

TheShutterShop

S:CRAFT — SPEC01-2025



Portchester® Technical Specifications

Aluminium Security Shutters · 2025 Version 1.4



2025 Version 1.4



SPECIFICATIONS BY
S:CRAFT

SUPPLIED BY
The Shutter Shop Ltd

DOCUMENT
SPEC01-2025

VERSION
2025 Version 1.4

Portchester Contents

To go to the required section click on the headings below

SECTION 1

Introduction 02

SECTION 2

General Specification 03

Louvre Operation	03
Panel Size Limitations	04
Specifications	05
Colours	06
Installation Styles	07
Stiles & Rails	08
Locks	10
Pull Handle	11
Manufacturing Tolerances	11
Hinges	12
Bracket Options	13

SECTION 3

Hinged Shutters 16

Panel Limitations	16
Default Operation	16
Mount Options	17
Frame Options	18
T-Post	19
Tier-on-Tier	19
Two Sided Lock	20

SECTION 4

Bi-Fold Shutters 21

Panel Size Limitations	21
Default Operation	21
Installation Clearances	22
Order Dimensions	22
Mount Options	23
Side Frame Options	27
Bottom Clearances/ Track Options	28
Top Track & Header Options	30

SECTION 5

By-Pass Shutters 31

Panel Size Limitations	31
Default Operation	31
Installation Clearances	31
Order Dimensions	31
Mount Options	32
Panel Configurations	35

SECTION 7

Warranty 38

SECTION 8

Maintenance & Cleaning 40

1.

Portchester Introduction

Portchester is crafted from architectural grade aluminium, these shutters have all the style and functionality of our existing plantation shutter range with the additional advantage of being intruder resistant. Safety features include a top and bottom guide system that prevents the shutters from being lifted out of their channels, and a patented strip-proof lock. A CE certification ensures they are finished to the highest standard. Suitable for indoor and outdoor use.

Powder coated finish:

Powder coating is applied as a free-flowing dry form and cured under heat. This process forms a highly protective finish that is much harder than conventional paint.

Locks: Patented Italian strip proof lock that offers a high degree of resistance.

Frames: Z and L frame options.

Stiles:

Please note the stiles are manufactured in a plain stile.

Louvres:

Portchester is available in 89mm elliptical louvres.

Colour palette:

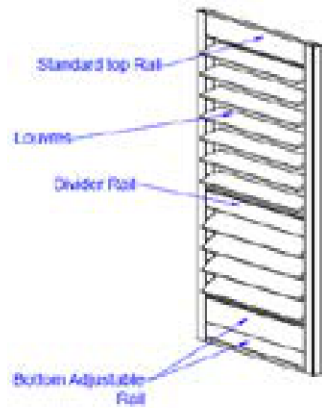
Four powder coated colours and a custom option.



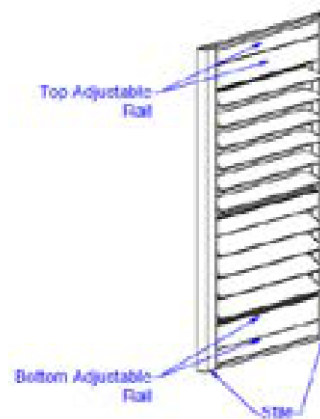
2.

Portchester General Specifications

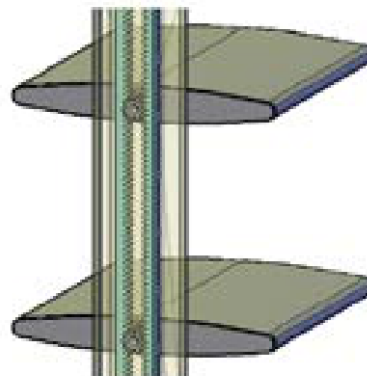
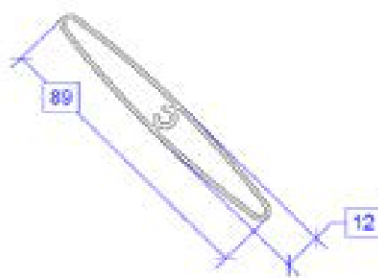
STANDARD TOP RAIL AND
ADJUSTABLE BOTTOM RAIL



ADJUSTABLE TOP AND
BOTTOM RAILS



Louvre Operation



- The maximum number of louvres connected together is 16. Should the number exceed this, they will be split into 2 sections. If this number is an odd number, the top section will have 1 less louvre than the bottom section.
- Optional split tilt of a louvre bank at a specified height.
- Only available in Silent Tilt / Gear System.

2.

Panel Size Limitations

Panel Size Limitations - Hinged Shutters

LOUVRE SIZE	WIDTH			HEIGHT		
	MINIMUM	MAXIMUM		MINIMUM		MAXIMUM
		SINGLE HINGED (eg. LR/L/R)	DOUBLE HINGED (eg. LLRR/LRR/LR)	SINGLE HINGED (3 louvres)	DOUBLE HINGED (5 louvres)	
89MM	300mm	900m	500mm	458mm	581mm	3100mm

NOTE

The calculation for the minimum height is defined by the space required for the internal locking mechanism. On a double hinged opening there is a lock and 2 hinges to fit on the stile which is why the minimum height is greater (581mm)

Panel Size Limitations - Bi-Fold Shutters

LOUVRE SIZE	WIDTH			HEIGHT		MAX M ² PER PANEL
	MINIMUM	MAXIMUM		MINIMUM (5 louvres)	MAXIMUM	
		For uneven number of 3 or 5 panels connected				
89MM	200mm	550m	700mm	581mm	2900mm	17m ²

- Maximum number of uneven number of panels connected is 5, see width limitation for 3 & 5 panels above (not applicable to 1 panels i.e. 1L or 1R)
- Uneven panels floating is not warranted
- A bank of 2 shutters floating is not warranted

Panel Size Limitations - By-Pass Shutters

LOUVRE SIZE	WIDTH		HEIGHT	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
89MM	200mm	1050mm	581mm	3100mm

2.

Specifications

MATERIAL	Aluminium
PANEL WEIGHT PER SQM	10-13 kg
POWDER COATED	4
STAIN COLOURS	×
CUSTOM COLOURS	✓
LOUVRE SIZE	89mm
MAX SINGLE HINGED PANEL WIDTH	900mm
MAX BI-FOLD PANEL WIDTH	700mm
MAX AND MIN PANEL HEIGHTS.	3100mm 458mm (single hinged)
SOLID PANELS AVAILABLE	×
SPECIAL SHAPES	×
STILE TYPE	Plain
FIXED LOUVRES	×

2.

Colours

The standard colours are:

- Prime White
- Satin White
- Charcoal
- Light Grey

Other powder coating colours are available from the Interpon and Ferro ranges. These should be matt finish (no gloss) and availability of the powder needs to be confirmed with the factory.

An extra 5 days lead time applies to all colour choices other than standard.

For the nylon / plastic components (louvre cap & sleeve) the colour choice is either: White, Dark Grey or Light Grey.

Colour Options

PORTCHESTER PAINT OPTIONS (4 COLOURS & NON-STANDARD (CUSTOM OPTION))

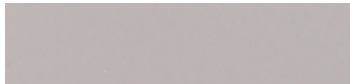
COLOUR NAME

PRIME WHITE

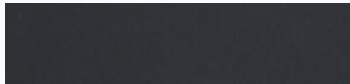
SATIN WHITE



LIGHT GREY



CHARCOAL GREY



NOTE

Non-standard (custom colour) colours are available, please speak to Customer Support for a full list.

