



**WINDOWORLD** **décor** <sup>- 0 -</sup>

# FUSION PLUS SHUTTER TECHNICAL GUIDE



**ADDRESS**

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## WHY FUSION PLUS?

Made from a water-resistant reinforced polymer extrusion, Fusion Plus Shutters are slim, elegant, clean, smooth, and refined. Blending the strength, stability, and precision of manmade materials with the beauty, character, and elegance of real wood, Fusion Plus shutters are one of today's most functional and durable shutters on the market.

Constructed with high strength mortise and tenon joints, using Ruspert screws and adhesives, each louvre contains a H-shaped aluminium insert for greater strength and increased stiffness. Fusion Plus provides the rich look of timber shutters without timber's inherent problems, lasting longer, performing better in Australia's harsh elements, and insulating more effectively than traditional timber shutters.

Fusion Plus guarantees total satisfaction in every application:

- Insulates 70% better than any wood shutters
- Offers all the benefits of poly with the look of real wood
- Engineered poly material is water resistant, making them ideal for high humidity areas
- Protected by a high UV inhibitor to ensure lifetime durability
- Nine colours designed to complement the most popular Dulux whites & greys
- Does not support bacterial activity and is termite resistant
- More durable, energy efficient, and low maintenance than wood shutters
- Will not rot, absorb moisture, delaminate, split, crack or promote mold
- Larger panel options than many other polymer shutters in the market
- Mortise and tenon joints provide excellent stability and durability
- Stiles, Louvres and T-Posts are reinforced, co-extruded with a strong H-shaped aluminum core
- High quality waterborne paint is machine applied pre-assembly for a consistent finish
- Pre-paint finish provides flexibility in installation with no risk of cracking paint finish between rails and stile joints, like many competitors shutters
- High strength frame brackets provide for quick & easy one person installation
- Strongest warranty in the industry; a lifetime guarantee that the extrusion won't crack, sag, warp, or split
- Manufactured by one of the largest poly factories worldwide, established in 1969

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PROPERTIES	SPECIFICATIONS		
Material	Reinforced Polymer Extrusion, Aluminium H Core in Louvres & T-Posts, Square Insert in Stiles		
Application	Internal		
Louvre Shape	Elliptical		
Louvre Type (width)	64mm	89mm	114mm
Louvre Thickness	10.5mm		
Minimum Panel Width & Height <b>(without frame)</b>	W = <b>228mm</b>	H = <b>381mm</b>	
Maximum Hinge Panel Width & Height <b>(without frame)</b>	W = <b>1000mm</b>	H = <b>3048mm</b>	
Maximum Invisible Tilt Panel Width & Height <b>(without frame)</b>	W = <b>813mm</b>	H = <b>2286mm</b>	
Maximum Panel Height without Divider Rails	1800mm *2nd Divider Rail if panel height exceeds 2438mm		
Maximum Invisible Tilt Louvre Height without Divider Rails	1397mm *No Split Tilt without a Divider Rail		
Maximum Hinge Bi-Fold Panel Width (without frame)	508mm		
Maximum Track Bi-Fold Panel Width (without frame)	1000mm		
Maximum Bypass Single Panel Width (without frame)	1000mm		
Maximum Bypass Centre Stile Panel Width	1092mm		
Stile Width & Profiles	51mm Beaded	Square	
		Astragal (D-Mould)	
		Rabbeted	
	51mm Flat	Square	
Astragal (D-Mould)			
Rabbeted			
Stile Thickness	28mm		
Rail Thickness (Depth)	22mm		
Minimum & Maximum Top & Bottom Rail Sizes *More information on pg. 13	64mm = 63.5mm - 95.25mm		
	89mm = 63.5mm - 110.49mm		
	114mm = 63.5mm - 127mm		
Divider Rail Width	80mm		
Bypass Valance / Fascia	150mm x 22mm		
Bi-Fold Valance / Fascia	66mm x 9.53mm		
Track Bi-Fold Box-Out Boards	115mm x 21mm		
Bypass Box-Out Boards *89mm Blades	Double	Closed = 152mm x 21mm	
		Open = 220mm x 21mm	
	Triple	Closed = 200mm x 21mm	
		Open = 314mm x 21mm	

Tilt Rod Options	Clearview (Hidden)		
	Centre		
	Offset		
	Magic Tilt		
Max. Length Clearview Tilt Rod	1320mm		
Max. Louvres in Single Tilt	64mm = 28	89mm = 19	114mm = 15
Build-outs, Packers & Light Block	SS58 17mm x 17mm		
	HS107 27mm x 34mm		
	*Custom Sizes Available		
Special Shapes *Surcharge applies	Oval, Hexagon, Triangle, Circle, Sunburst, Arch		
Frame Options *Surcharge applies on face fit frames & aluminium U channel	ST10 25mm T-Post		
	ST20 50mm T-Post		
	FT10 25mm T-Post		
	SL10 Standard L Frame		
	FL10 Flat L Frame		
	CL10 60mm Face Ft L Frame		
	ML10 74mm Face Fit L Frame		
	BZ17 Bullnose Z Frame		
	FZ23 Flat Z Frame		
	CZ15 Small Bullnose Z Frame		
	SZ16 Z Frame		
	DZ25 Decorative Z Frame		
	EZ30 Elegant Z Frame		
	Aluminium U Channel, Top & Bottom Poly U Channel		
	90° Bay Post, 135° Corner Post & Bay Post		
Machine Applied Waterborne Paint Colours	4024 Polar White		
	2051 White on White		
	001 Vivid White		
	002 Lexicon ½		
	003 Natural White		
	005 Whisper White		
	006 Ecru ½		
	105 Hog Bristle ¼		
	301 Surfmist		
	302 Snow Season		
Aluminium U Channel	White - 002 Lexicon ½		
	Cream - 005 Whisper White		
Poly U Channel	Colour Matched to Order		
Hinges *Surcharge applies for stainless steel	Self-Mortise Hinges (white, cream, stainless steel)		
	Pivot Hinge (white, cream, stainless steel)		
	Rebated Hinge (white, cream)		
Handles *Surcharge applies	Range of Options and Colours Available pg. 20		
Locks *Surcharge applies	Sliding or Turning Various Colours Available pg. 19		

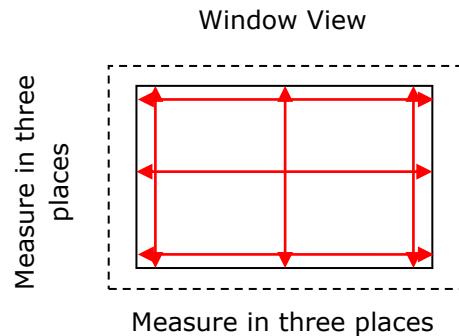
## SIZE TYPE

### WINDOW SIZE / INSIDE MOUNT

When specifying window size or reveal fit on your order, the **factory will take a deduction** between the frame and the reveal from each side of both the width and the drop when manufacturing your shutters.

When measuring the opening size:

1. Ensure that the opening depth will allow louvres to rotate freely
2. Measure to the inside width in three different places
3. Measure to the inside height in three different places
4. Record the smallest of the three measurements for each
5. Check for window squareness



Inside Mount L Frame



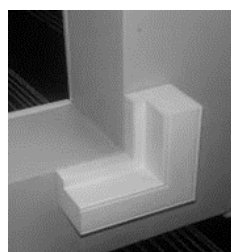
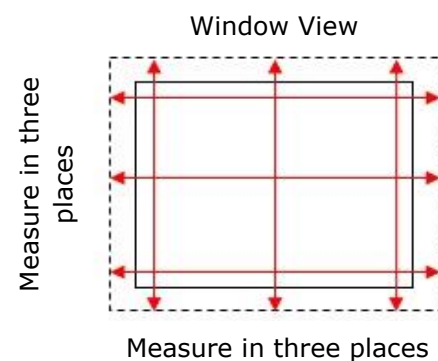
Inside Mount Z Frame

### FINISH SIZE / OUTSIDE MOUNT

When specifying finish size or make size on your order, the **factory will NOT take any deduction** and the shutter unit (panels and frames) will be manufactured to your exact width and height specifications to the outside edge of the frame.

When measuring the make size:

1. Ensure that the opening depth will allow louvres to operate
2. Measure width from outside of frame to outside of frame in three different places
3. Measure height from outside of frame to outside of frame in three different places
4. Record the largest of the three measurements for each
5. Check for window squareness



Outside Mount L Frame



Outside Mount L Frame

## FACTORY DEDUCTIONS

All Z Frames	4mm from total width & 4mm from total height
All L Frames	4mm from total width & 4mm from total height
Direct Mount / Panel Only	6mm from total width & 6mm from total height
Top and Bottom U Channel Poly	4mm from total width & 43mm from total height
Top and Bottom U Channel Aluminium	3mm from total width & 27mm from total height

## LOUVRE CLEARANCES

### L FRAME INSIDE MOUNT:

64mm	Requires 10mm clearance from the back of frame 57mm minimum depth of reveal
89mm	Requires 28mm clearance from the back of frame 76mm minimum depth of reveal
114mm	Requires 40mm clearance from the back of frame 82mm minimum depth of reveal

