BERMUDA TECHNICAL SPECIFICATIONS



2019 Version 1.5

TheShutterShop

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Section 4

1. BERMUDA INTRODUCTION

Aesthetics: Bermuda is an MDF shutter with ABS louvres which is painted so that it closely resembles the finish of a painted hardwood shutter. 22 contemporary colours are available in the range.

Hardwearing: Bermuda is coated in a paintable polypropylene sleeve which is very hardwearing and helps to protect the shutter from changes in ambient temperature and this reduces the likelihood of insitu moisture changes and the risk of warping and twisting.

Sustainability: The Shutter Shop's MDF is produced from managed plantation Radiata Pine forests that reach maturity in about 30 years. This MDF is viewed favourably as substitutes for tropical hardwoods which take close to 200 years to reach maturity. 70% of the MDF manufacturing energy requirements on site are for producing heat and as the plant generates almost all of its own heat requirement by burning wood residues this is very energy efficient. This is a form of bio fuel and is considered greenhouse gas neutral under the Kyoto protocol.

Frames: 26 different frames are available in this range.

Stiles: Please note the stiles are manufactured in a beaded and plain stile.

Louvres: Bermuda is available in 47mm, 63mm, 76mm 89mm, 114mm louvres. Due to the louvres being manufactured in ABS the panel weight of the shutter has been reduced. The means that single hung panels can now be up 915mm wide as of 63mm while multiple panels are available up to 610mm in width.

NB the number of panels that can be hinged together remains. Over and above the shutters must be tracked. Please see the panel limitations chart 2.

Colour palette: There are a total of 22 contemporary colours available and these can be viewed in the generic paint keyring.



PANEL SIZE LIMITATIONS

	Width			Height		
	Minimum	Maximum		Minimum	Maximum	Mid rail
		Single hung	Bi-fold hinged shut- ter/ Multi-fold with Top and Bottom track			Required if
47mm	152mm	610mm		250mm	3000mm	H>1981mm
63mm	152mm	915mm		250mm	3000mm	H>1981mm
76mm	152mm	915mm	610mm	250mm	3000mm	H>1981mm
89mm	152mm	915mm		250mm	3000mm	H>1981mm
114mm	152mm	915mm		250mm	3000mm	H>1981mm

SPECIFICATIONS

Material	MDF Panels with ABS Louvres
Panel Weight per sq. metre	6.24 - 8.5kg
Paint Colours	22
Stain Colours	×
Custom Colours available (solid colours only)	✓
Louvre sizes	47mm 63mm 76mm 89mm 114mm
Max single panel width	610mm : 47mm 915mm : REST
Max bi-fold panels width	610mm : ALL
Max number of panels hinged together	2
Max and min panel heights. (For panel height over 2500mm, it is suggested using 50.8mm or 57mm stile to aid structural integrity).	3000mm 250mm
Solid Panels available	×
Special shapes	×
Custom Bay Post angles	~
Stile Type	Beaded & Plain
Fixed Louvres	_



COLOURS

Please note. Colours may vary slightly between dye lots. Shutters for the same installation should be ordered together to avoid variations in colour. Colours may vary slightly from colour samples. For this reason, colour samples should be updated annually.

COLOUR OPTIONS

Colour ID	Colour Name	Default Hinge Colour	Optional Hinge Colour
001	Pure White	Pure White	1. Pure White
002	Extra White	White	2. White
003	Silk White	3500000	3. Pearl 4. Bisque
004	Bright White		5. Antique-Brass
006	Pearl	Pearl	6. Bright-Bass 7.Stainless
007	Ivory Lace		8. Black
009	Creamy	Bisque	 Nickle-Plated Brushed
011	Cameo		Nickle-Plated
012	Crisp Linen		
013	Bisque		
014	Alabaster		
016	Butter		
016	String		
030	Moondust		
032	Sea Mist	Nickel Plated	
048	Chai		
049	Stone Grey		
051	Brown Grey		
053	Clay		
066	Winchester White 2010	Pearl	0
072	Mattingley 267	NEST-L DISK	
080	Taupe Grey	Nickel Plated	

2. INSTALLATION STYLES



FULL HEIGHT

Shutter covering the full height of aperture.



TRACKED SHUTTERS

Shutters suspended from a top track hinged together in a bi-fold configuration to allow them to be folded back to the end of the track at 90° or 180°. Suitable for use with patio doors, wardrobes or as a room divider. May be specified and fitted with or without side frames.

By-Pass

Shutters suspended from a top track. Panels slide behind or in front of one another to open or close. Suitable for use with patio doors, room dividers and wardrobes. May be specified and fitted with or without side frames.

* Refer to the separate track specifications for further details.



CAFE STYLE

Shutter covering only the lower portion of aperture providing privacy and light control but leaving the top portion un-shuttered to maximise light, where privacy is not required.



ROOF SHUTTERS

Would not be supplied or covered under warranty.

Please refer to Fiji specifications for roof details.



In situations where shutters will be used for a door application which does not have support underneath the panels, the customer must inform us when placing the order.

		1
	64	
W(A)		A P

Panel Configuration

L, R, LR	LL, RR, LLRR	
Manufactured with warranty waived	Only available with a tracked installation. Not covered by warranty.	

TIER ON TIER

Shutter is split into two halves so the top and bottom panels can be independently operated / opened fully. The standard gap between top tier and bottom tier is 2.5mm. For multi-fold tier on tier shutters only 3 or less multifold panels are within warranty.

