹ / ₁₆ (126.3)	20 ¹ / ₁₆ (51.0)	50 ¹ / ₁₆ (127.2)	24 ¹ / ₁₆ (62.8)	56 ¹ / ₁₆ (144.0)
3 Panels	LLR, LRR	27 ³ / ₁₆ (69.1)	78 ³ / ₁₆ (198.6)	29 ³ / ₁₆ (73.9)	80 (203.2)	29 ³ / ₄ (74.3)	80 ³ / ₄ (203.9)	24 ¹ / ₁₆ (62.8)	82 ¹ / ₁₆ (210.1)
	LLTR, LTRR	28 ¹ / ₄ (71.8)	79 ³ / ₁₆ (201.2)	30 ³ / ₁₆ (76.4)	80 ⁵ / ₈ (205.5)	30 ³ / ₄ (76.9)	81 ¹ / ₄ (206.4)	35 ⁵ / ₈ (91.2)	83 ³ / ₈ (213.1)
	LTLR, LRTR	28 ¹ / ₄ (71.8)	79 ³ / ₁₆ (201.2)	30 ³ / ₁₆ (76.4)	92 ⁵ / ₈ (236.0)	30 ³ / ₄ (76.9)	93 ³ / ₄ (236.9)	35 ⁵ / ₈ (91.2)	95 ⁵ / ₈ (243.6)
	LTLTR, LTRTR	29 ³ / ₁₆ (75.1)	91 ³ / ₁₆ (231.7)	31 ³ / ₈ (79.7)	94 ¹ / ₄ (239.4)	31 ³ / ₁₆ (80.2)	94 ³ / ₈ (240.4)	37 ¹ / ₄ (94.7)	97 ¹ / ₄ (247.1)
4 Panels	LLRR	36 ³ / ₁₆ (92.3)	92 ³ / ₁₆ (235.2)	38 ³ / ₈ (96.9)	97 ³ / ₁₆ (247.2)	38 ³ / ₁₆ (97.4)	97 ¹ / ₁₆ (248.2)	44 ³ / ₁₆ (112.6)	100 ³ / ₁₆ (254.8)
	LLTRR	37 ¹ / ₈ (94.3)	97 (246.4)	38 ¹⁵ / ₁₆ (99.0)	98 ¹ / ₁₆ (250.7)	39 ³ / ₈ (99.4)	99 ³ / ₁₆ (251.7)	45 ¹ / ₁₆ (115.3)	101 ¹ / ₁₆ (258.3)
	LRTLRL	37 ¹ / ₈ (94.3)	121 (307.4)	38 ³ / ₁₆ (99.0)	122 ¹ / ₁₆ (311.7)	39 ³ / ₈ (99.4)	123 ³ / ₁₆ (312.6)	45 ¹ / ₁₆ (116.1)	125 ¹ / ₁₆ (319.3)
	LTLRTR	38 ⁷ / ₁₆ (97.7)	122 ³ / ₈ (310.9)	40 ¹ / ₄ (102.3)	124 ¹ / ₁₆ (315.2)	40 ⁷ / ₁₆ (102.8)	124 ³ / ₁₆ (316.1)	47 ¹ / ₁₆ (119.6)	126 ¹ / ₁₆ (320.2)
	LTRLTR, LTLRTR	39 ³ / ₄ (101.0)	123 ³ / ₄ (314.4)	41 ³ / ₁₆ (105.6)	125 ⁷ / ₁₆ (318.7)	41 ³ / ₄ (106.1)	125 ³ / ₁₆ (319.6)	48 ⁷ / ₁₆ (123.1)	128 ⁷ / ₁₆ (326.3)
5 Panels	LTLRRTL, LTLRRTL	47 ³ / ₈ (121.0)	140 ³ / ₁₆ (357.1)	51 ¹ / ₄ (130.2)	143 ³ / ₁₆ (365.7)	51 ³ / ₈ (131.2)	144 ¹ / ₁₆ (367.6)	61 ³ / ₁₆ (155.8)	149 ³ / ₁₆ (379.3)
	LRTLRL, LRTLRL	47 ³ / ₁₆ (120.2)	152 ³ / ₁₆ (386.9)	50 ¹⁵ / ₁₆ (129.4)	155 ¹⁵ / ₁₆ (396.1)	51 ³ / ₁₆ (130.1)	159 ³ / ₁₆ (404.4)	55 ⁷ / ₁₆ (140.9)	165 ⁷ / ₁₆ (420.3)
	LTLRTRTR, LTLRTRTR	50 ¹ / ₁₆ (127.2)	154 ¹⁵ / ₁₆ (393.6)	51 ³ / ₈ (131.8)	156 ³ / ₈ (397.9)	52 ¹ / ₁₆ (132.3)	157 (398.8)	60 ³ / ₈ (154.0)	159 ³ / ₈ (405.5)
6 Panels	LTLRRTL	56 ¹ / ₁₆ (144.0)	158 ³ / ₁₆ (402.8)	58 ¹ / ₂ (148.6)	160 ³ / ₈ (407.4)	58 ¹ / ₁₆ (149.1)	160 ³ / ₁₆ (407.9)	67 ³ / ₁₆ (170.7)	163 ³ / ₁₆ (414.5)
	LLTLRTR	56 ³ / ₁₆ (142.8)	158 ³ / ₈ (402.3)	58 (147.4)	160 ¹ / ₁₆ (406.6)	58 ³ / ₁₆ (147.8)	160 ¹ / ₁₆ (407.6)	67 ¹ / ₁₆ (170.4)	163 ¹ / ₁₆ (414.2)
	LRTLRL	56 ³ / ₁₆ (142.8)	182 (462.3)	58 (147.4)	183 ¹ / ₁₆ (466.6)	58 ³ / ₁₆ (147.8)	184 ¹ / ₁₆ (467.6)	67 ¹ / ₁₆ (170.4)	187 ¹ / ₁₆ (475.2)
	LTLRTRTR, LTLRTRTR	57 ¹ / ₂ (146.1)	159 ³ / ₈ (404.9)	59 ³ / ₁₆ (150.7)	161 ¹ / ₁₆ (409.1)	59 ¹ / ₂ (151.2)	161 ¹ / ₁₆ (410.1)	68 ³ / ₁₆ (172.9)	164 ³ / ₁₆ (416.8)
	LTRLRL	60 ¹ / ₄ (153.1)	186 ¹ / ₈ (472.8)	62 ¹ / ₁₆ (157.7)	187 ¹ / ₁₆ (477.1)	62 ¹ / ₄ (158.2)	188 ³ / ₁₆ (478)	70 ¹ / ₁₆ (179.9)	190 ¹ / ₁₆ (484.7)
8 Panels	LRTLRL	75 ³ / ₄ (192.5)	243 ³ / ₄ (619.2)	77 ¹ / ₁₆ (196.7)	245 ³ / ₁₆ (623.8)	77 ³ / ₄ (197.5)	247 (627.4)	80 ¹ / ₂ (204.5)	250 ¹ / ₂ (636.3)
	LRTLRL	73 ¹⁵ / ₁₆ (187.9)	217 ¹⁵ / ₁₆ (553.6)	75 ³ / ₄ (192.5)	219 ³ / ₄ (558.2)	75 ¹⁵ / ₁₆ (192.9)	219 ¹⁵ / ₁₆ (558.7)	79 ³ / ₁₆ (201.2)	223 ³ / ₁₆ (566.9)
	LLTLRTR	73 ¹⁵ / ₁₆ (187.9)	193 ¹⁵ / ₁₆ (492.7)	75 ³ / ₄ (192.5)	195 ³ / ₄ (497.3)	75 ¹⁵ / ₁₆ (192.9)	195 ¹⁵ / ₁₆ (497.7)	79 ³ / ₁₆ (201.2)	198 ³ / ₁₆ (503.4)

Size Considerations

Composite: Minimum and Maximum Width by Panel Configuration: 4½" (11.5 cm) Louvers