### Z FRAME INSIDE MOUNT:

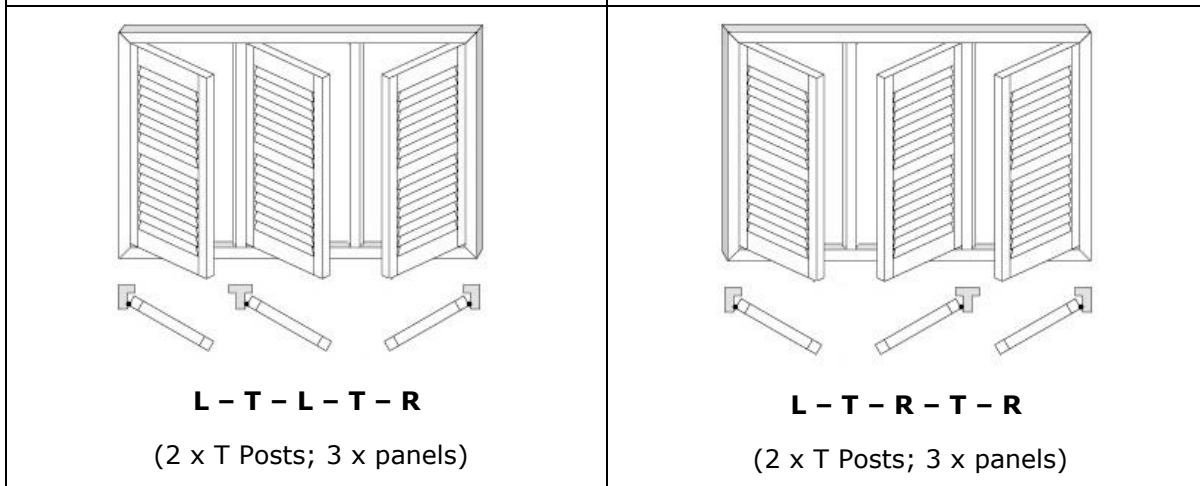
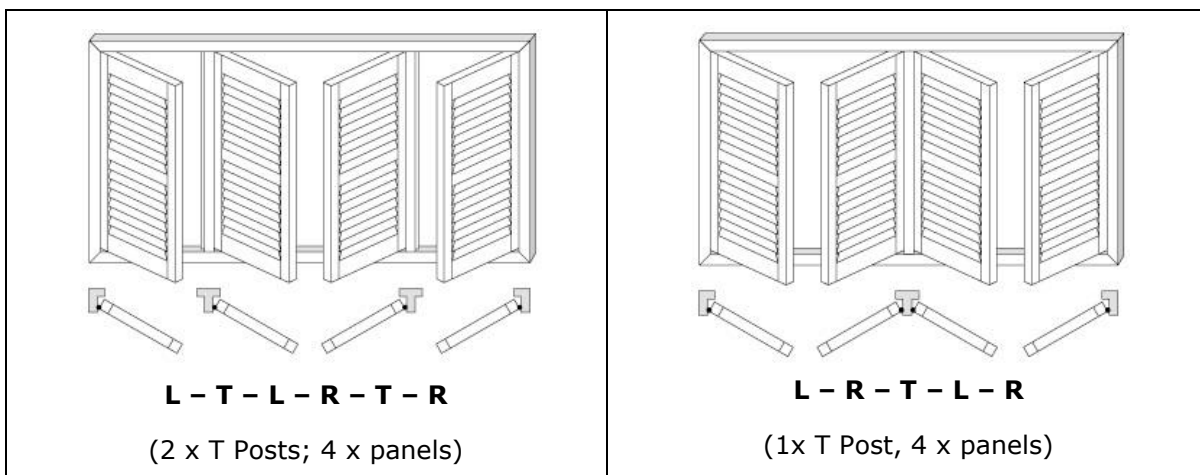
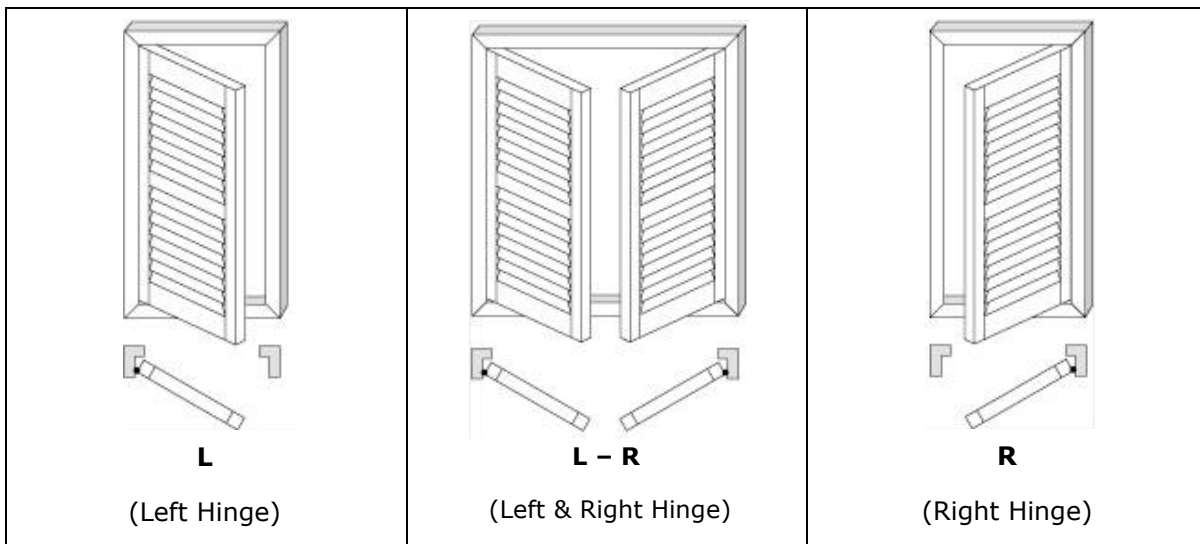
64mm	Requires Nil clearance from the back of frame 47mm minimum depth of reveal
89mm	Requires 18mm clearance from the back of frame 66mm minimum depth of reveal
114mm	Requires 30mm clearance from the back of frame 72mm minimum depth of reveal

## REGULAR SHUTTERS

### HINGED PANELS

Panels can be hinged inside mount with L Frame or Z Frame using Non-Mortise Hinges or Pivot Hinges, and outside mount with extension L Frame.

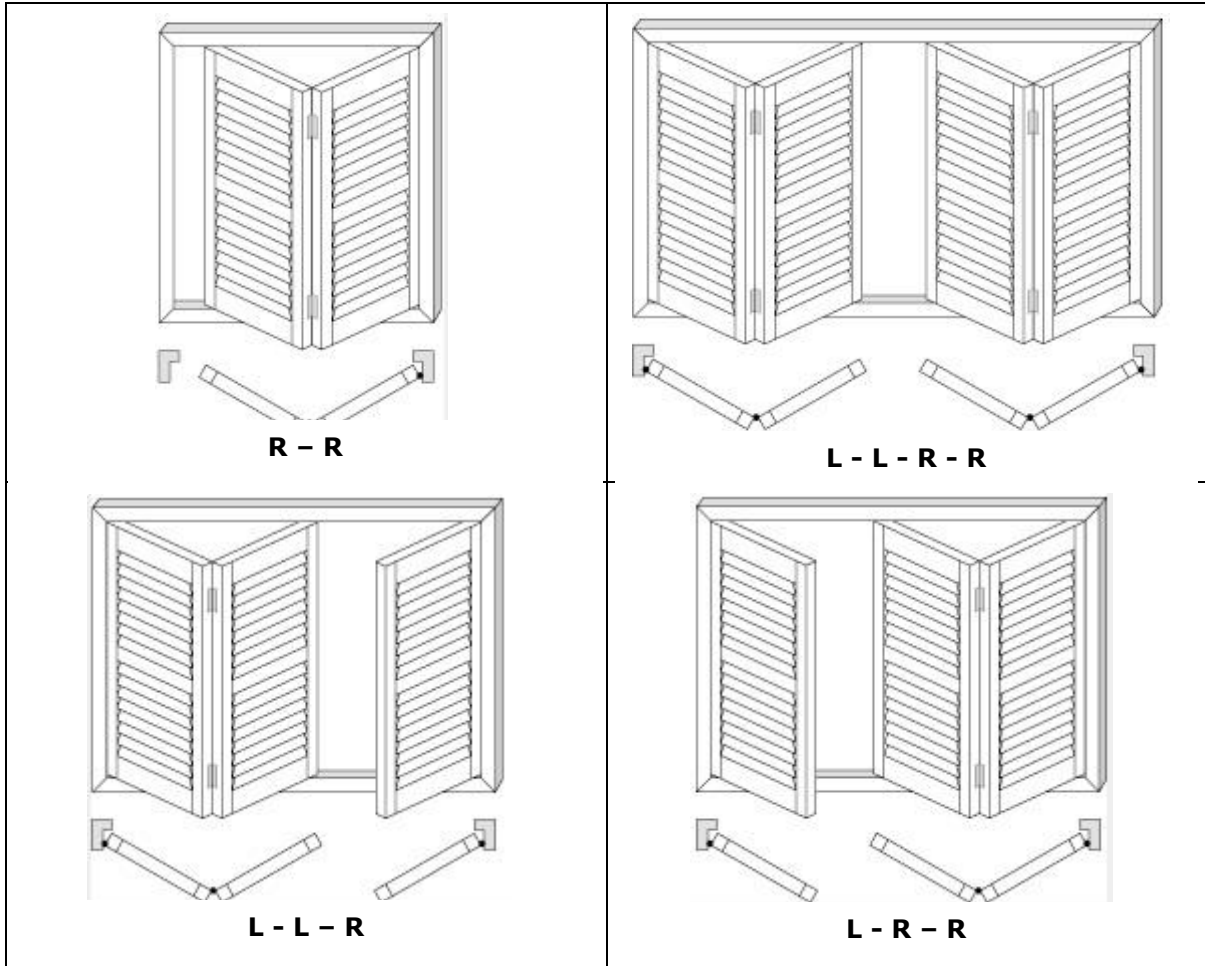
Hinges are painted to match the colour of the shutter panel or are available in stainless steel (Surcharge applies for Stainless on Fusion Plus).





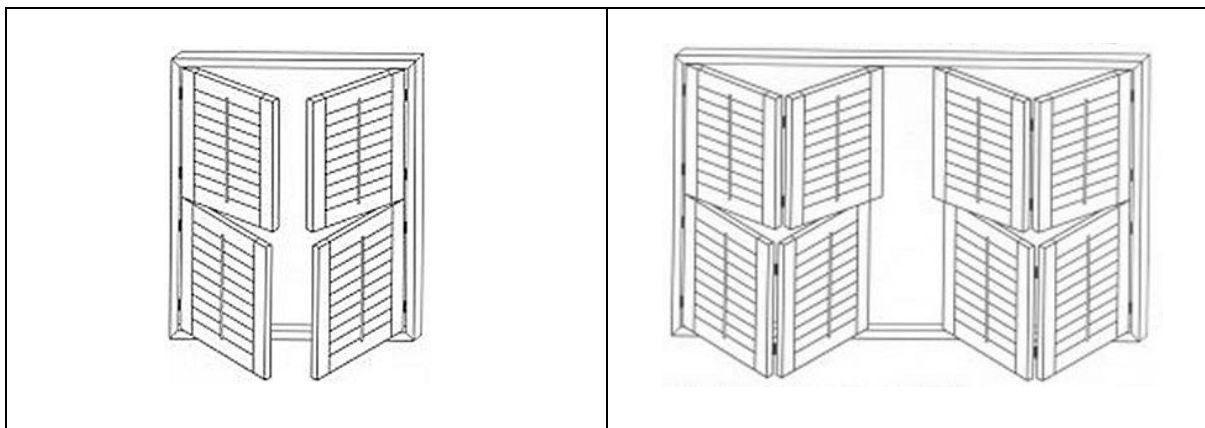
### BIFOLD HINGED

Bi-fold hinged allows for a **maximum of two panels** to be hinged together and fold against each other to provide full view from the window or doorway.


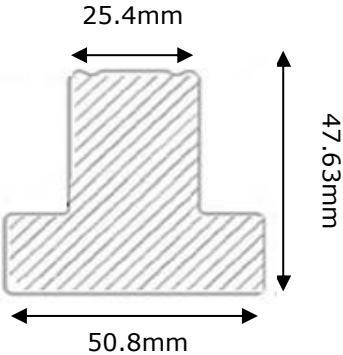

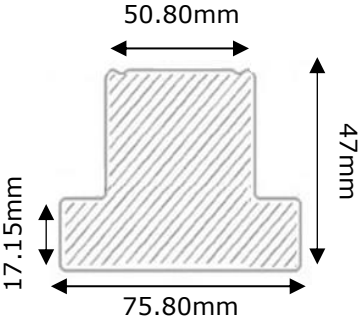

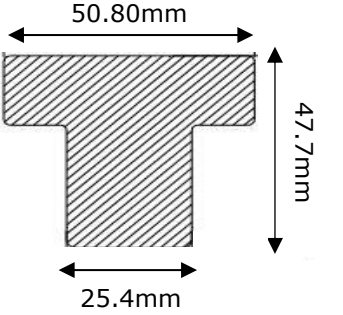


### DOUBLE HUNG / TIER ON TIER / SALOON STYLE

Shutters that have one set of panels on top and another set on the bottom, with or without a horizontal T Post. (Surcharge applies).