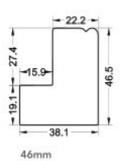
Please note:

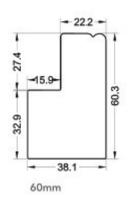
- The factory will add extra hinges to support the panels
- The factory will add a larger and stronger top and bottom rail. This will reduce the risk of panels sagging.

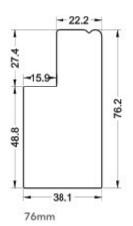


FRAMING STYLES

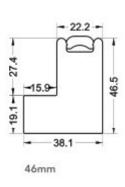
BEADED

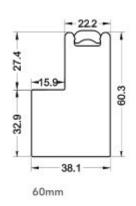


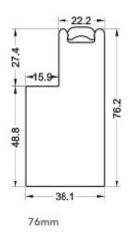




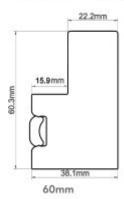
INSERT L



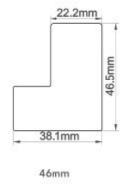




PLAIN DEEP L W/INSERT



PLAIN L FRAME

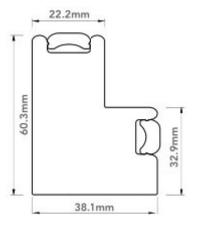


FRAMING STYLES

DOUBLE INSERT L FRAME



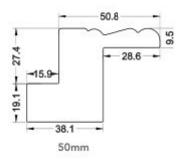
Double Insert L Frame 50mm



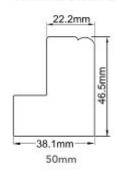
Double Insert L Frame 60mm

Note: No screw holes will be predrilled for Double Insert L Frame, but 76.2mm screws will be supplied loose in the hardware box.

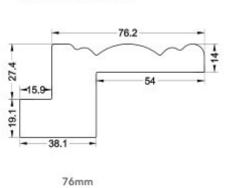
TIARA Z FRAME



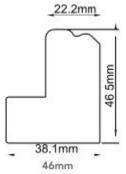
TIARA Z SILL PLATE



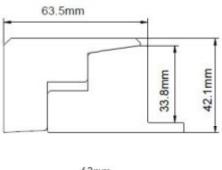
CROWN Z FRAME



CROWN Z SILL PLATE

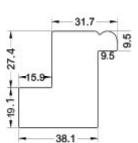


MISSION FRAME

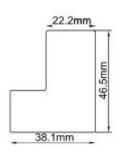


63mm

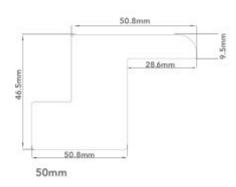
BEADED Z



BEADED Z SILL PLATE

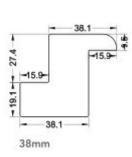


BULLNOSE Z

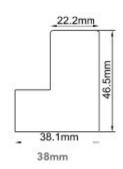


BULLNOSE Z

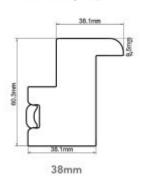
31mm



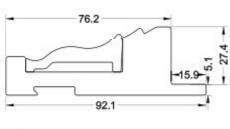
BULLNOSE Z SILL PLATE



BULLNOSE Z DEEP W/INSERT

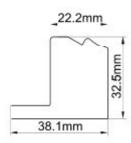


RIDGE DECO FRAME

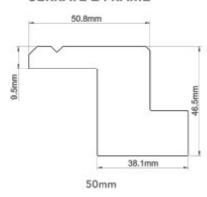


76mm

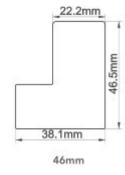
RIDGE DECO SILL PLATE







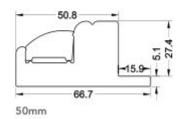
SERRATE Z SILL PLATE

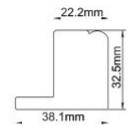


BERMUDA SPECIFICATIONS SECTION 3. FRAMING STYLES

CAMBER DECO FRAME

CAMBER DECO SILL PLATE

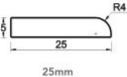




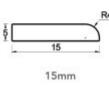
COVER STRIP*

COVER STRIP*

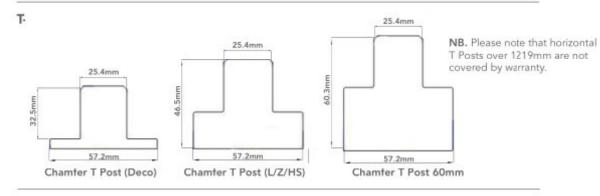
VINTAGE HANG STRIP



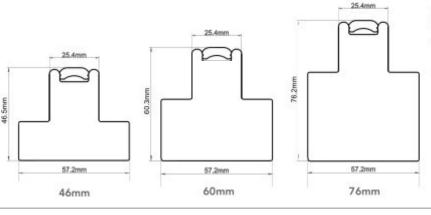








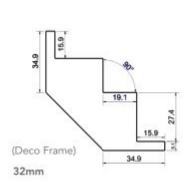
T-POST W/INSERT

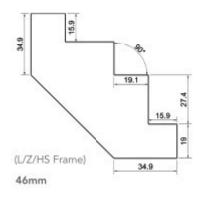


NB. Please note that horizontal T Posts over 1219mm are not covered by warranty.

