



Wood Shutters (Painted & Stained)

Product & Technical Specification 2022

For Shutters sold from 25th March 2022

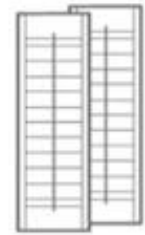
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Our Styles

Full Height

Our most popular shutter which offers endless variations. Choose between 4 slat sizes, 3 materials, 4 control rod options and 28 colours. These shutters can be supplied with or without a dividing a mid-rail. Mid-rails provide added strength to taller panels and give enhanced flexibility in how you may control light and privacy (by adjusting the slats above the mid-rail independently to the slats below the mid-rail). It is also possible to request a break in some control rod options (concealed & hidden rods) This can offer that same flexibility without having the need for a mid-rail in the panel.

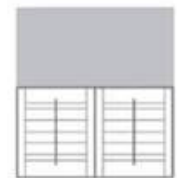


Whatever you decide please note that a full height panel will always open and close as one panel.

Full height is our best-selling style.

Café

Ideal for ground level windows or town houses. Café style leaves the top part of the window un-shuttered, using shutters only on the bottom part of the window. The panels often cover halfway up but they can be made to go up to any suitable position on the window. This style allows maximum light into the room yet provides privacy. However, consideration should be given to the function of the room. Bedrooms for example may need a curtain or blind to compliment café style shutters.



Tier on Tier

Two sets of shutter panels installed within the same frame, one set above the other. The top and bottom set open independently and this allows the greatest flexibility with controlling light and privacy. Tier on Tier shutters are generally suited to tall and narrower windows (think of a stable door). The split between tiers is generally requested in line with the top of a horizontal glazing bar present on the window. This style is very well suited to tall Victorian bay windows. + 10% for Tier on Tier Shutters



Our Ranges

Hardwood

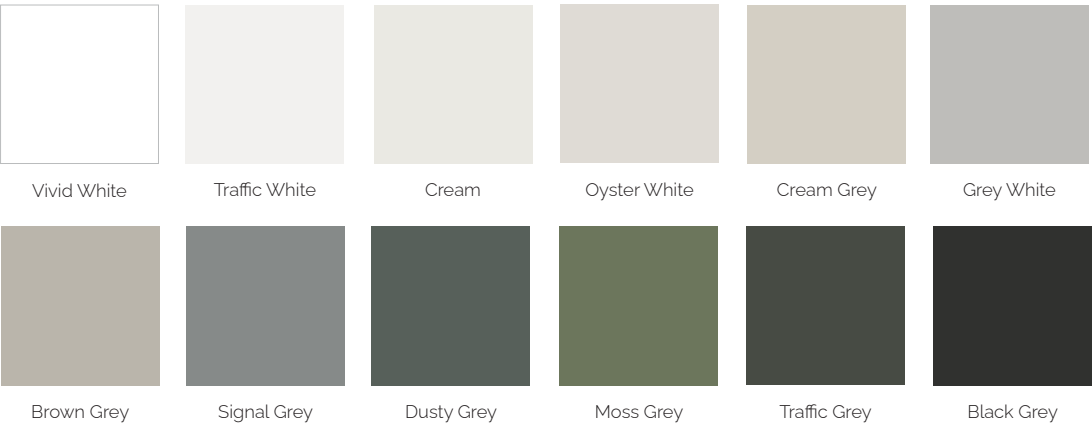
Paulownia wood has a fine and knot free grain which makes it the perfect hardwood for painting or staining. This hardwood shutter offers our full range of options – 13 paints, 11 wood stains and 4 limewash finishes. The Limewash finish clearly shows the woods grain through the paint and this range could be described as having quite a nautical/beach vibe. If your décor is rustic or shabby chic or you like a driftwood appearance then this could be the shutter for you. Visit our samples page to request a Limewash sample.

Although it's a hardwood Paulownia is approx. 1/3 lighter in weight when compared to other hardwoods. This makes it an excellent choice for Tier on Tier shutters or wider openings.

It's great for the environment too. A deep-rooted tree with a well-developed root system, it will yield one cubic meter of hardwood in 8 years, after which a new stem will shoot. A single plantation can therefore be harvested several times, providing a sustainable, renewable source of timber. Whilst the timber is light, its strong and will not crack or split when nails or screws are used.