## T-POSTS

<p><b>ST10</b>  <b>25MM WIDE T-POST</b>                  Recommended to match window mullions to allow panel configurations that require more than two panels, or just for aesthetic purposes to divide a window vertically into sections.</p>		
<p><b>ST20</b>  <b>50MM WIDE T-POST</b>                  Recommended for multiple panel layouts using T-post where panels widths may exceed maximum advised widths and warranty.</p>		
<p><b>FT10</b>  <b>25MM WIDE FLAT T-POST</b>                  Same as the standard ST10 post, without beading. Can be used with any of our frame styles and locations can be customized.</p>		

## MEASURING T-POSTS

### WINDOW SIZE / INSIDE MOUNT

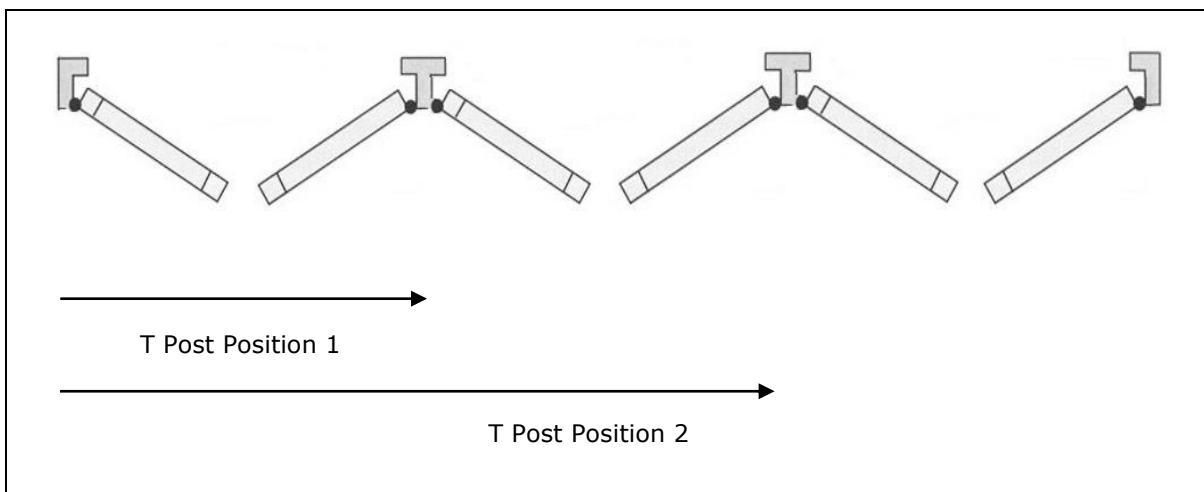
Position 1 – Measure from left side of inside the window to centre of the first T-Post location.

Position 2 – Measure from the far left of inside the window to the centre of each T-Post.

### FINISHING SIZE / OUTSIDE MOUNT

Position 1 – Measure from left edge of frame to the centre of the first T-Post.

Position 2 – Measure from the far left of the frame to the centre of each T-Post.



## HORIZONTAL T-POSTS

Required when multiple shutters are needed to cover large window heights and when panels exceed 3048mm in height.

### WINDOW SIZE / INSIDE MOUNT

Measure from the bottom window edge to the centre of the T-Post for Position 1.

### FINISHING SIZE / OUTSIDE MOUNT

Measure from the bottom edge of the frame to the centre of the T-Post.

## STILE TYPES

### ASTRAGAL / D MOULD STILE

D Mould covers light gaps where hinged panels meet. More forgiving on out of square windows.



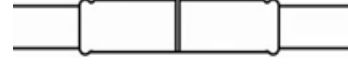
### RABBETED STILE

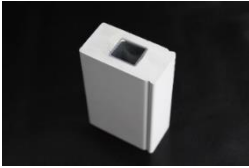
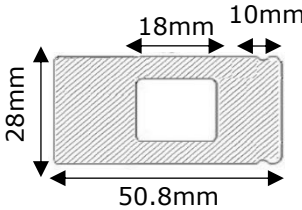
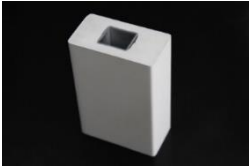
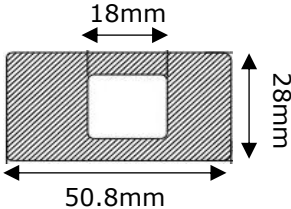
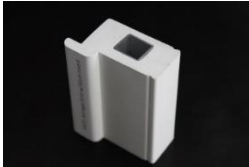
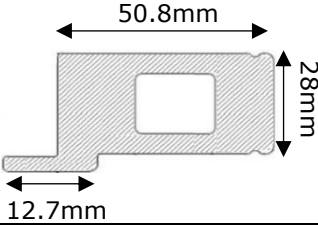

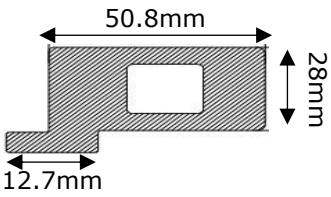

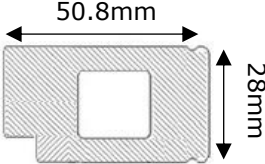
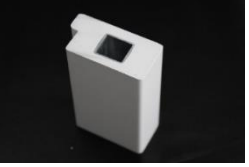
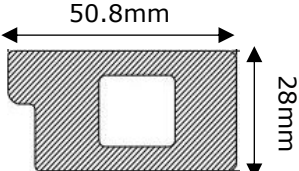
Rebate allows for panels to close flush together without light gaps. Recommended for Bi-Fold panels and U Channel layouts.



### SQUARE STILE

Standard for Bypass panels and single hinged panels.



SQUARE STILE	
	
FLAT SQUARE STILE	
	
ASTRAGAL STILE	
	
FLAT ASTRAGAL STILE	
	
RABBETED STILE	
	
FLAT RABBETED STILE	
	

## LOUVRE / BLADE SIZES

There are 64mm, 89mm & 114mm standard louvre sizes available.



## TOP AND BOTTOM RAIL SIZES

When the panel is shorter than 914.4mm, top and bottom rail sizes are as follows:	
64mm	63.5mm – 88.9mm
89mm	63.5mm – 101.6mm
114mm	63.5mm – 114.3mm

When the panel is equal or larger than 914.4mm, top and bottom rail sizes are as follows:	
64mm	69.85mm – 95.25mm
89mm	69.85mm – 110.49mm
114mm	76.2mm – 127mm

\*Please also note the size of top and bottom does not include the rabbeted part.

## DIVIDER RAIL

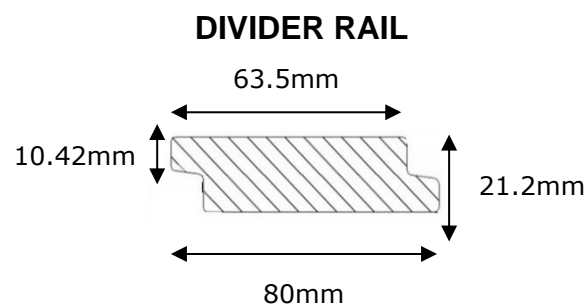
Divider rails can be used to accommodate a natural break in the window and can be placed in any specified location on panels.

Panels that are 1800mm and above in height require a divider rail.

Panels that exceed 2438mm in height require a second divider rail.

If you require your mid-rail to be exact, please specify **divider rail critical** as the divider rail may vary half a louvre in height if not specified.

When exact (**critical**) divider rail location is requested, top and bottom rails may be unequal and larger than normal.



## ALLOWABLE DIVIDER RAIL TOLERANCES

LOUVRE SIZE	TOLERANCES +/-
64mm	25.4mm
89mm	38.1mm
114mm	50.8mm

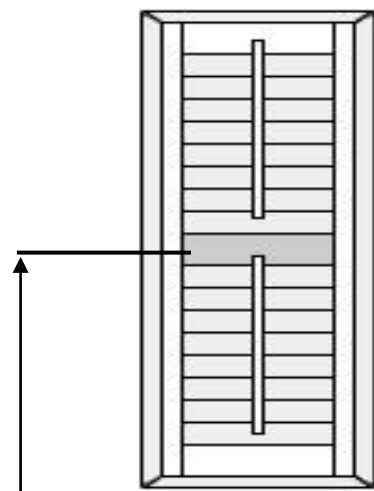
## MEASURING DIVIDER RAILS

### WINDOW SIZE / INSIDE MOUNT

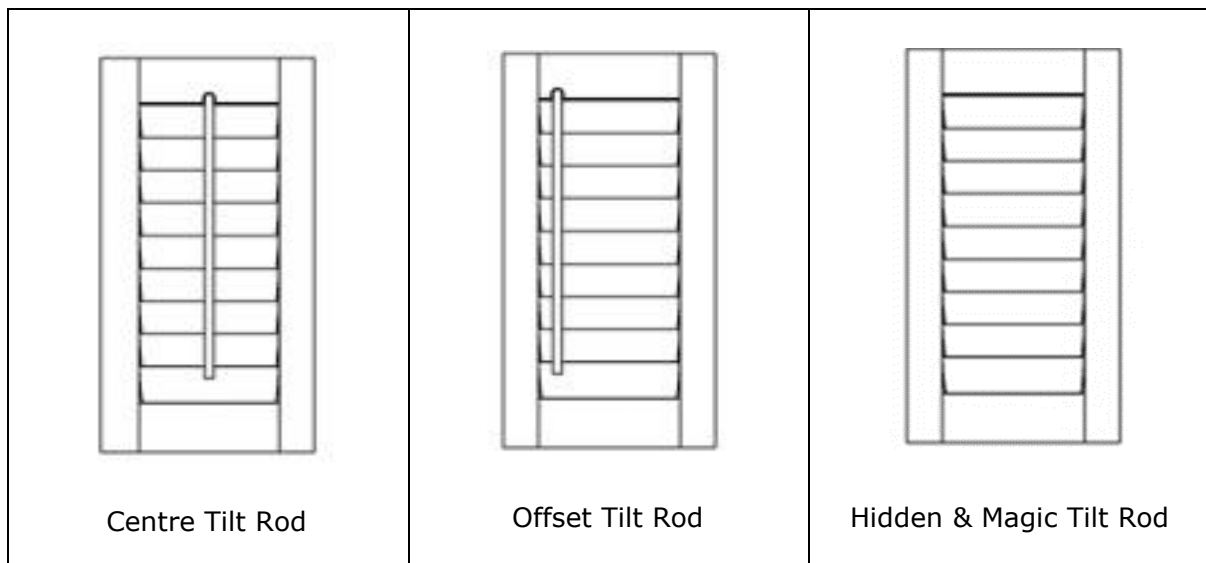
Measure from the bottom of the window up to the middle of your desired divider rail location.