Number of Panels	Panel Configurations	Direct Mount, Hang Strip, and Tilt-Out Z-Frame		Standard and Signature Z-Frame		L-Frame		Deco Frame	
		WO Size		WO Size		F-F Size		F-F Size	
		Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)
1 Panel	L, R	9 ⁹ / ₁₆ (23.4)	26 ³ / ₁₆ (66.6)	9 ⁹ / ₁₆ (23.4)	27 ⁷ / ₈ (70.9)	11 ³ / ₁₆ (28.5)	28 ¹ / ₄ (71.8)	14 ⁷ / ₈ (37.8)	30 ³ / ₈ (78.5)
2 Panels	LR	18 ¹ / ₁₆ (45.9)	52 (132.1)	18 ¹ / ₁₆ (45.9)	53 ¹ / ₁₆ (136.4)	20 ¹ / ₁₆ (51.0)	54 ¹ / ₁₆ (137.4)	24 ¹ / ₁₆ (62.8)	56 ¹ / ₁₆ (144.0)
	LTR, LTL, RTR, RTL	19 ⁹ / ₁₆ (49.3)	53 ³ / ₈ (135.6)	19 ⁹ / ₁₆ (49.3)	55 ¹ / ₁₆ (141.5)	21 ⁹ / ₁₆ (54.3)	55 ⁷ / ₁₆ (140.9)	26 ⁷ / ₁₆ (66.2)	58 ¹ / ₁₆ (147.5)
	LL, RR	18 ¹ / ₁₆ (45.9)	48 (122.0)	18 ¹ / ₁₆ (45.9)	49 ¹ / ₁₆ (126.3)	20 ¹ / ₁₆ (51.0)	50 ¹ / ₁₆ (127.2)	24 ¹ / ₁₆ (62.8)	52 ¹ / ₁₆ (133.9)
3 Panels	LLR, LRR	27 ³ / ₁₆ (69.1)	74 ³ / ₁₆ (188.5)	27 ³ / ₁₆ (69.1)	76 (193.1)	29 ¹ / ₄ (74.3)	76 ¹ / ₄ (193.7)	24 ¹ / ₁₆ (62.8)	78 ¹ / ₁₆ (199.9)
	LLTR, LTRR	28 ¹ / ₄ (71.8)	75 ³ / ₁₆ (191.0)	28 ¹ / ₄ (71.8)	76 ³ / ₈ (195.3)	30 ¹ / ₄ (76.9)	77 ¹ / ₄ (196.3)	35 ⁷ / ₈ (91.2)	79 ³ / ₈ (202.9)
	LTLR, LRTL	28 ¹ / ₄ (71.8)	79 ³ / ₁₆ (201.2)	28 ¹ / ₄ (71.8)	74 ³ / ₈ (190.2)	30 ¹ / ₄ (76.9)	81 ¹ / ₄ (206.4)	35 ⁵ / ₈ (91.2)	83 ³ / ₈ (213.1)
	LTLTR, LRTLTR	29 ⁹ / ₁₆ (75.1)	80 ³ / ₁₆ (204.7)	29 ⁹ / ₁₆ (75.1)	82 ¹ / ₄ (209.0)	31 ⁹ / ₁₆ (80.2)	82 ³ / ₈ (209.9)	37 ¹ / ₄ (94.7)	85 ¹ / ₄ (216.6)
4 Panels	LLRR	36 ⁵ / ₁₆ (92.3)	95 ⁵ / ₁₆ (242.9)	36 ⁵ / ₁₆ (92.3)	97 ⁵ / ₁₆ (247.2)	38 ⁵ / ₁₆ (97.4)	97 ¹ / ₁₆ (248.2)	44 ⁵ / ₁₆ (112.6)	100 ⁵ / ₁₆ (254.8)
	LLTRR	37 ¹ / ₈ (94.3)	97 (246.4)	37 ¹ / ₈ (94.3)	98 ¹ / ₁₆ (250.7)	39 ¹ / ₈ (99.4)	99 ¹ / ₁₆ (251.7)	45 ¹ / ₁₆ (165.3)	101 ¹ / ₁₆ (258.3)
	LRTLRL	37 ¹ / ₈ (94.3)	105 (266.7)	37 ¹ / ₈ (94.3)	106 ¹ / ₁₆ (271.0)	39 ¹ / ₈ (99.4)	107 ¹ / ₁₆ (272.0)	45 ¹ / ₁₆ (116.1)	109 ¹ / ₁₆ (278.7)
	LTLRTR	38 ⁷ / ₁₆ (97.7)	106 ³ / ₁₆ (270.2)	38 ⁷ / ₁₆ (97.7)	108 ⁷ / ₁₆ (274.5)	40 ⁷ / ₁₆ (102.8)	108 ⁷ / ₁₆ (275.5)	47 ⁷ / ₁₆ (119.6)	111 ⁷ / ₁₆ (282.1)
	LRTLTR, LTLRTR	39 ¹ / ₄ (101.0)	107 ³ / ₄ (273.7)	39 ¹ / ₄ (101.0)	109 ⁷ / ₁₆ (278.0)	41 ¹ / ₄ (106.1)	109 ³ / ₁₆ (279.0)	48 ⁷ / ₁₆ (123.1)	112 ⁷ / ₁₆ (285.6)
5 Panels	LTLRRTL, LTLRRTL	47 ⁵ / ₁₆ (121.0)	128 ⁵ / ₁₆ (326.6)	47 ⁵ / ₁₆ (121.0)	131 ⁵ / ₁₆ (335.2)	51 ⁵ / ₁₆ (131.2)	42 ¹ / ₁₆ (108.5)	61 ⁵ / ₁₆ (155.8)	147 ⁵ / ₁₆ (374.2)
	LRTLTLR, LRTLTLR	47 ⁵ / ₁₆ (120.2)	132 ⁵ / ₁₆ (336.1)	47 ⁵ / ₁₆ (120.2)	135 ⁵ / ₁₆ (345.3)	51 ³ / ₁₆ (130.1)	139 ⁹ / ₁₆ (353.6)	55 ⁷ / ₁₆ (140.9)	145 ⁷ / ₁₆ (369.5)
	LTLRRTLRL, LTLRRTLRL	50 ¹ / ₁₆ (127.2)	142 ¹ / ₁₆ (363.1)	50 ¹ / ₁₆ (127.2)	144 ³ / ₈ (367.4)	52 ¹ / ₁₆ (132.3)	145 (368.3)	60 ⁵ / ₁₆ (154.0)	147 ³ / ₈ (375.0)
6 Panels	LTLRRTLRL	56 ¹ / ₁₆ (144.0)	150 ⁹ / ₁₆ (382.5)	56 ¹ / ₁₆ (144.0)	152 ³ / ₈ (387.1)	58 ¹ / ₁₆ (149.1)	152 ⁹ / ₁₆ (387.6)	67 ⁷ / ₁₆ (170.7)	155 ⁹ / ₁₆ (394.2)
	LLTLRTRL	56 ³ / ₁₆ (142.8)	150 ³ / ₈ (382.0)	56 ³ / ₁₆ (142.8)	159 ¹ / ₁₆ (405.7)	58 ³ / ₁₆ (147.8)	152 ⁷ / ₁₆ (387.2)	67 ¹ / ₁₆ (170.4)	155 ¹ / ₁₆ (393.9)
	LRTLRTLRL	56 ³ / ₁₆ (142.8)	158 (401.4)	56 ³ / ₁₆ (142.8)	153 ³ / ₁₆ (388.8)	58 ³ / ₁₆ (147.8)	160 ¹ / ₁₆ (406.6)	67 ¹ / ₁₆ (170.4)	163 ³ / ₁₆ (414.2)
	LTLRRTLRL, LTLRRTLRL	57 ¹ / ₂ (146.1)	151 ³ / ₈ (384.5)	57 ¹ / ₂ (146.1)	163 ³ / ₁₆ (416.1)	59 ¹ / ₂ (151.2)	153 ³ / ₁₆ (389.8)	68 ¹ / ₁₆ (172.9)	156 ³ / ₁₆ (396.4)
	LRTLRTLRL	60 ¹ / ₄ (153.1)	162 ¹ / ₈ (411.8)	60 ¹ / ₄ (153.1)	213 ³ / ₁₆ (542.5)	62 ¹ / ₄ (158.2)	164 ³ / ₁₆ (417.1)	70 ¹ / ₁₆ (179.9)	166 ³ / ₁₆ (423.8)
8 Panels	LRTLRTLRL	75 ³ / ₄ (192.5)	211 ³ / ₄ (537.9)	75 ³ / ₄ (192.5)	203 ³ / ₄ (517.6)	77 ³ / ₄ (197.5)	215 (546.1)	80 ¹ / ₂ (204.5)	217 ³ / ₄ (553.1)
	LRTLRTLRL	73 ¹ / ₁₆ (187.9)	201 ¹ / ₁₆ (513.0)	73 ¹ / ₁₆ (187.9)	203 ³ / ₄ (517.6)	75 ¹ / ₁₆ (192.9)	203 ¹ / ₁₆ (518.1)	79 ¹ / ₁₆ (201.2)	207 ³ / ₁₆ (526.3)
	LLTLRRTLRL	73 ¹ / ₁₆ (187.9)	193 ¹ / ₁₆ (492.7)	73 ¹ / ₁₆ (187.9)	195 ³ / ₄ (497.3)	75 ¹ / ₁₆ (192.9)	195 ¹ / ₁₆ (497.7)	79 ¹ / ₁₆ (201.2)	198 ³ / ₁₆ (503.4)

Size Considerations

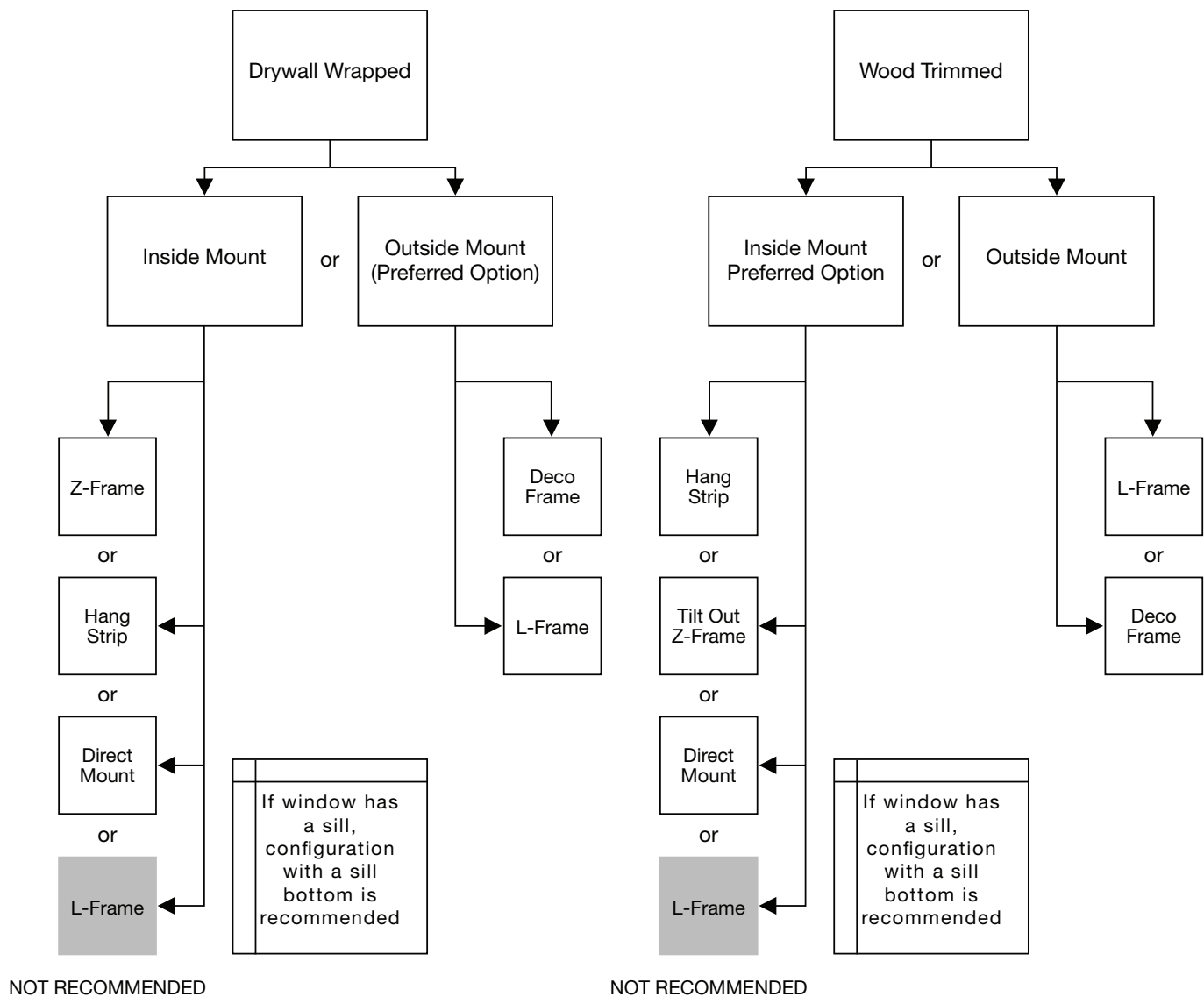
Composite: Minimum and Maximum Height by Frame Type

