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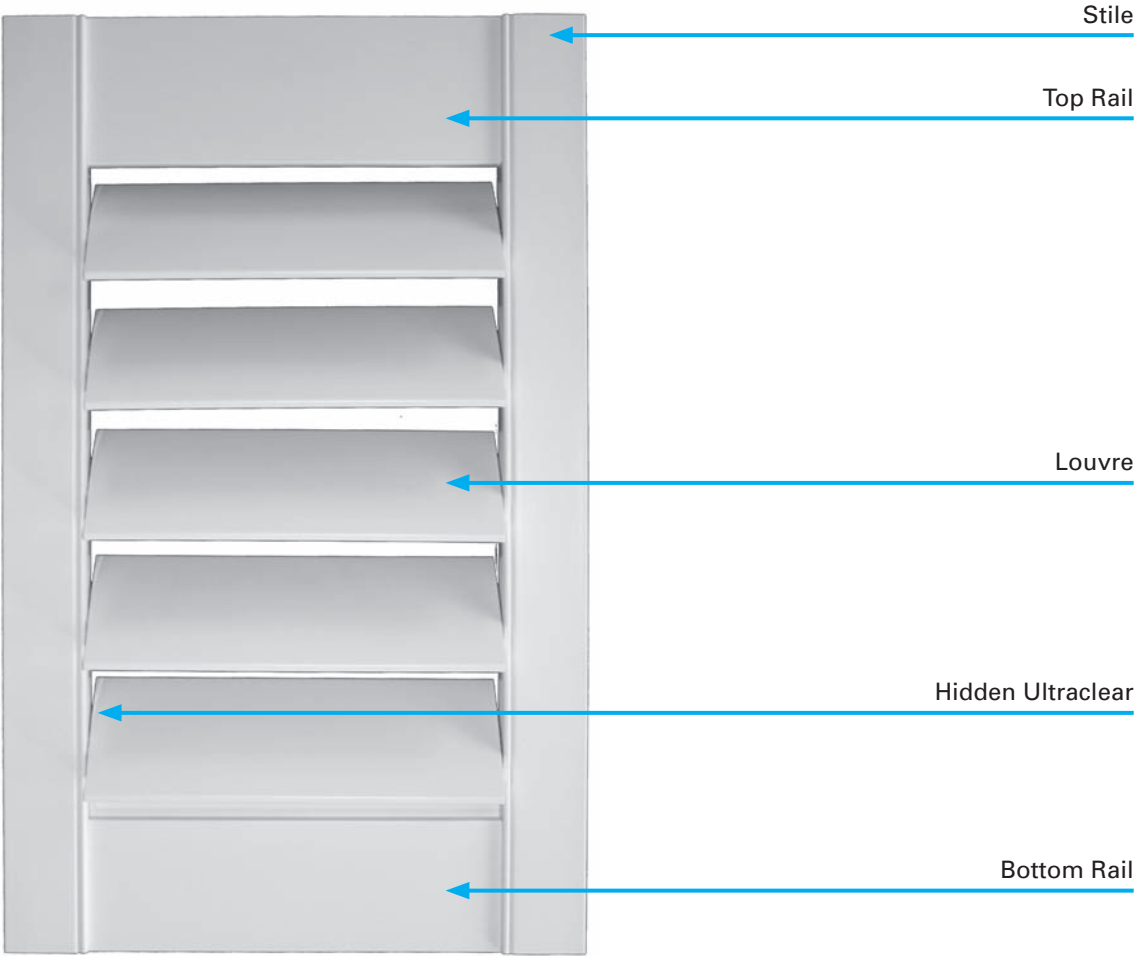
# BENEFITS & FEATURES

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- **Australian Made**  
Made in our new and modern factory, situated at 141 Bluestone Circuit, Seventeen Mile Rocks, Queensland.
- **Traditional Look**  
Made with the distinctive appeal of a Plantation Shutter, but with the innovation of our patented Polymer Foam.
- **25 Year Transferable Warranty**  
Unlike other companies that warranties stop only with the original owner, a Thermalite warranty is transferable to all owners of the home the Thermalite Shutters are installed, thus ensuring a true asset gain when your home is sold.
- **Will Never Crack, Warp, Shrink Or Discolour**  
Manufactured from our unique Polymer Foam, these shutters are guaranteed to outlast and outperform any other shutter on the Australian market.
- **Minimal Maintenance**  
No need to sand, paint or replace broken connectors. A simple wash regularly with warm soapy water and your Thermalite Shutters will be as good as new.
- **Louvre's Will Never Lose Tension**  
With our patented technology, you are assured your Thermalite Shutter will work as well as when just installed.
- **15 Working Days Delivery Time**  
With the advantage of a locally made product, your shutters will be shipped within 15 working days.
- **Exclusive Ultraclear Mechanism**  
This world wide patented system allows effortless operation of the louvre's with no possibility of loose and annoying connectors breaking and disabling your new Thermalite Shutters.
- **Looks & Feels like Wood - Not Plastic**  
Have the look and feel of a traditional plantation shutter - why settle for a cheap, translucent plastic copy.
- **Internal & External Applications**  
The beauty of this product allows you to use your Thermalite Shutter internally or externally as it is completely weather resistant.
- **Flame Retardant**  
Being fire retardant and self extinguishing, Thermalite is well suited to residential or commercial projects.
- **Water Resistant**  
Perfectly suited for bathrooms, kitchens or any "wet" areas, Thermalite will not swell, warp or crack.
- **Environmentally Friendly**  
100% fully recyclable material, no trees lost here.
- **Insulates 3 Times Greater Than Timber**  
With a great R-Value, this will reduce the heat coming in during summer as well as keep the warmth in over winter.
- **Dents Can Be Warmed Out**  
Minor dents can usually be "warmed out" using applied warmth.
- **Reduces Energy Costs**  
Being a superb insulator, this product will reduce your heating and air-conditioning costs dramatically.
- **Made From Non Toxic, Recycled Materials**  
No toxins are used in any Thermalite material. Thermalite is also made using recycled material.
- **Termite Proof**  
The dense unique Polymer Foam is 100% Termite Proof
- **Clean With Soapy Water**  
Being the most maintenance friendly shutter on the market, all you need is a little warm mild detergent to remove most grime. We also recommend a wipe and occasional silicon spray on all moving parts (i.e. wheels, guides etc).