Insert T-Posts are made of wood.

CORNER POST

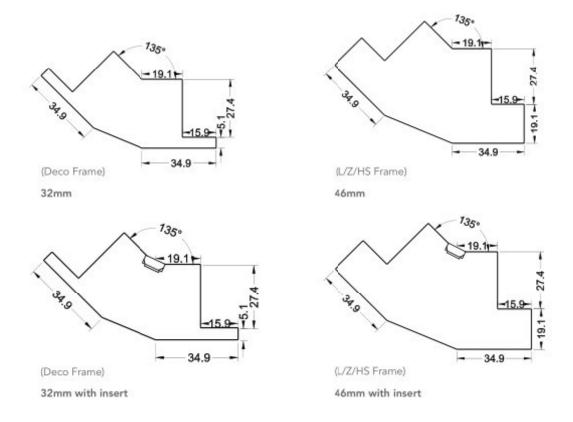




BAY POSTS

Additional custom angles are also available. Custom angle bay posts cannot have the insert strip.

135° angle



Frames split when the frames length exceed the below limitation.

When frame lengths (including shutter frames, batten, fascia, header and tracks for track system) exceed the below limitation, then the frames will be split as the below chart describes. Please review the chart for reference.

	Program	Frame Length (L) (mm)
Standard shipping	all programs	3630 <l≤7260 (2="" <br="" sections)="">L>7260 (3 sections)</l≤7260>
Airfreight	all programs	3048 <l≤6096 (2="" <br="" sections)="">6096<l≤9144 (3="" sections)<="" td=""></l≤9144></l≤6096>

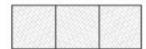
Standard sizes:

in all materials

40mm x 40mm

Battens can be butt-jointed as per the drawings below:





Battens and Panels identification: The order number will be stamped on the bottom of each panel and one end of each corresponding batten to identify which one belongs to which item.

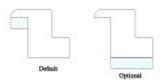
Coated with PP Made of Wood 2.5mm x 27mm 25mm x 30mm 25mm x 40mm 3mm x 15mm 3mm x 20mm 5mm x 38mm 3mm x 30mm 10mm x 38mm 15mm x 38mm 3mm x 60mm 5mm x 45mm 20mm x 38mm 5mm x 63.5mm 25mm x 38mm 30mm x 40mm 30mm x 38mm

For batten width less than or equal to 3mm, there will be no warranty if the batten depth is over 100mm; For batten width over 3mm, there will be no warranty if the batten depth is over 200mm.

35mm x 38mm 40mm x 38mm

Build-out (Extension)

- For L/Z/Deco/Hang Strip Frame including T-Post, we will pre-attach the build-out of which the thickness is less than 50.8mm (including 50.8mm) by default;
- For L/Z/Deco/Hang Strip Frame including T-Post, when build-out is over 50.8mm, we will supply build-out loose with holes pre-drilled; also note that for frame not able to pre-dril holes, such as Beaded L Frame, we will supply build-out loose without holes pre-drilled, either.
- For all frames, we will add build-out per the order form. E.g.,
 if the frame type is 76mm L Frame, and build-out is 10mm, we
 will use 76mm L Frame added with 10mm build-out instead
 of changing the frame type to 46.5mm L Frame added with
 39.7mm build-out. For bay/corner Post, we will supply buildout in every size pre-attached by default.
- Extension for Z Frame: If you want the timber to be added to bottom of Z frame like the drawing below on the right, please ALWAYS specify in the special note of the order form, "Add extension to light block section". The DEFAULT EXTENSION will be the left drawing.



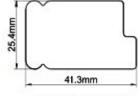
4. PANEL DETAILS

STILES

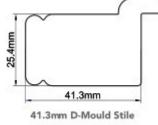


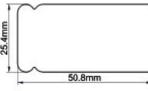


41.3mm Butt Stile

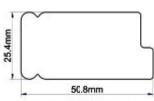


41.3mm Rebate Stile

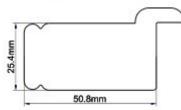




50.8mm Butt Stile



50.8mm Rebate Stile



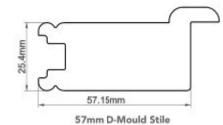
50.8mm D-Mould Stile



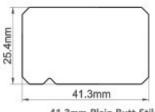
57mm Butt Stile



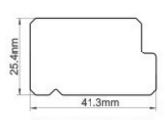
57mm Rebate Stile



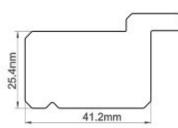
Plain



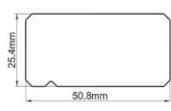
41.3mm Plain Butt Stile



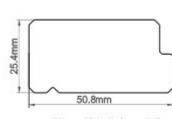
41.3mm Plain Rebate Stile



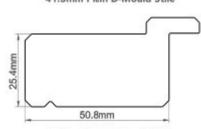
41.3mm Plain D-Mould Stile



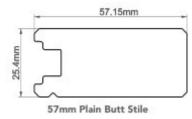
50mm Plain Butt Stile

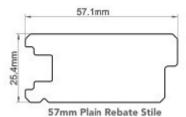


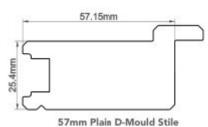
50mm Plain Rebate Stile



50mm Plain D-Mould Stile







RAILS

The factory will decide the size, unless otherwise specified in the notes section on order form. The top and bottom rail will be the same size if there is no divider rail. If you need different size rails, please specify.

