

Features and Benefits

Polycore® shutter are the only fully aluminum reinforced shutters available in the world today. After nearly 12 years of research and development, a co-extrusion process was perfected that allowed us to manufacture aluminum reinforced shutter components and fabricate them into shutter panels.

All Polycore® shutters have a conveniently located tilt rod that provides easy access to light control and privacy. The self-tensioned louver pins eliminate the need for tension screws and constant adjustment. A removable pin in the two-part hinge makes removing panels from the frame effortless. A wide array of specialties and options allows the Polycore® shutter line cover virtually any window opening.

Polycore® components are finished with a state of the art baked on water borne paint. This ensures that the shutter finish will never warp, crack, chip or peel. Polycore® shutters are moisture and UV resistant, making them impervious to the elements. Finally, the innovative aluminum core provides unprecedented strength and durability that allows our panels to be safely fabricated up to 36” wide for an unparalleled viewing area.

Our Lexwood® Premium, Advantage and Plus shutters are made from 100% premium basswood. Each shutter is hand built utilizing a unique process that combines old world craftsmanship with cutting edge technology to offer precision design and consistent quality control. This allows Sunland Shutters to create the finest and the most elegant looking custom wood shutter on the market today.

Our selection of 20 stain colors, 20 white colors and our custom color match service combined with a wide choice of frames, options and specialties allows these Lexwood shutter lines to match any décor and window opening.

Our Lexwood® Premium, Advantage and Plus shutters and our Polycore® shutters have received the GREENGUARD Indoor Air Quality and the coveted GREENGUARD Children & Schools certifications. This means that our shutters have passed an extensive series of tests to ensure that they meet stringent third-party standards for low chemical emissions based on established health standards.