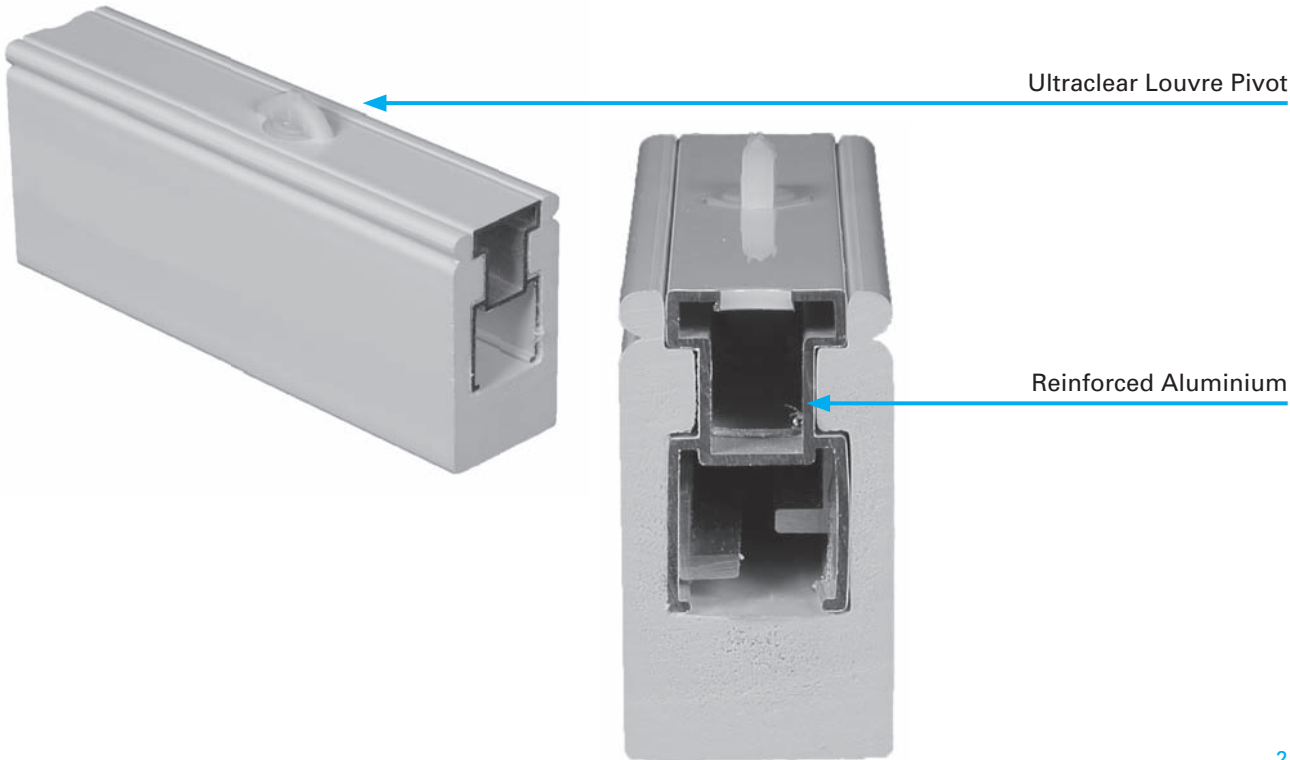
# SHUTTER BASICS

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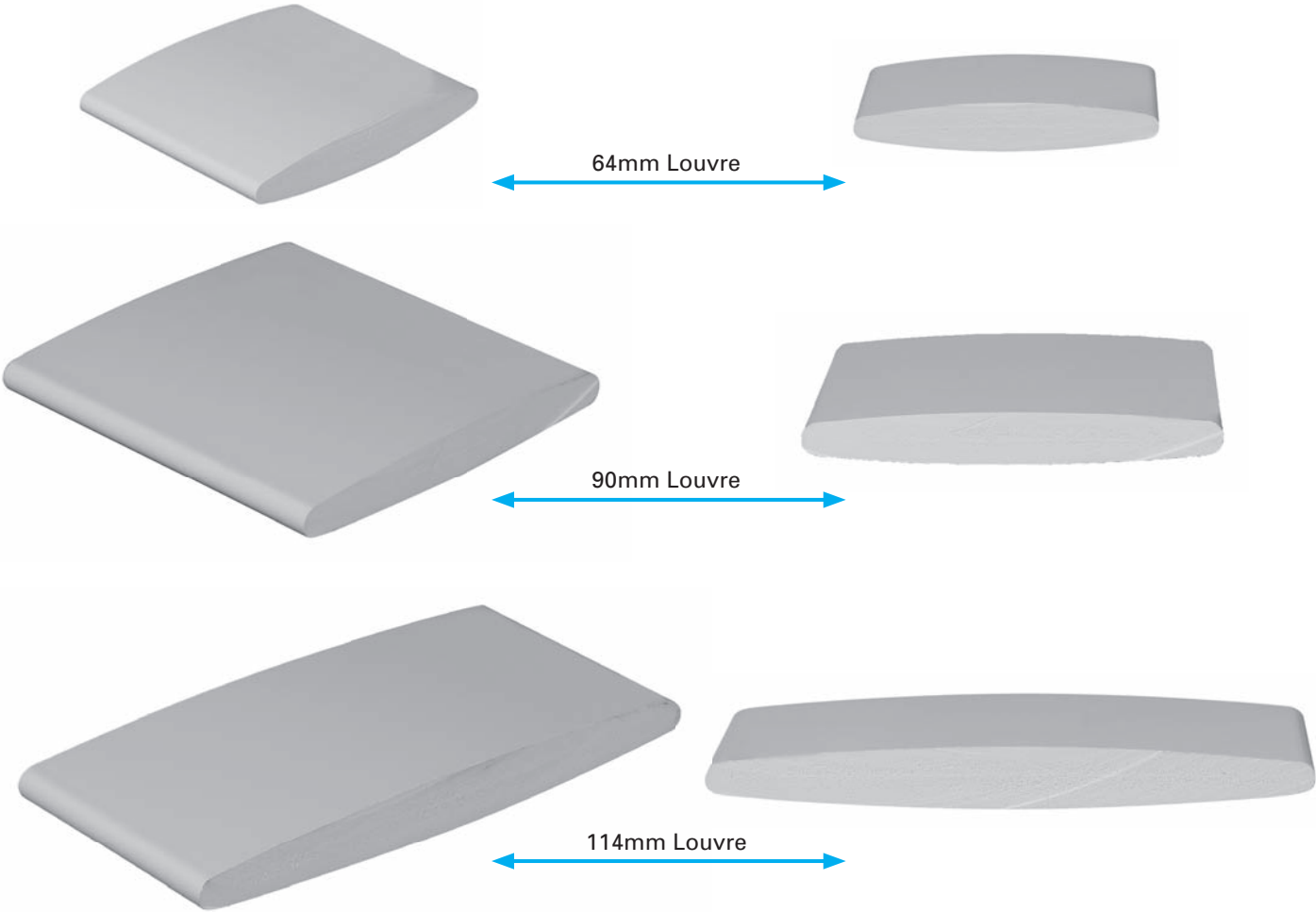
# ULTRACLEAR MECHANISM

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# LOUVRE'S & MID-RAILS

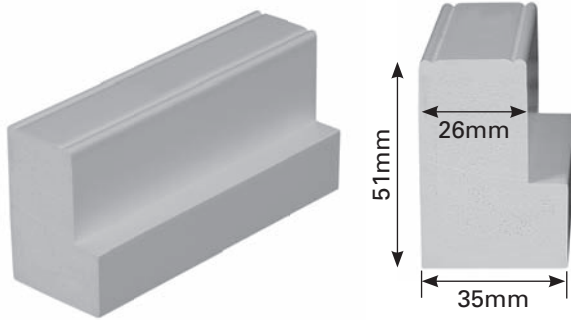
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Co-ordinated Mid Rail

# FRAMES & APPLICATIONS

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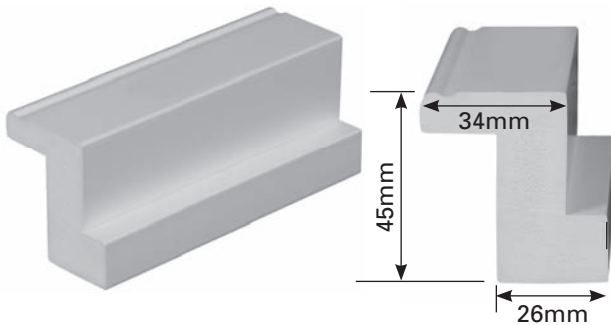


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## L- FRAME

The L-Frame can be used as a reveal mounting frame or placed onto a wall or architrave and used as a face mounting frame. For a reveal mount option, there is a very strong likelihood caulking will be required. This is due to the vast majority of windows not being square.

**“Face or reveal – all options covered”**

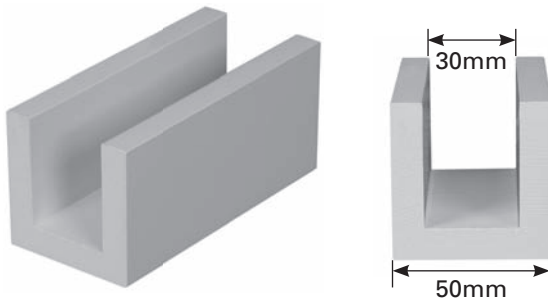


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## Z- FRAME

Perhaps our most popular framing option, this is a reveal only frame. Superb for that slightly out of square window, as the “Z Wings” cover any gaps up to 10mm. Therefore the shutter can be easily installed, your fitter needs no gap filling time and can move straight onto the next window or job.

**“Keeps your fitting cost down”**

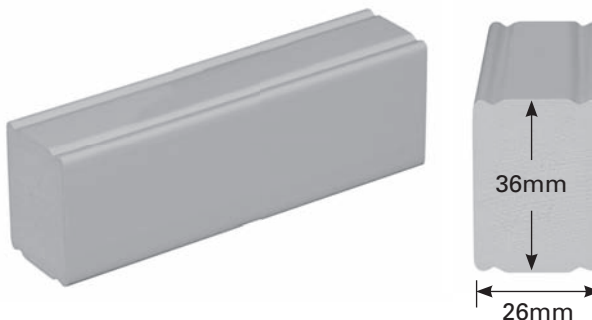


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## U- CHANNEL

The U-Channel is often used in wall cut-outs, between adjoining rooms, or also when an easy removing option is required. This is a simple operation of lifting the shutter into the top U-Channel and then dropping the bottom of the shutter into the bottom U-Channel (just like your normal glass sliding windows).

**“Ease of access option”**

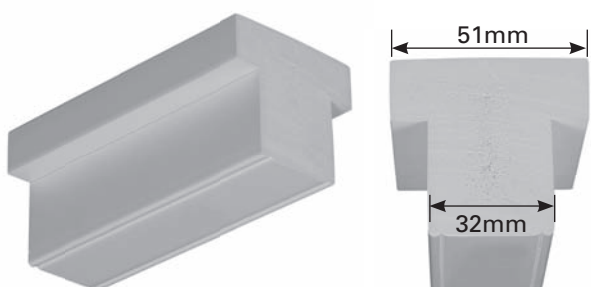


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## MOUNTING FRAME

The mounting strip framing can be used for a number of applications. It is used in conjunction with bent leaf hinges, or as beading to act as a light block with no frame shutters, or even as packing in some instances.