Frame Configuration	Frame Type	Minimum inches (cm)	Maximum inches (cm)
2-Sided	Hang strip/direct mount	15¼ (38.8)	96¼ (244.5)
2-Sided	Z-frame	15¼ (38.8)	96¼ (244.5)
3-Sided and 3-Sided Invert	Z-frame	16⅞ (40.8)	97⅞ (246.6)
3-Sided Sill Top or Bottom	Z-frame	16⅞ (41.8)	97⅞ (247.5)
4-Sided with Sill Top or Bottom	Z-frame	16½ (42.0)	97½ (247.7)
4-Sided with Sill Top and Bottom	Z-frame	16 (40.7)	97 (246.4)
4-Sided	Z-frame	16⅞ (43.1)	97⅞ (248.8)
2-Sided	Tilt-out Z-frame	15¼ (38.8)	96¼ (244.5)
3-Sided and 3-Sided Invert	Tilt-out Z-frame	15¼ (38.8)	96¼ (244.5)
3-Sided Sill Top or Bottom	Tilt-out Z-frame	15⅝ (39.7)	96⅝ (245.5)
4-Sided with Sill Top or Bottom	Tilt-out Z-frame	15¾ (40.1)	96¾ (245.8)
4-Sided with Sill Top and Bottom	Tilt-out Z-frame	16 (40.7)	97 (246.4)
4-Sided	Tilt-out Z-frame	15¼ (38.8)	96¼ (244.5)
2-Sided	L-frame	15¼ (38.8)	96¼ (244.5)
3-Sided and 3-Sided Invert	L-frame	16⅞ (41.5)	97¼ (247.1)
3-Sided Sill Top or Bottom	L-frame	16⅞ (42.4)	97⅞ (248.0)
4-Sided with Sill Top or Bottom	L-frame	16⅞ (42.3)	97⅞ (248.0)
4-Sided with Sill Top and Bottom	L-frame	16 (40.7)	97 (246.4)
4-Sided	L-frame	17⅞ (44.0)	98¼ (249.6)
2-Sided	Deco frame	15¼ (38.8)	96¼ (244.5)
3-Sided and 3-Sided Invert	Deco frame	17⅞ (44.7)	98⅞ (250.4)
3-Sided Sill Top or Bottom	Deco frame	15⅝ (39.7)	96⅝ (245.5)
4-Sided with Sill Top or Bottom	Deco frame	17⅞ (45.6)	98⅞ (251.4)
4-Sided with Sill Top and Bottom	Deco frame	16 (40.7)	97 (246.4)
4-Sided	Deco frame	19⅞ (50.5)	100⅞ (256.3)

Options

Frame Type Decision Tree

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

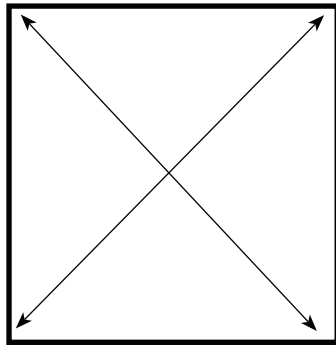


Options

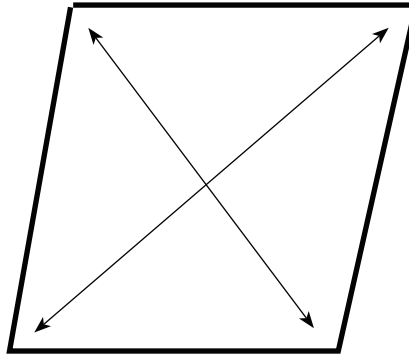
Measuring for Standard Shutters

Confirm that the window is square.

Measure the diagonals. If the difference between the two measurements is greater than $\frac{1}{4}$ " (0.7 cm), an outside mount shutter is required.



Square

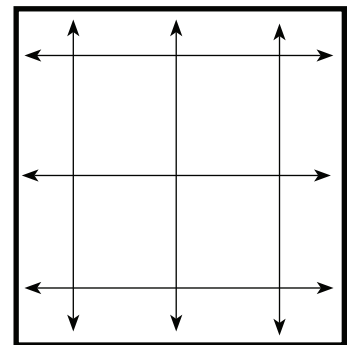


Not Square

Window Opening Measurement

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

- Measure the width at three points and the height at three points; use the smallest width and height measurements

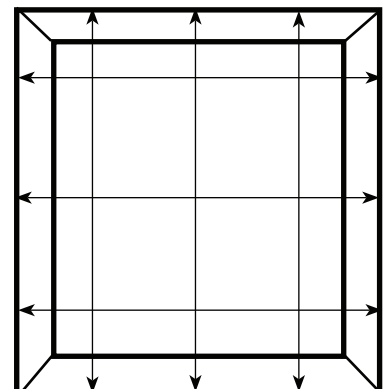


NOTE: Factory makes no allowances/deductions for tilt-out Z-frame.

Frame-to-Frame Measurement

Required for L-Frame and Deco Frame

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



NOTE: At least $1\frac{1}{8}$ " (4.2 cm) 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 height, divider rail location, louver count, and hinge quantity will match.

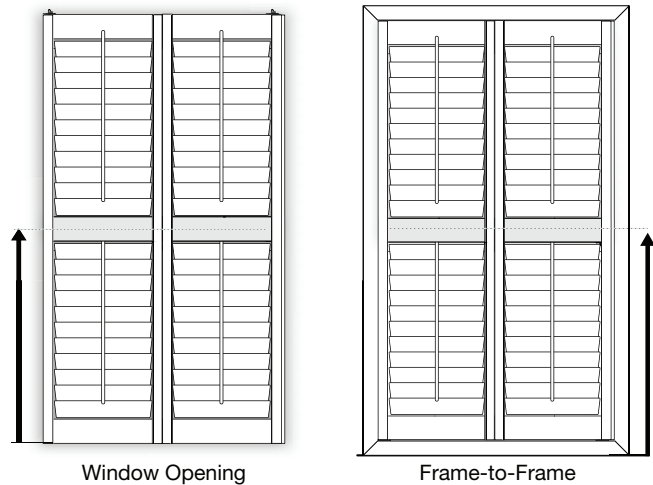
Options

Measuring Divider Rail Location

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.

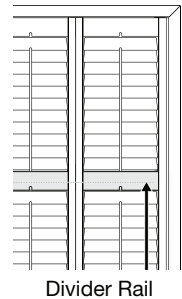


NOTE: Top and bottom rails may be unequal due to requested location and louver spacing. Rail sizes vary from 3" to 6" (7.7 to 15.3 cm).

Divider Rail Requirements

1. Divider rails are required over 72" (182.9 cm) height for added strength.
2. Divider rail can be requested (when not required) for design purposes.
3. A 3" (7.7 cm) divider rail is used with all louver sizes.
4. Divider rails for 2½" (6.4 cm) and 3½" (8.9 cm) louvers will be as specified (exact) on order.
5. Factory may shift rail up or down, (+/- 2" (5.1 cm)) to achieve uniform louver spacing in 4½" (11.5 cm) louvers only.
6. Minimum louver set is 2 louvers in each section.

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



NOTE: Top and bottom rail sizes may vary and/or be unequal due to requested location and louver spacing. Rail sizes vary from 3" to 6" (7.7 to 15.3 cm).

Measuring T-Post Locations

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

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

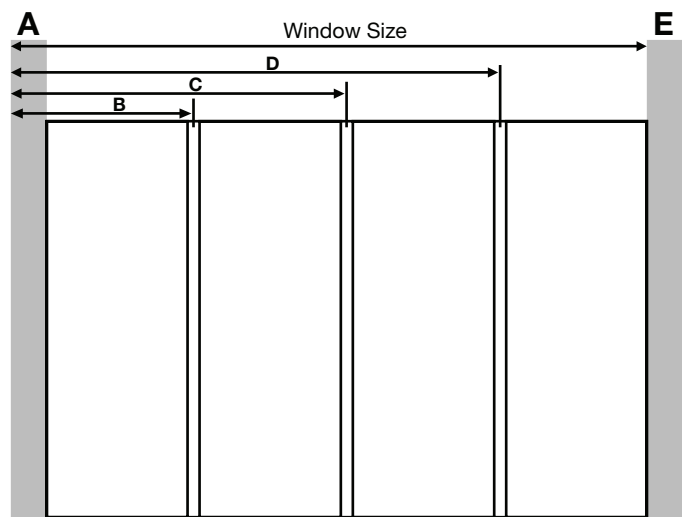
To measure the window opening, measure from the left inside of the window opening to the center of the desired T-post location.

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

EXAMPLE: A-B, A-C, A-D

Always measure from the same point the frame was measured.

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



Options

Proper Application of the Tilt-Out Z-Frame

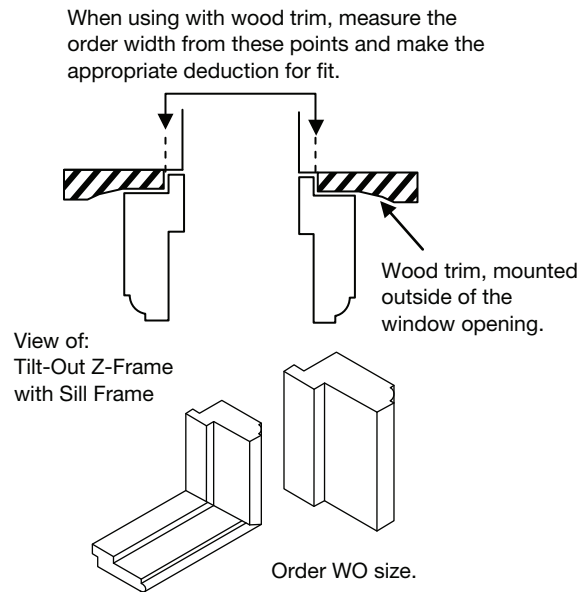
Tilt-Out Z-Frame (Inside Mount)

Designed to be used with certain styles of window trim. Panel and frame are pre-hinged. Frame is not pre-drilled. Shipment includes self-tapping “trim-head” screws.

Tilt-out Z-frame must be ordered as “window opening” (WO) size. NO factory deduction is made with this frame.

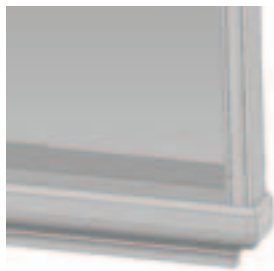
Factory Deductions: width: 0" (0 cm)
height: 0" (0 cm)

NOTE: Installer MUST make own deductions for proper fit. If diagonal measurements exceed $\frac{1}{8}$ " (0.4 cm) out of square, use other outside mount frame style.

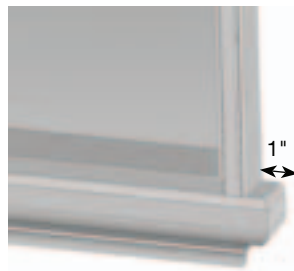


Sill Cap Application

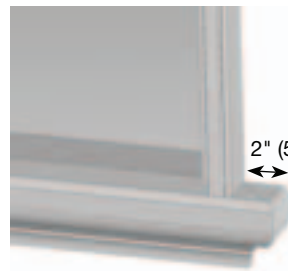
Ordering Options:



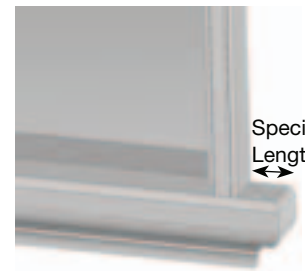
Flush with Frame



1" (2.6 cm) Overlap



2" (5.1 cm) Overlap



Specified Length

3 Available Frame Configuration Options:

- 4-sided with sill cap bottom
- 3-sided invert with sill cap bottom
- 4-sided with sill frame top and sill cap bottom

Existing sill length on window will be required when ordering. This is to assure that sill cap option ordered will fit over the top of your existing window sill. A $1\frac{5}{8}$ " (4.2 cm) buildout will be provided to take up the gap between the existing sill and any inside mount frame. This buildout will be butted up to the back edge of the sill cap to extend the length.