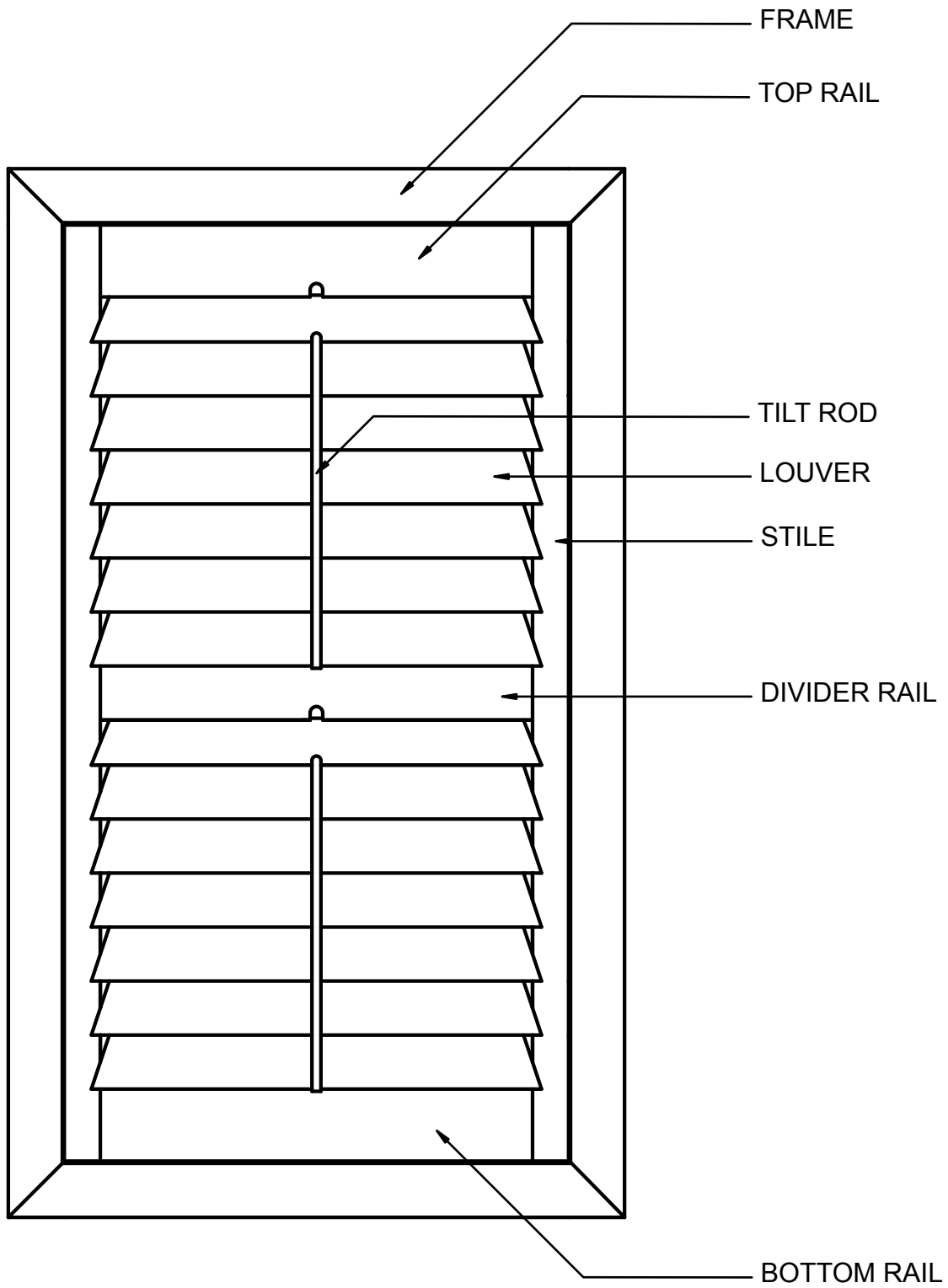
Shutter Features Comparison

Revised: July, 2023

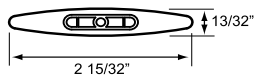
	<i>LexWOOD</i> [®]			<i>PolyCORE</i> [®]
	Premium	Advantage	Plus	Polycore
Delivery *	~6 Weeks	~5 Weeks	~5 Weeks	~4 Weeks
# Of Colors	20 Stains	20 Whites	20 Whites	5 Whites
Primer	UV Water based	UV Water based	Gesso	UV Water based
Paint	UV Water based	UV Water based	UV Water based	UV Water based
Panel Width	36"	36"	36"	36"
Specialties	Yes (1 wk longer)	Yes (1 wk longer)	Yes (1 wk longer)	Yes (1 wk longer)
French Doors	Yes	Yes	Yes	Yes
Sliders	Yes	Yes	Yes	Yes
Material	Premium Basswood	Premium Basswood	Premium Basswood	PVC w/ Co-Extruded Aluminum Cores
Louver Size	2.5", 3.5", 4.5"	2.5", 3.5", 4.5"	2.5", 3.5", 4.5"	2.5", 3.5", 4.5"
# Of Frames	12	12	12	10
Double Hung	Yes	Yes	Yes	Yes
Café Style	Yes	Yes	Yes	Yes
Warranty	4 Years on Finish, Limited Lifetime on Materials & Workmanship	4 Years on Finish, Limited Lifetime on Materials & Workmanship	3 Years on Finish, Limited Lifetime on Materials & Workmanship	25 Year Limited

* Delivery time to the Port of Los Angeles. Additional time is required for customs, unloading, shipping, etc. Some features require an extra charge. See your sales rep for details.