### FINISH SIZE / OUTSIDE MOUNT

Measure from the bottom of the shutter/frame up to the middle of your desired divider rail location.



## TILT ROD OPTIONS



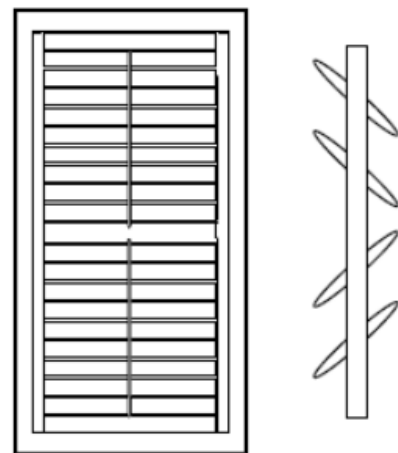
## SPLIT TILT ROD

Large louvre banks can be split into individually operated banks for better closure without adding a divider rail for panel heights below 1800mm.

Split tilts also provide the added benefit of privacy options.


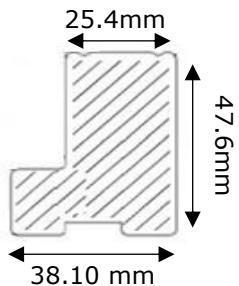

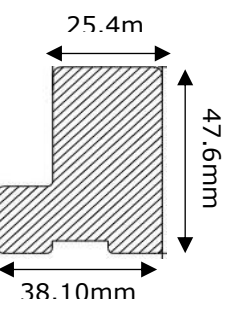


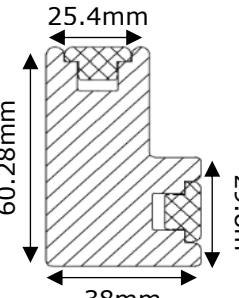
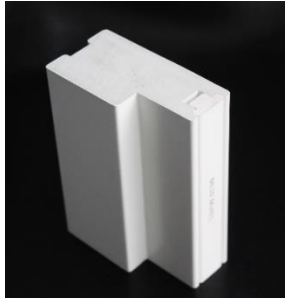
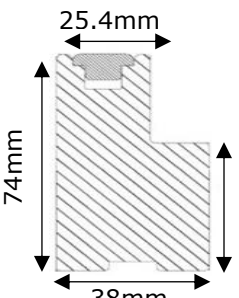
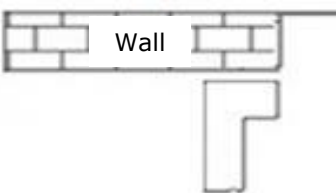
Split tilt locations can be specified at custom locations for all louvre sizes with any tilt rod option, or at manufacturing by default.

- **50/50** = Split halfway
- **50/50 CAM** = Split halfway above midrail
- **50/50 CBM** = Split halfway below midrail
- **Custom** = Advise required split location from the bottom up


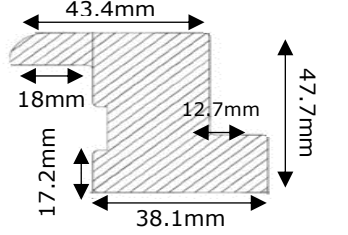

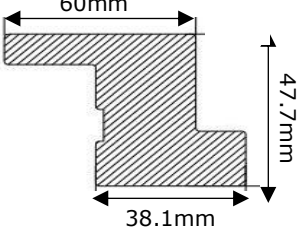

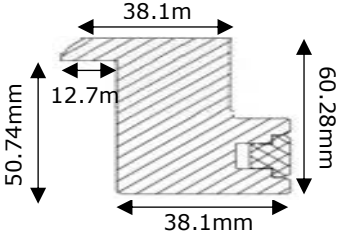

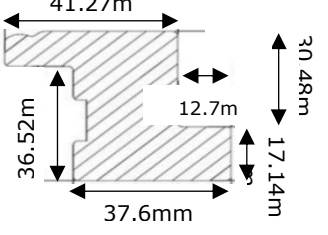

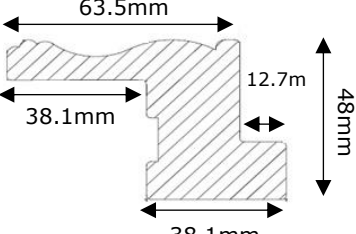

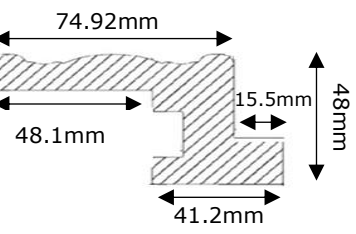
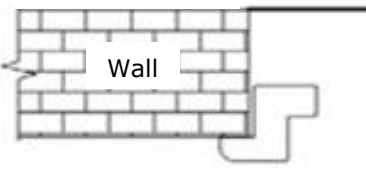


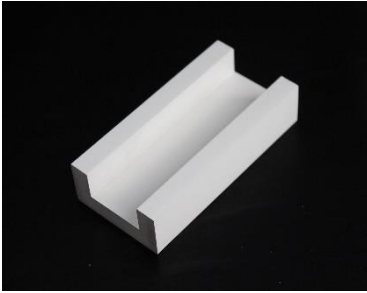
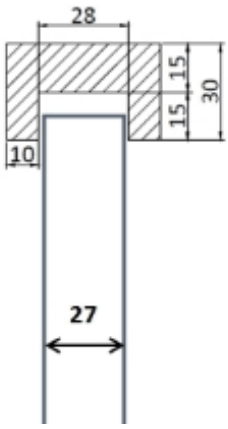

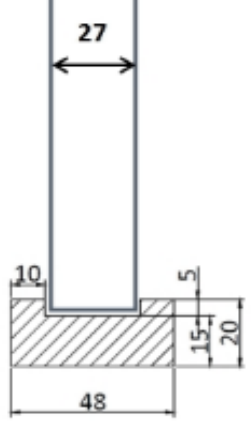
Where panel height exceeds 1524mm, a 50/50 split halfway will automatically be produced.

## FRAME OPTIONS

<p><b>SL10</b> <b>STANDARD L FRAME</b></p> <p>Recommended for inside mount on windows with trims or mouldings.</p>		
<p><b>FL10</b> <b>FLAT L FRAME</b></p> <p>Same as the standard L Frame, but with no beading.</p> <p>Recommended for inside mount on windows with trims or mouldings.</p>		
<p>This shows top view of an inside mount L Frame.</p>	<p style="text-align: center;">Top View</p> 	
<p><b>CL10</b> <b>EXTENSION L FRAME</b></p> <p>Recommended for outside mount on windows with no trims or mouldings where there is not enough depth to allow for rotation of louvres. Cover strip to hide fixing screws. Surcharge applies.</p>		
<p><b>ML10</b> <b>MULTI L FRAME</b></p> <p>Recommended for outside mount on windows with no trims or mouldings where there is not enough depth to allow for rotation of louvres. Cover strip hides fixing screws. Surcharge applies.</p>		
<p>This shows top view of an outside mount L Frame.</p>	<p style="text-align: center;">Top View</p> 	



<p><b>BZ17</b>  <b>BULLNOSE Z FRAME</b>                  Recommended for inside mount on windows with no trims or mouldings and windows that are out of square.</p>		
<p><b>FZ23</b>  <b>FLAT Z FRAME (60MM)</b>                  Like BZ17 but with a flat/square end, no bullnose.</p>		
<p><b>CZ15</b>  <b>SMALL BULLNOSE Z FRAME</b>                  Like BZ17 but with a cover strip for internal fixing.</p>		
<p><b>SZ16</b>  <b>Z FRAME</b>                  Like BZ17 but with a flat/square end, with a decorative bead line.</p>		
<p><b>DZ25</b>  <b>DECORATIVE Z FRAME</b>                  Similar to the 'Harbour Bridge' pelmet in profile.</p>		
<p><b>EZ30</b>  <b>ELEGANT Z FRAME</b>                  Recommended for inside mount on windows with no trims or mouldings and windows that are out of square.</p>		
<p><b>PLEASE NOTE</b> Overlap can be cut for SILL plate on all Z Frames.                  Specify which side of frame in your order.</p>	<p style="text-align: center;">Top View</p>  <p style="text-align: center;">*This shows top view of a Z Frame.</p>	

<p><b>TOP POLY U CHANNEL</b></p> <p>Inside mount, panels lift into top channel and slip into bottom channel in the same manner as sliding glass windows. Colour matched to order. 2 x Light Block SS58 17mm x 17mm will be supplied for the sides.</p>		
<p><b>BOTTOM POLY U CHANNEL</b></p> <p>Inside mount, panels lift into top channel and slip into bottom channel in the same manner as sliding glass windows. Colour matched to order.</p> <p>2 x Light Block SS58 17mm x 17mm will be supplied for the sides.</p>		

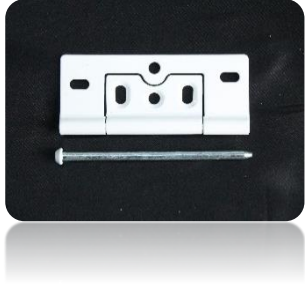

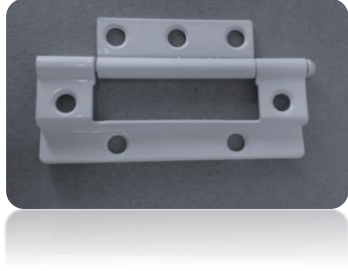
## COLOURS

Colours that are available within the Fusion Plus range are:

- Polar White 4024
- White on White 2051
- Vivid White 001
- Lexicon ½ 002
- Natural White 003
- Whisper White 005
- Ecru ½ 006
- Hog Bristle ¼ 106
- Surfmist 301
- Snow Season 303



## HINGE TYPES

SELF MORTISE HINGE	PIVOT HINGE	REBATE HINGE
 <p>Used for regular shutters and multiple panels with T-Posts. Offset screw holes allow for hinges on T-Posts to line up exactly. Pin is 1.5mm longer than bottom of hinge to allow for easy removal. Available in white, cream, and stainless steel.</p>	 <p>Used for inside mount or outside mount and attached to the top and bottom of stiles. Rebated 3mm into stile. Standard 6mm deduction on width and height for window size orders. Available in white, cream, and stainless steel.</p>	 <p>Used with rabbeted stiles on Bi-Fold hinged and track Bi-Fold panels. Available in white and cream.</p>

**By default, the factory will match the hinge colour to the shutter colour unless otherwise specified.  
Grey hinges are hand painted to match shutter.**

## HINGE QUANTITY

PANEL HEIGHT	NUMBER OF HINGES
Up to 1117mm	2
1118mm - 1828mm	3
1829mm - 2438mm	4
2439mm and over	5

## CATCHERS

### STANDARD CATCH

The iron magnets and striker plates are our default catchers used.