The sill cap will sit flush against the wall for window sills protruding up to $1\frac{1}{4}$ " (3.2 cm) from the face of the wall. The sill cap can be used on longer sills but there will be a gap between the wall and the sill cap.

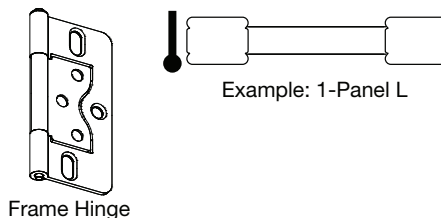
NOTE: No mounting hardware included. Adhesive should be used to attach sill cap to window sill. Made of wood material only.
Not available on composite specialties.

Specifications

Composite Frame Product Detail

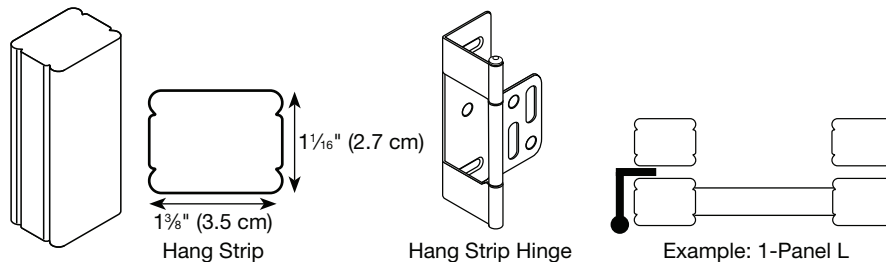
Direct Mount

- Inside mount only
- Window opening measure only
- Panel is pre-hinged
- Four light blocks included
- Factory automatically makes deductions:
width— $\frac{1}{4}$ " (0.7 cm), height— $\frac{1}{4}$ " (0.7 cm)



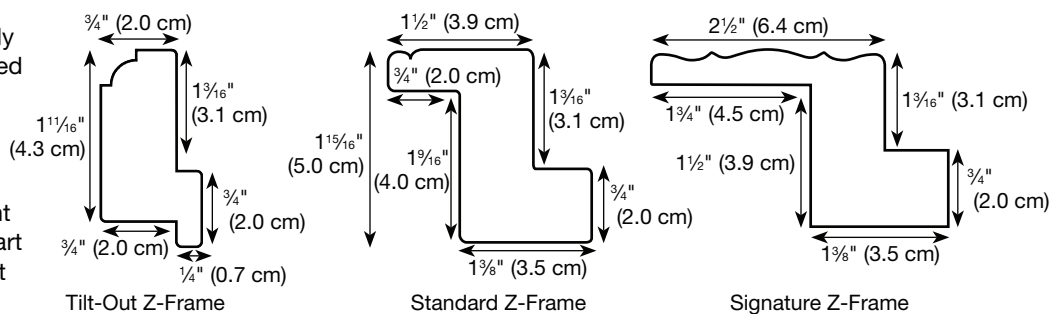
Hang Strip

- Inside mount only
- Window opening measure
- Includes adjustable wrap-around hinge for easy installation
- Panel and hang strip are pre-hinged
- Hang strip is pre-drilled
- Top and bottom light blocks included
- Factory automatically makes deductions:
width— $\frac{1}{4}$ " (0.7 cm), height— $\frac{1}{4}$ " (0.7 cm)



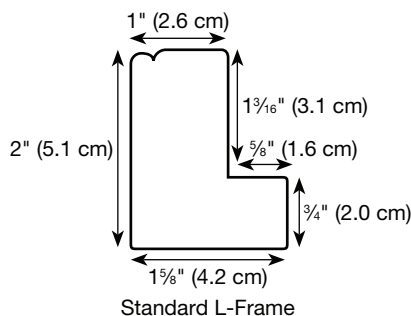
Z-Frames

- Inside mount only
- Window opening measure only
- Panel and frame are pre-hinged
- Frame is not pre-drilled
- Standard, signature—factory automatically makes deductions:
width— $\frac{5}{16}$ " (0.8 cm), for height see Z-frame configuration chart
- No deduction taken on tilt-out Z-frame, measurement is the same as the window opening see tilt-out-frame section



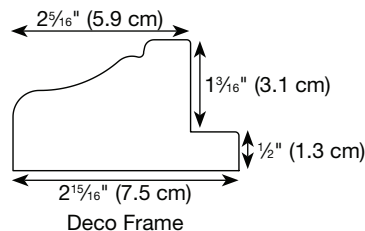
L-Frame

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



Deco Frame

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



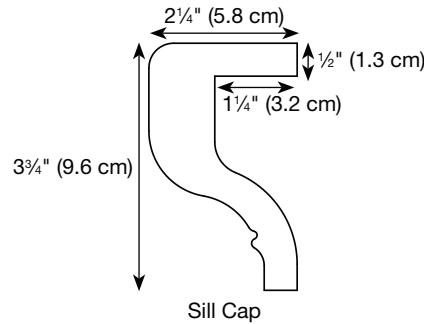
NOTE: Frames larger than 115" (292.1 cm) require splicing.

Specifications

Composite Frame Product Detail

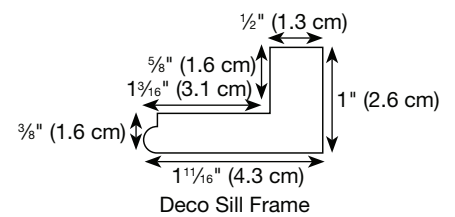
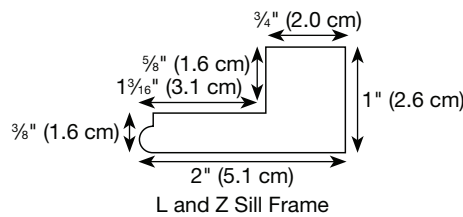
Sill Cap

- Available with all frames
- Available with the following frame configurations:
3-sided inverted with sill cap bottom, 4-sided with sill cap bottom, 4-sided with sill frame top, and sill cap bottom
- Buildout included ($1\frac{5}{8}" \times \frac{1}{2}"$ (4.2 x 1.3 cm))



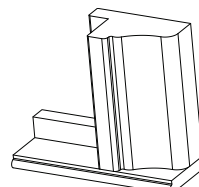
Sill Frame

- Offered with L-frame, Z-frame, and deco frame
- Not available with buildouts

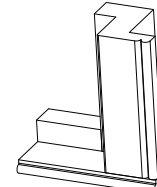


Sill Frame with Frame

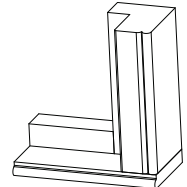
- Sill frame is attached to side frame and joined together via screws



Composite Deco Frame with Sill



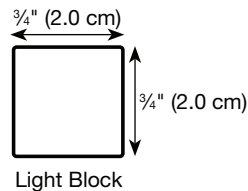
Composite Z-Frame with Sill



Composite L-Frame with Sill

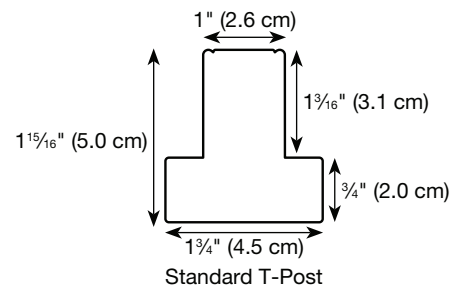
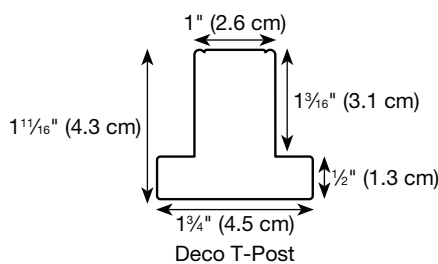
Light Block

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



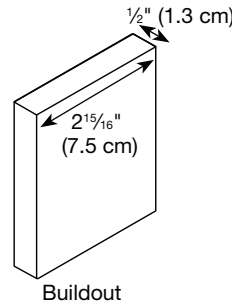
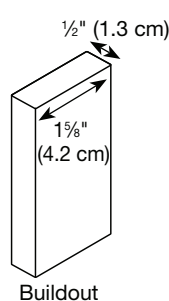
T-Post

- Vertical post that divides the shutter into multiple sections
- T-post pre-drilled by factory



Buildout

- Used with L-frames and deco frames
- Available only in $\frac{1}{2}"$ (1.3 cm) increments
- Maximum 2" (5.1 cm) (4 pieces) per shutter
- Not available with sill configurations



NOTE: Frames larger than 115" (292.1 cm) require splicing.

Specifications

Deductions for Frame Allowances

Direct Mount

- Automatically taken at factory
- Width deduction— $\frac{1}{4}$ " (0.7 cm)
- Height deduction— $\frac{1}{4}$ " (0.7 cm)

Hang Strip

- Automatically taken at factory
- Width deduction— $\frac{1}{4}$ " (0.7 cm)
- Height deduction— $\frac{1}{4}$ " (0.7 cm)

Z-Frame: Standard and Signature

- Automatically taken at factory

Z-Frame Configuration	Frame Width Deduction inches (cm)	Frame Height Deduction inches (cm)
2-Sided	- $\frac{5}{16}$ (0.8)	No deduction*
3-Sided or 3-Sided Inverted	- $\frac{5}{16}$ (0.8)	- $\frac{5}{32}$ (0.4)*
3-Sided Sill Top or Bottom	- $\frac{5}{16}$ (0.8)	- $\frac{1}{16}$ (0.2)*
4-Sided	- $\frac{5}{16}$ (0.8)	- $\frac{5}{16}$ (0.8)
4-Sided Sill Top or Bottom	- $\frac{5}{16}$ (0.8)	- $\frac{5}{32}$ (0.4)
4-Sided Sill Top and Bottom	- $\frac{5}{16}$ (0.8)	- $\frac{1}{16}$ (0.2)
*Using this deduction, panel clearance on open ends of frame will automatically be $\frac{1}{8}$ " (0.4 cm).		

NOTE: Factory makes no deductions on tilt-out Z-frames, the measurement is the same as the window opening (see tilt-out Z-frame section). You must take your own deductions on tilt-out Z-frames.

L-Frame

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

Deco Frame

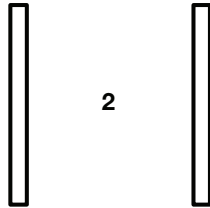
- No deduction taken at factory
- If using in a tight spot, installer must make own deduction for proper fit and order as frame to frame

Specifications

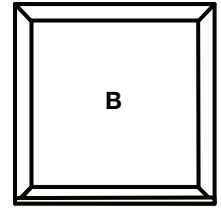
Composite Frame Configurations

2-Sided

Hang strip and direct mount with inside mount is available only in 2-sided frame (vertical). We will provide the light block at no charge for hang strip with inside mount.

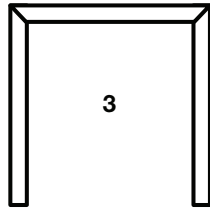


4-Sided with Sill Bottom

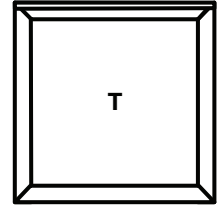


3-Sided

Light block included at no charge.