We suggest ordering shutters for the same customer at the same time, so that the rail sizes will match.

Please note the standard top/bottom rail sizes should be within 69.85mm~165.1mm.

For regular shutters, the step for the rail size is 3.175mm.

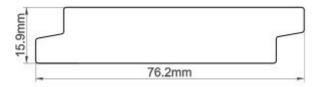
STANDARD MID-RAILS

The standard Mid-Rail size is 76,2mm high. Different mid-rail sizes are not available in Bermuda.

If the panel height is greater than 1981mm one or more mid-rails are required. If the height from the centre of the mid-rail to the top of the top rail or bottom of the bottom rail is 1981mm or more, then another mid-rail is required. Mid-rail positions should be specified at time of ordering. If the order specifies that a mid-rail is not required then all warranties on the order are automatically waived.



Divider rail: Standard divider rail is 76.2mm

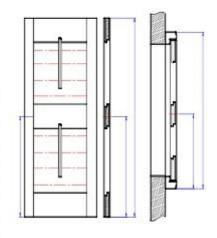


MID-RAIL continued

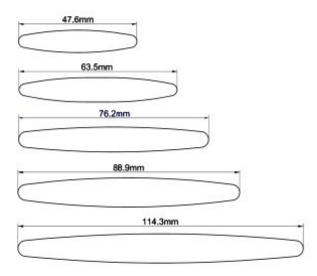
Specified rail position is taken from the base of the shutter set to the centre point of the rail, except for solid based which is from the bottom to the top of the

The centre rail can deviate by + or - by the amount of millimetres shown below. If the mid-rail is to be exact with no deviation then this must be noted on the order card under the notes when placing the order.

Louvre Size	Allowable +/- Deviation
47mm	19mm
64mm	25mm
76mm	31mm
89mm	38mm
114mm	51mm

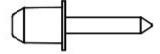


LOUVRES



LOUVRE PIN

Louvre pins are used to ensure louvre tension. In addition a tension screw is inserted into one louvre in the panel. This is the same for all louvre sizes. Access holes are drilled in the in the stile for each panel to allow the tightening or loosening of the tension screw, to adjust the louvre tension. Please note therefore additional holes will be visible in the stiles.



TILT RODS

Standard tilt rod



Louvre Size	Max Possible Louvres	Panel Height Range
63mm	24	1289 - 1385mm
76mm	19	1276 - 1372mm
84mm	16	1289 - 1385mm
114mm	12	1289 - 1385mm

Silent tilt rod

Silent Tilt rods are integrated into the stile and are not visible. Silent tilt rods are available in 63mm, 76mm, 89mm and 114mm louvres. The 47mm does not have this option.

The Silent Tilt rod will automatically be split into 2 parts when the number of louvres connected to the silent tilt rod exceeds the following limits shown in the table opposite.

If the louvre quantity exceeds the above limit, the gear tilt control will be equally split into halves. If the louvre quantity is odd the bottom section will have one more louvres than the top section. If the panel has a divider rail, and the louvre quantity above divider rail or below divider rail exceeds the above limit, split tilt rods are also required.

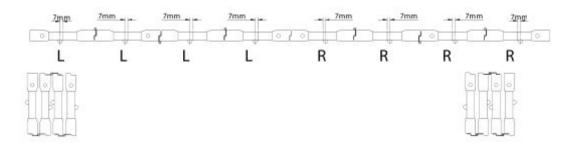
OFFSET TILT RODS

Offset tilt rods can be ordered. The standard offset is 25mm from the centre of the tilt rod to the end of louvre on hinge side. If a different offset is required please specify the position from the centre of the tilt rod to the end of the louvre on the hinge side in the short notes on the order form.

The centre of the tilt rod will be 25mm from louvre end on hinge side of the panel. For Fixed panels, the offset tilt rods will be positioned on the left side for all panels. For special shaped panels, the offset tilt rods will be on the higher side of the stile.

OFFSET TILT ROD FOR MULTI-FOLD SHUTTERS

Multi-fold panels will be made with the tilt rod offset from the centre to enable panels to be folded flat without tilt rods obstructing one another. The standard offset for the tilt rod is 7mm from the centre, i.e. tilt rod will be 7mm to the left of centre for left panels, and 7mm to the right of centre for right panels. Rebates between panels are made right over left. Bi-Fold panels (LR or LLRR) do not require offset tilt rods.

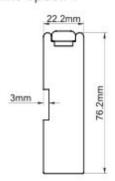


N.B: Multi-fold is only available for tracked shutters in Bermuda

5. ROOM DARKENING SHUTTER & SHADE

ROOM DARKENING BLIND OPTION

1. Frame option*:



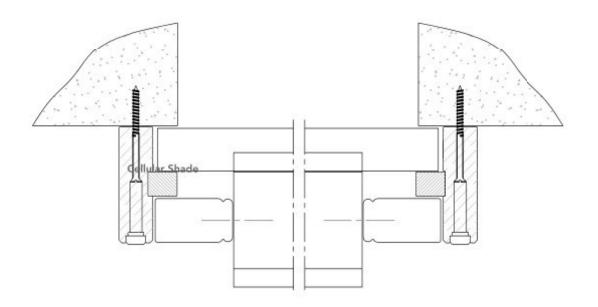
Insert Hang Strip 76mm

*NOTE: When you order Room Darkening blinds and the frame has a T post please note the defaulted specification below:

- If there is no build out with T post, then the Room Darkening blind will be defaulted to one blind sitting behind the T post.
- If there is build out with T post then the Room Darkeningblind will be split according to the T post.