Shutter Colour Options

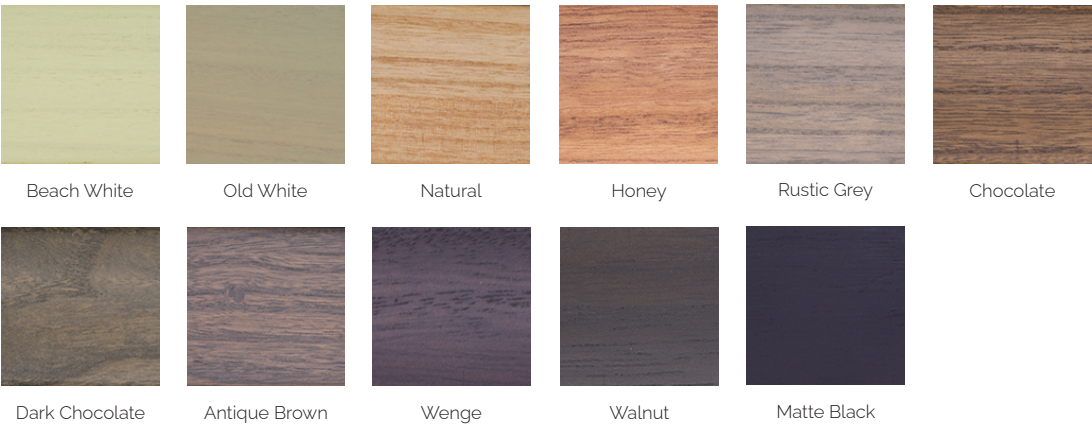
Paints



Limewash



Stains



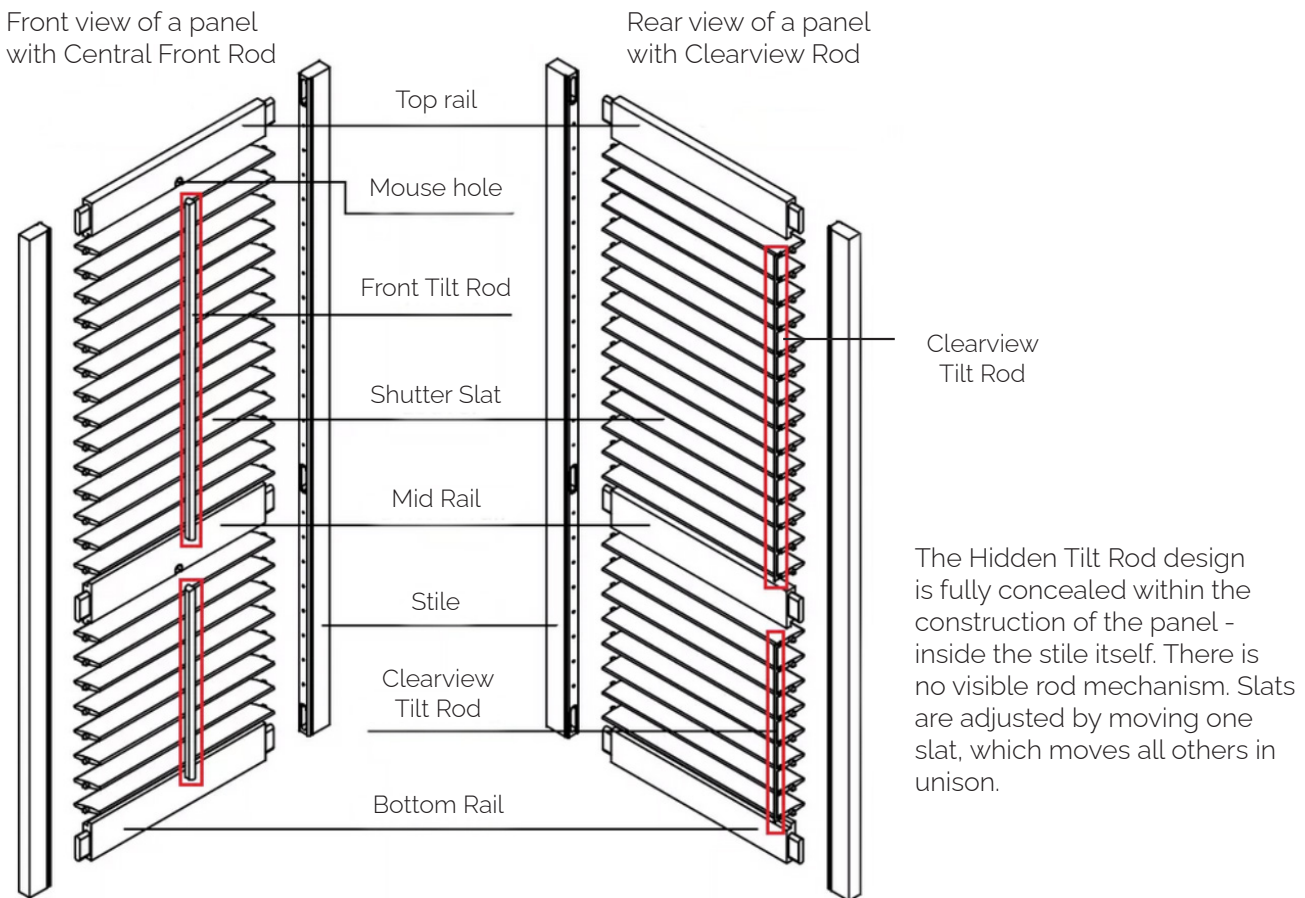
Product Options

Painted Shutters	Stained Shutters	Limewash Shutters
Vivid White TS05	Beach White 0412	Limewash - White Grained TS40
Traffic White 9016	Old White 0411	Limewash - Fern TS30
Cream 9001	Natural 0414	Limewash - Branch TS31
Oyster White 1013	Honey 0415	Limewash - Bark TS32
Grey White 0451	Rustic Grey 0418	
Cream Grey 0452	Chocolate 0416	
Brown Grey 0453	Dark Chocolate 0417	
Signal Grey 7004	Antique Brown 0419	
Dusty Grey 7037	Wenge 0421	
Moss Grey 7003	Walnut 0420	
Traffic Grey 7043	Matte Black 0413	
Black Grey 7021		
Vivid White Hinge	Vivid White Hinge	Vivid White Hinge
Natural White Hinge	Natural White Hinge	Natural White Hinge
Off White Hinge	Off White Hinge	Off White Hinge
Black Hinge	Black Hinge	Black Hinge
Rub Bronze Hinge	Rub Bronze Hinge	Rub Bronze Hinge
Brass Hinge	Brass Hinge	Brass Hinge
Antique Brass Hinge	Antique Brass Hinge	Antique Brass Hinge
Stainless Steel Hinge	Stainless Steel Hinge	Stainless Steel Hinge
Slat Sizes 64mm 76mm 89mm 114mm	Slat Sizes 64mm 76mm 89mm 114mm	Slat Sizes 64mm 76mm 89mm 114mm
Café Full Height Tier on Tier	Café Full Height Tier on Tier	Café Full Height Tier on Tier
Control Rod Options Central / Off set Rod Clearview / Hidden Rod	Control Rod Options Central / Off set Rod Clearview / Hidden Rod	Control Rod Options Central / Off set Rod Clearview / Hidden Rod

Note: Each 4 digit colour code is for manufacturing purposes. These codes are not representative of Ral or other retail paint brands.

Shutter Glossary

Anatomy of a Shutter



Top and Bottom rails help to construct the panel.

When slats are fully closed up, the Front Tilt Rod sits inside the Mouse hole.

The Front Tilt Rod connects all slats to allow them to close together. Moving the Front tilt will operate slats.

Shutter Slats come in 4 sizes. 64mm, 76mm, 89mm, 114mm.

A Mid Rail will add strength to taller panels. They offer flexibility on how the slats on top can be moved separately from the slats on the bottom.

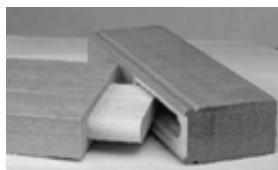
The vertical rails on either side are called Stiles. Along with the top and bottom rails, they form the structure of the panel.