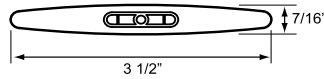
Shutter Components



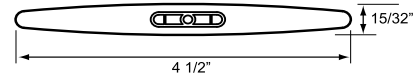
Louvers



2.5" ALUMINUM CORE LOUVER

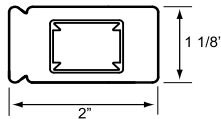


3.5" ALUMINUM CORE LOUVER

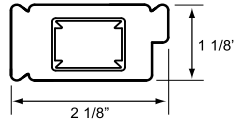


4.5" ALUMINUM CORE LOUVER

Stiles

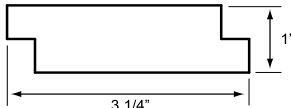


ALUMINUM REINFORCED STILE

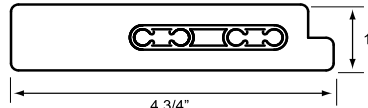


RABBITTED STILE

Rails

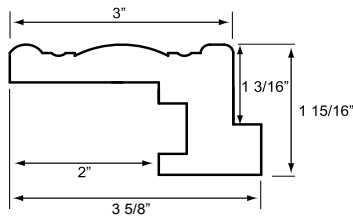


DIVIDER RAIL

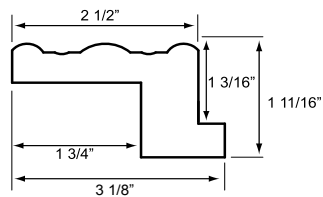


ALUMINUM REINFORCED RAIL

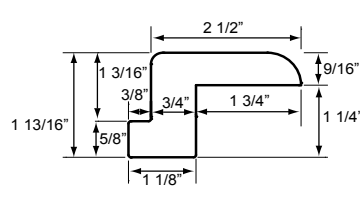
Frames



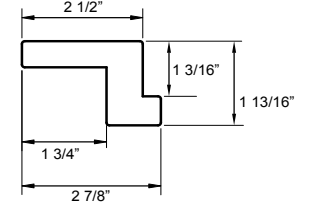
LARGE Z-FRAME
LGZ



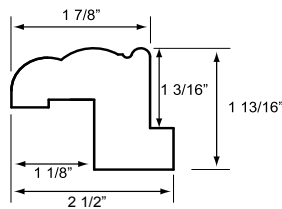
MEDIUM Z-FRAME
MDZ



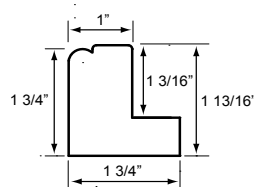
2" BULLNOSE FLAT Z-FRAME
2FZ



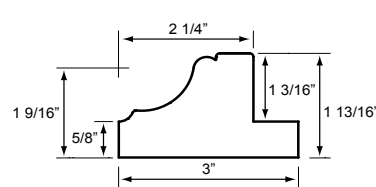
MEDIUM SQUARE FLAT Z-FRAME
SQZ



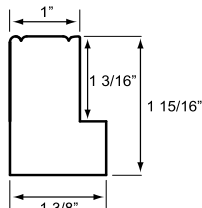
MALIBU Z-FRAME
MAZ



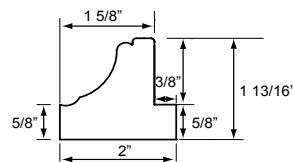
Deco Sill Frame
DSO



Deco Frame
DFO

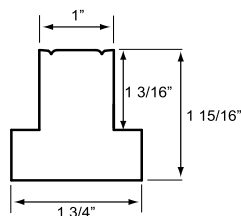


L-FRAME
LFI/LFO

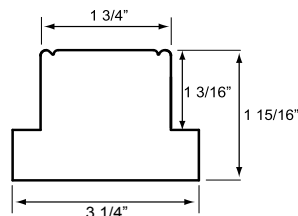


2" Deco FRAME
D2O

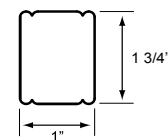
Others



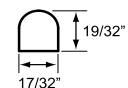
T-POST



LARGE T-POST



BUILD OUT
(1/4" min)

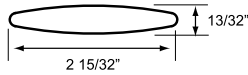


TILT ROD

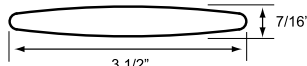
* Surcharge refer to order reference chart