**“Multi purpose framing”**



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## T-POST

The T-Post is used in multiple hinged panel situations. Ideally the T-Post is placed in front of any Window Mullion, providing a clear view through the shutter. The T-Post is screwed directly onto the frame and has the added effect of firming up the frame.

**“Allows a single frame multi panel option”**

## ADDITIONAL ACCESSORIES



### STILE INSERT

The re-enforced aluminium insert is used in all panels to create a stronger engineered structured shutter.

### LOUVRE INSERT

Similarly to the stile insert, the louvre insert is used to strengthen the louvre blade for those larger openings or exterior applications.

### LOUVRE PIN

This self lubricating pin is a key component within the Ultraclear System.

## PRODUCT SPECIFICATIONS

Description	Code	Drawing
64mm Contour Louvres	CLV-2.5	
10mm Contour Louvres	CLV-3.5	
90mm Aluminium Reinforced Louvres	CLV-3.5-ALU	
114mm Contour Louvres	CLV-4.5	
114mm Aluminium Reinforced Louvres	CLV-4.5-ALU	

# PRODUCT SPECIFICATIONS

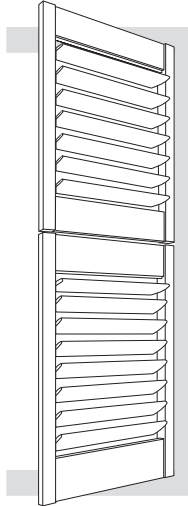
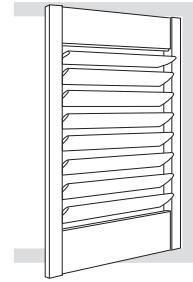
Description	Code	Drawing
50mm Style Regular - no flap	TY-SRG	
50mm Astragal Stile	TY-AGS	
Stile Ruler (pre-drilled holes for 64, 90 or 114mm louvres increment) (blank hole rule)	H-SR	
Aluminium Box Section (inserted into the stiles)	AL-ST	
Tilt Rod	TY-TR	
140mm Pelmet Facia	PLT-01	

# PANEL STYLES

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## **PANEL 1-R (right)**

This is very basic. Panel number = 1 and it is hinged on the right. Obviously if it was hinged on the left, it would be **1-L (left)**. Using hirline or pivot hinges.

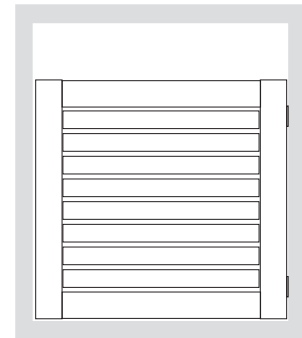


## **PANEL 1-Tier/Tier R (right)**

This is used for the traditional dual hung shutters. By stating Tier/Tier shows you require a tier. This is charged obviously as a 2 panel project. Hinged on the left, it would be **1-Tier/Tier L (left)**.

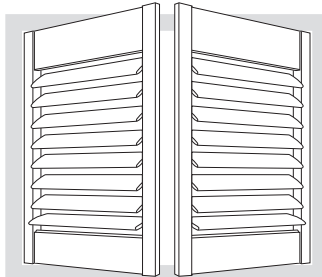
## **CAFE STYLE 1-Cafe R (right)**

This is occasionally used when a full frame is required, however only a designated size single panel is needed. Hinged on the left, it would be **1-Cafe L (left)**. (Frame size and panel size required.)



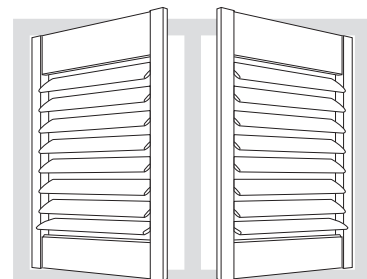
## **PANEL 2-L/DR (left & right)**

This is following the simplistic nature formula. Panels = 2, (panel 1 is hinged on the left; the second is hinged on the right). The “/” represents no join. The “D” represents an astragal stile on left side of the right panel. Using hirline or pivot hinges.



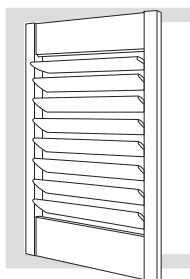
## **PANEL 2-LTR (left, T-post, right)**

When using a T-Post, the “T” becomes part of the panel configuration. As above, panels = 2, (panel 1 is hinged on the left, then we have a T-Post, then the second is hinged on the right). Using hirline or pivot hinges.



## **PANEL 2-LDL (left, left)**

When using pivot hinges, numerous panels can be configured into the frame without the need of T-Post. A “D” strip is attached to eliminate the light gap. Using pivot hinges only.

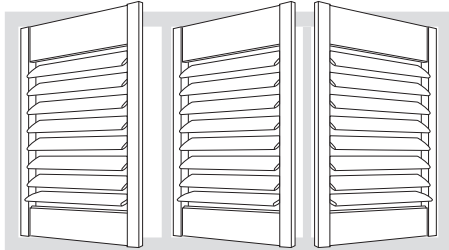
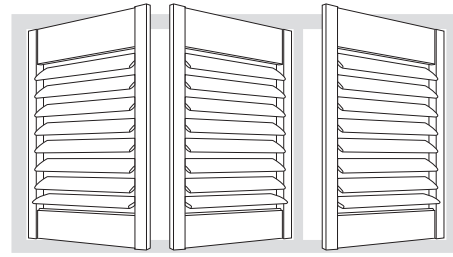




# PANEL STYLES

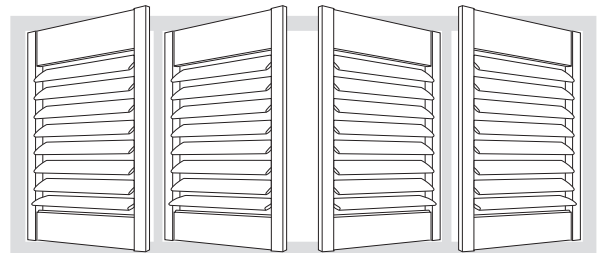
## **PANEL 3-LD/RTR (left/right, T-post, right)**

To enable a larger panel configuration, use a T-Post to obtain a greater panel size usage. P3L/DRTR or P3LTLDR will achieve a larger result.



## **PANEL 3-LTLTR (left, T-post, left, T-post, right)**

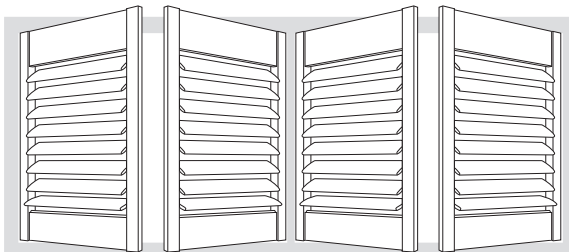
This configuration achieves the maximum window coverage on a 3 panel shutter. Using any configuration, the use of a T-Post allows you to hinge either R (right) or L (left).



## **PANEL 4-LTL/DRTR**

**(left, T-post, left/right, T-post, right)**

This configuration is the "A" typical window scenario. A fixed panel in the middle, one sliding panel at each end.

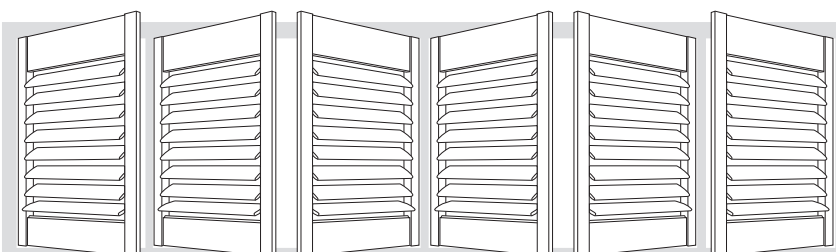
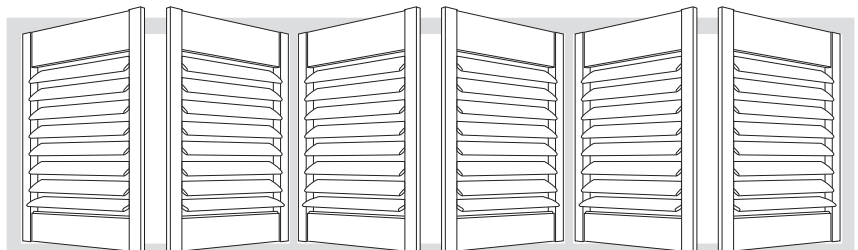


## **PANEL 4-L/DRTL/DR (left, right, T-post, left, right)**

This configuration uses some of the previous layouts. Both Hinged and Bi-fold work effectively to achieve this Shutter Configuration.