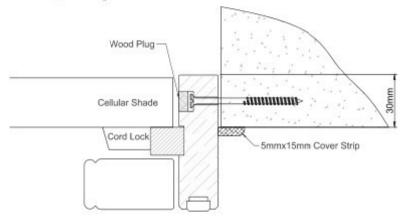
2. Frame mounting:

Outside Mount



Inside Mount

Will require a minimum depth clearance 30mm. If it is a bay window inside mount, the top and bottom cover strips will be cut flush on both ends, their length = each section frame outer dimension + 50mm:



3. Number of frames:

3 sided (top,left & right) and 4 sided.

4. Available shutters:

All rectangular shutters.

5. Available cellular shade:

25mm corded system cellular shade-room darkening. Pull cord is defaulted to the right side.

* The cord cleat will be on the light block between the shutter and shade.

6. Size limit:

220mm	2500mm	5.5m²
250mm	3600mm	5.5m²

- * The above chart does not mean that a shade can be ordered in maximum width and maximum height.
- * The shade width and drop must be within the size limitations above and not exceed max area.

7. If there is a T post, Corner/Bay post, it will be made as below:

 If the shade behind is for one whole piece, the post and frame will be jointed as illustrated below: (Take the T post for example).



For Corner, Bay post, take LC frame as example:

2). If the shade behind is divided into several pieces by the T post, Corner/Bay post, then T post, Corner/Bay post needs additional 29.5mm (hang strip)/33.2mm (LC frame) build out at the back for the standard frame depth. See illustration below:



39 77.8 279.4 39.8 1676.4 78.6 304.8 40.6 1701.8 79.4 1727.2 79.8 330.2 41.4 355.6 42.2 1752.6 80.6 381 43 1778 81.4 406.4 43.8 1803.4 82.2 431.8 44.6 1828.8 83 457.2 45.4 1854.2 83.4 45.8 1879.6 84.2 508 46.6 1905 85 533.4 47.4 1930.4 85.8 558.8 48.2 1955.8 86.2 584.2 49 1981.2 87 49 87.8 609.6 2006.6 635 49.4 2032 88.6 660.4 50.2 2057.4 89.4 51 89.8 685.8 2082.8 711.2 51.8 2108.2 90.6 91.4 736.6 52.6 2133.6 53.4 2159 92.2 2184.4 787.4 93 54.2 812.8 54.6 2209.8 93.4 55.4 2235.2 94.2 838.2 95 889 57 2286 95.8 914.4 57 96.6 2311.4 97 939.8 57.8 2336.8 965.2 58.6 2362.2 97.8 990.6 59 2387.6 98.6 1016 59.8 2413 99.4 1041.4 60.6 2438.4 100.2 1066.8 61.4 2463.8 100.6 62.2 2489.2 101.4 1092.2 1117.6 62.6 2514.6 102.2 103.4 1168.4 64.2 2565.4 1193.8 65 2590.8 104.2 1219.2 65.8 2616.2 105 1244.6 2641.6 105.8 106.6 1270 67 2667 1295.4 67.8 2692.4 107 1320.8 68.6 2717.8 107.8 1346.2 69 2743.2 108.6 1371.6 69.8 2768.6 109.4 70.6 2794 110.2 1397 1422.4 71.4 2819.4 110.6 111.4 1447.8 72.2 2844.8 1473.2 72.6 2870.2 112.2 1498.6 73.4 113 2895.6 74.2 2921 113.8 1549.4 2946.4 114.2 75

ROOM DARKENING BLIND STACKING HEIGHTS

Stacking height schedule: Please note stacking height is just for your information not to the exact height.

2971.8

2997.2

3022.6

115

115.8

116.6

75.8

76.2

77

1574.8

1600.2

1625.6

Brie C4510
Sand C4508 No colour image not currently available
Desert C4504
Primrose C4506 No colour image not currently available
Tamarind C4507 No colour image not currently available
Black Ink C4201
Dusk C4105 No colour image not currently available
Steel Grey C4101 No colour image not currently available
Infinity C4108
No colour image not currently available Champagne C4111
No colour image not currently available

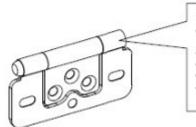
	Mineral C4108
N	o colour image not currently available
	Pebble C4509
N	o colour image not currently available
	Indigo C4704
:N	o colour image not currently available
	Fog Green C4601
N	Slate C4104 o colour image not currently available
	Terra C4102
N	Topaz C4705
	Glacier White C4001
	Ecru C4412
N	o colour image not currently available

6. HARDWARE

HARDWARE

Self-Mortise Hinge:

We will pre-mount the inner piece of hinge on panel when order Overall Panel size and OD of frame, the outer piece and the hinge pin will be included in the hardware box: for OD of frame size, will be attached to the outer piece and hinged to the frame with one screw through the oblong hole.