### NYLON CATCH

Nylon catchers are an ideal fastener in high humidity areas as well as seaside locations. When ordering nylon catchers, please make a note in special instructions that you require this option. \*Surcharge Applies.



## LOCK OPTIONS

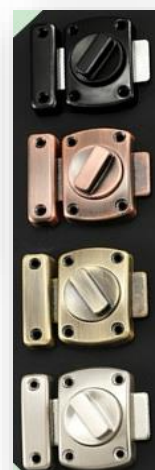
All locks are installed on the stile and lock into the top/bottom frame.

### ALUMINIUM SLIDING LOCK

Aluminium sliding locks are available in silver.



### ALUMINIUM TURN LOCK



Black

Red Bronze

Antique Brass

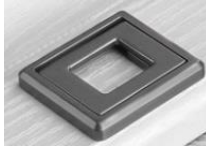
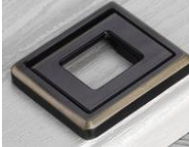

Silver

## HANDLE OPTIONS



All Handles can easily be installed on the stile.

They are available in a range of designs and colours as below (surcharges apply).

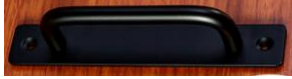
### TYPE 1: 155MM

SILVER	GREY	ANTIQU BRASS	BLACK	GOLD
				


### TYPE 2: 43MM

SILVER	WHITE
	


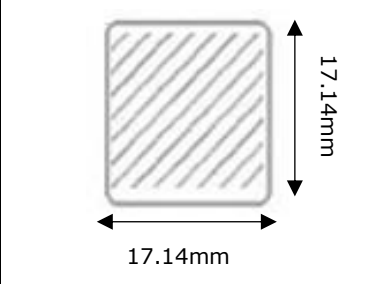

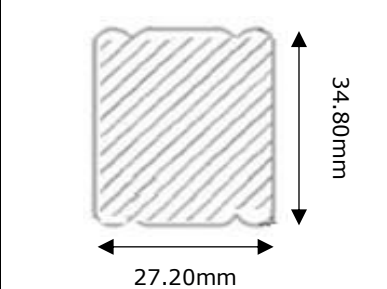
### TYPE 3: 150MM

NATURAL ALUMINIUM	GOLD	BLACK
		

### TYPE 4: 90MM

	<p>SILVER</p> <p>GOLD</p> <p>WHITE</p> <p>BLACK</p>
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## BUILD OUTS

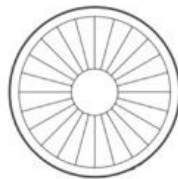
<p><b>LIGHT BLOCK STRIP</b></p> <p>Can be used as beading on fixed panels, light block behind direct mount panels and for fixing pelmets and fascia on Bypass and Bi-Fold layouts.</p> <p>Custom build-outs are available.</p>		
<p><b>HANG STRIP</b></p> <p>Used as light block on Bypass open panels, beading to cover light gaps with panel only installations and mounting frame for Bypass and Bi-Fold layouts.</p>		

## SPECIALTY SHUTTERS

### SHAPE SHUTTERS



Circle



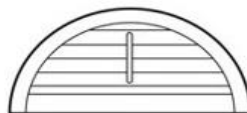
Radiating Circle



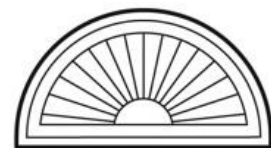
1/4 Circle



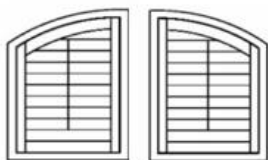
Eyebrow



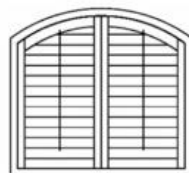
1/2 Circle



Sunburst



1/2 Arch Left & Right



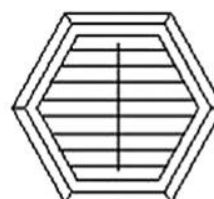
2 Panel Arch



Triangle



Octagon



Hexagon

## MINIMUM AND MAXIMUM PANEL WIDTHS AND HEIGHTS

SUNBURST LOUVRES				
SHAPE	PANEL WIDTH (MM)		PANEL HEIGHT (MM)	
	MIN.	MAX.	MIN.	MAX.
CIRCLE	508	914	508	914
HALF CIRCLE	508	1397	254	1397
¼ CIRCLE	381	1397	381	1397
EYEBROW	508	1397	228	1397
OVAL	508	914	635	1219
HEXAGON	508	914	914	914
OCTAGON	508	914	914	914
HORIZONTAL LOUVRES				
SHAPE	PANEL WIDTH (MM)		PANEL HEIGHT (MM)	
	MIN.	MAX.	MIN.	MAX.
TRIANGLE	508	914	435	788
CIRCLE	508	914	508	914
HALF CIRCLE	508	1397	254	1397
¼ CIRCLE	381	1397	381	1397
EYEBROW	508	1397	228	1397
OVAL	508	914	635	1219
HEXAGON	508	914	914	914
OCTAGON	508	914	914	914
TRIANGLE	508	914	435	788

Shapes are **not available** in ML10 or CL10 frame

Perfect half circles are available in Z-Frame

If shape is less than 750mm BZ17 is the only frame option

Sunburst - height cannot be greater than half the width

Arch - height on curve cannot be greater than half the width

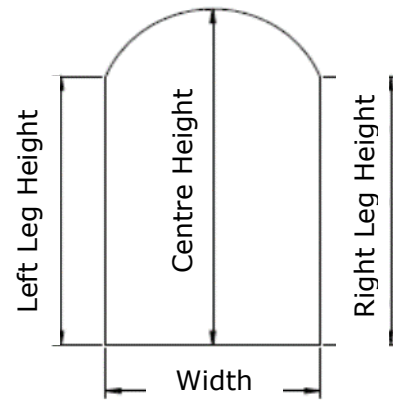
Please **call the office** for check measure sheets as quarter and three-quarter measurements are required in order to create an engineer's drawing for you to approve prior to production.

## ARCH SHUTTERS

### FULL ARCH WINDOW

#### INSIDE MOUNT

1. Measure inside reveal width in three places, provide smallest of each.
2. Provide the centre reveal height.
3. Provide the inside reveal left and right leg height.



Full Arch

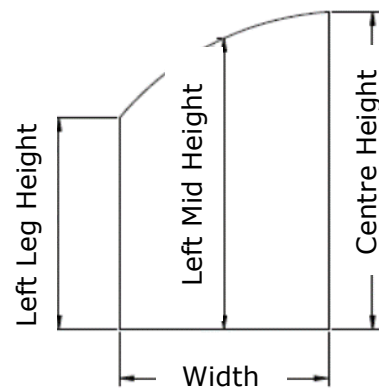
#### OUTSIDE MOUNT

1. Measure window width and height from the outside edge of the frame, provide the largest.
2. Provide the outside window height.
3. Provide the outside left and right leg height.

*NOTE: The arch height cannot be greater than half of the width*

### HALF ARCH WINDOW

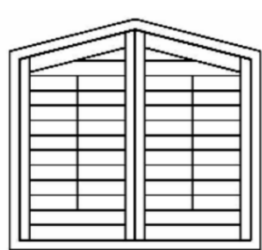
Provide measurements in the same manner as above.  
Refer to the diagram.



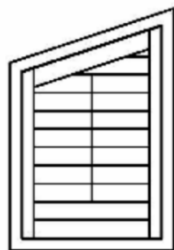
Half Arch Left



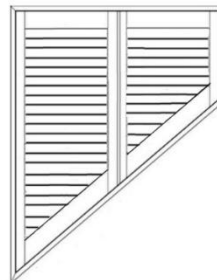
## RAKE SHUTTERS



Full Rake



Half Rake Left



Angled Shutter

### FULL RAKE SHUTTER

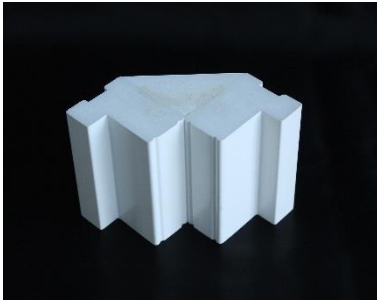
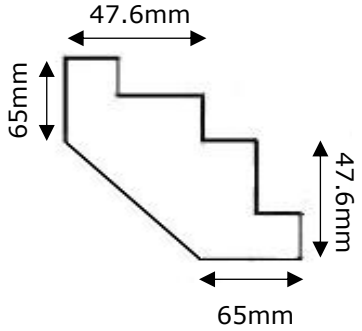
<p><b>INSIDE MOUNT</b></p> <ol style="list-style-type: none"> <li>1. Measure inside reveal width in 3 places (A), provide the smallest of each.</li> <li>2. Provide the inside reveal height of the centre (B), left (C) and right side (D)</li> <li>3. Provide the inside reveal height at <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math> positions.</li> </ol>	
<p><b>OUTSIDE MOUNT</b></p> <ol style="list-style-type: none"> <li>1. Measure the window width and height in the same manner as above but from the outside edge of the frame (provide the largest of each).</li> <li>2. Provide the outside window height at <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math> positions.</li> </ol>	

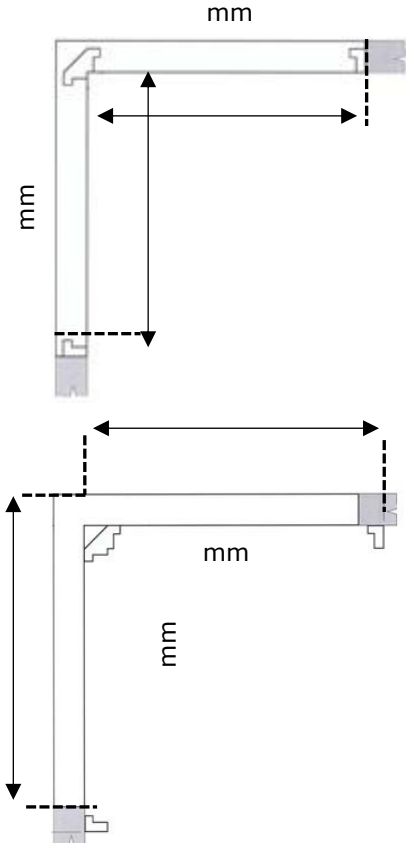
### HALF RAKE SHUTTER

<p><b>INSIDE MOUNT</b></p> <ol style="list-style-type: none"> <li>1. Measure inside reveal width in 3 places (A), provide the smallest of each.</li> <li>2. Provide the inside reveal height of the centre (B), left (C) and right side (D)</li> <li>3. Provide the inside reveal height at <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math> positions.</li> </ol>	
<p><b>OUTSIDE MOUNT</b></p> <ol style="list-style-type: none"> <li>1. Measure the window width and height in the same as above from the outside edge of the frame (provide the largest of each).</li> <li>2. Provide the outside window height at <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math> positions.</li> </ol>	

## CORNER SHUTTER

### 90° CORNER POST

<p>Used to hinge adjoining panels in corner windows where there is no frame to fix to. Available in SL10, CL10 or ML10 frames.</p>		
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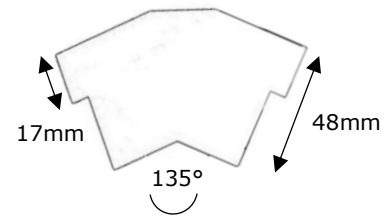
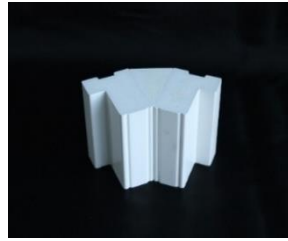
<p><b>INSIDE MOUNT</b></p> <p>Measure the inside of reveal for each section. Provide the smallest of each. L &amp; Z Frame applications.</p> <p><b>OUTSIDE MOUNT</b></p> <p>Measure the back of frame measurement for each section. Provide the smallest of each. L Frame applications.</p>	
--	---

The frame deductions for a corner shutter are as follows:

- **Z Frame** – 2mm from width of left corner, 2mm from width of right side of corner and 4mm from total height
- **L Frame** – 2mm from width of left side of corner, 2mm from right side of corner and 4mm from total height

## 135° CORNER POST

Used to hinge adjoining panels in bay windows. Recommend the use of hang strip for bay windows spanning greater than 135°. Available in SL10, CL10 or ML10 frames.