A Clearview Tilt Rod is a thin metal bar on the back of the panel. It connects all slats to allow them to close together. This option allows a more open view through the slats. From the front of panel, move any slat to operate all slats.

Hidden Tilt Rod - nothing visibly connects the slats. Tilt any slat and all slats move together.

Shutter Glossary

Panel Structure



Mortise and tenon joints are used when fixing Top & Bottom rails to the Stiles. This produces an extremely strong construction.

Mid Rails

Mid rails can also be referred to as divider rails. They give strength to taller panels. The 1st mid rail is required when a panel is over 1800mm. A second mid rail is required when a panel is over 2400mm. Always measure from the bottom up to the midpoint of your preferred location. Occasionally your requested location may need to move + or - by approx. half of one slat size. Allowing this flexibility helps manufacturing ensure that the optimum numbers of slats can fit in the panel height and achieve the smallest size of top and bottom rails.

Below is the amount manufacturing could move the mid rail location. The size of the mid rail for 64mm, 89mm & 114mm slats is a standard size of 76mm "tall". The size of the mid rail for 76mm slat is a standard size of 63mm "tall".

Wood Shutters

Slat Size	MR can move by
64mm	+/- 25mm
76mm	+/- 32mm
89mm	+/- 38mm
114mm	+/- 50mm

Important: If you do not want your Mid rail location to move you must advise our team.

"Critical" ensures this will be the "Exact" Mid rail location. However, that could result in the panel receiving a bigger top or bottom rail which may aesthetically compromise your design. Please request a drawing before manufacture if in any doubt.

Note: Critical (Exact) mid rail requests are not an option for our Waterproof shutters range.

Top and Bottom Rails

When your shutters do not have a mid-rail, the top & bottom rails will always be the same size. The minimum size could be 76mm & the max size will be determined by your slat size.

We will always work to ensure the right balance ensuring the best aesthetics whilst ensuring structural integrity.

Wood Shutters

64mm slat – max rail size is 127mm

76mm slat – max rail size is 140mm

89mm slat – max rail size is 153mm

114mm slat – max rail size is 178mm

Shutters **with a Mid Rail** could mean the Top & Bottom Rails are not always supplied the same size. The min size could be 76mm & max size will be determined by your slat size