2.

Installation Styles



Full Height

Shutter covering the full height of aperture.



Tier on Tier

Shutter is split into two halves so the top and bottom panels can be independently operated / opened fully.

Please note: This installation style will not prove to be secure unless a horizontal T-Post is used.



Tracked Shutters

Bi-Fold

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°.

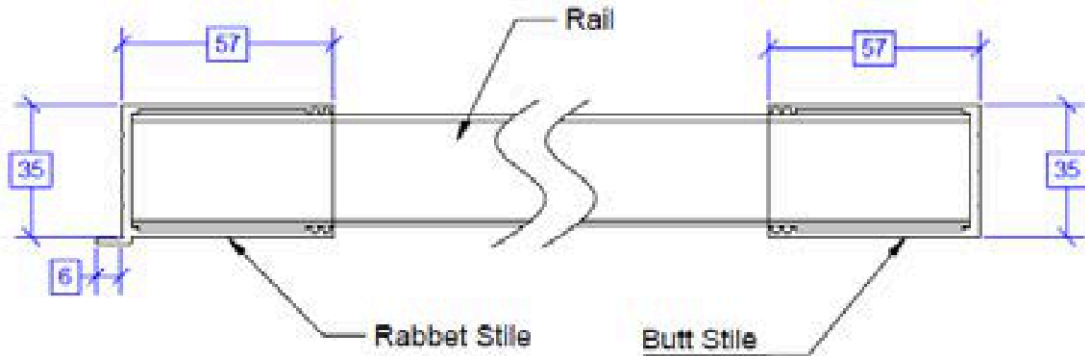
By-Pass

Shutters suspended from a top track. Panels slide behind or in front of one another to open or close.

2.

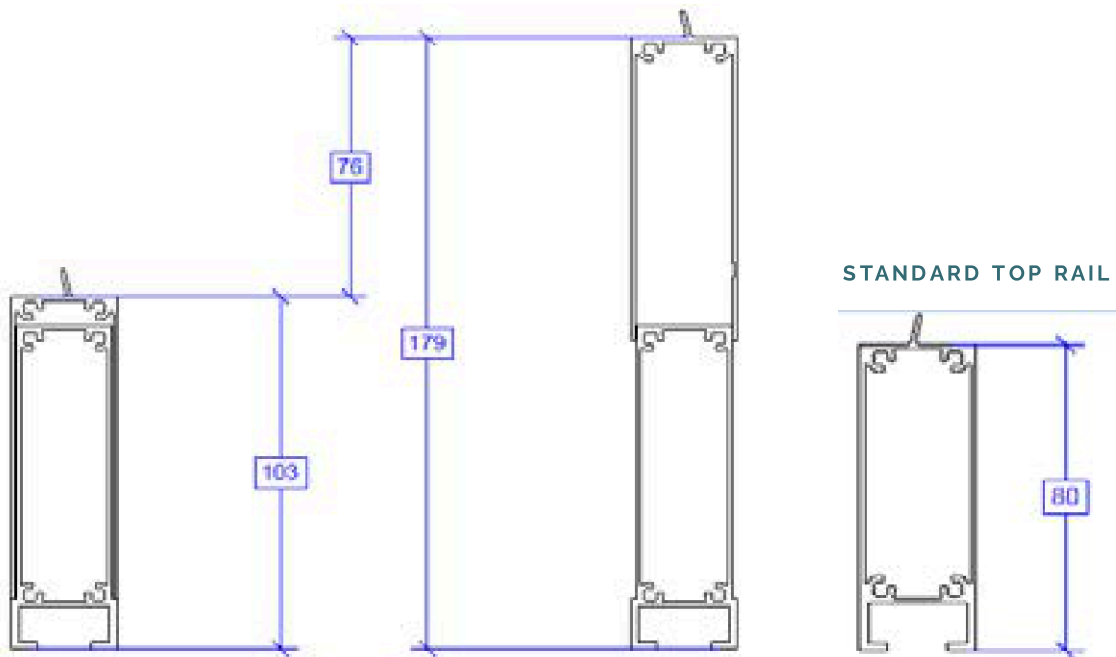
Stiles & Rails

PLAN VIEW: STILE AND RAIL



Adjustable Top or Bottom Rail

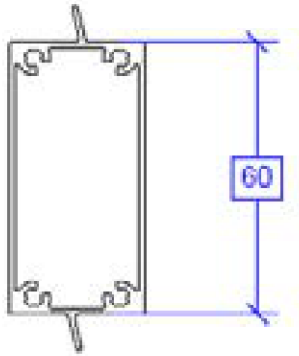
Please Note: This refers to a factory adjustment, not something that is done on-site



2.

Stiles & Rails

MID-RAIL



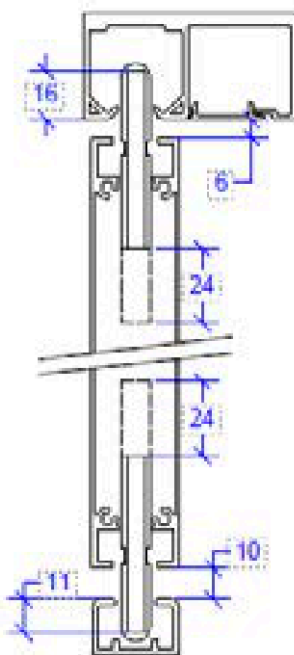
- For the adjustable top / bottom rail: zero adjustment results in a 103mm rail size and the maximum adjustment could be 76mm resulting in a 179mm rail size.
- Type 1 shutter (std top rail & full adjustment on bottom rail) will be the default manufacturing option under the following circumstances
 - Shutter height over 1700mm
 - Shutter height below 1700mm & bottom adjustment less than 40mm
- Rail sizes can be matched across an order, matching is either top or bottom rail sizes.
- When a panel height exceeds 1900mm, a mid-rail is required
- The order measurement required for the location of the mid-rail is from the bottom of the opening / frame to the centre of the mid-rail.
- The location of the mid-rail could vary by +/- 40mm

2.

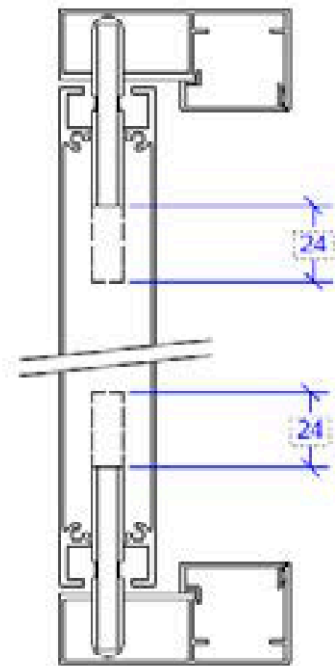
Locks

- Default lock option is for a single sided lock (only accessible from the front face of the shutter)
- Optional double sided lock (key entry from both the front and back of the shutter)
- Choose key alike across an order, or multiple keys in multiple openings
- The lock has a double turning action with a 24mm throw.
- The locking rod can be turned up or down for further adjustment.
- The bolt / locking rod is a 6mm steel rod encased in a 10mm nylon cap
- When selecting a custom lock height, this is measured from the bottom of an opening to the centre of the lock.
- The lock cylinder is made from brass with nickel plating, the inner lock is a coated & galvanised steel.