### INSIDE MOUNT 135° BAY WINDOW

Measure the inside of reveal for each section. L & Z Frame applications. Provide the smallest of each.

### 90° BOX BAY WINDOW

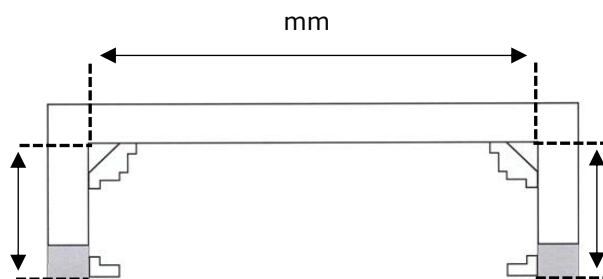
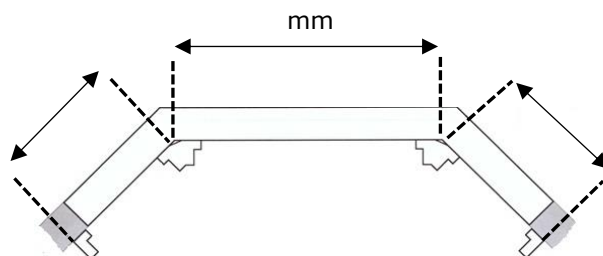
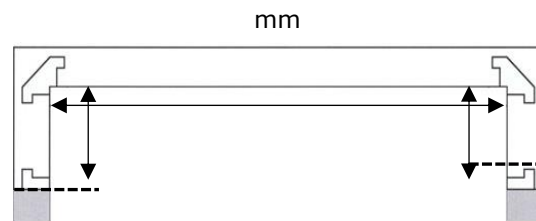
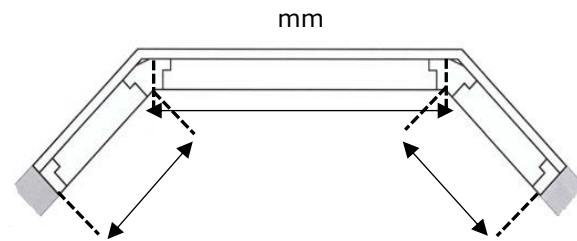
Measure the inside of reveal for each section. Provide the smallest of each. L & Z Frame applications. Please note, 90° corner posts are supplied for this style of bay shutter.

### OUTSIDE MOUNT 135° BAY WINDOW

Measure the **largest** back of frame measurements for the two side sections. Measure the smallest back of frame for the middle section. L Frame applications.

### 90° BOX BAY WINDOW

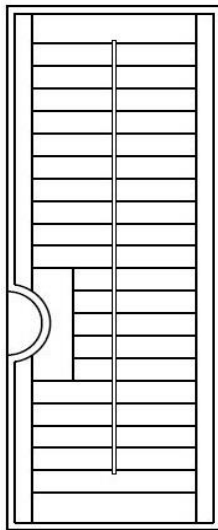
Measure the **largest** back of frame measurements for the two sides. Measure the **smallest** back of frame for the middle section. L Frame applications. Please note, 90° corner posts are supplied for this style of bay shutter.



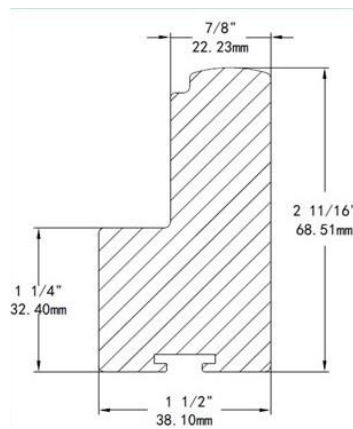
The frame deductions for a corner shutter are as follows:

- **Bay window with Z Frame** – 2mm from width of left side of bay, nil from centre, 2mm from width of right side of bay; 4mm from total height (all deductions are from back of frame).
- **Bay window with L Frame** – 2mm from width of left side of bay, nil from centre, 2mm from width of right side of bay, and 4mm from total height.

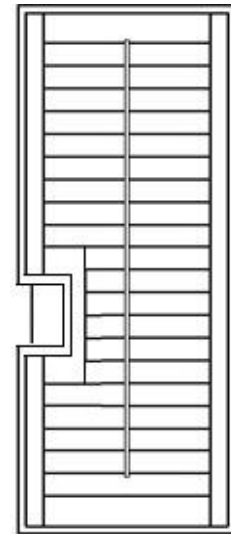
## FRENCH DOOR SHUTTERS



Curved Cut-Out



French Door L Frame

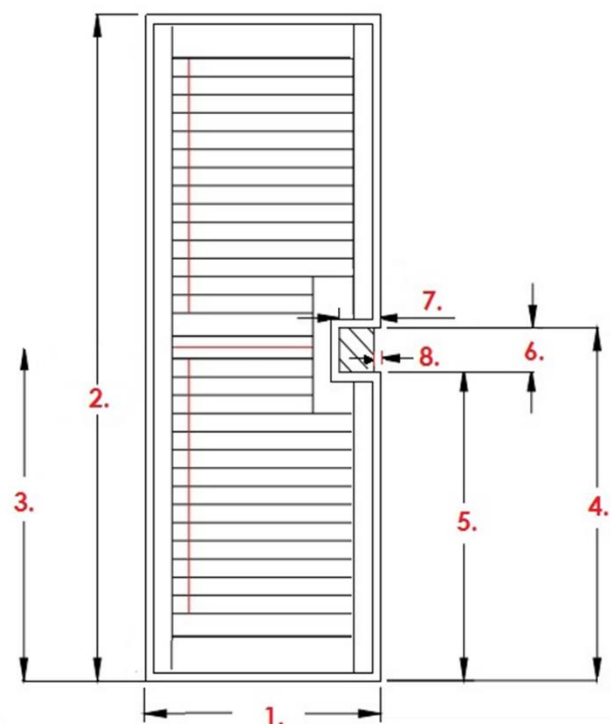


Rectangle Cut-Out

French door cut-outs can be made with SL10 Frame or French Door L Frame for a narrower profile and more depth. French Door L Frame will clear most 64mm and 89mm louvre layouts with centre tilt rod. When using hidden tilt rod with 89mm or 114mm louvres, you may need to use an extension frame or add a build-out. ML10 & CL10 Frames are only available with rectangle cut-out. (Surcharges apply). **Hidden Tilt Rod needs an extra 12mm.** Engineer's drawings are sent for you to approve prior to production. French door shutters take an extra 2 weeks in production.

Below are the measurements required when ordering a French door shutter:

1. Overall width
2. Overall height
3. Divider rail
4. Height to top of cut-out
5. Height to bottom of cut-out
6. Height of cut-out
7. Width of cut-out
8. Depth of recess for backplate



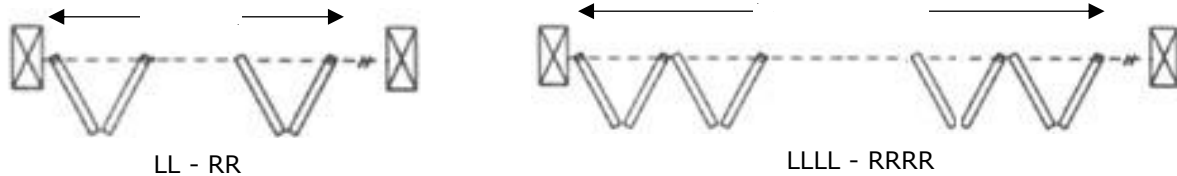
## BI-FOLD SHUTTERS



Utilising the top and bottom track to support and guide the panels, Bi-Fold shutter panels are hinged together and fold against each other to allow full view through the window or doorway. Panels can be configured to open all to one side or to either side of an opening and requires an even number of panels opening one way.

### PANEL CONFIGURATION

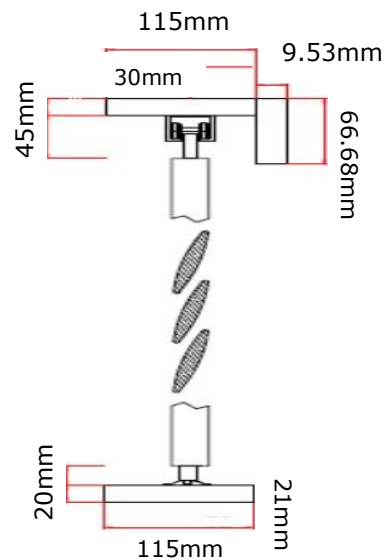
Layout codes indicate stacking direction. Panels fold inward by default with hinges at back of panels.



### TRACK BI-FOLD

The track is 30mm from the front face of the top board to the centre of the track.

1. Depth of box-out boards: 115mm for 64mm and 89mm louvres
2. Depth of box-out boards: 120mm for 114mm louvres
3. Width of Fascia / Valance: 66.68mm
4. Thickness of Box-out : 21mm
5. Clearance between Top board and panel : 48mm
6. Clearance between Bottom board and panel: 20mm for M Track and 12mm for U Track
7. Clearance between panels and sideboards: 8mm each side



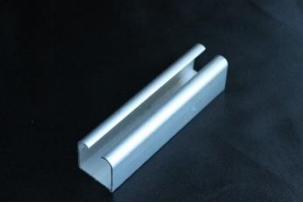
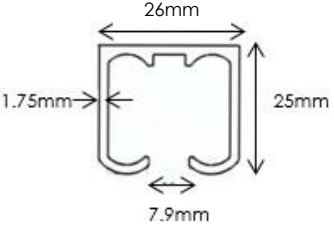
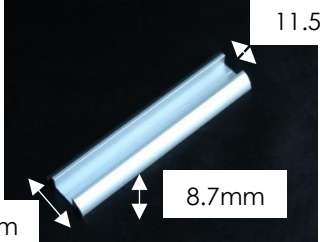
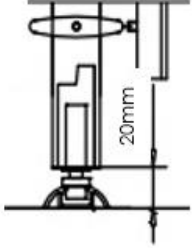

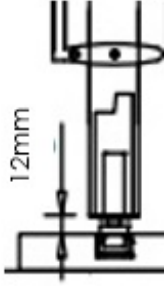
### TRACKING KIT INCLUSIONS

Tracking is charged as a kit price regardless of required number of boards, tracks etc.