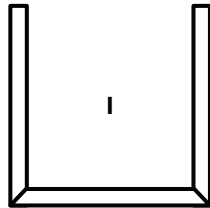


4-Sided with Sill Top

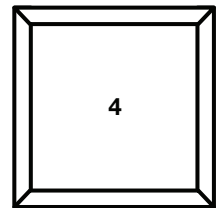


3-Sided Inverted

Light block included at no charge.

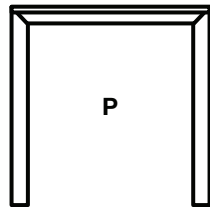


4-Sided

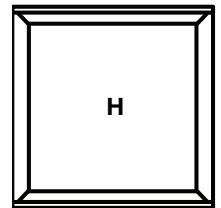


3-Sided with Sill Top

Light block included at no charge.

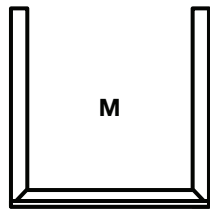


4-Sided with Sill Top and Bottom

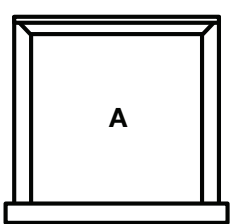


3-Sided Inverted with Sill Bottom

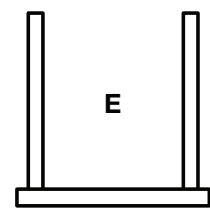
Light block included at no charge.



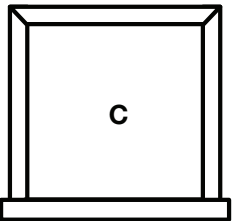
4-Sided with Sill Top and Sill Cap Bottom



3-Sided Inverted with Sill Cap Bottom



4-Sided with Sill Cap Bottom



NOTES: Direct mount includes 4 light blocks at no charge.
Sill cap is made of wood only.

Installation Hardware

Included with Order

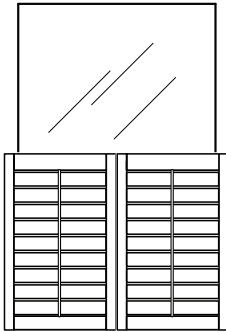
- Hinge pins
- Installation screws (hinge, mounting, etc.)
- Hoffman keys

Available Upon Request—Contact Customer Service

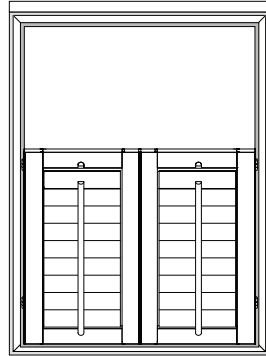
- Hinge shims
- Louver pins
- Screws
- Screw caps (cover exposed screw heads)

Specialty Styles

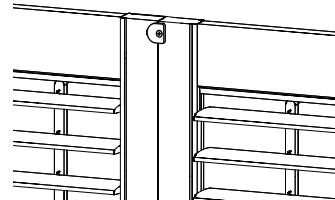
Café Shutters



Shown as 2-Sided



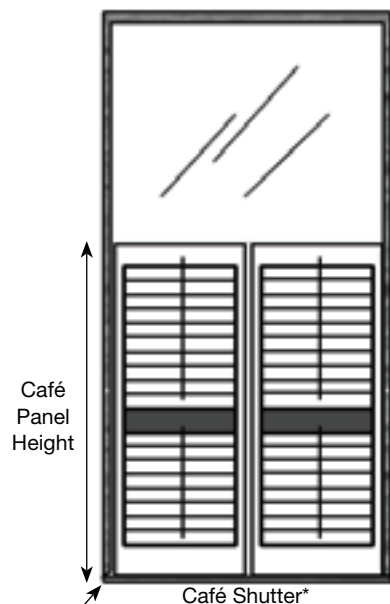
Shown as 4-Sided



Rear View of Café Panel Optional:
Café Aligning Catch

- Tops of composite panels are not finished and are not recommended
- Café shutter panels cover the lower portion of the window
- Pricing is based on width x café panel height
- Optional café aligning catch
- Frame can be ordered to stop at panel height or can be ordered to fully frame the window

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



Includes the Bottom Frame
or Sill Frame if Ordered

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

- Measure format depends on frame type selected
- For direct mount, use “window opening” size (WO) and no frame is furnished
NOTE: Panel will be $\frac{1}{8}$ " (0.4 cm) smaller than café panel height ordered for bottom swing clearance.
- For hang strip, use “window opening” size (WO) and hang strip will be the same height as café panel
NOTE: Panel will be $\frac{1}{8}$ " (0.4 cm) smaller than café panel height ordered for bottom swing clearance.
- For Z-frame, use “window opening” size (WO) and frame can be made at same height café panel or be made at window height for “full-height frame”
NOTE: The café panel height ordered will include whatever frame configuration ordered for the bottom. The cafe panel height is the height of the panels will stop at.
- For L-frame and deco frame, use “frame-to-frame” size (F-F) and frame can be made at the same height as café panel or be made at window height for “full-height frame”
NOTE: The café panel height ordered will include whatever frame configuration ordered for the bottom. The cafe panel height is the height of the panels will stop at.

*Shown with full window-height frame option.

Specialty Styles

Sunburst Arch without Frame

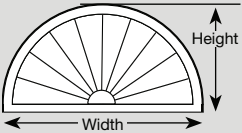
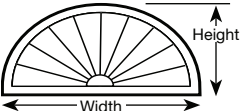
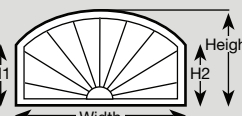
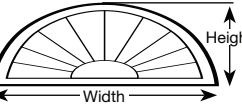
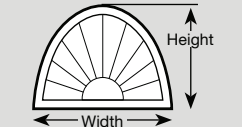
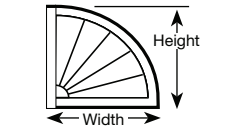
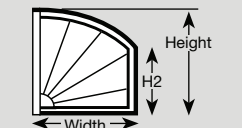
Specialty Shape without Frame: Panel Only

- Sunburst pattern—no horizontal louvers
- Rabbeted louvers for maximum light control
- Louver sizes will vary based on height and width of arch
- The arch has no tilt bar; the louvers open individually and are spring loaded at the bottom pin
- Buildouts not available
- Panel is $1\frac{1}{16}$ " (1.8 cm) thick and may not match projection of other outside mount standard shutters
- Order arch as frame-to-frame

- Allow sufficient wall space to mount; panel-only arches that are:

Frameless Arch Base Width inches (cm)	Top Rail Size inches (cm)	Bottom Rail Size inches (cm)
24 (61.0) to less than 45 (114.3)	2 (5.1)	1 (2.6)
45 (114.3) to less than 72 (182.9)	3 (7.7)	2 (5.1)
45 (114.3) to less than 80 (203.2)	3 (7.7)	3 (7.7)

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

Specialty Shape without Frame: Minimum and Maximum Sizes				
Frameless—Panel Only	Width		Height	
	Minimum inches (cm)	Maximum inches (cm)	Minimum inches (cm)	Maximum inches (cm)
 Perfect Sunburst Arch (order as eyebrow) Height = 50% of width No templates required	20 (50.8)	72 (182.9)	10 (25.4)	36 (91.5)
 Eyebrow Sunburst Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if height exceeds 54% of width	20 (50.8)	72 (182.9)	7 (17.8)	36 (91.5)
 Elongated Sunburst Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if ordered height minus ordered leg height exceeds 54% of width	20 (50.8)	72 (182.9)	10 (25.4)	47½ (120.7)
 Elliptical Sunburst (arch without a constant radius) Template always required	20 (50.8)	72 (182.9)	7 (17.8)	36 (91.5)
 Palladian Height minimum = no less than 33% of width Height maximum = no greater than 66% of width No template needed; additional measurements required (see order form)	20 (50.8)	72 (182.9)	10 (25.4)	47½ (120.7)
 ¼ Eyebrow Leg minimum = 33% of width Leg maximum = 108% of width	15 (38.1)	36 (91.5)	7 (17.8)	36 (91.5)
 ¼ Elongated Sunburst Arch Leg minimum = 33% of width Leg maximum = 132% of width	15 (38.1)	36 (91.5)	10 (25.4)	47½ (120.7)

Specialty Styles

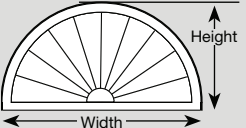
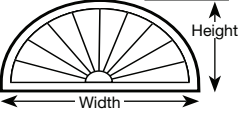
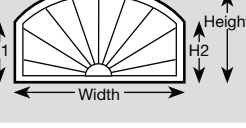
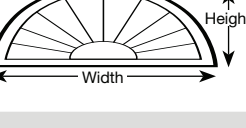
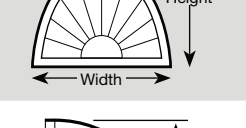
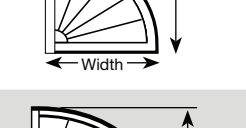
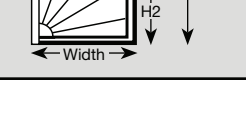
Sunburst Arch with Frame

			
Frame Options	Z-Frames**	L-Frames	Deco Frame
Mount	Inside mount only	Outside mount only	Outside mount only
Order Size	Window opening	Frame-to-frame	Frame-to-frame
Projection	3/8" (1.0 cm)	2" (5.1 cm)	1 1/16" (4.3 cm)

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

**Signature Z-frame minimum width 30" (76.2 cm).

NOTE: All frame types are available with sill bottom buildouts are available on L-frame and deco frame arches (except with sill bottom).