**SECTION DRAWING: LOCK ENGAGING IN
A BI-FOLD OR BYPASS SHUTTER**



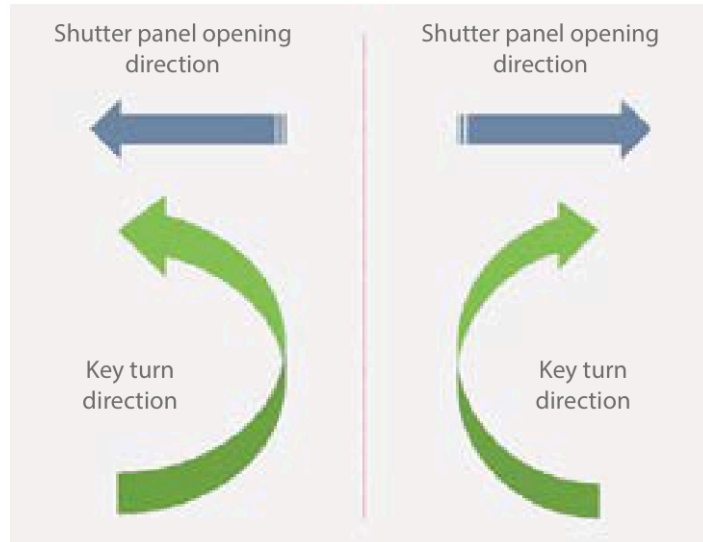
**SECTION DRAWING: LOCK ENGAGING
INTO THE FRAME OF A HINGED SHUTTER**



2.

Locks, Pull Handle & Tolerances

- The key turn direction is dependent on which way a shutter opens. See diagram below:



Pull Handle

- Optional pull handle available in either a brushed nickel or satin white finish.
- If you order a double sided lock the pull handle will only be installed on the front facing side.



Standard Manufacturing Tolerances

- The width and/or height of the shutter could be $\pm 1.5\text{mm}$ different to the ordered net shutter panel width /height.

2.

Hinges

PANEL HEIGHT		QUANTITY OF HINGES
FROM:	TO:	
0	1200	2
1201	1800	2
1801	2200	3
2201	2800	4
2801		5

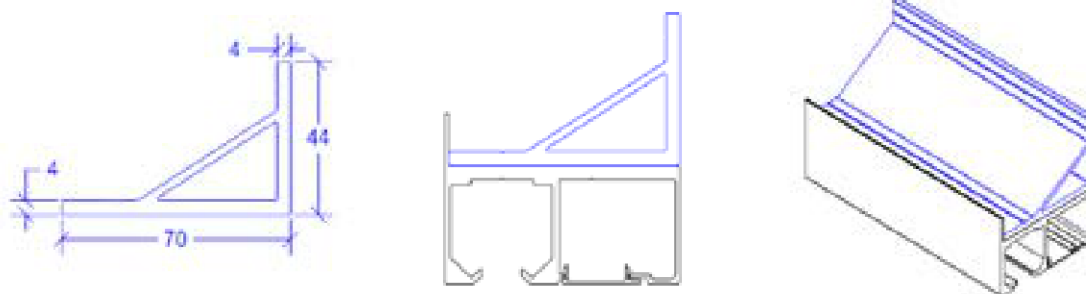
- The number of hinges supplied will be determined by the panel height.
- Additional hinges may be fitted for wider panels or where the factory deems necessary
- Hinges are available in the following colours
 - Satin White
 - Prime White
 - Matt Charcoal
 - Natural Anodised
 - Bronze
- For By-Pass configurations that call for joined panels, this will only have a single hinge at the top and bottom.

2.

Bracket Options

Default bracket profile - powder coated aluminium

- bracket profile will run full length of top track
- the bracket profile will be pre-fixed to the tracks / frames
- bracket profile to match the order colour



- Option to request end caps to close off the top track & bracket profile.
- Option to request the top track with returns when ordering the bracket profile. Please request in special notes

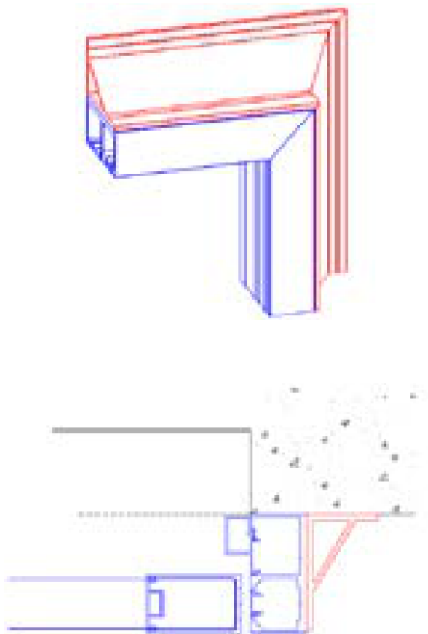


2.

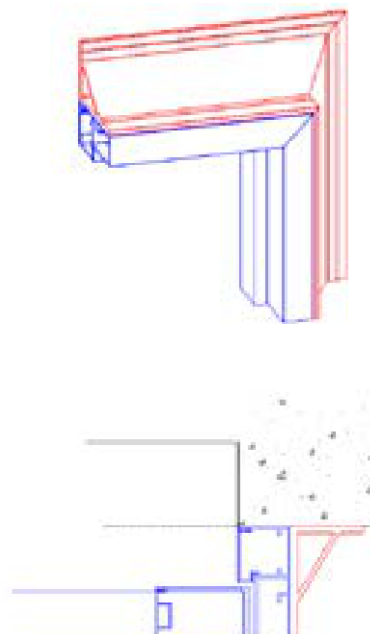
Bracket Options

- It is recommended to use the bracket profile for
 - Outside mount / face fixed side frames (bi-fold and by-pass)
 - Outside mount / face fixed hinged openings (all 4 sides of a LTRB frame selection)
- Please Note:
 - Fixing screw heads will be visible but provided with a painted head
 - Bracket profile to be charged according to the total length required
 - Bracket profile not included in order dimensions
 - For side frames (bi-fold and by-pass), review what to add on to your width, drawing below shows only 34mm (track depth) so it is flush with the reveal. Default addition for Window Size / Outside Mount is 45mm

SIDE FRAMES (BI-FOLD & BY-PASS)



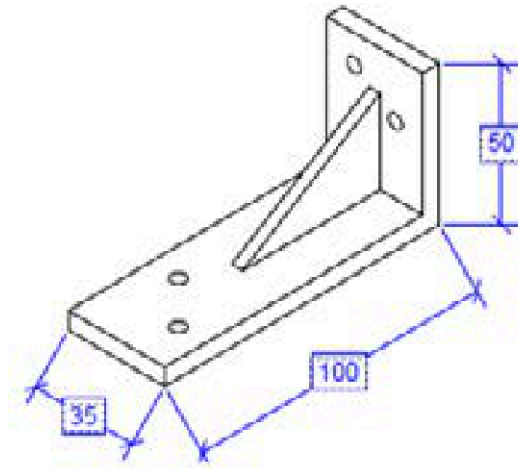
HINGED FRAMES



2.