Pelmet boards are supplied loose, not pre-assembled.

Kit includes loose:

- Number of box-out boards (4) requested
- 1 x fascia
- 2 x returns (if required)
- 1 x HS107 (Hang strip) the length of the Bi-Fold
- 2 x SS58 light stop the height of the Bi-Fold
- Top tracks pre-attached to headboard
- Wheel carriers & plates assembled in tracks (2 per panel)
- Floortrack if required
- Double-sided tape for floor track
- L plates for fixing fascia & returns
- TB Centre bracket to support pelmet
- Bottom guides and plates

<p><b>BI-FOLD TOP TRACK</b></p> 	
<p><b>FLOOR TRACK OPTIONS</b></p>	
<p><b>M FLOOR TRACK</b></p> 	
<p><b>RECESSED FLOOR TRACK</b></p>  <p>11.5mm</p>	 <p>12mm</p>

**HARDWARE**



L Plate for Fascia



Bottom Pivot Plate



Wheel Carrier



Bottom Pivot



TB Centre Support Bracket



Track Clamp



Bottom Guide

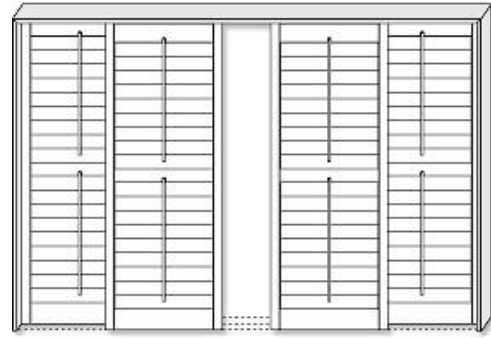
## BYPASS SHUTTERS

Bypass tracking is ideal for sliding glass doorways. Utilizing an overhead track system attached to the panels and floor tracks, panels slide horizontally across the opening.

Panels can be ordered as single panels, co-joined with hinges or single panels with centre stile.

Bypass Open - panels pass each other with louvres open or closed.

Bypass Close - louvres **MUST** be closed to allow panels to pass each other.



## TRACKING KIT INCLUSIONS

Tracking is charged as a kit price regardless of required number of boards, tracks etc. Pelmet boards are supplied loose, not pre-assembled.

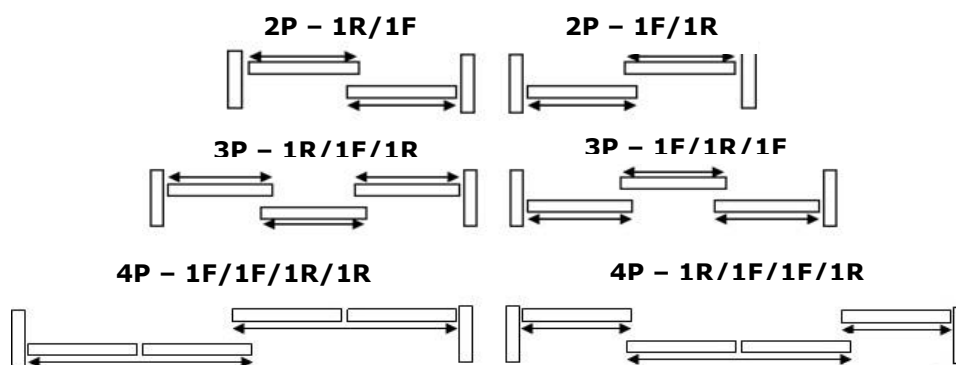
**Maximum** track length is 5000mm, if length exceeds, track will be split halfway unless otherwise specified. Kit includes loose:

- Number of box-out boards (4) requested
- 1 x fascia
- 2 x returns if required
- 1 x HS107 (Hang strip) the length of the Bypass
- 2 x SS58 light stop the height of the Bypass
- Top tracks pre-attached to headboard
- Wheel carriers & plates assembled in tracks (2 per panel)
- Floor tracks if required and bottom guides
- Double-sided tape for floor track
- L plates for fixing fascia & returns
- TB Centre bracket to support pelmet

## PANEL CONFIGURATION

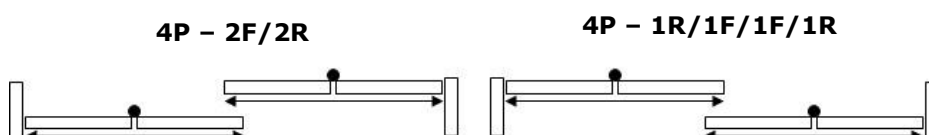
### SINGLE PANELS

Single panels have square stiles. Layouts with "1", such as 1R/1F, 1R/1F/1F/1R, are not joined where panels meet. Maximum panel width is 1000mm.



### CO-JOINED PANELS

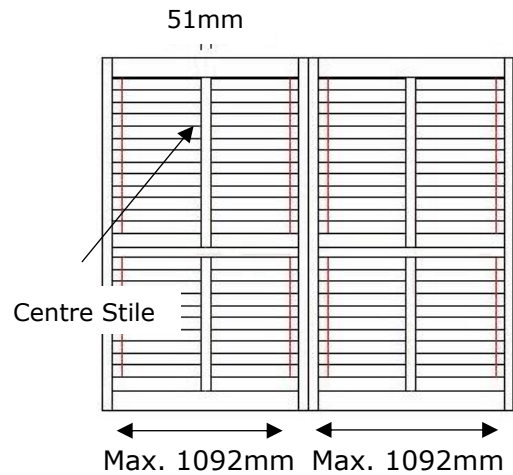
Where the layout has "2", "3", "4" such as 2F/2R, 3R/3F etc. then panels are co-joined at the rear with hinges where panels meet. Maximum panel width is 1000mm.



## SPLIT PANELS

Where bypass panels greater than 1000mm are required, a centre stile can be used for extra strength.

The maximum panel width is 1092mm.

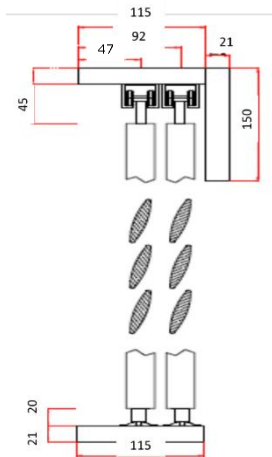


## TRACK LOCATION

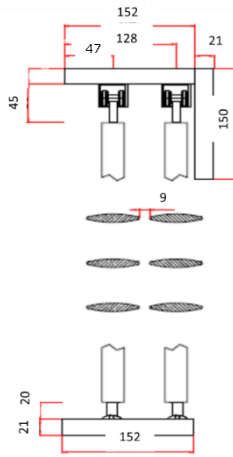
### 64MM OPEN AND CLOSE BYPASS

The first track location is 47mm from back face of top board to centre of track.

64mm Bypass Close (Default)



64mm Bypass Open



Width of Valance: 150mm

Thickness of Box-out: 21mm

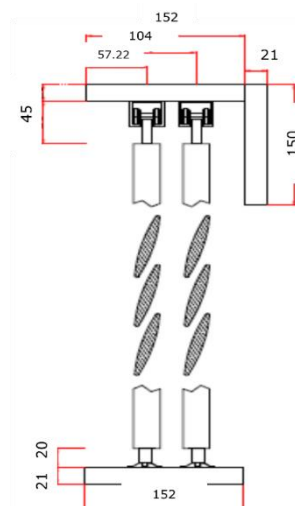
Clearance between top board and panel: 48mm

Clearance between panels and sideboards: 8mm

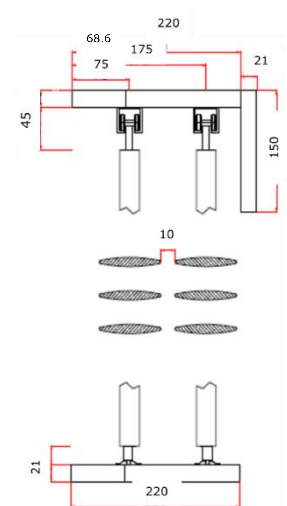
### 89MM OPEN AND CLOSE BYPASS

The first track is 55.22mm from back face of top board to centre of track.

89mm Bypass Close (Default)



89mm Bypass Open



Width of Valance : 150mm

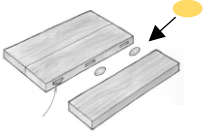
Thickness of Box-out : 21mm

Clearance between top board and panel: 48mm

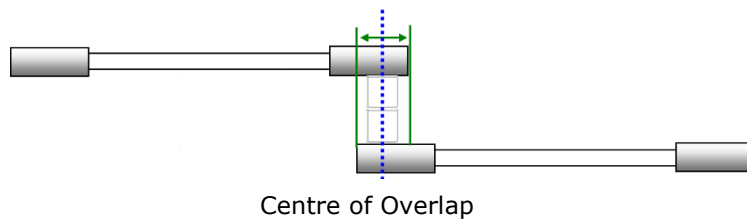
Clearance between panels and sideboards: 8mm



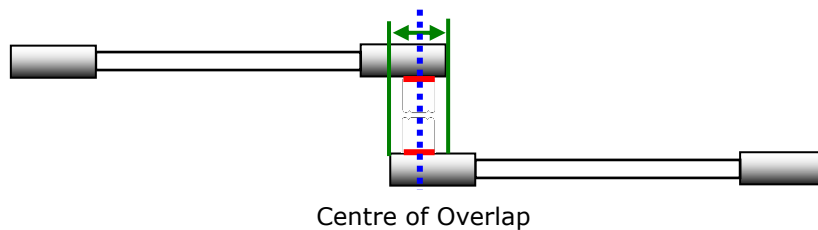
## BOARD DEPTHS

64mm Louvres	2 track bypass closed: 115mm 2 track bypass open: 152mm 3 track bypass closed: 152mm 3 track bypass open: 224mm joined board	
89mm Louvres	2 track bypass closed: 152mm 2 track bypass open: 220mm joined board 3 track bypass closed: 200mm joined board 3 track bypass open: 314mm joined board	
114mm Louvres	2 track bypass closed: 152mm 2 track bypass open: 245mm joined board 3 track bypass closed: Not available 3 track bypass open: Not available	