Wood Shutters

64mm slat – max rail size is 140mm

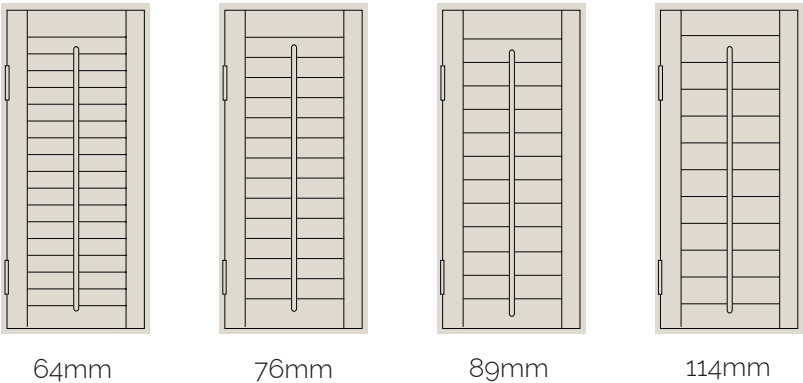
76mm slat – max rail size is 153mm

89mm slat – max rail size is 178mm

114mm slat – max rail size is 191mm

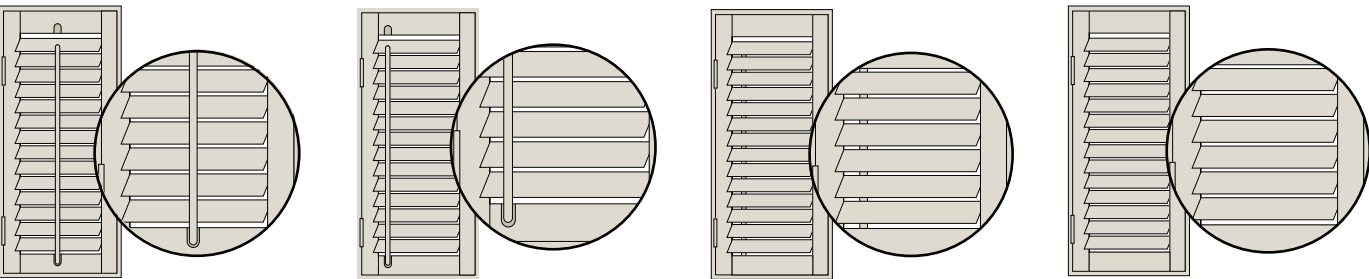
Shutter Glossary

Slat Sizes



Your choice of slat will be dependent upon the look you are hoping to achieve. Generally, a small slat offers a more traditional look, whereas a bigger slat will offer a more contemporary look.

Tilt Rods



Central Front Tilt Rod

The front tilt rod is the vertical piece of wood which links the shutter slats together and allows all slats to open and close in unison.

A front tilt rod is normally located in the centre of the panel and perceived as the classic plantation shutter look.

Offset Tilt Rod

The offset tilt rod is the vertical piece of wood which links the shutter slats together and allows all slats to open and close in unison.

However, the offset position is 38mm from the edge of the slats on the hinged side of the panel.

+5% for this Rod Option

Clearview Tilt Rod

A Clearview tilt rod is the term given to shutters that have a discreet aluminium tilt rod hidden at the rear of the shutter panel.

To open and close the slats you simply adjust any one of the slats and all slats attached to that rod will open in unison. Please note there is no surcharge for the Clearview tilt.

Hidden (In Stile) Tilt Rod

The In Stile tilt rod is completely hidden within the panel's stile. To open and close slats simply adjust any one of the slats attached to the In-Stile mechanism and all slats open in unison.

+ 10% for this Rod Option

Clearview Split

Shutters taller than 1300mm without a mid-rail require a split in the Clearview tilt rod. You can request a split in a specific location. Always measure from the bottom up for the split location. If no location is requested then your order will automatically receive a split in the centre of the Clearview rod. Having a split in Clearview rods over 1300mm helps ensures good slat closure.



Paulownia with straight Clearview rod

Hidden (In Stile) Tilt Rod

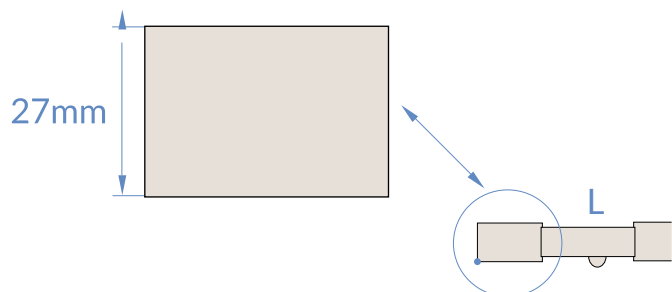
Slat Size	Qty of slats
64mm	20
76mm	17
89mm	14
114mm	11

Shutter Glossary

Stiles

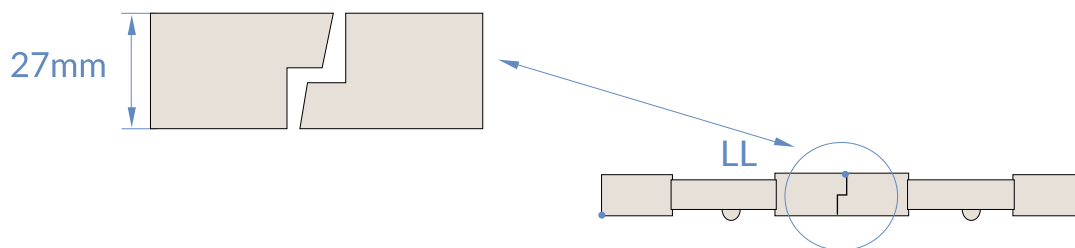
Butt Stile

Single panels always receive a butt stile on both sides of the panel. When more than 1 panel, the side of the panel that is hinged onto the frame will always have a butt stile.



Rabbet Stile

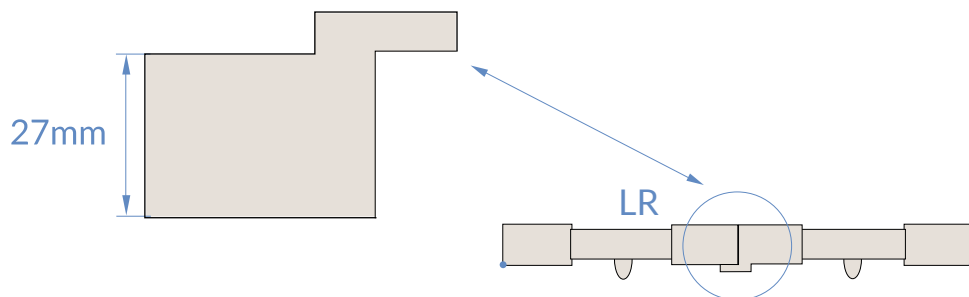
All panels (Bi-fold or Tri-fold) receive rebated stiles where there are hinges. The rebate design helps to reduce the light gap in between panels.