Bracket Options

Optional brackets - white powder coated 6mm thick aluminium



3.

Hinged Shutters

Panel Size Limitations

Width minimum	300mm	
Width maximum - single hinged	900mm	(eg. LR / L / R)
Width maximum - double hinged	500mm	(eg. LLRR / LRR / LLR)
Height minimum – single hinged	458mm	(3 louvres)
Height minimum – double hinged	581mm	(5 louvres)
Height maximum	3100mm	

PLEASE NOTE

The calculation for the minimum height is defined by the space required for the internal locking mechanism. On a double hinged opening there is a lock and 2 hinges to fit on the stile which is why the minimum height is greater (581mm)

Default Operation

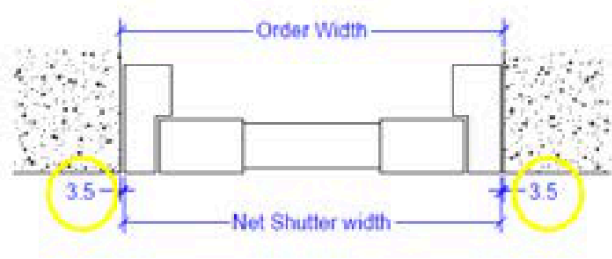
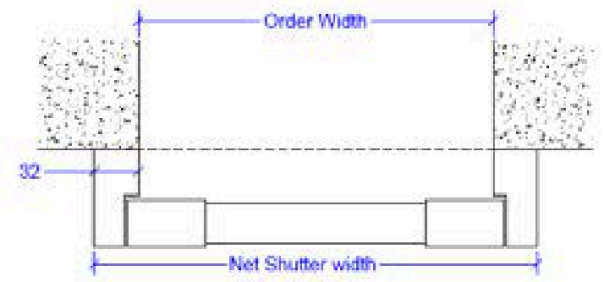
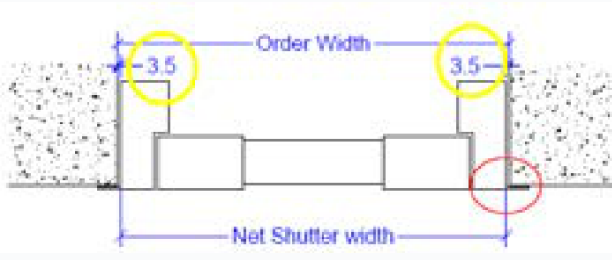
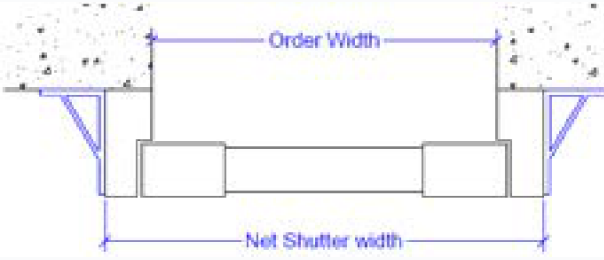
- Default opening is Right side opening first:
 - For a LR configuration, the R panel will open first, followed by the L panel
 - For a LRR, the RR panels will open first
 - For a LLR, the R panel will open first
 - For a LLRR, the RR panels will open first
- If you need the left side to open first, please specify on your order (left over right)

Order Dimensions: Deductions & Additions

ORDERED AS:	MOUNT TYPE	NET SHUTTER WIDTH / HEIGHT
WINDOW SIZE	Inside	-3.5mm per frame side
	Outside	+ 32mm per frame side
FRAME-TO-FRAME SIZE	Inside	Order Width / Height
	Outside	Order Width / Height

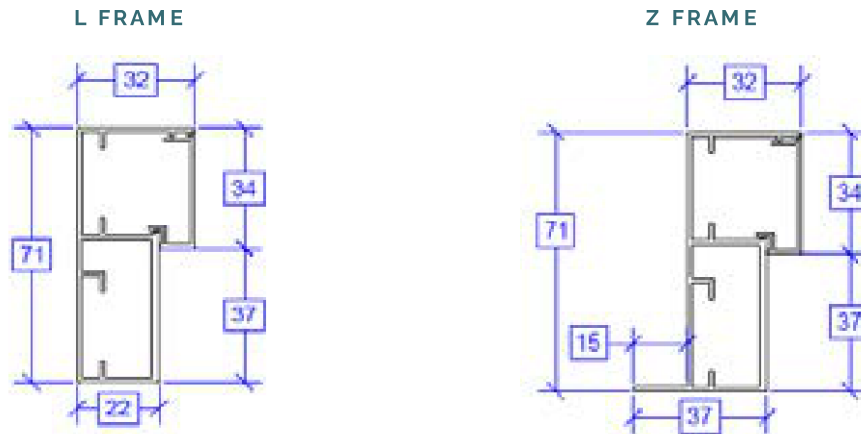
3.

Mount Options

ORDERED AS: WINDOW SIZE	
INSIDE MOUNT	OUTSIDE MOUNT
L FRAME  The diagram shows a cross-section of an L-frame shutter mounted inside a window frame. The 'Order Width' is the total width of the window opening. The 'Net Shutter width' is the width of the shutter leaves. There are 3.5mm gaps between the shutter and the frame on both sides, indicated by yellow circles and dimension lines.	L FRAME  The diagram shows a cross-section of an L-frame shutter mounted outside a window frame. The 'Order Width' is the total width of the window opening. The 'Net Shutter width' is the width of the shutter leaves. There is a 32mm gap between the shutter and the frame on both sides, indicated by a dimension line and the number 32.
Z FRAME  The diagram shows a cross-section of a Z-frame shutter mounted inside a window frame. The 'Order Width' is the total width of the window opening. The 'Net Shutter width' is the width of the shutter leaves. There are 3.5mm gaps between the shutter and the frame on both sides, indicated by yellow circles and dimension lines. A red circle highlights the bottom corner of the shutter.	L FRAME - FIXED WITH BRACKET PROFILE  The diagram shows a cross-section of an L-frame shutter mounted outside a window frame using a bracket profile. The 'Order Width' is the total width of the window opening. The 'Net Shutter width' is the width of the shutter leaves. The bracket profile is shown on both sides of the shutter.

3.

Frame Options



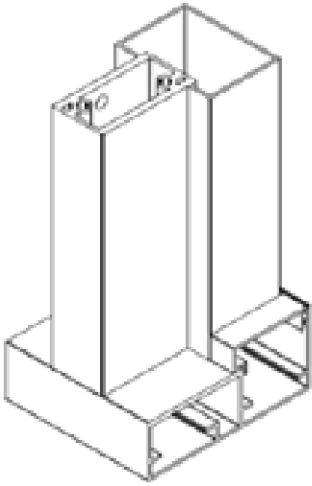
- 4 sided frame is the best option in terms of security
- If a Z frame is selected, and you have obstructions on one or more sides of the reveal, you can order sill plates. For example LTRB(SP)
- If you are using a 3 sided frame (LRT), default is 1 lock per panel
- Dust Keeps will be provided for orders with no bottom frame. 1 dust keep will be provided per lock.