Lexwood Components

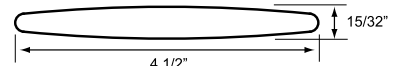
Louvers



2.5 LOUVER

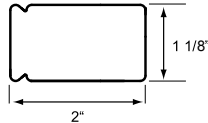


3.5 LOUVER

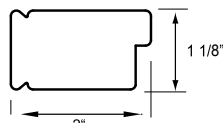


4.5 LOUVER

Stiles

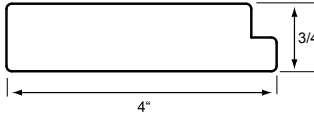


STILE



RABBETED STILE

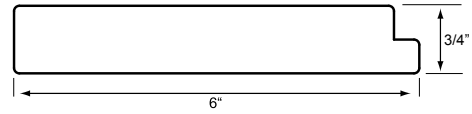
Rails



4" RAIL

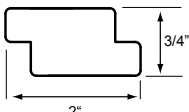


5" RAIL

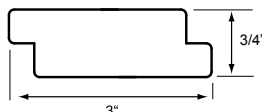


6" RAIL

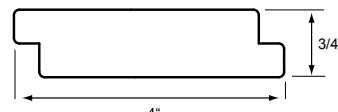
Divider Rails



2" DIVIDER RAIL

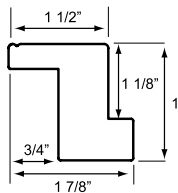


3" DIVIDER RAIL

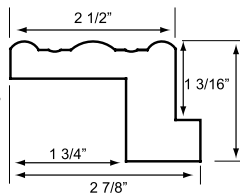


4" DIVIDER RAIL

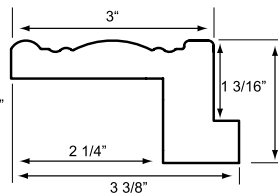
Frames



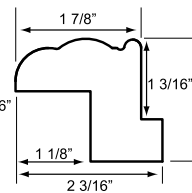
**SINGLE BEADED Z-FRAME
SBZ**



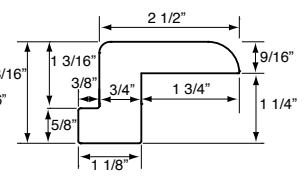
**MEDIUM Z-FRAME
MDZ**



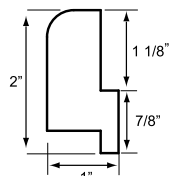
**LARGE Z-FRAME
LGZ**



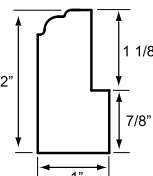
**MALIBU Z-FRAME
MAZ**



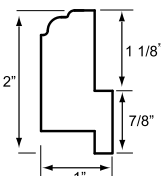
**2" BULLNOSE FLAT Z-FRAME
2FZ**



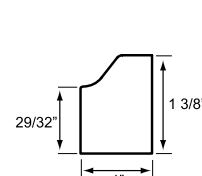
**CHICAGO Z-FRAME
CZF**



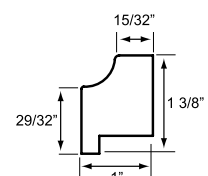
**ATLANTA FLAT
AFL**



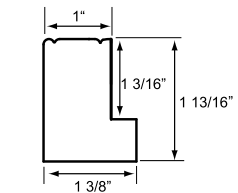
**ATLANTA Z-FRAME
AZF**



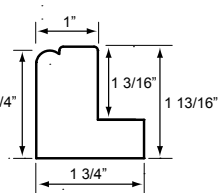
**HOWE CASE FLAT
HCF**



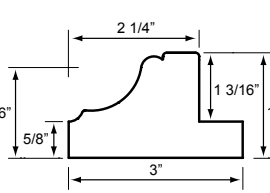
**HOWE CASE
HCA**



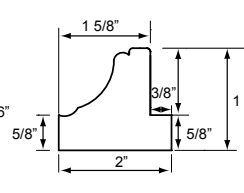
**L-FRAME
LFI/LFO**



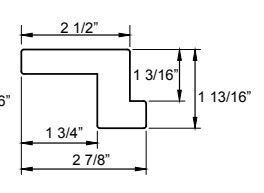
**Deco Sill Frame
DSO**



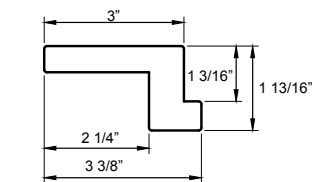
**Deco Frame
DFO**



**2" Deco FRAME
D2O**

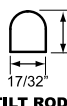


**Medium Flat Z Frame
MFZ**

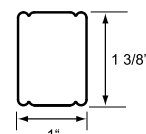


**Large Flat Z Frame
LFZ**

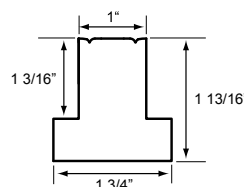
Others



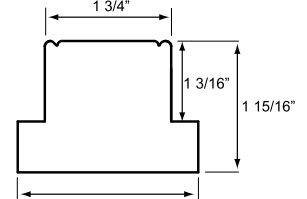
TILT ROD



**BUILD OUT
(1/4" min)**



T-POST



LARGE T-POST

Base

The base is used exclusively in fan top shutters. It refers to a durable aluminum (in Polycore) or wooden (in Lexwood) bottom frame that is used in wide openings to prevent panel sag. It is also commonly used to maintain a flush and uniform look when mounting a fan top shutter on top of a standard rectangular shutter.

Bi-fold Panels

Bi-fold panels are two panels that are hinged together and fold up adjacent to one another.

By-pass Panels

By-pass panels are two or more panels mounted on an overhead track system that slide past one another.

Build Out

A build out is a profile that is used to extend a frame away from the wall. Typically, it is used to move a shutter beyond an obstruction, such as protruding window sill, tiled wall, or crank handle. This profile is also used to project the shutter away from the window pane when taking louver clearance into account. The minimum thickness on both Lexwood and Polycore is 1/4".

Butt Hinge

A butt hinge is used to connect two or more panels together in a bi-fold design. Butt hinges are surface mounted on the back to join the panels.

Divider Rail