- For panel to frame/ batten of wood and MDF shutter
- For panel to panel (when ordering 3 panels LLR or LRR with astragal stile, used as bifold hinge)

Offset Hinge:

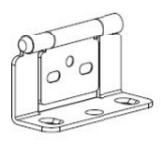
Used for rebated stiles. All hinges will be pre-mounted on panels.



- 1. For panel to frame/ batten of wood and MDF shutter
- 2. For panel to panel (when ordering 3 panels LLR or LRR with astragal stile, used as bi-fold hinge)

L Hinge:

Used for hang strip inside mount.



Hinge Spacer:

To make installing shutters an easier experience, we have included hinge spacers for your convenience. It is is very common to find windows that are built square, and depending on the eveness of the mounting surface and how the shutters are installed, the outcome of the installation might be different. The hinge spacer is an easy and reliable tool to help installers overcome such variations during the installation process.

Antique Brass, Bright Brass, Black, Nickel Plated, Stainless Steel (Surcharge), Brushed Nickel Plated (Surcharge), White, Pearl, Bisque, Pure White

Please Note:

End of hinge to top/bottom of panel is 50.8mm.

For the Bermuda program

Panel height	No. of hinges	
<=1219mm	2	
1219mm~1981mm	3	
1981mm~2438mm	4	
2438mm~3048mm	5	
>3048mm	6	

MAGNETS

Round magnets are pre-mounted on the panels and the catch is pre-mounted on the frame when the order is 'OD' type. An 'L' shaped magnet catch is included in the hardware box when ordering 'OP' type.



Catchplate



Magnet

HOFFMAN KEYS

These are supplied and are used to join frame corners together.



PANEL FEET

For MDF and MDF+, panel feet will be included in hardware box when ordering OP panels, and mounted on bottom of panels when ordering panels with frame (OD of frame).



HANDLE OPTIONS

Handle A and B are available to order in Nickle Plated only. Please specify the handle you require along with the quantity on the notes section of your order card, they will not be pre installed but supplied loose in the hardware box. (Surcharge will apply).



Handle A



Handle B

L SHAPE MAGNET CATCH

When ordering a 3 sided frame with the gap more than 2.5mm ordering OP OR, an L shape magnet catch will be supplied.



SIDE MAGNETS

This option is available in the order card and when selected we will add a magnet situated to the side of stile (1). It can be selected where a Left and Right panel meet where there is no lightblock or bottom frame to secure the panels. The magnets will act to keep the panels together.

Side magnets are available for butt, rebate and D-Mould stile, not available for the Java product.



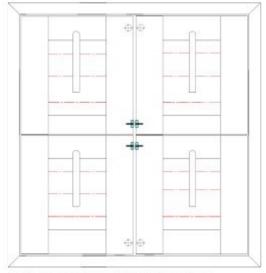
(1) Magnet shown in side of stile



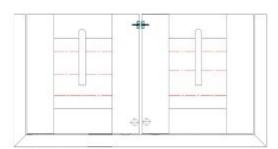
(2) Magnet keeping panels together

The side magnet can be selected where you have:

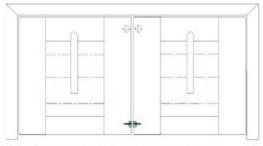
- a) Door shutters that require bottom clearance.
- b) Tier on Tier shutters without horizontal T post. The side magnet will be installed on the top of the bottom tier and the bottom of the top tier (3).
- c) Café style shutters with upside down goal post frame (4).
- d) Window that do not have a light block or bottom frame (5).



(3) Double Hung shutter without horizontal T post



(4) Café Shutter



(5) No frame or light block on either top or bottom

BOLT & RING PULL



1. Barrel Bolt

Can be used for hinged shutter and Bi-fold track shutter to fit for panels. Based on the size of the bolt, 41.3mm stile cannot be used for this product.



2. Ring Pull

Can be used for hinged shutter and track shutter. Based on the size of the ring pull, 41.3mm stile cannot be used for this product. The location of the ring pull, refer to the bolt location.



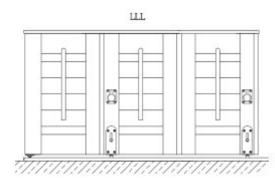
3. Security Bolt

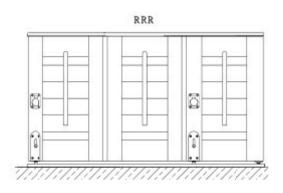
Can only be used for hinged shutter. Based on the size of the security bolt, 41.3mm stile cannot be used for this product. Please note you will need to note the location of the security bolt in the notes section of the order card.

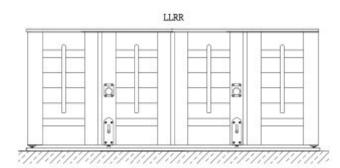
RING PULL & BARREL BOLT

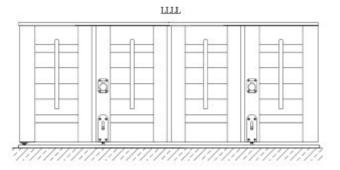




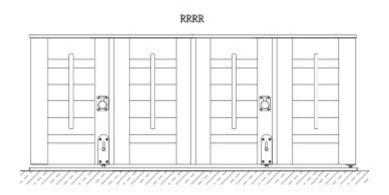




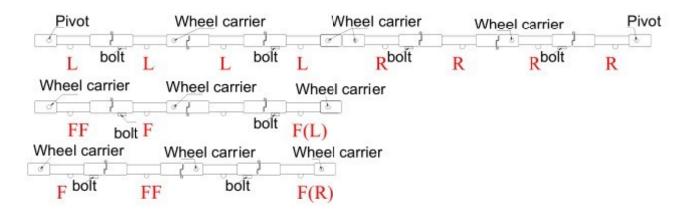




RING PULL & BARREL BOLT Cont.