Astragal Stile

All meeting panels receive an Astragal on the right opening panel as standard. This covers any light gap between meeting L/R panels. You can advise our team if you prefer to have the Astragal on the left opening panel.

Where possible, when a panel configuration has an uneven number of panels (LLR) manufacturing will supply a second Astragal to offer symmetry to the design. However on some configurations an Astragal could restrict the panels folding so a rebated stile will be supplied.



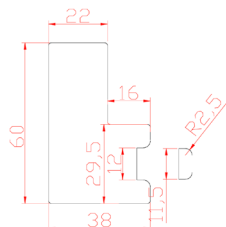
Frame Options

Wood

Inside Mount -

Templates in measure guide

Frame as shown in shop



Plain L60mm

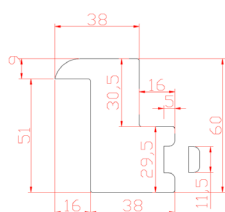
Technical Drawing



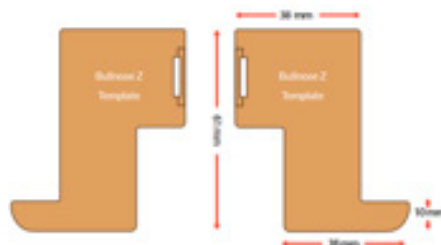
Plain L60mm



Plain L60mm



Bullnose Z Frame

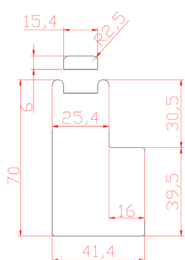


Bullnose Z Frame



Bullnose Z Frame

Outside Mount -



Vintage L70mm

Technical Drawing



Vintage L70mm
with Build outs



Vintage L70mm

Top Tip: Vintage L70mm can be supplied with a **frame build out** to allow you achieve L80mm, L90mm, L100 mm deep frame. Please add the request for a frame build out into the **special notes** in your order and advise our team on the "checking your order" phone call..

Panel Configuration

When ordering, always input your panel requirements from left to right e.g. LLRR

T Posts

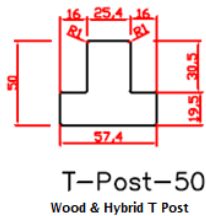
Larger windows can be divided into segments using T posts. Panels can be hinged off a T post or multiple T posts.

Always measure from left to right and your dimension should be inclusive of where your frame will be on the left side.

For 1 vertical T post - measure from left to right to the required location of a T post - an example layout would be LRTLRL.

For a 2nd vertical T post - measure again from the left to the required location of the 2nd T post. e.g. LTLRTR.

For a horizontal T post - measure from the bottom up to the required location of the horizontal T post.



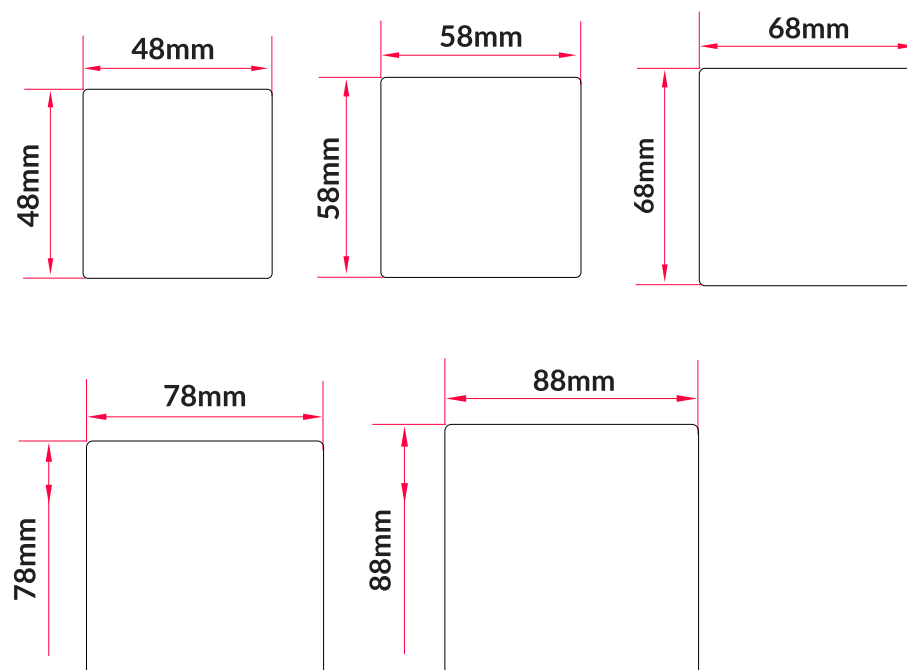
Bay Windows

Individual Frames

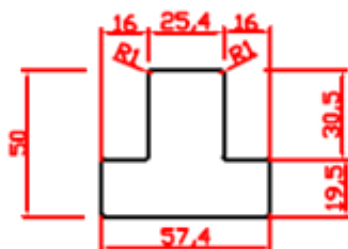
Angled Bay windows can be fitted with individual frames.