PLEASE NOTE

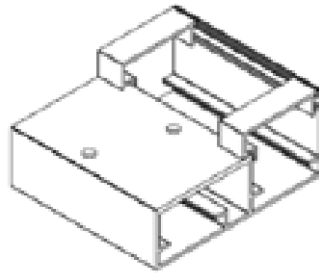
We strongly advise against using a three-sided frame as this may not be secure.

3.

T-Post



T-Post meeting bottom frame



Bottom frame with fixing holes

Please note, when ordering with a T-Post this can be added in the notes section of the ordering card.

- Front face width of the T-Post is 22mm
- Default T-Post location will make all panel widths equal
- Custom T-Post location requires a measurement from the left reveal to centre of T-Post
- Horizontal T-Post is available
- Consider in place of a tier-on-tier where the top and bottom shutters are split by a Horizontal T-Post. This will be more secure than a tier-on-tier application.

Tier-on-Tier

- Option to order as Tier-on-Tier where the height is split into 2 separately operating shutters
- Default will be for the split height to be at centre, any split height other than default needs to be specified by giving a height from the bottom of the opening to the split height
- Default lock position will be above bottom rail for the top shutter/s and below top rail for the bottom shutter/s
- Top shutters will lock into the top frame and lock down into the bottom shutters. Bottom shutters will lock down only. This means that that as default the top shutter/s are opened first.
- See note above regarding the horizontal T-post being more secure than a Tier-on-tier application

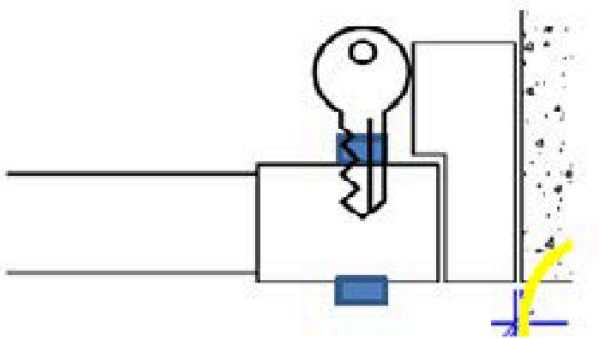
Please note: This installation style will not prove to be secure unless a horizontal T-Post is used.

3.

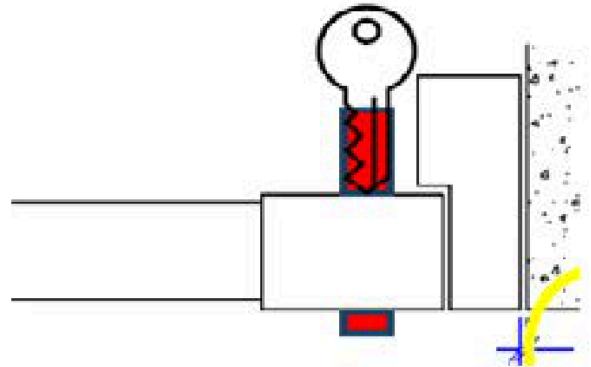
Two Sided Lock — Hinged Applications

- Where a 2 sided lock is selected and the lock position is adjacent to a side frame, please note the 2 options below.
- Affected configurations would be L / R / LL / RR

DEFAULT: REGULAR 2 SIDED LOCK



OPTIONAL: EXTENDED 2 SIDED LOCK



- Cylinder Projects out both sides by 4.5mm
- Key turn very close to back of frame (difficult operation)
- Pull Handle not possible on back of panel, clashes with frame
- Consider if there is a door frame which will make access more difficult

- Cylinder Projects out the front of panel by 4.5mm and back of panel by 32.5mm
- Key turn behind back of frame
- 32.5mm cylinder projection, will clash with adjacent panel if a LL or a RR configuration, when folding
- Limited key matching options
- Pull Handle not possible on back of panel, clashes with frame
- Consider if there is a door frame which will make access more difficult

4.

Bi-Fold Shutters

Panel Size Limitations

Width minimum	200mm	
Width maximum	700mm	
Width maximum	550mm	(for uneven number of 3 or 5 panels connected)
Height minimum	581mm	(5 louvres)
Height maximum	2900mm	
Max m ² per panel	1.7 m ²	

- Maximum number of uneven number of panels connected is 5, see width limitation for 3 & 5 panels above (not applicable to 1 panels i.e. 1L or 1R)
- Uneven panels floating is not warranted
- A bank of 2 shutters floating is not warranted

Default Operation

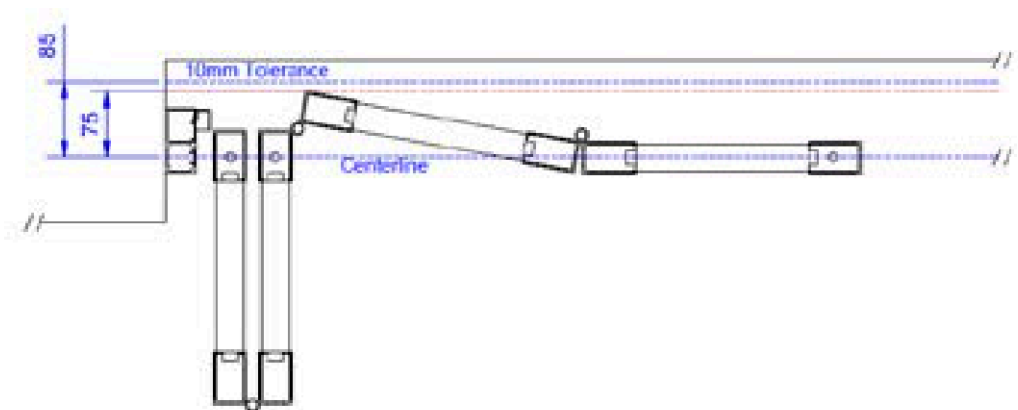
- Where 2 banks of bi-fold shutters meet
 - If either bank of shutters is 2 panels, so for example **LLRR**, or **LLLLRR**, then the meeting stiles will be Butt stiles
 - When both banks of shutters are more than 2 panels the right hand bank will have a Rabbet stile overlapping the left hand bank. For example, **LLLLRRRR**, or **LLLRRRRRR**. The 2 panels indicated in red (**R**) will have a Rabbet stile on the front left.
- You can request a rabbet meeting stile regardless of the number of panels or configuration. Please note that the left bank needs to be opened / stacked first

4.

Installation Clearances

TRACK CENTRE LINE FROM LAST PROTRUSION	
1 OR 2 PANELS CONNECTED - EG. L / R / LL / RR / LLRR	55mm
MORE THAN 2 PANELS CONNECTED	85mm

- See drawing below showing the 85mm centre line. This is due to the kickback of the 3rd panel during the fold /unfold process.



Order Dimensions: Deductions & Additions

ORDERED AS:	MOUNT TYPE	NET SHUTTER WIDTH	NET SHUTTER HEIGHT
WINDOW SIZE	Inside	- 2mm per frame side	Order Height - 4mm
	Outside	Order Width + 90mm	Order Height + 66mm
FRAME TO FRAME SIZE	Inside	Order Width	Order Height
	Outside	Order Width	Order Height

- Deductions will be made from the order width for side frame selection
- If you order max frame to frame with no side frames, shutters will be sized from edge of panel to edge of panel, no allowance will be made for pivot and non-pivot gaps. If you order a side frame/s, the shutters will be sized from the outside of the side frame, taking into account the pivot / non-pivot gaps

4.