## BYPASS OPEN LIGHT BLOCK 64MM LOUVRES



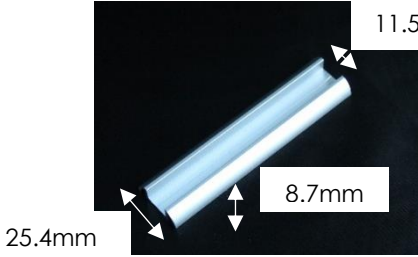
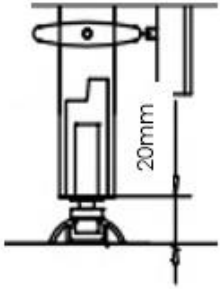
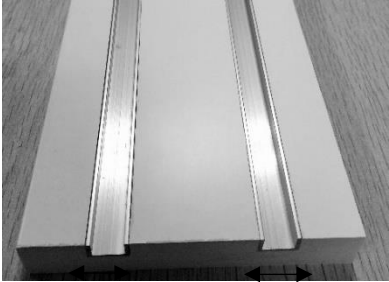
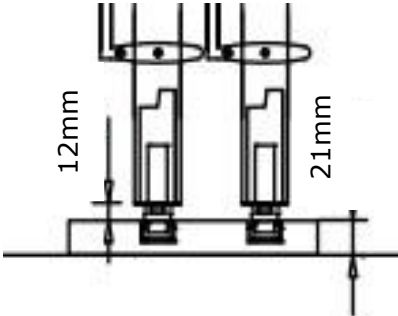
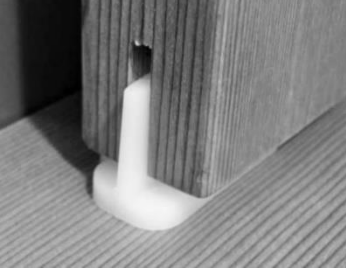
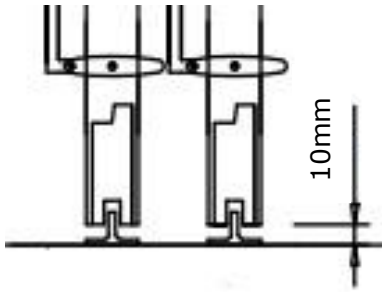
## BYPASS OPEN LIGHT BLOCK 89MM LOUVRES



## BYPASS TOP TRACK



## BYPASS FLOOR TRACK OPTIONS

<p><b>M FLOOR TRACK</b></p> 	
<p><b>RECESSED FLOOR TRACK</b></p> 	
<p><b>NYLON FLOOR GUIDES</b></p> 	

## HARDWARE



L Plate for Fascia



Carrier Plate



Wheel Carrier



Bottom Guide



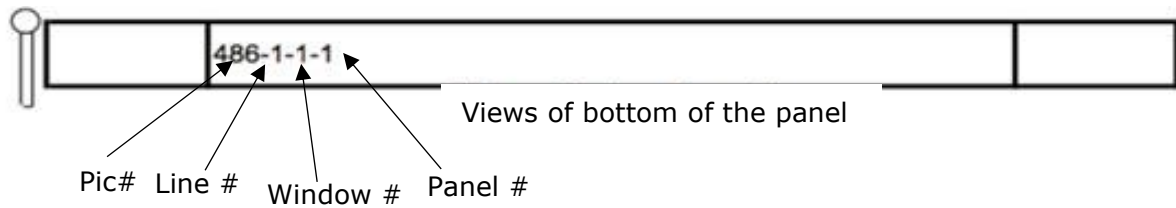
10cm TB Centre Support Bracket for 152mm boards



18cm TB Centre Support Bracket for 220mm boards

## SHUTTER MARKINGS FROM THE FACTORY ON DELIVERY

### PANELS



- Pic, Line / Item, Window and Panel numbers are stamped onto the panel as shown below:
- The LWP # of 1 1 1 above means Line 1, Window 1, Panel 1.
- If you had a 2x panel layout on one line (item 1), the numbers would relate to 1 line of 1 window and the panels would be numbered 1 1 1 and 1 1 2.
- If you had 2 x 1 panel shutters on 2 lines (items 1 and 2), then the LWP numbers would be 1 1 1 for the first one and 2 1 1 for the second one.
- If you had a 1 x panel shutter with a quantity of 3 on one line, then the LWP would be 1 1 1 for the first one, 1 2 1 for the second and 1 3 1 for the third.

### FRAMES

- Frames are stamped in blue ink on the mitres of each end of the frame length as below:  
PIC# - Item/Line# - Window# - Corner#
- **WORKING CLOCKWISE - Corner 1 is the bottom right-hand corner**, corner 2 is the bottom left, corner 3 is the top left and corner 4 is the top right-hand side.
- Window and Line number increase just like the panels do.
- Frames are labelled with stickers advising frame side: L - T - R - B.

### PACKAGING

- Single panel shutters are packaged fully assembled in frame with corner brackets.
- Multiple panels are packaged with maximum 2 x panels per carton and frames in a separate frame box. Polystyrene inserts and corners are used to suspend and protect panels.

## MARKETING ESSENTIALS



**PULL UP BANNER**

**\$158.00+GST**



**SAMPLE SUITCASE**

**CASE**

**\$299.00+GST**



**FUSION PLUS GLOSS BROCHURE**

**FPBR**

**FREE UP TO 50 COPIES**

**38c EACH (FREIGHT FEES APPLY)**

## USE, CARE AND MAINTENANCE OF FUSION PLUS SHUTTERS

Fusion Plus Shutters are unsurpassed for quality in appearance and structure and are manufactured to last. Like all home furnishings however, they need proper care and regular maintenance in order to prolong their life.

### OPERATING FUSION PLUS SHUTTERS:

- Before opening hinged panels or operating sliders or Bi-Fold, ensure louvres are closed to prevent damage.
- When sliding Bypass panels, ensure louvres are closed to prevent louvres from clashing.
- When opening Bi-Folds, start in the centre or the end of the stack, and stack the panels together as you go.
- Glides and magnetic catches are installed to help compensate for movement of panels within the frame.
- Panels will naturally flex when opening and closing and should be assisted by slightly lifting the panel against the magnetic stop.
- Do not force or slam shutters closed as this will cause damage to both the shutter and the framework.
- Never swing or place any weight on the shutter.
- When adjusting louvres by hand, move two louvres simultaneously and stop if you feel any resistance.
- Never tilt one louvre on its own as you may cause damage to the clear view mechanism or louvre.

### MAINTAINING FUSION PLUS SHUTTERS:

- Rotate louvres daily.
- Keep any tracks free of dirt and grit weekly; use a **silicone spray** lubricant if necessary.
- Regularly clean louvres with a soft slightly damp cloth to remove dust.
- **NEVER USE** hot water, alcohol, silicon-based sprays, solvents, chlorine-based cleaners, steel wool, scourers, or abrasive cleaners on the shutters as they may affect the surface appearance and durability.
- Do not use undue weight or pressure on the louvres whilst wiping.
- If any louvres come loose, use the tension screw to tighten again (located at the side of the shutter panel).

#### NOTE:

Details contained herein are provided as a matter of general information and does not constitute as specific advice. You should seek your retailer's advice to ensure that any information or suggestion meets your specific requirements.

## CLAIMING UNDER WARRANTY

When claiming under this Warranty for Fusion PLUS Shutters, you must:

1. Contact the original dealer if your purchase was not directly made through Windowworld Decor.
2. The original dealer **MUST** submit a **Warranty Request** by email to Windowworld Décor clearly outlining the related order number, the item number(s), the panel number(s), and the issue.
3. All claims must be substantiated with **proof** of the error or defect. This can be done by attaching a photograph to your claim.

*\*NOTE - Please ensure you have a photograph of the **entire window / shutter** and also a **close up/ detailed** photograph of the problem, sufficient to identify the problem. If the problem exists on more than one panel, you must supply a **photograph for each shutter panel**.*

4. Send the completed request to blindorders@windowworlddecor.com.au
5. The **Warranty Request** will be assessed by Windowworld Decor and if accepted as a defect of material or labour, will be processed and sent onto the factory of manufacture for re-supply or repaired or replaced in-house with Windowworld Decor depending on stock availability.
6. If the request is confirmed as a defect the order will be deemed a \*Rework and recorded as the original order number with an RW prefix to identify it as a rework. If the request is not confirmed as a defect, it will be recorded as the original order number with an RO prefix to identify it as a \*\*Re-Order.

\*A **Rework** is considered to be any order for repair, replacement, partial replacement, or parts that relate to a previous order, where the factory is at fault. Windowworld Decor is responsible for the cost of the replacement or parts required to complete the warranty claim.

\*\*A **Re-Order** is considered to be any order for repair, replacement, partial replacement, or parts that relate to a previous order, where the customer / dealer is at fault. The customer or dealer is responsible for the cost of the repair, replacement or parts required to complete the warranty claim.

### **Procedures to submit a claim under this warranty.**

1. Submit details of your claim Including images.
2. Company name, address, email & telephone number.
3. What you consider to be a defect and the circumstances in which the defect appeared and that you wish to claim under this warranty.
4. Proof of purchase of the product and details of the date and place of purchase.

## WARRANTY AND REPAIR

Windowworld Décor Warranty and Rework Policy covers the repair or replacement of Fusion Plus shutters from the date of purchase to the original purchaser only. Repair or replacement will occur if Fusion Plus shutters are found to be defective in materials or workmanship when properly installed internally and maintained in residential dwellings for the periods below.

Extrusion:	20 years
Hardware:	5 years
Colour Fastness of Paint Finish:	5 years

This warranty is to you, the original purchaser only.

This warranty is in addition to any other statutory obligations required in the State or Territory of the premises, and supersedes all other warranties, both expressed and implied.

We warrant these products free from defects within the following Acceptable Standard Guidelines:

- If a defect is visible with the naked eye in natural daylight at a distance of 1.5 metres, it is not acceptable
- If a defect is not visible with the naked eye in natural daylight at a distance of 1.5 metres, it is acceptable

## WHAT IS WINDOWWORLD DÉCOR'S RESPONSIBILITY?

We guarantee that we will repair or replace at our sole discretion any parts or items deemed to be suffering from a defect. We, where possible, will repair or replace any product using identical components. If the designs and/or styles have been altered or upgraded, we will replace any components suffering from a defect with a part or product of comparable quality and value.

## PRODUCT USE

The warranty is ex-factory and restricted to supply only. This warranty is only valid for the original purchaser or first end user and is at the sole discretion of Windowworld Décor management.

**The warranty excludes any shipping, compensation for labour, or other associated costs with the installation, re-installation and removal of shutters or parts and all liability for consequential or incidental damages from any cause whatsoever, and does not include:**

- Normal wear and tear.
- Installation damage to the window(s) or premises.
- Damage resulting from misuse or abuse.
- Installation/use of the product outside the Windowworld Décor specification guidelines.
- Damage resulting from an external installation of Fusion Plus or any other PVC shutter.
- Use of components not supplied by Windowworld Décor.
- Any alterations made to the original shutter panels as supplied.
- Incorrect or insufficient care, cleaning, and maintenance.
- Use of silicon-based sprays or abrasive cleaning agents on product.
- Damage resulting from fire, flood, or other natural disasters or Acts of God.

## RIGHTS UNDER STATE LAW

This warranty shall be governed under the Laws of Australia. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. To replace or repair the product is at the sole discretion of Windowworld Décor.

**Windowworld Décor are not responsible for the removal, re-installation or shipping charges associated with the warranty service.**