A divider rail is sometimes placed between the top and bottom rail to add structure and integrity to the panel. The divider rail also enables the louvers in the upper section to move independently from those in the lower section.

Fascia

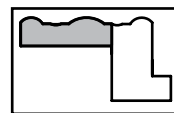
A decorative trim used to hide the track in a track system.

Filler Strip

A filler strip is a profile used to return a Z-frame back to the wall when it is necessary for the frame to not be fully recessed into the opening.

Flange

The flange is the part of the Z-frames that overlaps the wall.



Hanging Strip

A hanging strip is a simple rectangular frame piece that is typically mounted to a window opening to support the hanging of panels.

Hidden Tilt

The term Hidden Tilt refers to a hidden aluminum rod along the back of a shutter that connects and coordinates the movements of the louvers. With this design, there is no need for a tilt rod. This gives the front of the shutter a clean look. The shutters can still be easily opened by rotating an individual louver.

Hinges

Hinges are metal mechanisms that are attached to the stile and connect the panel to the frame. Hinges enable the panel to open and close.

Hub

The hub is responsible for giving fan top shutters their unique shape and look. It is a circular piece of material located in the center of the shutter. The louvers connect from the hub directly to the frame, creating a sunburst effect.

Louvers

Louvers are the panel components that rotate to offer control over the light and view.

N. W. F. (Net With Frame)

With this method of taking dimensions the measurements correspond to the finished size of the shutter, including the frame measured from the front of the shutter.

Net Panel

This refers to the exact size of the panel(s). No deductions are taken for hinges or clearances, even in multiple panel units, when specifying net panel. On Polycore panels the stile cap is NOT included in the height.

Opening Size

With this method of taking dimensions, the measurements correspond to the size of the window opening.

Shutter Frame

The shutter frame is a profile used to frame the shutter panels. Frames provide a square and even mounting structure for the panels, can compensate for an out of square openings, offer superb light blockage, and add a decorative trim to the window opening.

Split Rod

This refers to a divided tilt rod. Instead of one continuous tilt rod, the rod is split so that sections of louvers can operate independently of each other. This achieves the same purpose of a divider rail, without the insertion of the divider rail. Please be advised, in this application, for both regular and hidden tilt rod shutters, the tilt rod/hidden tilt on the upper tier and bottom tier might rub each other only when louvers are tilted at certain angles. Sunland Shutters does not hold liability for any dissatisfaction on louver operation and parts damage in this application.

Stiles

Stiles are the vertical side pieces of a panel that are secured to the horizontal rails. The stiles hold the louvers into place and keep them evenly spaced for proper operation.