Mount Options

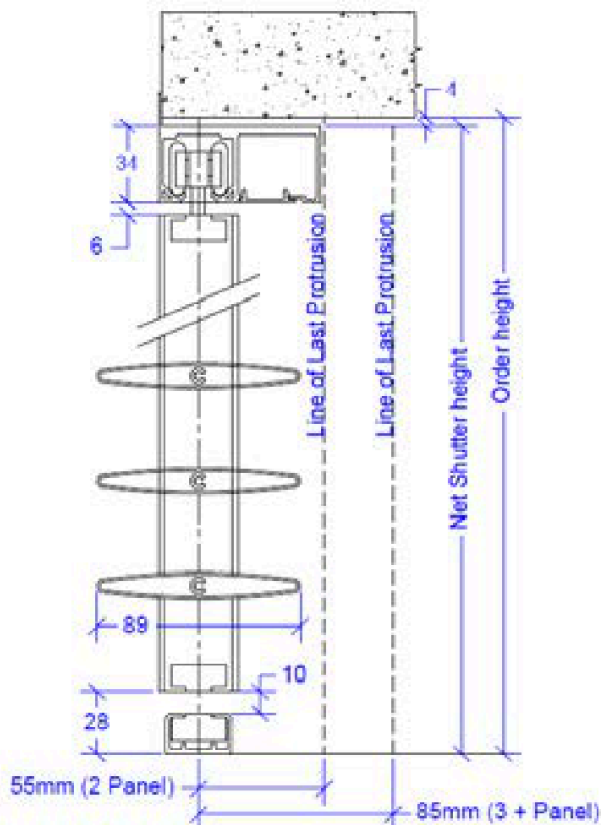
ORDERED AS: WINDOW SIZE

INSIDE MOUNT

INSIDE MOUNT (SECTION)

Default:- top track installed directly into reveal

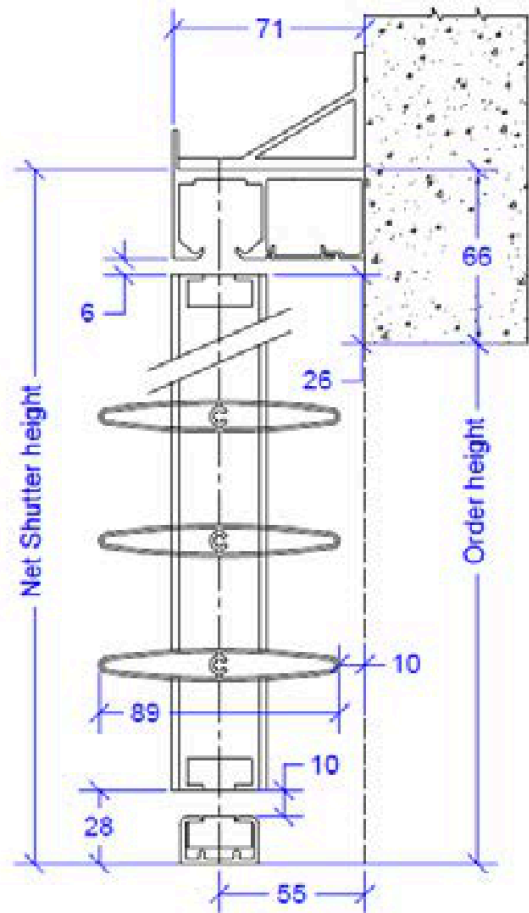
(We strongly recommend installing the top track directly into the reveal, as shown)



OUTSIDE MOUNT

OUTSIDE MOUNT (SECTION)

Default:- bracket profile fixed to 71x34mm track

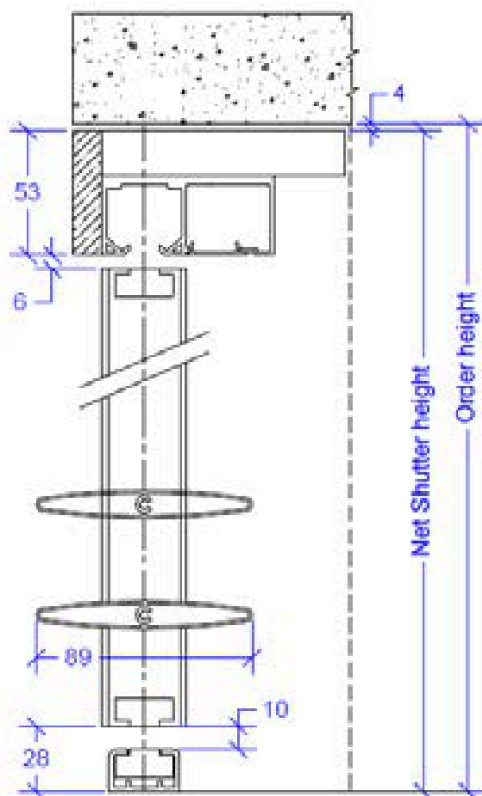


This installation is only suitable for maximum 2 panels connected. For example 1L 1R, 2L 2R. This is due to the kick back during folding of 3 or more panels needing an 85mm centre line.

4.

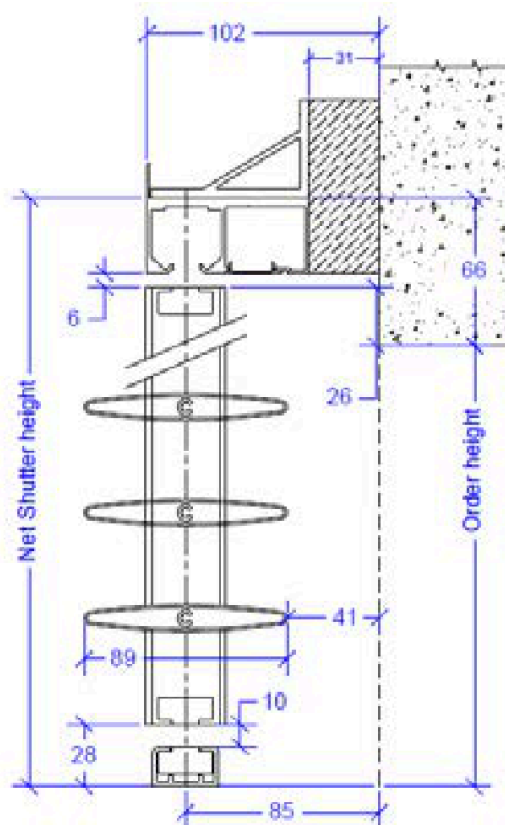
Mount Options

OPTIONAL: INSTALLED WITH A HEADER AND PELMET



All timber parts (headers & pelmets included) will be an additional charge

OPTIONAL: ORDER TIMBER SPACER FOR INCREASED CENTRE LINE

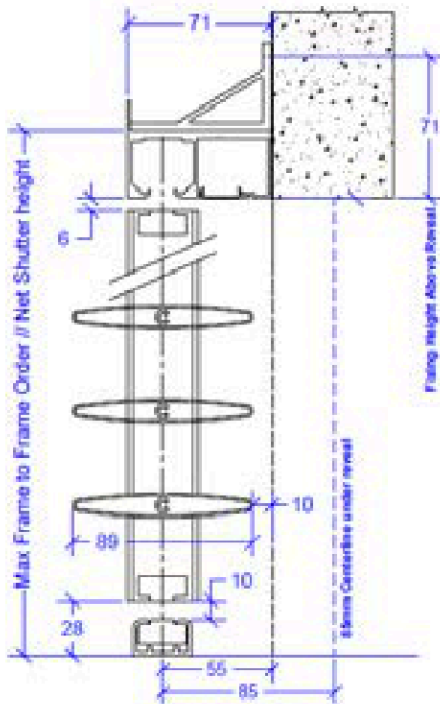


This installation / spacer is suitable for more than 2 panels connected. For example 4L 4R (85mm centre line)

4.