Framed Full and 1/4 Sunburst Arches		Width		Height	
		Minimum inches (cm)	Maximum inches (cm)	Minimum inches (cm)	Maximum inches (cm)
 Perfect Sunburst Arch (order as eyebrow) Height = 50% of width No templates required	Z-frame	21 13/16 (55.5)	73 13/16 (187.5)	11 13/16 (30.1)	37 13/16 (96.1)
	L-frame	22 1/8 (56.2)	74 1/8 (188.3)	12 1/8 (30.8)	38 1/8 (96.9)
	Deco frame	24 3/4 (62.9)	76 3/4 (195.0)	14 3/4 (37.5)	40 3/4 (103.6)
 Eyebrow Sunburst Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if height exceeds 54% of width	Z-frame	21 13/16 (55.5)	73 13/16 (187.5)	8 13/16 (207.9)	37 13/16 (96.1)
	L-frame	22 1/8 (56.2)	74 1/8 (188.3)	9 1/8 (23.2)	38 1/8 (96.9)
	Deco frame	24 3/4 (62.9)	76 3/4 (195.0)	11 1/4 (29.9)	40 3/4 (103.6)
 Elongated Sunburst Height minimum = no less than 33% of width Height maximum = no greater than 66% of width Template required if ordered height minus ordered leg height exceeds 54% of width	Z-frame	21 13/16 (55.5)	73 13/16 (187.5)	11 13/16 (30.1)	49 13/16 (126.4)
	L-frame	22 1/8 (56.2)	74 1/8 (188.3)	12 1/8 (30.8)	49 1/8 (124.8)
	Deco frame	24 3/4 (62.9)	76 3/4 (195.0)	14 3/4 (37.5)	51 1/4 (131.5)
 Elliptical Sunburst (arch without a constant radius) Template always required	Z-frame	21 13/16 (55.5)	73 13/16 (187.5)	8 13/16 (207.9)	37 13/16 (96.1)
	L-frame	22 1/8 (56.2)	74 1/8 (188.3)	9 1/8 (23.2)	38 1/8 (96.9)
	Deco frame	24 3/4 (62.9)	76 3/4 (195.0)	11 1/4 (29.9)	40 3/4 (103.6)
 Palladian Height minimum = no less than 33% of width Height maximum = no greater than 66% of width No template needed; additional measurements required (see order form)	Z-frame	21 13/16 (55.5)	73 13/16 (187.5)	8 13/16 (207.9)	49 13/16 (126.4)
	L-frame	22 1/8 (56.2)	74 1/8 (188.3)	9 1/8 (23.2)	49 1/8 (124.8)
	Deco frame	24 3/4 (62.9)	76 3/4 (195.0)	11 1/4 (29.9)	51 1/4 (131.5)
 1/4 Eyebrow Leg minimum = 33% of width Leg maximum = 108% of width	Z-frame	16 13/16 (42.8)	37 13/16 (96.1)	8 13/16 (207.9)	37 13/16 (96.1)
	L-frame	17 1/8 (43.5)	38 1/8 (96.9)	9 1/8 (23.2)	38 1/8 (96.9)
	Deco frame	21 3/4 (55.3)	40 3/4 (103.6)	11 1/4 (29.9)	40 3/4 (103.6)
 1/4 Elongated Sunburst Arch Leg minimum = 33% of width Leg maximum = 132% of width	Z-frame	16 13/16 (42.8)	37 13/16 (96.1)	11 13/16 (30.1)	49 13/16 (124.7)
	L-frame	17 1/8 (43.5)	38 1/8 (96.9)	12 1/8 (30.8)	49 1/8 (126.1)
	Deco frame	24 3/4 (62.9)	40 3/4 (103.6)	14 3/4 (37.5)	51 1/4 (131.5)

Specialty Styles

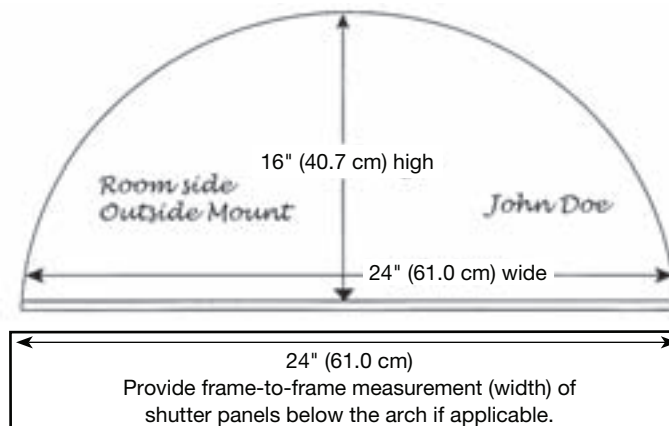
How to Make a Template

(recommended for inside mount frameless arches—required for elliptical arches)

1. Tape paper over the window opening, allowing plenty of overlap. See below for template material information.
 2. If your arch has a frame that requires a window opening measurement, draw an exact outline of the window opening. Manufacturing will take a deduction for proper fit. Be careful NOT to press in or crease the paper of the template while tracing. If your arch is frameless or has a frame that requires a F-F measurement, make template to the finished size you need. Your arch will be made to this size.
 3. Remove the paper from the window opening and cut out the arch.
 4. Fold template in half to verify template is symmetrical (mirror image). Template must be the same on both sides and may require slight adjustment before shipping to Springs Window Fashions.
 5. If adjustments are made to ensure template is symmetrical, place template back in window to ensure size and fit.
 6. 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
 7. Attach a copy of the purchase order to the template.
 8. Roll the template and place it in a mailing tube.
 9. DO NOT FOLD the TEMPLATE!
 10. 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: Comment on purchase order if a template is being sent, otherwise order will be processed without.

Manufacturer will not add to template. Provide finished size for frameless arches or a framed arch that requires a F-F measurement. Manufacturing will deduct from Z-frame window opening template size.



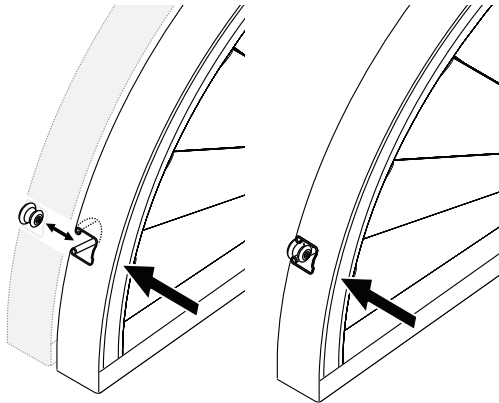
Must Note on Template:

- Purchase order number
- Customer's name
- Job number
- Account number

Specialty Styles

Sunburst Arch: Installation Method

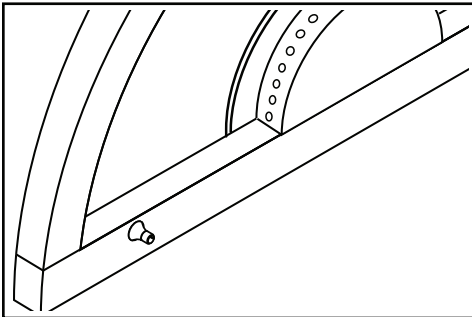
Arches arrive with the louvers not installed and packed separately. Louvers are numbered on bottom edge from right to left on the bottom as you look at the interior (room) side.



Framed Arch—Installing Panel to Frame

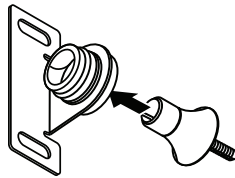
Button catch (imbedded) is standard. Panels are attached to frame via button catch. The frame itself installs as a standard L, Z, or deco frame.

Frameless Arch Installation Option



Bulldog Catch

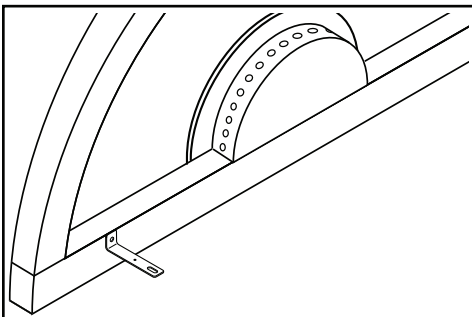
Bulldog catch works best with window openings that have a square edge. Allows arch panel to be removed for cleaning. Available in White.



Suggested quantity usage:

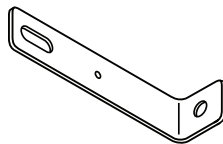
Less than 36" (91.5 cm)—3

36" (91.5 cm) to 72" (182.9 cm)—5



L-Bracket

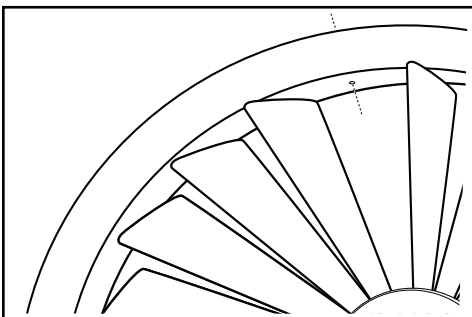
L-bracket works best with windows that have a bull-nosed edge. Long-throw on the L-bracket allows you to reach past the curved window edge to a flat surface. L-bracket is zinc colored only.



Suggested quantity usage:

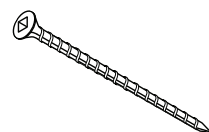
Less than 36" (91.5 cm)—5

36" (91.5 cm) to 72" (182.9 cm)—7



Trim Head Screw

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



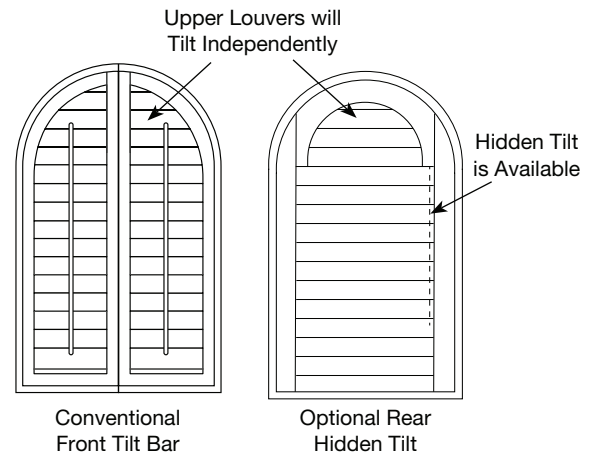
Specialty Styles

Arch and Angle Top Panel Shutters

- 2½" (6.4 cm), 3½" (8.9 cm), and 4½" (11.5 cm) louvers available
- Astragal, Hide-a-Tilt™, split tilt available
- All frames except tilt-out Z-frames available
- All panel configurations in standard shutters available
- Available frame configurations: 3-sided (3S), 4-sided (4S), 4-sided with sill bottom (4SS)
- Split tilt and divider rails will have a +/- 2" (5.1 cm) tolerance
- Buildouts available for L-frames, deco frames, and arch without sill frame

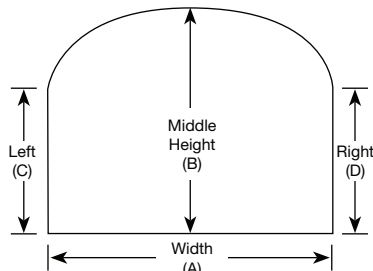
Louver Tilt is Restricted up to 90° (degrees)

Louver tilt is restricted up to 90° (degrees) due to the curvature (or slope) at the top of the panel. A divider rail can be used to separate the upper arch portion from the lower rectangular portion. This will allow for full louver rotation of the louvers below the divider rail.



NOTE: Arch/angle top panels ordered with signature Z-frame can not be under 30" (76.2 cm) in width.
Hide-a-Tilt only tilts up.

Measuring Leg Height and Divider Rail Height for Window Opening



Frames Requiring WO Measurement:
Z-frame, hang strip, and direct mount.