T-Post

The T-post is a vertical component that is inserted into a shutter frame to separate the individual panels and also add structural support. It is required once a shutter surpasses Sunland's maximum width (see p.12) , though it can also be used for decorative purposes or to cover a window mullion.

Tilt Rod

A tilt rod is located in the center of the panel and coordinates the movement of the louvers by connecting them to one another. When opening the louvers, pull down on a louver but do not pull on the tilt rod.

Top and Bottom Rails

The rails are the horizontal components of a shutter panel assembly. They are attached to the vertical stiles and add structure to the panel. Typically, top and bottom rails will have equal heights. However, rail height can vary depending on the panel height.

Overview of Shutter Options

Component	Polycore	Lexwood
Louver	2 1/2" 3 1/2" 4 1/2"	2 1/2" 3 1/2" 4 1/2"
Color	Bright White Dull White Ultra White Off White Pearl White	Advantage: 20 Standard Whites Premium: 20 Standard Stains (Refer to Lexwood Color Deck)
Hinge	Bright White Dull White Off White Bright Brass Antique Brass Nickel *Stainless Steel Oil Bronze	Bright White Dull White Off White Bright Brass Antique Brass Nickel *Stainless Steel Oil Bronze
Frame	**Large Z-frame Medium Z-frame Malibu Z-frame Medium Square Flat Z-Frame 2" Bullnose Flat z-Frame **L-frame Deco Frame Deco Sill Frame	**Large Z-frame Medium Z-frame Single Beaded Z-frame Malibu Z-frame **L-frame Chicago Z-frame Atlanta Z-frame Atlanta Flat Howe Case Flat Howe Case Deco Frame Deco Sill Frame 2" Deco Frame 2" Bullnose Flat Z-Frame
System	Standard Shutter Specialty Track System	Standard Shutter Specialty Track System

*With Surcharge

** Refer to component diagrams for slight dimension differences that exist in some products.

Panel Size Limitations

A shutter panel is a fully assembled shutter that does not have a frame attached. Panels are typically mounted with a frame but can also be mounted independently.

Maximum & Minimum Panel Size

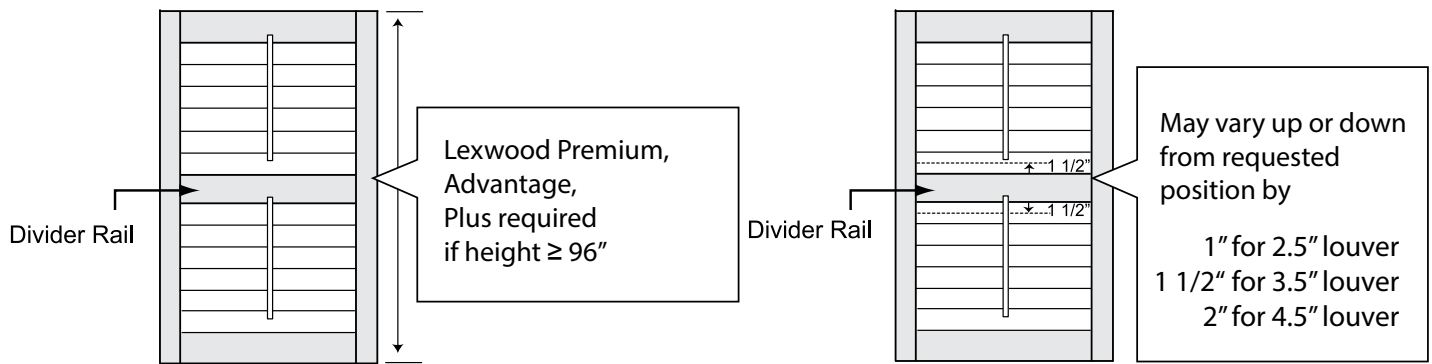
	Louver Size	PolyCORE®	LexWOOD®	
			Premium	Advantage / Plus
Maximum Panel Width	N/A	36"	36"	36"
Maximum Panel Height	N/A	144"	120"	144"
Minimum Panel Width	N/A	7"	7"	7"
Minimum Panel Height with Two Louvers	2.5"	9"	9"	9"
	3.5"	11"	11"	11"
	4.5"	13"	13"	13"