## **PANEL 6-L/DRTL/DRTL/DR (left/right, T-post, left/ right, T-post, left/ right)**

Again utilizing the T-Post allows greater coverage over a window opening.



## **PANEL 6-LTL/RTLDR/RTR**

**(left, T-post, left/ right, T-post, left/ right, T-post, right)**

Further utilization of the T-Post allows different configuring of the design in the shutter.

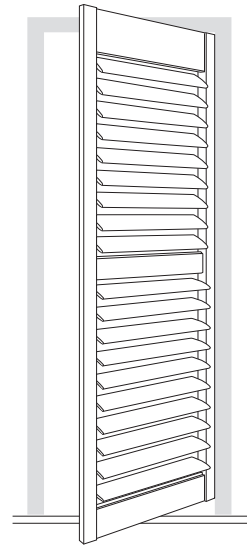
# PANEL STYLES

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## PANEL 1-Door -R

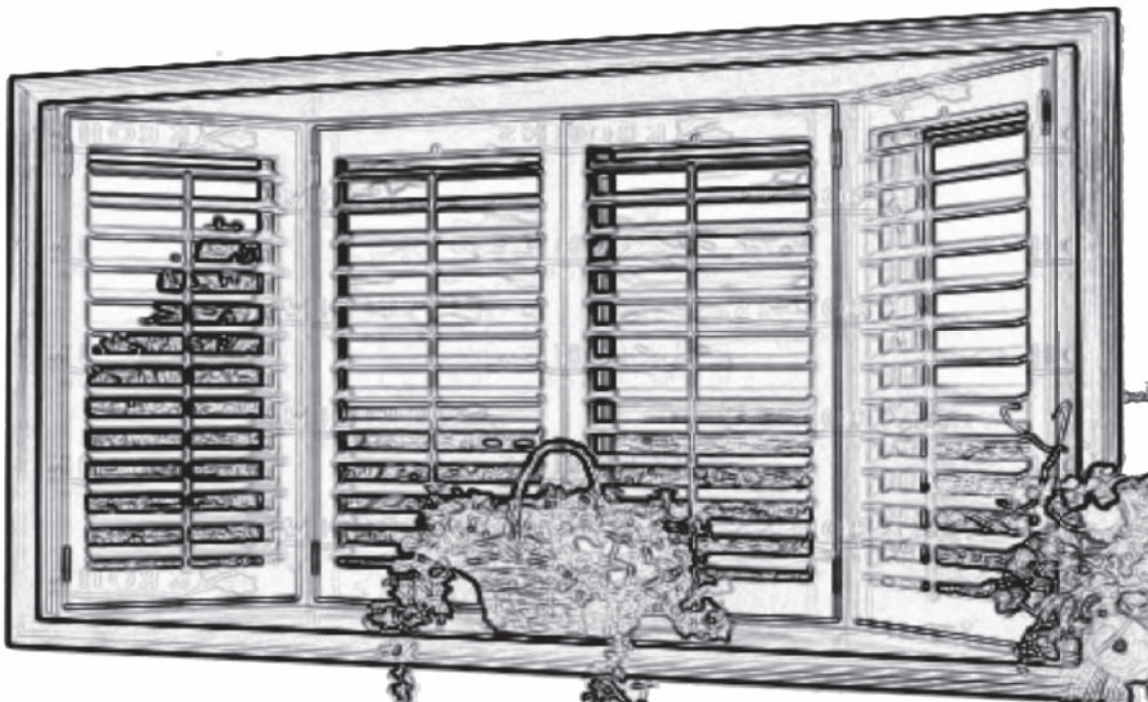
When using a “door” in the configuration, this will mean you require a “door” panel and hence this will be made using sufficient ground clearance. This applies when no frame is required at the bottom.



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## BAY WINDOWS

Utilizing our custom made bay post, you are able to fully co-ordinate matching windows with Thermalite look throughout the home.



# SHAPED WINDOWS

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In these scenarios you are required to measure the widest and highest points on your opening, and then work out the square metreage price. You then add \$250 per panel for the shape.

# THE CORRECTLY DESIGNED SHUTTER

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## What you need to look for?

Before you even commence to show product, or start to measure you need to follow these simple steps.

### Options:

- What does your customer expect the shutters to achieve?
- Explain what colours are available to show your customers?
- Discuss what louvre blade they would like?
- What frame best suits the environment/situation?
- Explain where divider rails will be positioned.
- Reveal or face mount?
- "Frame the window".

### Obstructions:

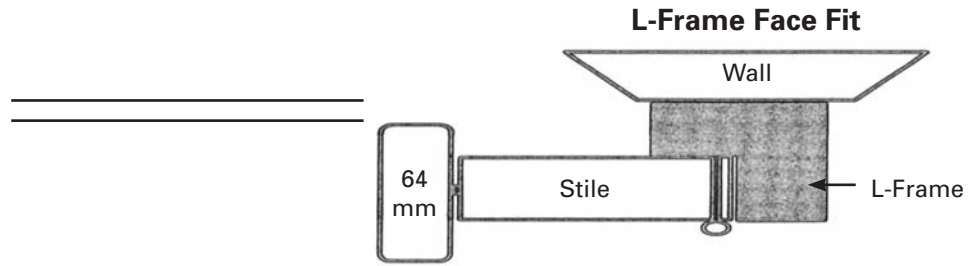
- Look for window crank handles.
- Is there a protruding cyclone bar?
- Swinging radius of the shutter panel
- Is the architrave protruding onto the clearance?
- Will the window lock interfere with the louvre rotation?

### Depth Clearance:

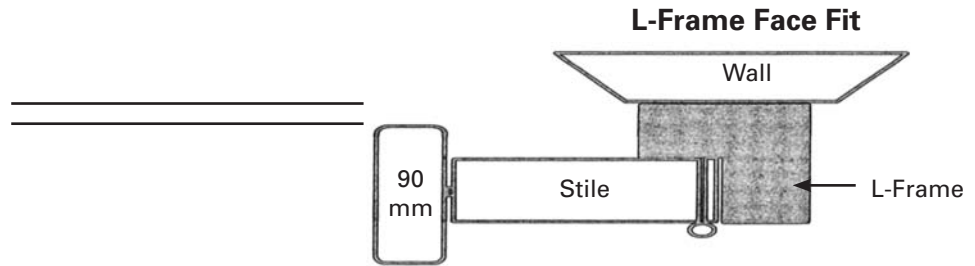
- Ensure your customers louvre selection will clear all obstacles.
- Use your framing and shutter panel to ensure this.

# CLEARANCES

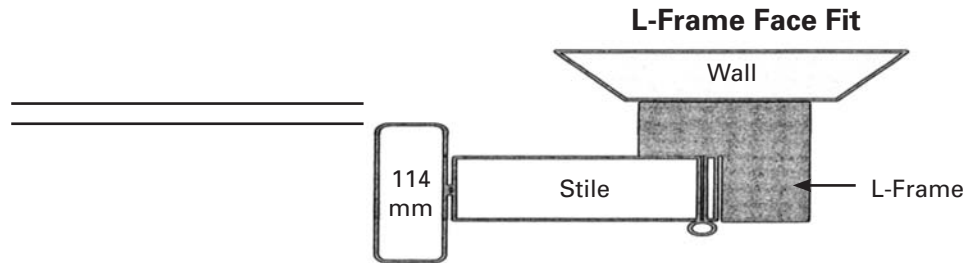
Depth Clearance  
required on a  
64mm blade is  
**- 0mm**



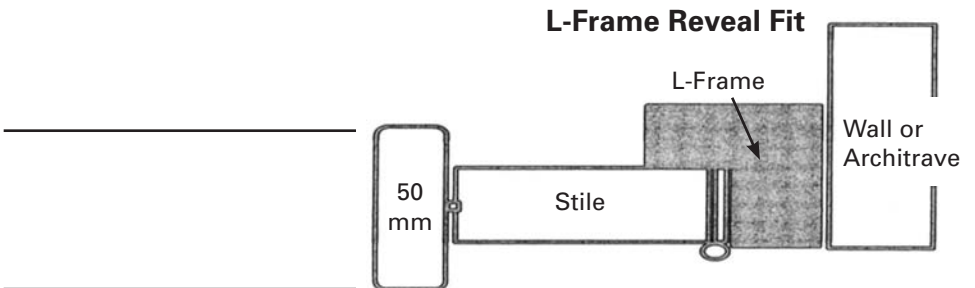
Depth Clearance  
required on a  
90mm blade is  
**- 10mm**