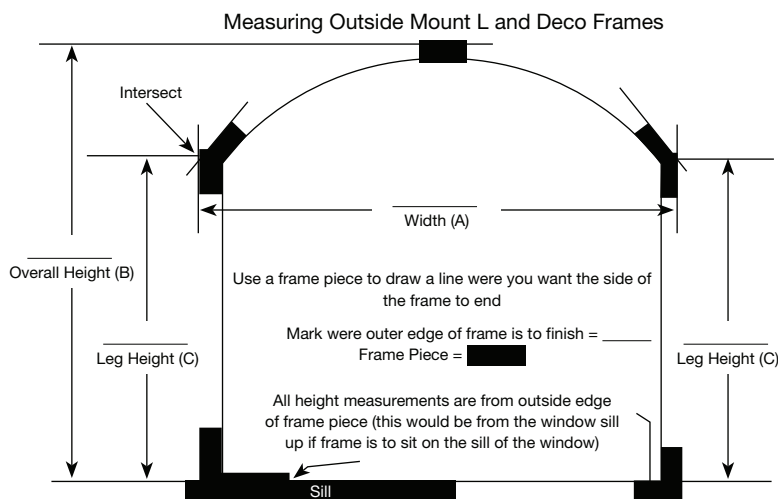
Measuring Leg Height:

Measure from bottom of window up to arch "break point". Minimum leg height is 13" (33.1 cm).

Measuring Divider Rail Height:

Measure from bottom of window up to center of divider rail.

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



Frames Requiring F-F Measurement:

L-frames and deco frames.

Measure Leg Height:

Measure from bottom edge of frame up to arch "intersect" of the window (C). Minimum frame height is 13" (33.1 cm).

Measuring Divider Rail Height:

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

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

Specialty Styles

Arch and Angle Top Panel Shutters – Minimum/Maximum Height

See minimum and maximum charts.

Ordered Height Limitations for Arch and Angle Top Shutters				
	Frame Configuration	Frame Type	Minimum inches (cm)	Maximum inches (cm)
Window Opening	2-sided	Hang strip/direct mount	15 ¹ / ₄ (38.8)	96 ¹ / ₄ (244.5)
	3-sided	Z-frame	16 ¹ / ₈ (40.8)	97 ¹ / ₈ (246.6)
	4-sided with sill bottom	Z-frame	16 ¹ / ₂ (42.0)	97 ¹ / ₂ (247.7)
	4-sided	Z-frame	16 ¹ / ₁₆ (43.1)	97 ¹ / ₁₆ (248.8)
Frame-to-Frame	3-sided	L-frame	16 ⁵ / ₈ (41.5)	97 ¹ / ₄ (247.1)
	4-sided with sill bottom	L-frame	16 ⁵ / ₈ (42.3)	97 ⁵ / ₈ (248.0)
	4-sided	L-frame	17 ¹ / ₈ (44.0)	98 ¹ / ₄ (249.6)
	3-sided	Deco frame	17 ¹ / ₈ (44.7)	98 ³ / ₈ (250.4)
	4-sided with sill bottom	Deco frame	17 ¹ / ₁₆ (45.6)	98 ¹ / ₁₆ (251.4)
	4-sided	Deco frame	19 ¹ / ₈ (50.5)	100 ⁷ / ₈ (256.3)

NOTE: Minimum leg height is 13" (33.1 cm) on arch top panels and angle tops.

French Door Shutters

- 2¹/₂" (6.4 cm) and 3¹/₂" (8.9 cm) louvers
- Hide-a-Tilt™, split tilt, and double mouse hole available
- Single panels hinged on the same side as the door
- Standard L-frame only
- Order frame-to-frame
- Outside mount only
- Divider rails are not available

- Button catches plus magnets are standard to provide for a secure closure
- Factory will automatically add build outs based on your louver size; see chart below
- Split tilt will have +/- 2" (5.1 cm) tolerance from requested location

Projection Based on Louver Size inches (cm)	Frame	Buildout inches (cm)
2 ¹ / ₂ (6.4)	2" (5.1 cm) L-frame	0 (0.0)
3 ¹ / ₂ (8.9)	2" (5.1 cm) L-frame	¹ / ₂ (1.3)

Manufacturing will automatically add buildouts to your order according to the louver size. An additional ¹/₂" (1.3 cm) or 1" (2.6 cm) can also be requested if needed for louver clearance on larger trims. Factory will also make all adjustments to back plate elevation based on trim projection and extra buildout requested.

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

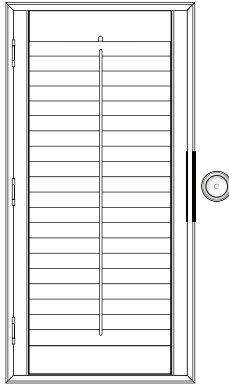
French Door Shutters: Minimum/Maximum French Door Sizes

	Minimum inches (cm)	Maximum inches (cm)
Width	14 (35.6)	29 ³ / ₈ (75.8)
Height	34 ¹ / ₈ (86.7)	86 ¹ / ₄ (219.1)

Specialty Styles

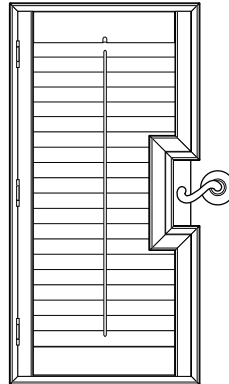
French Door Shutters: Cut-Out Options

L-Frame
No Cut-Out

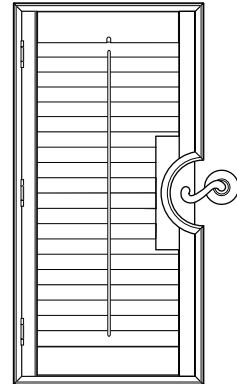


This should only be ordered when installed next to a French door with cut-out, otherwise order it as a standard shutter.

Rectangular Cut-Out
(surcharge applies)



Curved Cut-Out
(surcharge applies)

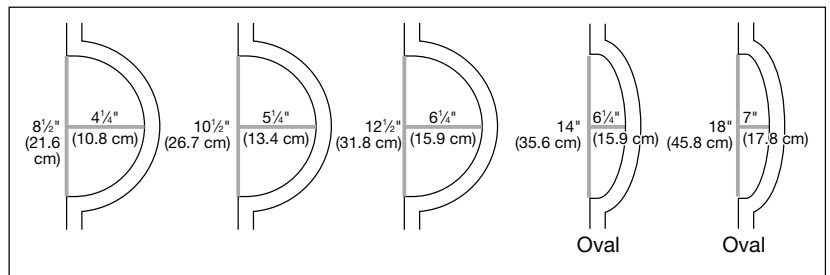


Order Rectangular Cut-Out When:

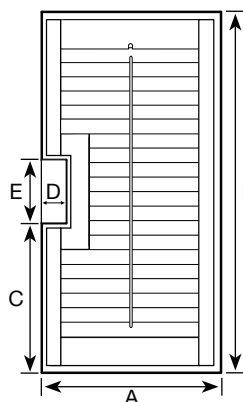
1. Choose if the base of the door hardware is rectangular.
2. Must specify width and height of the cut-out. There are no set standard sizes to conform to. There are no templates to use.
3. Be sure to make proper allowances for the door handle to pivot easily when determining your cut-out size.

Order a Curved Cut-Out When:

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

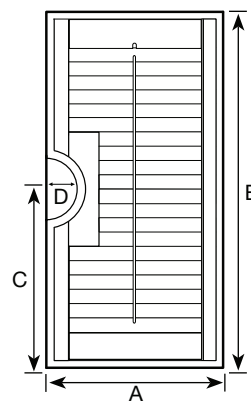


This image is taken from the backside of the French door order form.



Rectangular Cut-Out

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



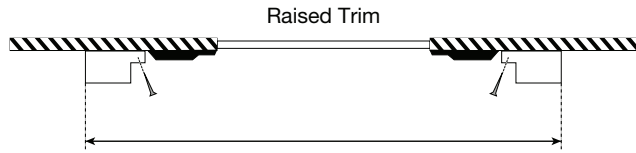
Curved Cut-Out

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

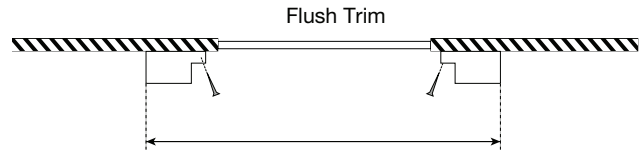
Specialty Styles

French Door Shutters: Placement of L-Frame

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



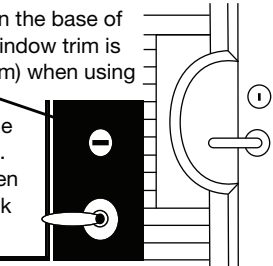
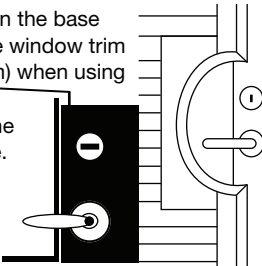
Always Use **Frame-To-Frame Measure Format** for French Doors.



Always Use **Frame-To-Frame Measure Format** for French Doors.

French Door Shutters: Recessed Back Plate

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

NO	YES
Recessed back plate is not needed	Recessed back plate is needed
If measurement between the base of the hardware and the window trim is greater than 1½" (4.2 cm) when using a standard L-frame or 1" (2.6 cm) if using the narrow colonial L-frame. (L-frame does fit between hardware and trim), back plate does not need to be recessed.	If measurement between the base of the hardware and the window trim is less than 1½" (4.2 cm) when using a standard L-frame or 1" (2.6 cm) if using the narrow colonial L-frame. (L-frame does not fit between hardware and trim), back plate does need to be recessed.
	
If recessed back plate is required, the edge of back plate will align with inside edge of L-frame. Installer does not specify amount of recess.	

CAUTION:

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

Specialty Styles

Bypass Shutters

- Ideal solution for large windows and patio doors
- System consists of a double-top track and floor guides (no bottom track)
- Available in all louver sizes
- Available with Hide-a-Tilt™ and split tilt
- Available with double mouse hole
- See the minimum and maximum order sizes charts (factory to determine panel size based on width ordered and configuration)
- Panel made composite headers, box out, and valance made of wood and painted to match
- Divider rail required over 72" (182.9 cm) ordered height
- Tracks wider than 144" (365.8 cm) will be spliced
- Header and valance could be spliced over 96" (243.9 cm)
- Mounting options:
 - Outside mount—with or without box-out (box-out recommended)
 - Inside mount, minimum window depth 5 $\frac{3}{8}$ " (13.7 cm)
 - Exact frame-to-frame with box-out
- All mounting options:
 - Track and header board: unit includes 2 tracks installed to header; header is 5 $\frac{1}{2}$ " (14.0 cm) deep and $\frac{3}{4}$ " (2.0 cm) thick
 - Valances: two top treatment styles available are 5" (12.7 cm) double beaded standard valance and 4 $\frac{1}{2}$ " (11.5 cm) decorative valance (optional)
 - Outside mount is available with stack back or custom header (see stack back and custom header section)



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

Valance Options



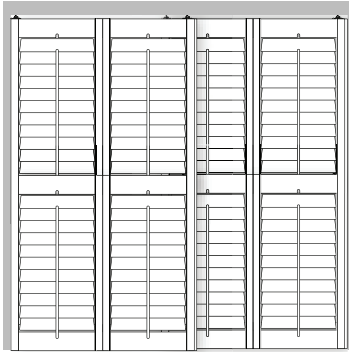
4 $\frac{1}{2}$ " (11.5 cm) Decorative Valance



5" (12.7 cm) Standard Valance

Specialty Styles

Bypass Shutters: Mounting Options



Outside Mount— with Factory Additions:

Width Measure (with box-out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim and record as window opening size. **Regardless of ordered size, factory will add 3¼" (8.3 cm) to your overall ordered width.**

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

Width Measure (without box-out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim and record as window opening size. **Regardless of ordered size, factory will add 1¼" (3.2 cm) to your overall ordered width.**

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

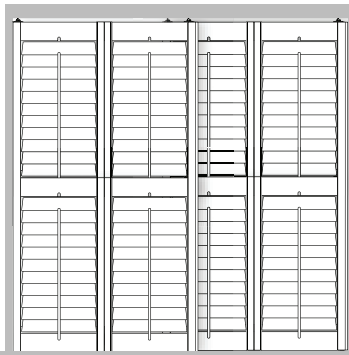
Height Measure (with or without box-out): If no window trim: measure from floor surface to top of the window opening. If window trim: measure to top of window trim. **Regardless of ordered size, factory will add 2⅝" (6.7 cm) to your overall ordered height.**

Other Measuring Considerations: ½" (1.3 cm) buildout is available.