Mount Options

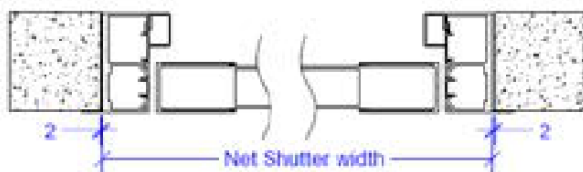
OPTIONAL: UNDERSIDE OF THE TOP TRACK FLUSH WITH THE REVEAL



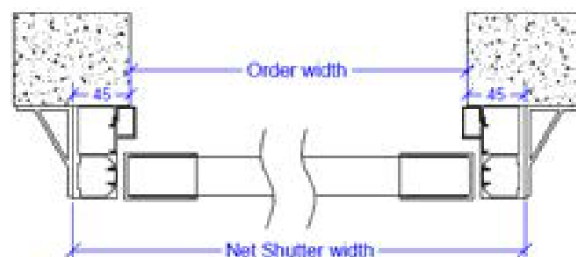
85mm clearance does not clash with the top of the reveal.
Need to consider if fixing location will be suitable.

4. Mount Options

INSIDE MOUNT (PLAN VIEW)



OUTSIDE MOUNT (PLAN VIEW)

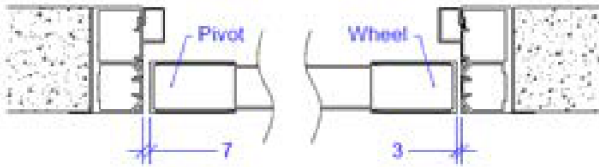


- Floating outside mount bi-fold shutters are not secure. Contact the factory to discuss options. Additional track width needs to be allowed for the track stoppers
- Outside Mount (plan view) is drawn above with the standard 45mm overlap on each side (Window Size / Outside Mount). Side frames installed with a Bracket Profile.

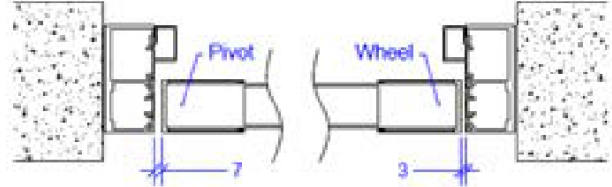
4.

Side Frame Options

71X34MM OVERLAP TRACK - SIDE FRAME DETAIL

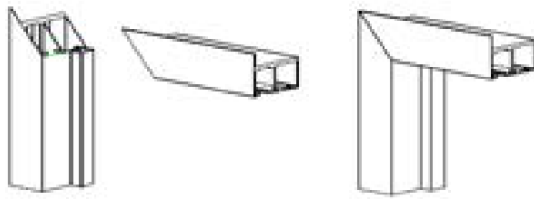


71X34MM STD TRACK - SIDE FRAME DETAIL

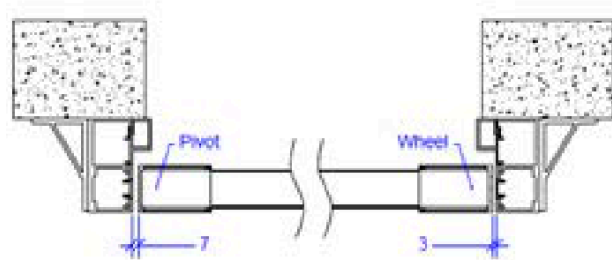


OUR RECOMMENDED OPTION

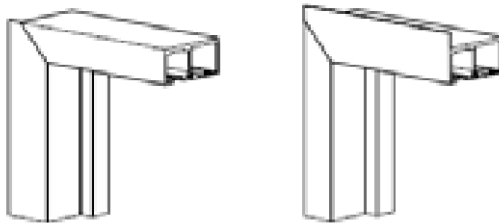
71X34MM STD TRACK - SIDE FRAME, FACE FIXED BRACKET PROFILE



Mitred top track with side frame



OUR RECOMMENDED OPTION

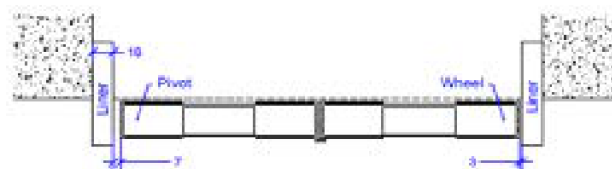
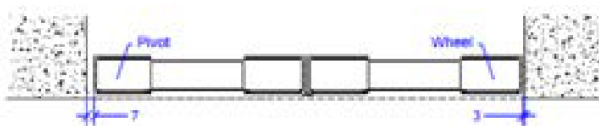


Mitred top track with side frame – showing sill plate option

NO SIDE FRAME

WARNING – This may prove to not be secure.

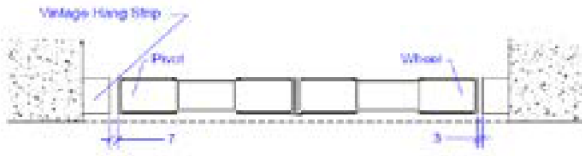
LINER (PROTRUDING)



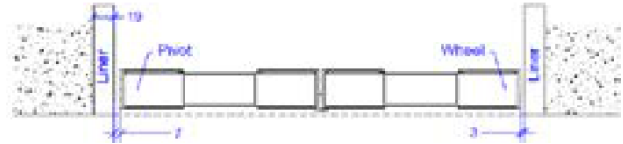
4.

Side Frame Options

VINTAGE HANG STRIP



LINER (INSIDE REVEAL)