Box Bay windows can be fitted with individual frames and square corner posts.

Posts are available at 48mmx48mm, 58mmx58mm, 68mmx68mm, 78mmx78mm or 88mmx88mm



Product Limitations

Paulownia Wood - Panel size only - Does not include frame						
Shutter Style	Width				Height	
	Min	Max				
			Single Hung	Bi-Fold	Tri-Fold(3)	Min
64mm 76mm 89mm 114mm	200mm	890mm	660mm	450mm	250mm	2950mm
Solid Panels (shaker /raised)	200mm	660mm	660mm	450mm	250mm	2950mm
Special Shapes	200mm	890mm	660mm	450mm	250mm	2950mm
Control Rod - Splits						
Control split required in Clearview Rod & Hidden Rod if panel over 1300mm Maximum Slats possible to connect together 64mm = 20 slats 76mm = 17 slats 89mm = 16 slats 114mm = 11 slats						
Mid Rails						
Panel over 1800mm - 1st Mid Rail Required Panle over 2400mm - 2nd Mid Rail Required Mid Rail Size is always 76mm				Mid Rail location could move up or down 64mm slat +/- 25mm 76mm slat +/- 31mm 89mm slat +/- 38mm 114mm slat +/- 50mm Select EXACT Mid Rail location and the position will not move		
Maximum number of panels hinged from one side of frame		 <p>T-Post-50</p> <p>T-Post within frame is available upon request</p>				
Style	Wood					
Full Height	3					
Café	3					
Tier on Tier	3					
Number of Hinges per Panel						
Up to - 1300mm	2 Hinges					
1300mm -1800mm	3 Hinges					
1800mm - 2500mm	4 Hinges					
2500mm - 3000mm	5 Hinges					

Nuts & Bolts

Hinges



Paint Options	Best Hinge Options				
Vivid White	Natural White/ Vivid White	Brass	Antique Brass	Rub Bronze	Stainless Steel
Traffic White	Natural White	Brass	Antique Brass	Rub Bronze	Stainless Steel
Cream	Off White	Brass	Antique Brass	Rub Bronze	Stainless Steel
Oyster White	Off White	Brass	Antique Brass	Rub Bronze	Stainless Steel
Cream Grey		Brass	Antique Brass	Rub Bronze	Stainless Steel
Grey White		Brass	Antique Brass	Rub Bronze	Stainless Steel
Brown Grey		Brass	Antique Brass	Rub Bronze	Stainless Steel
Signal Grey		Brass	Antique Brass	Rub Bronze	Stainless Steel
Dusty Grey		Brass	Antique Brass	Rub Bronze	Stainless Steel
Moss Grey		Brass	Antique Brass	Rub Bronze	Stainless Steel
Traffic Grey		Brass	Antique Brass	Rub Bronze	Stainless Steel
Black	Black	Brass	Antique Brass	Rub Bronze	Stainless Steel

Rule for Hinges

- Panel ≤ 1300mm = 2 hinges
- Panel 1300mm – 1800mm = 3 Hinges
- Panel 1800mm – 2500mm = 4 Hinges
- Panel 2500mm – 3000mm = 5 Hinges



Hinge Placement

From the end of a panel to the middle of the 1st hinge will always be 138mm

Slimline Hinge



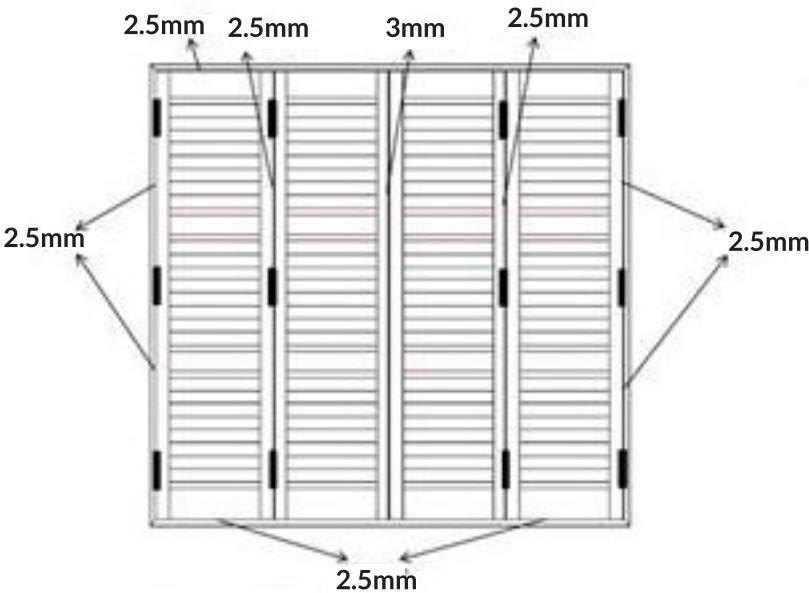
Slimline hinges are used between rebated stiles. These are available in all hinge colours.