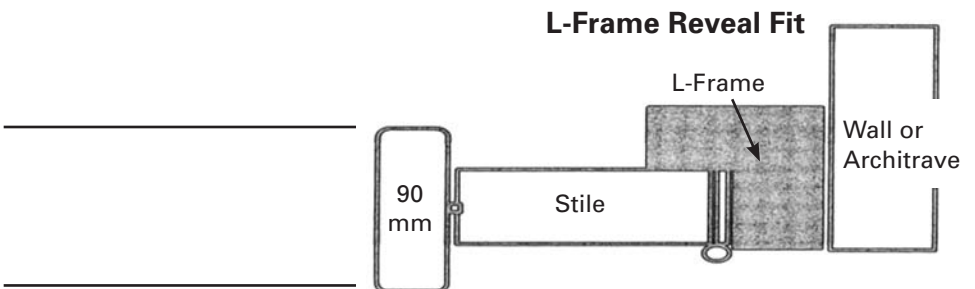
Depth Clearance  
required on a  
114mm blade is  
**- 25mm**



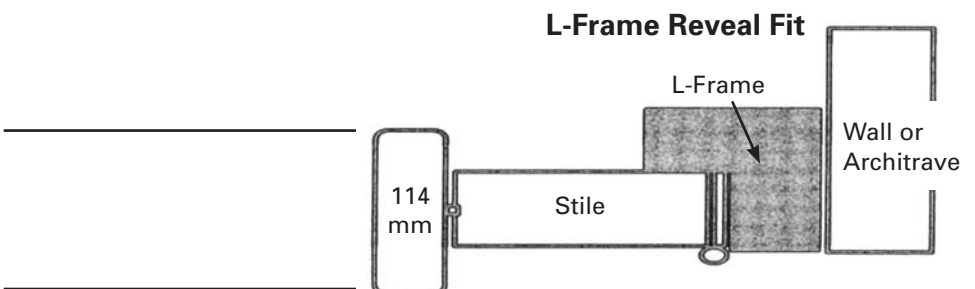
Depth Clearance  
required on a  
64mm blade is  
**- 50mm**



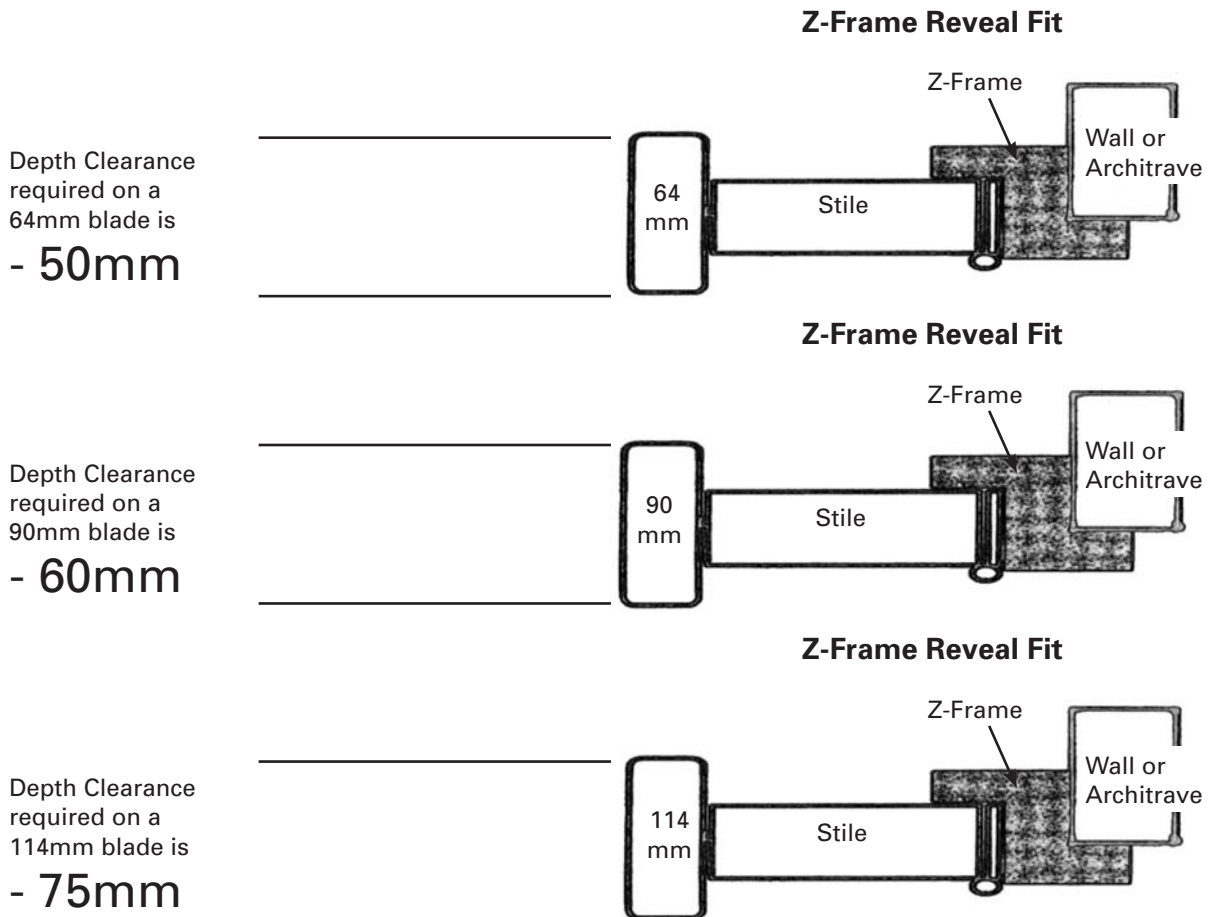
Depth Clearance  
required on a  
90mm blade is  
**- 60mm**



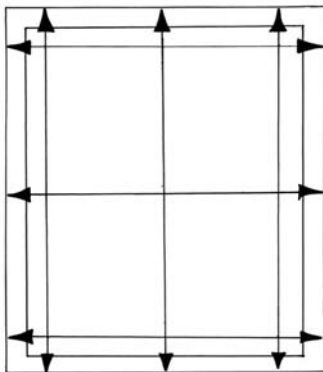
Depth Clearance  
required on a  
114mm blade is  
**- 70mm**



## CLEARANCES

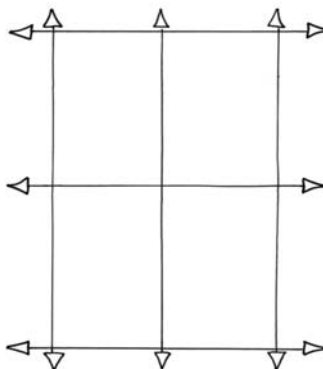


## MEASURING BASICS



### Face Fix – Measuring

1. Ensure the chosen Frame Design and Louvre rotation will work.
2. Measure to either the outside of the Architrave or to where you intend to end the Framing.
3. Measure 3 Horizontal measurements, top, middle and bottom, (write down the largest measurement).
4. Repeat and do the Vertical Measurements, left, middle and right, (again write down the larger of the measurements).
5. Check the squareness visually.



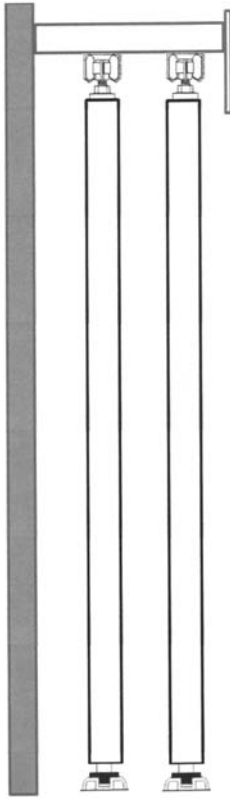
### Reveal Fix – Measuring

1. Ensure the chosen Frame Design and Louvre rotation will work.
2. Measure to the inside of the Architrave or Square set of the window.
3. Measure 3 Horizontal measurements, top, middle and bottom, (write down the tightest measurement).
4. Repeat and do the Vertical Measurements, left, middle and right, (again write down the tightest of the measurements).
5. Check the squareness visually.



## SLIDING SHUTTERS

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Unlike most companies, our Thermalite Shutters will pass in the open position. All the information required is to establish the "Headboard" needed to operate the louvre blade size you need.

Thermalite Shutters unlike most companies offer you the "choice" of a floor guide or floor tracking.

Many customers do not want unsightly tracks that are potential walking hazards sitting in their opening space. As these sliders are securely attached from a top fixing, you have the benefit of a strong and secure operation.

The point to remember in the sliding shutter is, the wider the blade, the larger the gap between panels.