Valance Information: Valance returns are included and wrap around the outside of the box-out if ordered. Returns are mitered and measure 5⅞" (15.0 cm) (special valance width and return width available).

Box-Out Information: Optional side frames are 5½" (14.0 cm) deep and ¾" (2.0 cm) thick.

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



Outside Mount— Exact Frame-to-Frame:

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

Other Measuring Considerations: ½" (1.3 cm) buildout is available.

Valance Information: Valance returns are included and wrap around the outside of the box. Returns are mitered and measure 5⅞" (15.0 cm) (special valance width and return width available).

Box-Out Information: Required box-out side frames are 5½" (14.0 cm) deep and ¾" (2.0 cm) thick.

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

Inside Mount— with Factory Deductions:

Width Measure: Order window opening width and factory will make a ½" (1.3 cm) deduction off the track for proper fit.

Height Measure: Order window opening height and factory will make a ½" (1.3 cm) deduction. The carriers are adjustable.

Other Measuring Information: Minimum window depth required for 5⅞" (13.7 cm). No buildouts available.

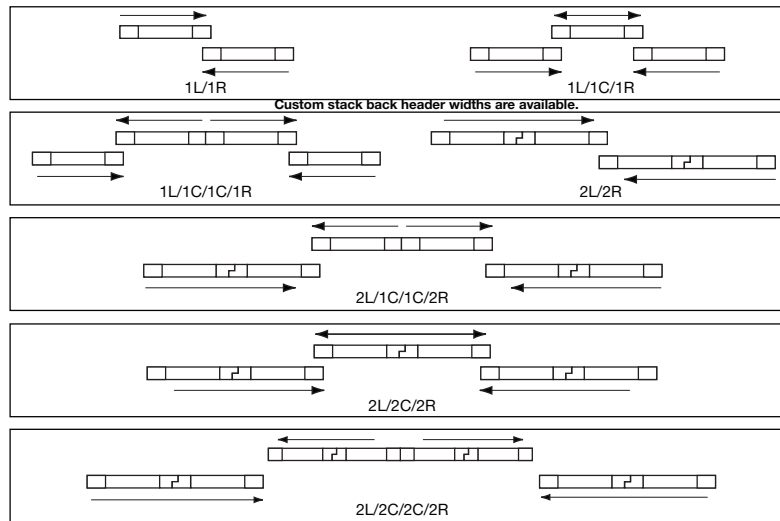
Valance Information: Special valance width available. Valance returns and special return width not available.

Box-Out Information: Not available.

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

Specialty Styles

Bypass Track System Configuration Options—Only Configurations Available



Bypass Shutters: Minimum/Maximum Width Order Sizes by Panel Configuration

Panel Configuration	Example of Shutter Unit Configurations Using Various Panel Combinations	Outside Mount with Additions		Inside Mount		Outside Mount-Exact	
		Order WO Size		Order WO Size		Exact Frame-to-Frame	
		Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)	Minimum Width inches (cm)	Maximum Width inches (cm)
1L/1R		18 (45.8)	58 (147.4)	20 (50.8)	59 (149.9)	19¼ (48.9)	61¼ (155.6)
1L/1C/1R*		27½ (69.9)	86 (218.5)	28½ (72.4)	88½ (224.8)	27¾ (70.5)	90¾ (230.6)
1L/1C/1C/1R		37 (94.0)	117 (297.2)	38 (96.6)	118 (299.8)	36¾ (92.1)	120¼ (305.5)
2L/2R		37¾ (95.9)	117¾ (299.1)	38¾ (98.5)	118¾ (301.7)	36 (91.5)	121 (307.4)
2L/1C/1C/2R*		56 (142.3)	176 (447.1)	58½ (147.7)	177 (449.6)	54¾ (137.8)	180¼ (457.9)
2L/2C/2R*		57½ (145.1)	177½ (449.9)	58½ (147.7)	177¼ (450.3)	54¾ (137.8)	180¼ (457.9)
2L/2C/2C/2R		76½ (194.4)	236½ (600.8)	77½ (196.9)	237½ (603.3)	71¼ (182.5)	239¼ (609.2)

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

Same minimum/maximum sizes apply if ordered with stack back options and with or without box-out.

NOTE: Combinations with a 2C, 2L, or 2R will be rabbeted together and move as one unit.

Setting Bracket Height

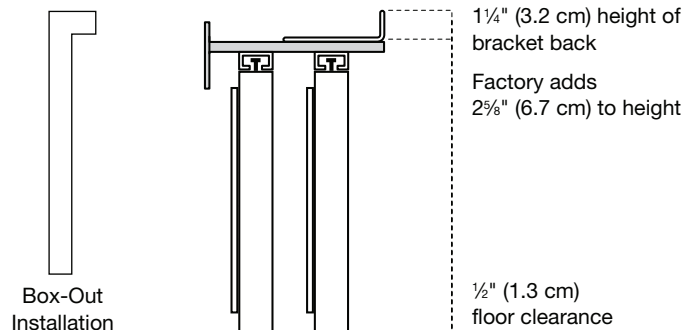
(for outside mount without side frames)

For wall mount bypass shutter system top of angle bracket to floor:

Top of bracket will be 3⅞" (9.9 cm) above ordered height.
This includes ½" (1.3 cm) 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.

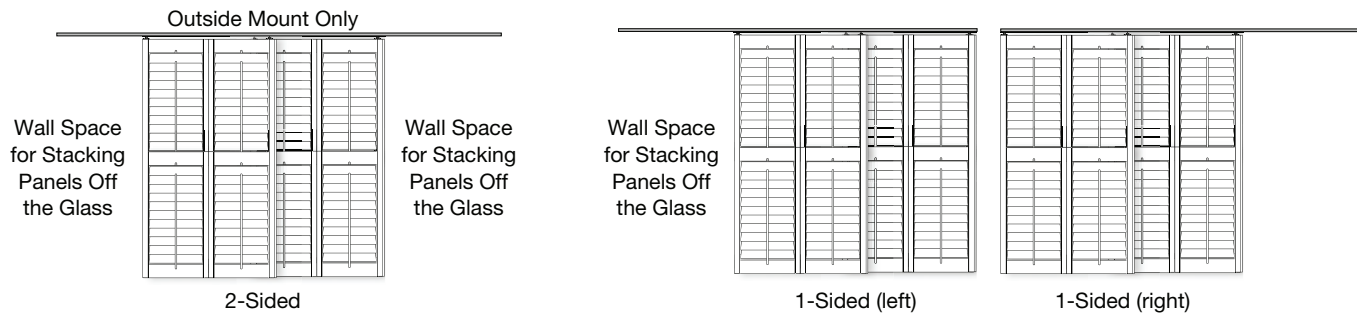
Wood Bypass Height Minimum and Maximum		
Options	Minimum inches (cm)	Maximum inches (cm)
Outside Mount	15¾ (39.1)	96¾ (244.8)
Inside Mount	17¼ (43.9)	98¼ (249.6)
Exact	15¾ (39.1)	96¾ (244.8)



Specialty Styles

Bypass Track System

Stack Back Option



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

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

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

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

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

Custom Header

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

- Panels will be built to cover the window opening size
- The track, header, and valance will be built to the custom size requested
- Available on outside mount with additions only

ORDERING ENTRY TIP: Enter the opening size as the ordered width.

Choose "no" for stack back and then place desired finished size in the custom header field.

General Information

Definitions

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

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

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

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

Buildout—Used in conjunction with 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—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. Close in upward position for optimal closure.

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

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

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

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

Louvers—The movable fins inside the shutter panel.

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

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

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

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" (0.7 cm) difference. Windows that are not square will need to have the shutter mounted to the outside of the window opening.

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

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

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.

T-Post—A vertical post that divides the shutter into multiple 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.).

Care Instructions

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.

Pricing

Composite Shutters Pricing

	Reynosa Manufacturing (from 10 working days to ship)	Asian Manufacturing (from 7 weeks to deliver)
Frame Type		
Hang Strip, Direct Mount	\$47.30 per square foot	\$42.30 per square foot
L-Frames (Frame-to-Frame)	\$48.30 per square foot	\$43.30 per square foot
Z-Frames, Tilt-Out Z-Frame (Window Opening)	\$48.30 per square foot	\$43.30 per square foot
Deco Frames (Frame-to-Frame)	\$48.30 per square foot	\$43.30 per square foot
Bypass Track Systems	\$50.00 per square foot	N/A
Additional Surcharges		
Arch and Angle Panel Shutters		\$110.00 per square foot
Bypass Box-Out*		.15%
Bypass Stack Back*		.5%
Cafe Shutter with 4-Sided Frame.		.5%
French Door Cut-Out**		\$450.00
Hide-a-Tilt™ Bar		.10%
Sunburst Arches (Frameless)		\$123.00 per square foot
Sunburst Arches (Framed)		\$137.00 per square foot
Stainless Steel Hinge		.5%
Wood Sill Cap.		.10%

*Calculate overall square feet of bypass. Use overall square foot price to calculate surcharge for box-out and stack back.

**Calculate the overall square footage of the French door panel using the L-frame price; then add the surcharge.

NOTE: Composite shutter sunburst arches, composite arches, angled panel shutters, and french door cut-outs are manufactured in Asia with an 8 week lead time.

Composite Characteristics

- Made with PVC base with calcium carbonate and other fillers
- Perfect for high-humidity areas
- Color will not fade
- Easy cleaning with mild detergent and water

Panel Size Limitations	Minimum inches (cm)		Maximum inches (cm)	
	2½" (6.4 cm) and 3½" (8.9 cm)	4½" (11.5 cm)	2½" (6.4 cm) and 3½" (8.9 cm)	4½" (11.5 cm)
Single Panel Width (regular)	9 (22.9)	9 (22.9)	30 (76.2)	26 (66.1)
Single Panel Width (bifold)	9 (22.9)	9 (22.9)	24 (61.0)	24 (61.0)
Panel Height	15 (38.1)	15 (38.1)	96 (243.9)	96 (243.9)



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19-0262-05 (07/17) 17-5483|S17-5086