Flat Hinge



Used on Butt and Astragal Stiles

Gaps for Hinges & Clearance



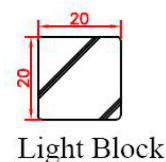
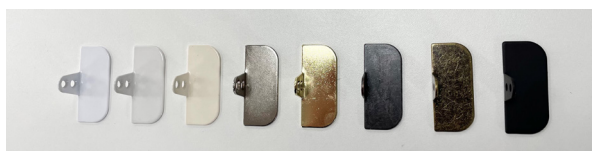
Nuts & Bolts

Magnets

Shutters are supplied with small round magnets which are pre inserted into the back of the panel's stile. Frames receive a round magnet strike plate which is pre fitted to the frame. The colour of the magnet plate will match the colour of the hinge.



Orders with a 3 sided frame will receive a separate light stop with magnet plates attached. These orders will also receive striker magnet plates in the hardware box. The fitter can choose to use either option if necessary during the installation.



Knobs

Solid shutters will have 2 x small chrome knobs supplied per line. These will not be pre fitted to the panels but supplied in the hardware box.



Clearview Tilt Rod



The straight Clearview Rod is available for all ranges.

Hidden Rod- Instile



Available for all ranges.

Nuts & Bolts

Hoffman Key



There are 2 x sizes, 27mm & 36mm. These plastic keys are pre inserted at manufacturing into both ends of the top and bottom frame pieces. This allows for easy assembly of the entire shutter frame.

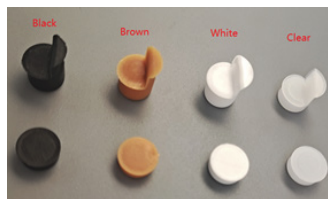
Hinge Packer



The hardware box will contain 1 packer per hinge as per the total order.

Tension Screw Access

Panels are supplied with the tension screw holes on the side of the panels. These holes allow access to adjust the slat tension. Insert a cross head screwdriver into both tension holes either side of the panel and twist in opposite directions.



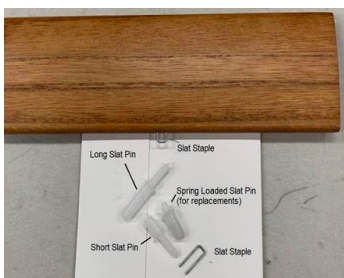
It is standard practice to leave these holes open. If required Tension holes can be covered using the co-ordinating plastic caps provided in hardware box. Caps are shaped for Butt and Rebated holes.

Spare Slats & Fixing

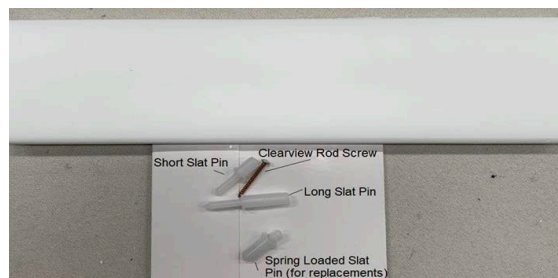
There is 1 x spare slat per line supplied in the frame box.

Please see images below to understand the type of fixings that are supplied with spare slats. Replacing slats is very straight forward and our team can mail you a short video to explain how it is done.

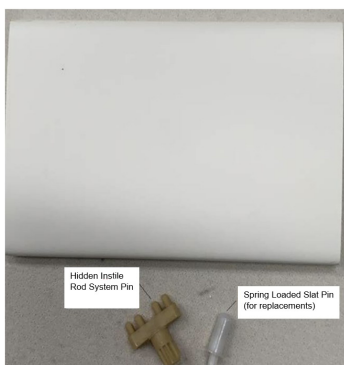
Central & Off-set Tilt Rod



Clearview Rod



Hidden Instile Rod



Spare slats will be numbered to show which line item the slat is for.



Nuts & Bolts

Screws



Hinge screws will complement the hinge colour.

Frame screws are **60mm** & are black screws.

Frame Build Out



A frame **build out** can be requested when you need a deeper frame. You can print out frame templates with your preferred build out size from our measure guides. These templates can be printed out to scale and used during your survey. When placing your order please add a note in the special notes section to confirm the build out size you require on your chosen frame.

All details will be fully discussed with you when you receive our 'Checking your Order' phone call.

Any request for a frame build out will be noted in your final order details for you to accept. Should you need support with frames please feel free to speak to our expert team before you start to survey or place your order.

Max Build out is 50mm

Frame Holes

Manufacturing will supply fixing holes (inside insert strip frames) if your order selects (yes) for pre-drilled holes. Frame holes are supplied every 600mm. The first hole starts @ 100mm from the inside tip of the end of the frame.

Frame ID Stamps



The frame ID will show either T, B, L, R to indicate the side of frame. It also shows the orders line number.

T Posts ID Stamp



There will be a stamp to show the T post location for example this is T2 – T post location 2

How Panels Are Numbered

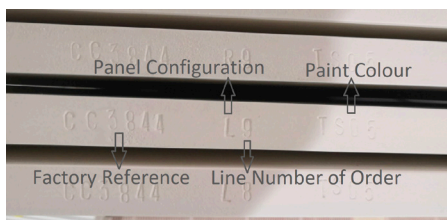
For Full Height and Cafe style shutters Panels are numbered as shown			
1	2	3	4
For Tier on Tier shutters Panels are numbered as shown			
1	2	3	4
5	6	7	8

Panels are numbered 1,2,3 etc, working from left to right.

For tier on tier, the same applies with the numbers 'wrapping' down to the lower tier.