The bolt location for both track system shutters and regular shutters would be the same. The general principle is that the bolt position will avoid the stile which will install the spring-loaded guide at bottom (same stile as the Wheel carrier).



Ring pull: for easy opening and closing (Not available for 1.625" /47mm Stile)

Ring Pull and Barrel Bolt: Customer needs to specify ring pull location on the order form. Ring pull location principle for Floating Panels: (same as the location of 90° Bifold Track)

- When floating panel config is in pairs, it will be split into halves, the left will be for LL and the right will be for RR. So the ring pull location for FF/FF, FF/FF/FF will be same as that of panel config as LL/RR, LL/LL/RR/RR.
- When floating panel config is FF, the ring pull location will be same as that of panel config LL.
- When floating panel config is singular, it will be split into 3 sections, the left and mid sections are
 for LL and the right section is for RR. So the ring pull location for FF/FF/FF, FF/FF/FF/FF/FF will be
 same as that of LL/LL/RR, LL/LL/LL/RR/RR.

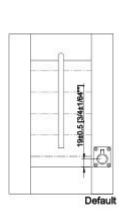
Please note the ring pull finish will match with the hinge finish.

Please see the matching chart below:

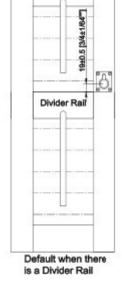
Hinge	Pure White	White	Bisque	Pearl	Black	Nickel		Antique Brass		Stainless Steel
Ring Pull	White	White	Bisque	Pearl	Black	Brushed	Brushed Nickel	Antique Brass	Bright Brass	Brushed Nickel

Position: For different panel configuration, please refer to the location of bolt to show on which stile the pull will be fixed.

BACK TO MENU



1.



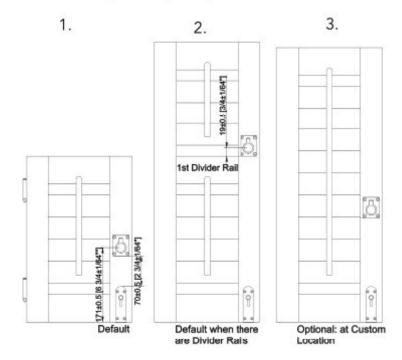


Position:

- Above Bottom Rail (Default)
- Above 1st Divider Rail (Default when there are Divider Rails)
- Custom Location

If both bolt & ring pull are specified, the distance between them is 2 3/4"(70mm), and the ring pull location is 6 3/4"(170mm) from the bottom of panel.

When there is no mid rail, ring pull will be just on the top of Bot (2 3/4" /70mm above bolt) as default location; if there are mid rails, bottom of ring pull lines up with top of the 1st mid rail as default location.



Position:

- 2 3/4"(70mm) Above bolt (Default when both Ring Pull and bolt are specified)
- Above 1st Divider Rail (Default when there are Divider Rails)
- Custom Location

Measurements:

Window size: Measure from the bottom of the window to the centre of the ring pull

Max frame-to-frame: Measure from the bottom of the frame to the centre of the ring pull

PANEL CONFIGURATIONS

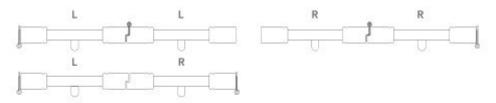
If you order shutters in OVERALL PANEL SIZE & OD OF FRAME, panel configuration is required. Please specify if the stile type required is Rebate or D-Mould. Please note Bermuda is supplied with a flat stile.

1 panel: L/R



2 panels: LL/RR/LR

A) Rebate stile

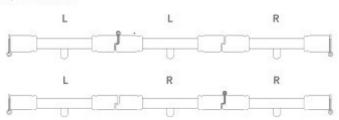


B) D-Mould stile

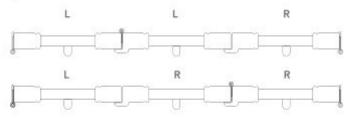


3 panels: LLR/LRR

A) Rebate stile



B) D-Mould stile



4 panels: LLRR

A) Rebate stile

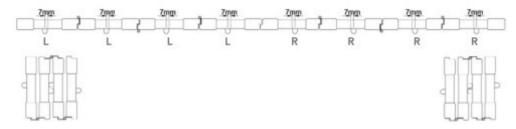


B) D-Mould stile



Offset tilt rod for multi-fold shutters

For multi-fold panels, we will place the tilt rod offset from the centre. By doing so, panels can be folded flat without tilt rods obstructing each other. The standard offset for the tilt rod is 7mm from the centre, i.e. tilt rod will be 7mm to the left from the centre for the left panels, and 7mm to the right from the centre for the right panels. Besides, the Rebate is made with right panels over left ones for both the panels folded to left and to right.



* For 2 panels (LL/RR) and 4 panels configuration (LLRR), there is no need to offset the tilt rod.