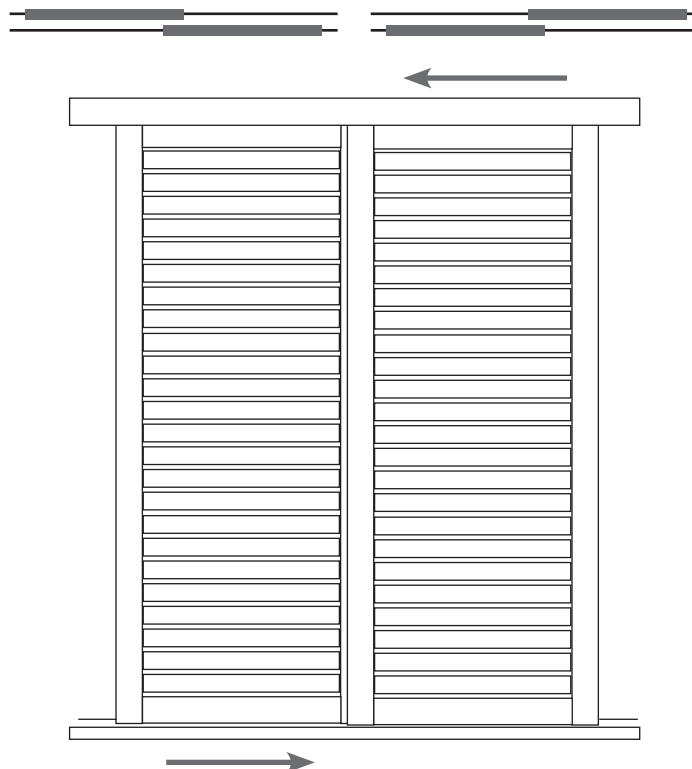
Same measuring and clearance rules apply on a sliding shutter assure louvre rotation and ensure no cyclone bars or window locks will interfere in the operation of your sliding shutter.

Measuring requires the same as for normal hinged panels (i.e. reveal or face fit).

## SLIDING STYLES

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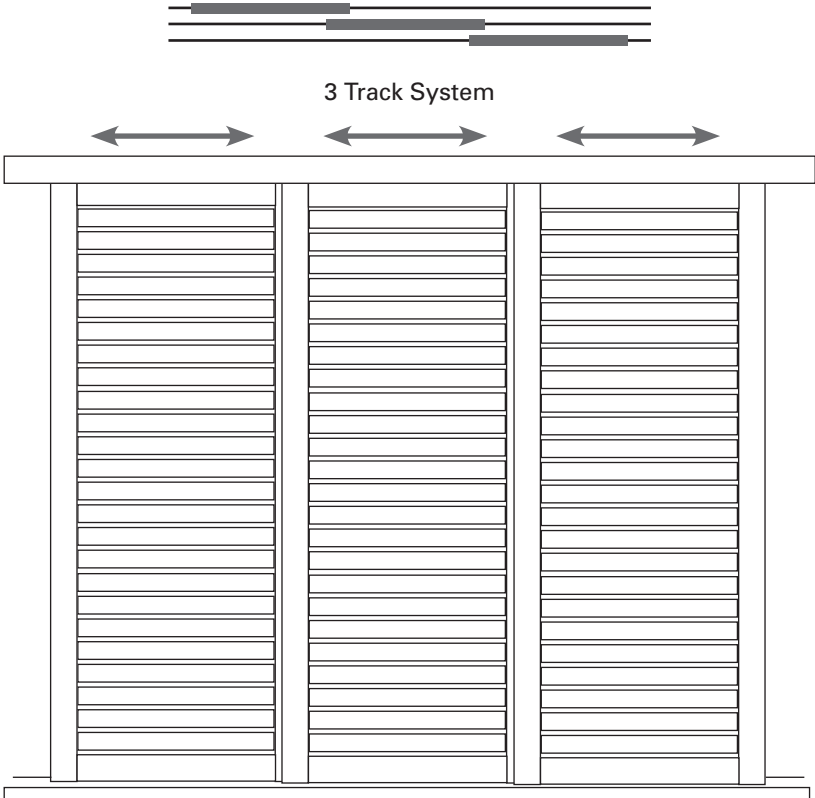
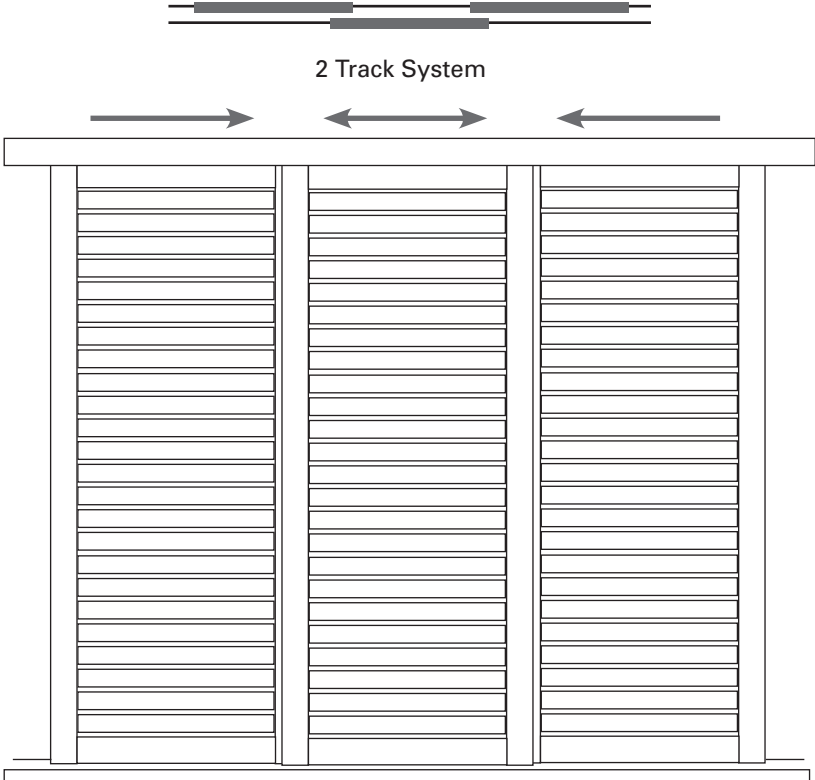
### 2 Panel Slider - (Face or Reveal Double) L/R



# SLIDING STYLES

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## 3 Panel Slider - (Face or Reveal, Double or Triple) LLR or LLL (Three Track)

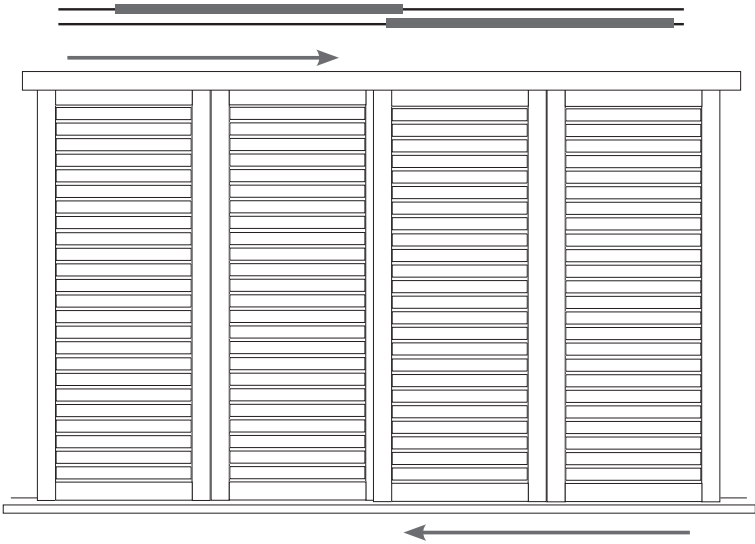
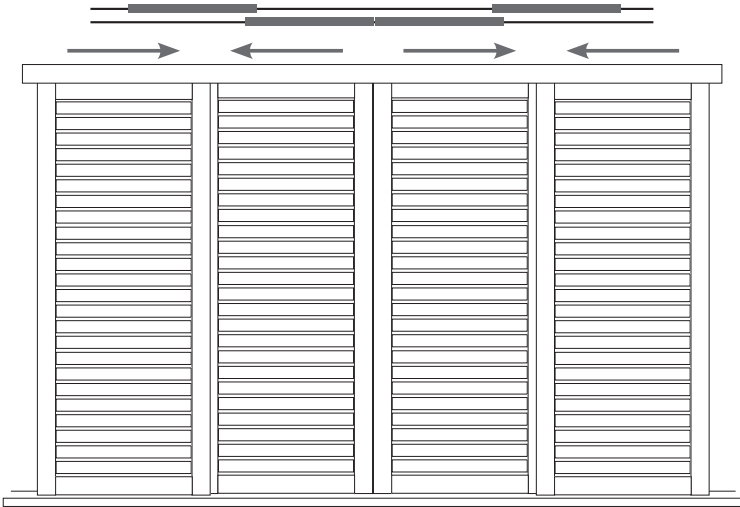