Panel Identification

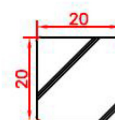
Panels will be stamped on the bottom except for tier on tier orders. For tier on tier, ID stamps are found on the top of the top tier panel and the bottom of the lower tier panels. Stained Shutters will not have the colour code stamped into the panel.



The In's & Outs of Our Shutters

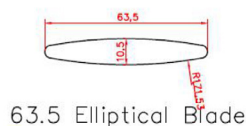
Light Block

You may request this for shutters where you need a light block and magnet plates to work with a 3 sided frame. It is a separate component piece which is generally screwed to the windowsill or floor.

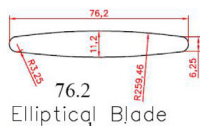


Light Block

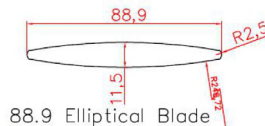
Wood Slat Sizes



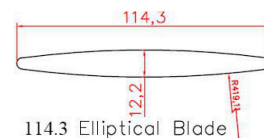
63.5 Elliptical Blade



76.2 Elliptical Blade



88.9 Elliptical Blade



114.3 Elliptical Blade

Our paint

- We have moved to a NC (Nitro Cellulose) paint as an increasing number of our customers have expressed a preference for this paint type.
- All components receive 3 thin layers of white Gesso to prepare the surface for painting, then 1 layer of water based paint, 1 layer of a tough PU primer, 1 layer of NC Base Paint, and then 1 layer of Final NC paint.

Our Paint Benefits

- NC dries much quicker vs PU
- This ensures manufacturing leads times can be fast, while not compromising quality (e.g. packing order with potentially wet paint spots)
- It meets our customers desire to be a more environmentally friendly paint finish to offer their customers
- Importantly, the environmental benefits offered by NC ensures our production can operate uninterrupted by strict Chinese Govt legislation to improve the environment

Touch up paint



One bottle of touch up paint with 2 swabs will be provided in the frame box of item 1 of the order.

The In's & Outs of Our Shutters

Box Labels and The Packing System

The label confirms the content via **Goods**.

The order number is now on **Top**

Order Number	
Client Reference:	
Dealer Name:	
Tag/Customer:	
Item Number:	1
Room:	LOUNGE
Goods:	LL
Box No:	1 / 5
Order No:	

Order Number	
Client Reference:	
Dealer Name:	
Tag/Customer:	
Item Number:	1
Room:	LOUNGE
Goods:	Frame
Box No:	5 / 5
Order No:	

Order Number	
Client Reference:	
Dealer Name:	
Tag/Customer:	
Item Number:	1
Room:	LOUNGE
Goods:	Frame T ₁ T ₂
Box No:	5 / 5
Order No:	

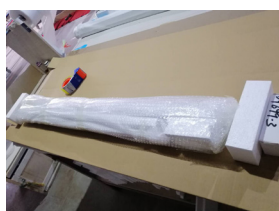
The panel box label will show the panel configuration of the panels inside the box via Goods.

The frame box label will have Frame in Goods.

If there are up to 2 T-posts in the shutter, these will be included in the frame box. It will have the T-posts numbers written next to Frame.

If there are over 2 T-posts in the shutter, these will be packaged in a separate box to the frame. Please be aware that the box will still state Frame under Goods. It will have the T-post numbers written next to frame.

Battens will be packaged with the corresponding frame for each line when the number of battens is small. If there are a lot of battens, these will be packaged separately in one box. Battens will be indicated on the label by having BA written in the Goods section.



All hardware will be in the accessories box. The label for accessories box location is clear.

Box 1/5 means this order should have 5 boxes in total and this label is for box number 1.

How to Measure

Visit <https://www.diyshutters.co.uk/diy-guides/measuring-for-shutters> to select & print the required measure guide and our frame templates.

How to Fit

Visit <https://www.diyshutters.co.uk/diy-guides/installing-shutters> to select & print our installation guide.

Key Facts Regarding Shutters

Once surveyed, changes must not be made to the window or surrounding area. Changes could affect the fitting of bespoke shutters (e.g. wall plaster, new tap or windowsill or window handles).

Not all windows are square, so you may need to use decorators caulk or trim to ensure shutters fit 100% level in some openings.

There may be obstructions like skirting boards or dado rails which will need to be altered.

Shutters are not a blackout product and there may be small light gaps around shutters, especially with 3-sided frame installations.

Café shutters cover the lower section of the window only & usually they are fitted with a 3-sided frame with no piece of frame on the top.

Full height shutters are best fitted with 4 sided frames. Panels can have a dividing rail inserted or a split in the Clearview or Hidden rod mechanism. All options will allow separate movement of slats on top and bottom. However, a full height panel will always move as one.

Tier on tier shutters need a 4- sided frame. Tier on tier means top and bottom panels are separate and can open and function independently from each other. This design is best suited to taller or narrow windows. Wider windows are often best fitted with full height shutter panels. We can supply T posts to support wider installations.

Inward opening windows require special consideration. Window functionality could be restricted after shutters are installed, this should be explained at the point of survey. We offer Vintage L frames which can help overcome such challenges.

Items which can restrict the shutter fitting should be removed prior to installation (e.g. BT boxes, alarm boxes, curtains and poles, large furniture)

Should you require assistance please do not hesitate to
contact our Customer Services team on 0800 074 5678 or
you can email hello@diyshutters.co.uk

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