PANEL SIZE LIMITATIONS

Panel structure

The window shutter panel is made up of several parts. To help you understand the panel construction please see photograph.



	Width			Height		
	Minimum	Maximum	Maximum		Maximum	Mid rail
		Single hung	Bi-fold hinged shut- ter/ Multi-fold with Top and Bottom track			Required if
47mm	152mm	610mm	610mm	250mm	3000mm	H>1981mm
63mm	152mm	915mm		250mm	3000mm	H>1981mm
76mm	152mm	915mm		250mm	3000mm	H>1981mm
89mm	152mm	915mm		250mm	3000mm	H>1981mm
114mm	152mm	915mm		250mm	3000mm	H>1981mm

NB: Where the panel size limits above are exceeded, warranty on the order line is waived automatically.

NB: When a single hung panel width is less than 228.6mm and used with the following frames: Deco, L, Z and Hang Strip, the stile opposite to the hinge will be rebated.

If panel height is over 1981mm, a Mid Rail is required and if the panel has a Mid Rail but the height from the centre of the Mid Rail to the top of the top rail or to the bottom of bottom rail is still over 1981mm, another Mid Rail will be required.

If you do not specify the Mid Rail location, the order will be held to confirm if a Mid Rail is required. However, if you specify no Mid Rail, you will waive your warranty and manufacture will proceed as per your instructions.

Shutter used for door without bottom support:

In situations where shutters are used for door applications, which do not have any support underneath the panels, the customers must inform The Shutter Shop when placing this type of order. (See the following specs for Shutters used in Door applications)

Please note:

- The factory will add extra hinges to support the panels.
- (2) Bigger and Stronger Top and Bottom rails will be added to reduce the probability of the panels sagging and increase shutter intensity.
- (3) If customers fail to notify us that the shutter will be used in door applications, the customers will be responsible for the cost of the any re-order that is submitted.

Please see the following chart for cetails.

L,R,LR	LL, RR, LLRR
Manufactured with warranty waived	Must order it with track, we will not process it even with warranty waived

PANEL WEIGHT

Material	Louvre size	Weight (kg)/m ^{2*}		
Bermuda	47mm	6.24		
	63.5 mm	8.15		
	76.2 mm	8.16		
	88.9 mm	8.18		
	114.3 mm	TBC		

^{*} Average Weight

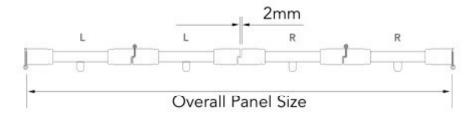
	Fixed Closed Position	Fixed Open Position			
Available in two positions: closed or open at angle. Available in 4 louvre sizes, 47mm, 63mm, 89mm, 114mm	Panel of Panel (Reck of Panel	Front of Panel Back of Panel Back of Panel Front of Panel Back of Panel Front of Panel Back of Panel			
The standard default orientation for Closed 'Dress Down' with the botto to the front of the panel. 'Dress Up'	om edge of louvres option is also	Dress Down Dress Up			
available if specified on the order for NB. Note that normal orientation for when closed is in the 'Dress Up' sta	or adjustable louvres	Treet of Panel Sack of Panel Preet of Panel Sack of Panel			

7. SIZING AND MEASURING

ORDER SIZE DEFINITION

Overall Panel size (OP):

The size given is the overall panel size. The width does not include the hinge space from panel to batten on the left & right side, but does include the gap between panels, the standard gap is 2mm between panels and we will calculate the single panel width based on this measurement (see diagram below). The height given must be net panel height. We will premount the hinges and the magnets and include panel feet and L shape magnet catches in a hardware box.



OD of frame:

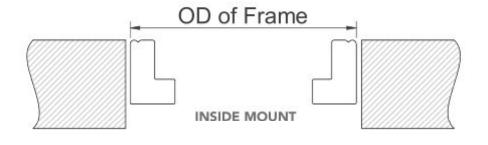
Size given is "Outside Dimension" of the shutter; we will pre-mount the hinges and the magnets, and will include all the necessary hardware in a hardware box. The stiles can be Rebate and D-Mould stile, please specify on the order form.



Camber Deco Frame 50mm: Can only be ordered as outside mount, the size given must be OD of frame size.



"Z" frame: Can only be ordered as inside mount, the size given must be OD of frame size. (Backside of Z frame, refer the drawings).





"L" frame: Can be ordered as inside mount and outside mount, size given must be OD of frame size.

TOLERANCES

Width: The width of the panel can be plus or minus 1.6mm from the order width.

Height: The height of the panels can be plus or minus 1.6mm from the order height.

Mid Rail location: Mid Rail location may be off by half a louvre space. Measure from bottom of bottom frame to centre of Mid Rail if order OD of frame, and from bottom of panel to centre of Mid Rail if order not panel size or overall panel size.

For 47mm louvre can be off by +/-19mm.

For 63mm louvre can be off by +/-25mm.

For 76mm louvre can be off by +/-31mm.

For 89mm louvre can be off by +/-38mm.

For 114mm louvre can be off by +/-51mm.

MOUNTING TYPE

Café style shutter: Please specify on the order form if the shutter is a café style. We will finish the top of the panels and one end of the battens.

If a café shutter is required with a 3 sided frame, it should be 3 sides inverted.

Tier on Tier: The standard gap between the top tier and bottom tier is 2.5mm.

Full height: Regular shutters running the full height of a window.