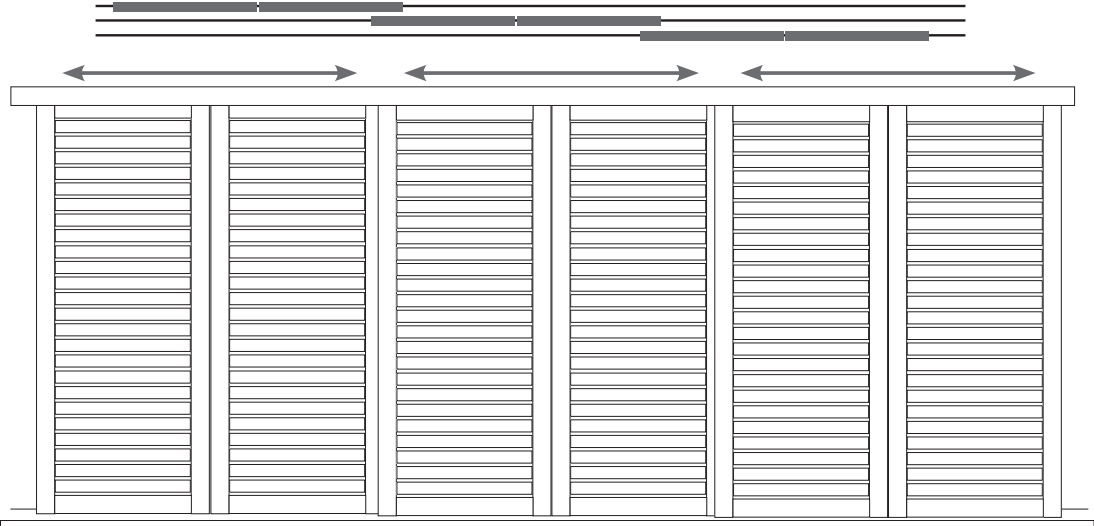
# SLIDING STYLES

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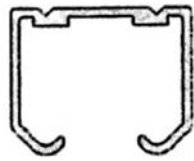
**4 Panel Slider - (Face or Reveal Double) LLRR or LLRR**



**6 Panel Slider - (Face or Reveal, Double or Triple) LLRLL or LL/RR/LL**



# SLIDING COMPONENTS



Top Track

## INTERNAL



Carrier Wheels



Bottom Guide



Bottom Track

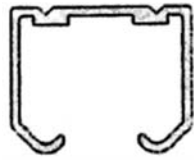


Recessed Track



Floor Guide

## EXTERNAL



Top Track



External Carrier Wheels



External Bottom Guide



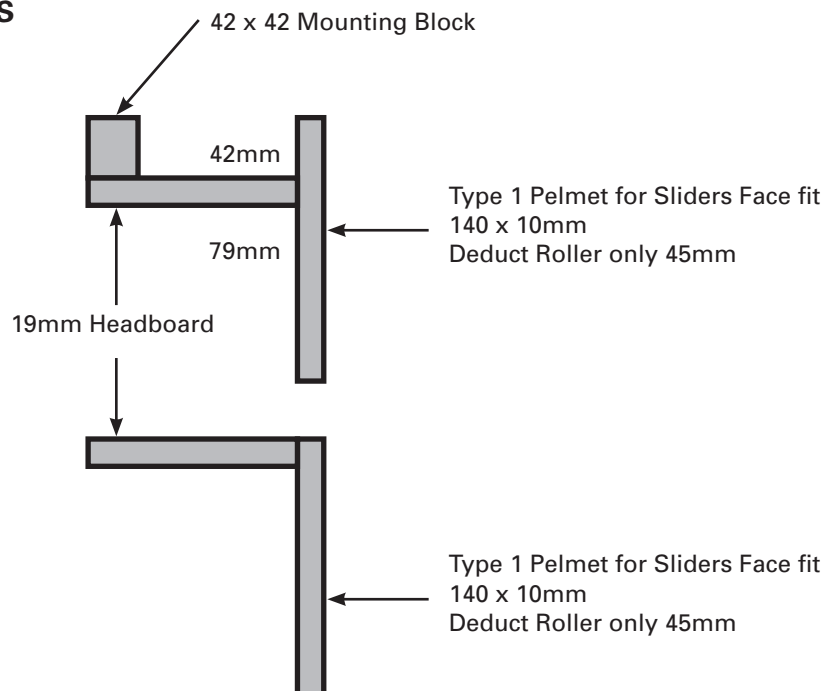
External Bottom Track



External Recessed Track

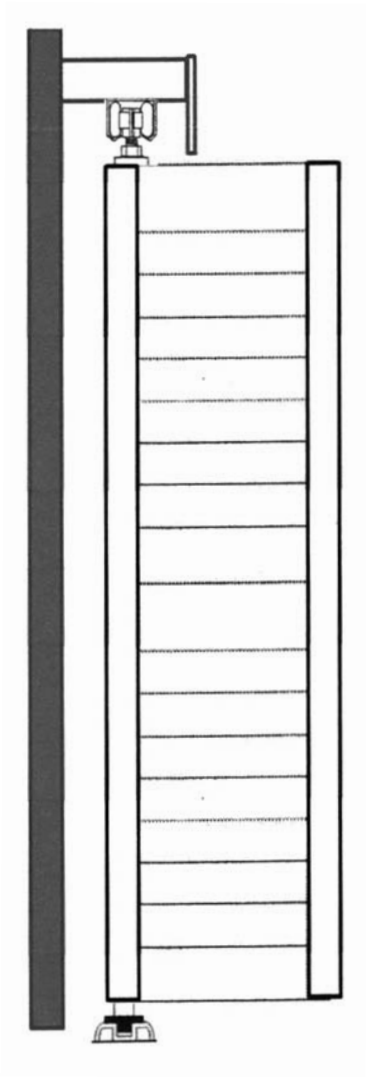
# SLIDING FASCIA & PELMET

## PELMET PROFILES



# BI-FOLD SHUTTERS

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Thermalite Shutters unlike most companies offer you the “choice” of floor tracking or no tracking.

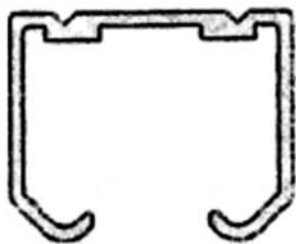
Many customers do not want unsightly tracks that are potential walking hazards sitting in their walking space. As these Bi-Folds are securely attached from a top fixing, you have the benefit of a strong and secure operation.

The benefit of a Bi-Fold, allows the customer to fold back the opening and increases their total view.

Same measuring and clearance rules apply on a Bi-Folding shutter, assure louvre rotation, and ensure no cyclone bars or window locks will interfere in the operation of your Bi-Folding shutter.

Measuring requires the same as for normal hinged panels (i.e. reveal or face fit).

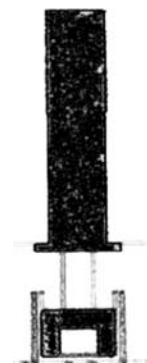
## EXTERNAL



Top Track



External Carrier Wheels



External Bottom Guide



External Bottom Track

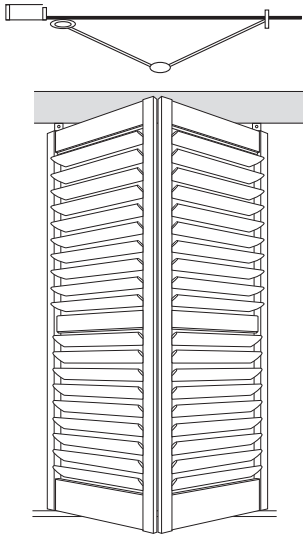


External Recessed Track

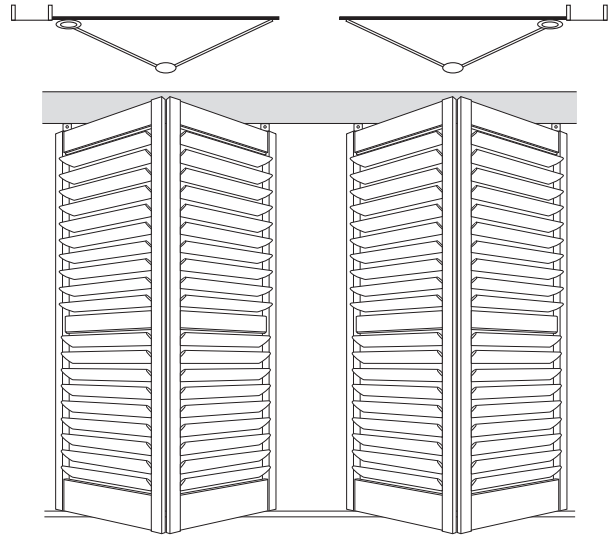
## BI-FOLD STYLES

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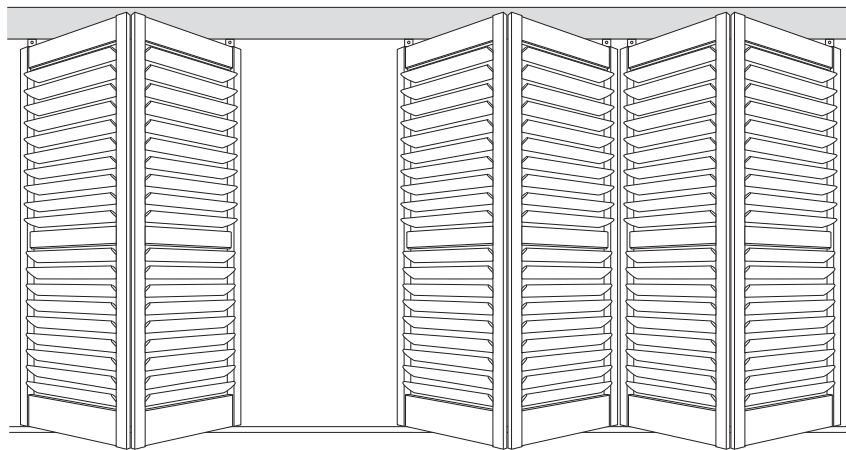
**2 Panel Bifold -  
(Face or Reveal) LL or RR**