PANEL HEIGHT	HINGE QUANTITY
UNDER 48"	2
48"-72"	3
72"-96"	4
OVER 96"	5

Divider Rail Requirements & Limitations

Divider rails provide structural integrity to a shutter and also divide the top louvers from bottom louvers. Sunland shutters can build Polycore, Lexwood Premium, Lexwood Advantage and Lexwood Plus shutters up to 96" in height without a divider rail, but we recommend a divider rail for shutters over 72" in height.

We require a waiver against sagging for shutter panels that are both over 32" in width and 72" in height or larger. Split rods are not considered as a divider rail. Please be advised, with the application of split tilt, for both regular and hidden tilt rod shutters, the tilt rod/hidden tilt on the upper tier and bottom tier might rub each other only when louvers are tilted at certain angles. Sunland Shutters does not hold liability for any dissatisfaction on louver operation and parts damage in this application.



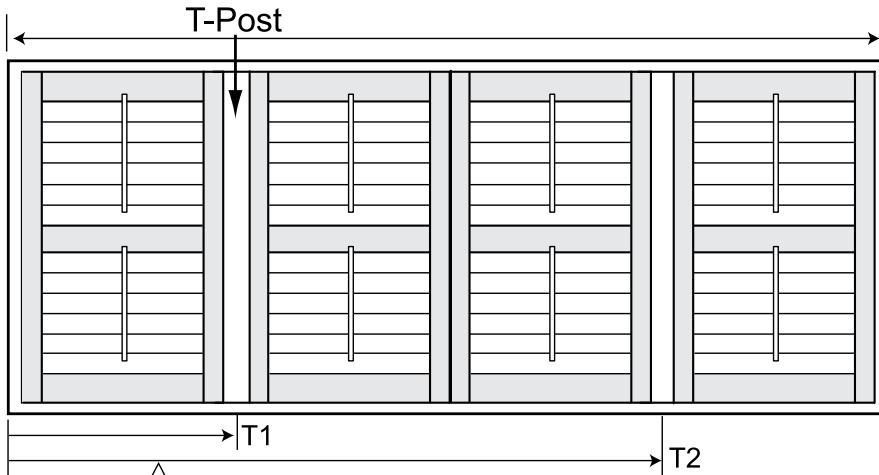
(The customer will be informed if the difference is over 1")

Requirements & Limitations

T-Post Requirements & Limitations

T-Post are vertical frame members that divide the shutter unit into multiple sections.

T-Posts are required for total panel width greater than 84” for Polycore, 96” for Lexwood Advantage and Lexwood Plus.



T-Post waiver is required with limitations below:

Product	Panel Width	Sq-ft Limitation
<i>Poly</i> CORE®	> 84”	≤ 44 sq-ft
<i>Lex</i> WOOD®	> 96”	≤ 68 sq-ft

Please provide T-Post location from left to right.
 ex:T1 at 24”(from left of the opening to center of the first T-Post)
 T2 at 64”(from left of the opening to center of the second of the T-Post)

If not specified, T-Posts will be placed to divide shutter unit equally

T-Posts Size

T-Posts have 1” face, although on panels greater than 24” in width or 60” in length, a large T-Post will be used with a 1 3/4” face for greater stability.

When a fax order has mixed T-Post, we will default all openings to Large T-Post for consistency.

T-Post SIZE		PANEL WIDTH	
		less than 24”	over 24”
PANEL HEIGHT	less than 60”	1”	1 3/4”
	over 60”	1 3/4”	1 3/4”

3-Sided Shutter Limitation

We do not recommend a 3-sided shutter to be installed on a window, especially a sliding door, at the size of 66” x 78” or larger. To avoid sagging issue and /or structure failure, we highly recommend using the track system, either a bi-pass with track, a bi-fold with track, or add at least one large T-post and hinge panels to the T-post.

If you insist to order and install a 3-sided shutter beyond above limitation, we will send you a recommendation waiver and the warranty will be waived on this shutter.