**4 Panel Bifold -  
(Face or Reveal) LL/RR**



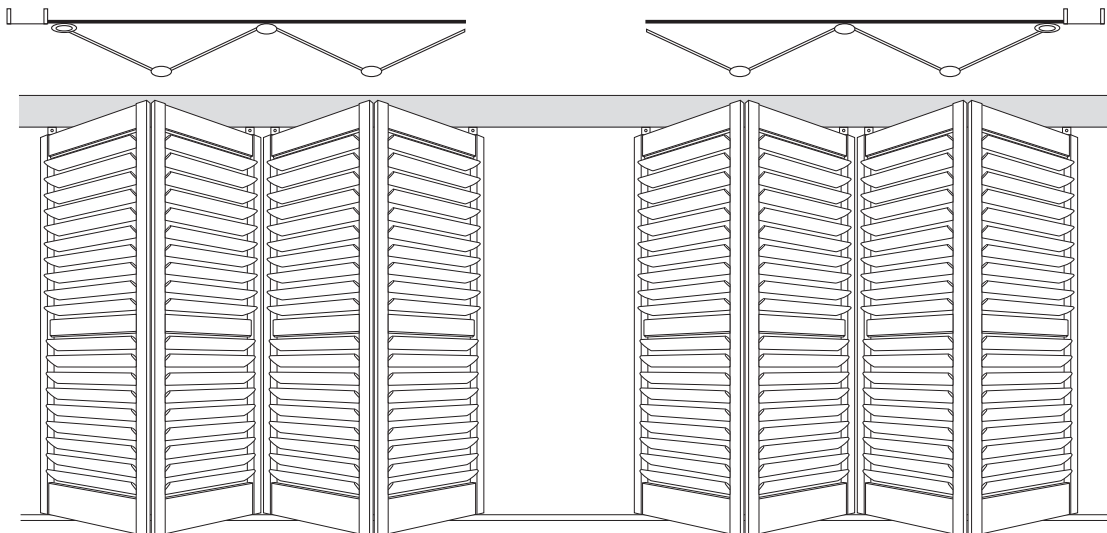
**6 Panel Bifold  
(Face or Reveal)  
LL/RRRR**



## BI-FOLD STYLES

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**8 Panel Bifold -  
(Face or Reveal) LLLL/RRRR**



# BI-FOLD COMPONENTS

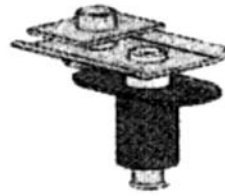
## INTERNAL



Top Track



Carrier Wheels



Top Pivot



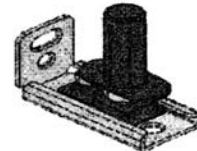
Bottom Guide



Bottom Track



Recessed Track



Bottom Pivot

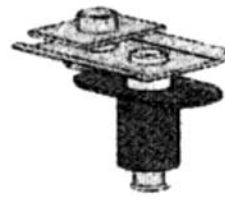
## EXTERNAL



Top Track



External Carrier Wheels



Top Pivot



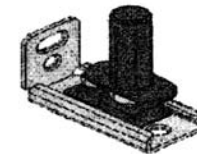
External Bottom Guide



External Bottom Track



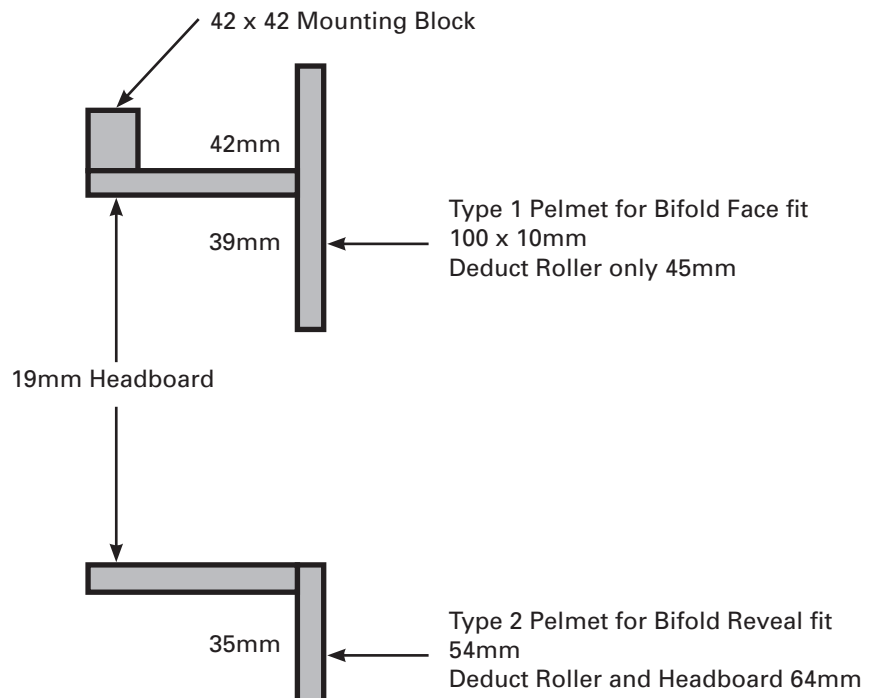
External Recessed Track



Bottom Pivot

# BI-FOLD FASCIA & PELMET

## PELMET PROFILES



# FILLING OUT YOUR ORDER FORM

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1. Your details
2. Your contact details
3. Person to contact regarding this order
4. Where the goods are being delivered to
5. QTY - How many of the same shutters are required in this Line
6. ROOM LOCATION -Room Location (i.e. Bedroom, Lounge room etc)
7. GROSS OPEN WIDTH -Opening Width (no deductions)
8. GROSS OPEN HEIGHT -Opening Height ( no deductions)
9. MOUNT CONFIG – Reveal, Face, Make Size, Semi R/H etc
10. MOUNT STYLE - Full, Tier/Tier
11. PANEL QTY - Actual panels in this configuration
12. MATERIAL - Thermalite Supa or Thermalite Standard
13. BLADE SIZE – 64mm, 90mm, OR 114mm
14. COLOUR – Alabaster, Bright White, Off White
15. MID RAIL HEIGHT - Height of Mid Rail from floor or bottom of opening to centre of Mid Rail position also Tier/Tier Post
16. LAYOUT CODE – L,R,L/DR,LDTR,DLTDL/R,LD/RDTL/RD etc....
17. MOUNTING METHOD - H-Hinged, P-Hinged, B Fold, Sliding, Fixed
18. HINGE COLOUR – White, Stainless Steel
19. FRAME SIZE – L, SZ, Reveal Single, Double, Face Single, Double, Triple
20. # SIDES – Top, LR,TB,LRT,LRB,LRTB
21. TILT ROD – Centre, Off Centre, Supa Clear
22. TRACK - Yes or No
23. SLIDING TOP/BOTTOM GUIDE - Do you want Tracks- Top, Bottom
24. SLIDING OPEN/CLOSE - Do you want your sliders to pass in the open position
25. T-POST QTY – Number of Post required
26. SPLIT BLADE – SP- T, SP - M, SP - B
27. SPECIAL REQUIREMENTS - Information you believe relevant
28. HANG STRIP – L,R, LR, LRTB
29. LIGHT BLOCK – Usually on No Frames or Sliders, T,B,TB,LRTB etc
30. ANGLE BAY – Special,135 Bay, 90 Corner
31. BLANK -
32. BLANK -
33. FIXED BLADES – Yes
34. STAINLESS STEEL WHEELS - When required
35. SPECIAL SHAPE PANEL – Please supply Template
36. TO CENTRE T-POST 1 - Position of 1st T-POST
37. TO CENTRE T-POST 2 - Position of 2nd T-POST
38. TO CENTRE T-POST 3 - Position of 3rd T-POST
39. TO CENTRE T-POST 4 - Position of 4th T-POST
40. TO CENTRE T-POST 5 - Position of 5th T-POST
41. SPECIAL REQUIREMENTS – Any other information you believe helpful