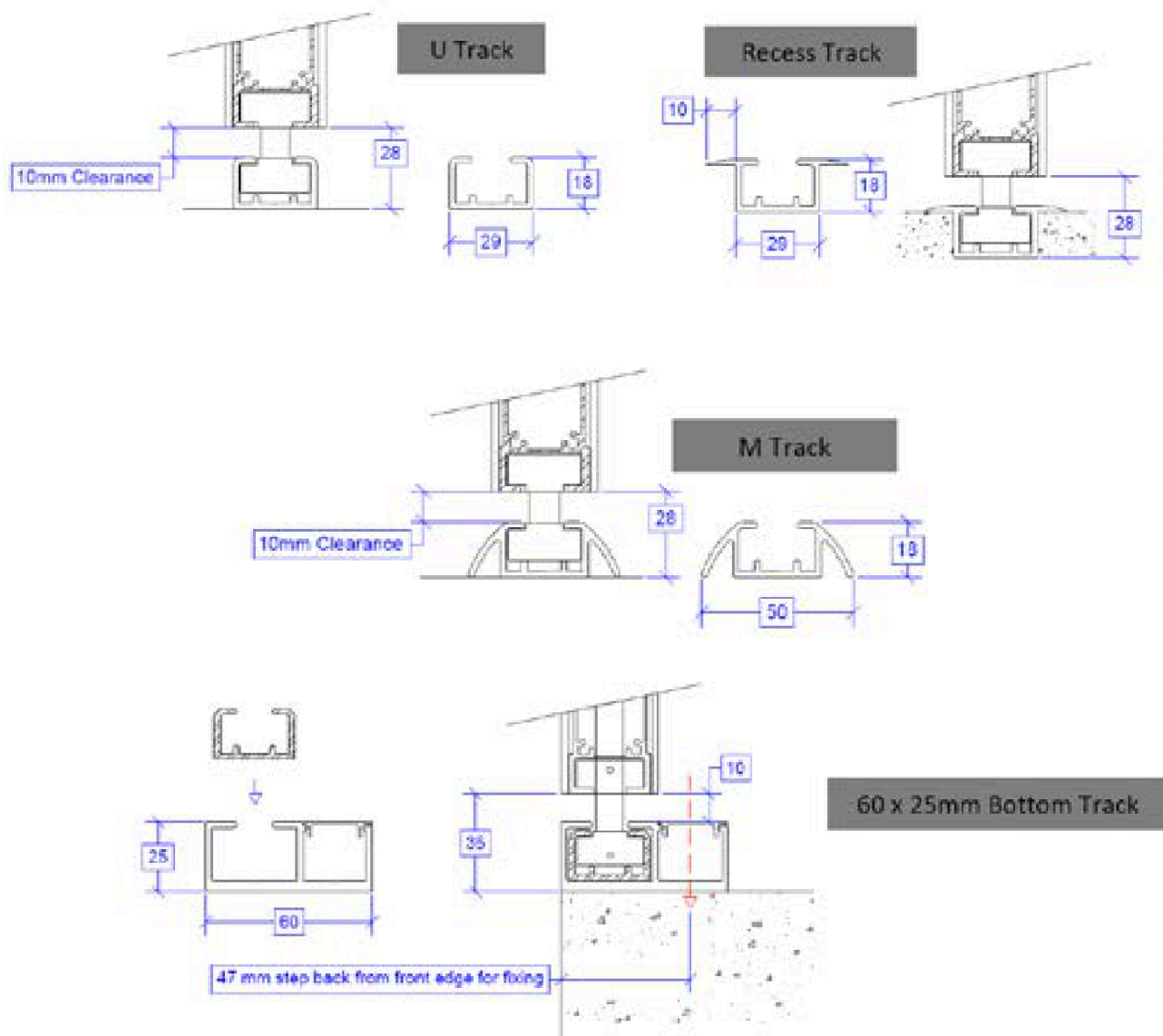
- Recommended side frame selection is the Overlap or Std track.
- Side frames provide additional support for the top track, therefore they are recommended
- Liners and Vintage Hang Strips are manufactured from timber with a paint finish. All timber parts will be charged as extras, this includes Vintage Hang Strips / Pelmets / Headers & Battens.

Bottom Clearances / Bottom Track Options

- Bottom track colour options
 - Satin White
 - Charcoal
 - Light Grey
 - Non-Standard colour
- Default bottom clearance is 28mm
- Bottom track is always required
- Order height is from the bottom of bottom track, so for recessed track please add 16mm from the floor level
- Maximum track length is 5800mm
- Request end caps for exposed sides of the bottom tracks

4.

Bottom Track Options

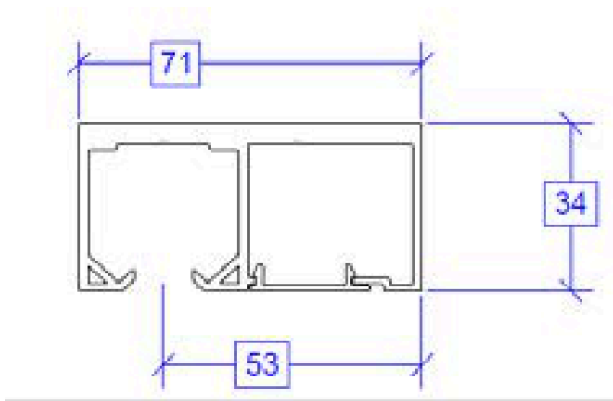


Used where you need to offset the fixing point of a bottom track from the edge of a reveal for example. It is a standard U Track inside an outer profile (60 x 25mm)

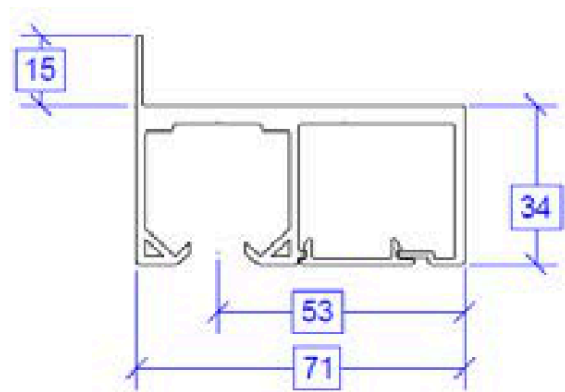
4.

Top Track & Header Options

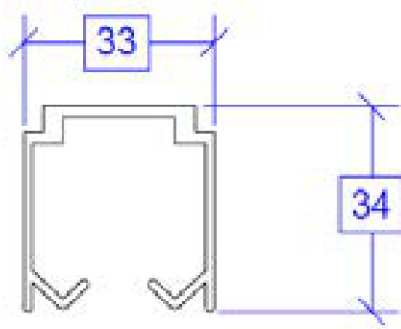
DEFAULT: 71 X 34MM STD



DEFAULT: 71X34MM OVERLAP



OPTIONAL: 33X34MM



OPTIONAL: 19MM HEADER



All timber charged as extra's

Pelmet Options

- Default is no pelmet, top track installed directly into reveal.
- 12mm timber pelmets are used if requested, this can be ordered to custom sizes.
- If you are not over sizing your pelmet and you are using a 19mm timber header (inside mount), the standard sized timber pelmet should be a 12mm x 53mm.
- Pelmets charged as extra's (timber)

5.

By-Pass Shutters

Panel Size Limitations

Width minimum	200mm
Width maximum	1050mm
Height minimum	581mm
Height maximum	3100mm

Installation Clearances

TYPE	1ST TRACK CENTRELINE FROM LAST PROTUSION	1ST TRACK CENTRELINE TO 2ND TRACK CENTRELINE
CLOSED BY-PASS (WITHOUT HINGE)	55mm	55mm
CLOSED BY-PASS (WITH HINGE)	65mm	65mm
OPEN BY-PASS	55mm	100mm

Order Dimensions: Deductions & Additions

TYPE	1ST TRACK CENTRELINE	NET SHUTTER WIDTH	NET SHUTTER HEIGHT
WINDOW SIZE	Inside	- 3mm per frame side	Order Height – 4mm
	Outside	Order Width + 90mm	Order Height + 66mm
FRAME TO FRAME SIZE	Inside	Order Width	Order Height
	Outside	Order Width	Order Height

- Deductions will be made from the order width for side frame selection

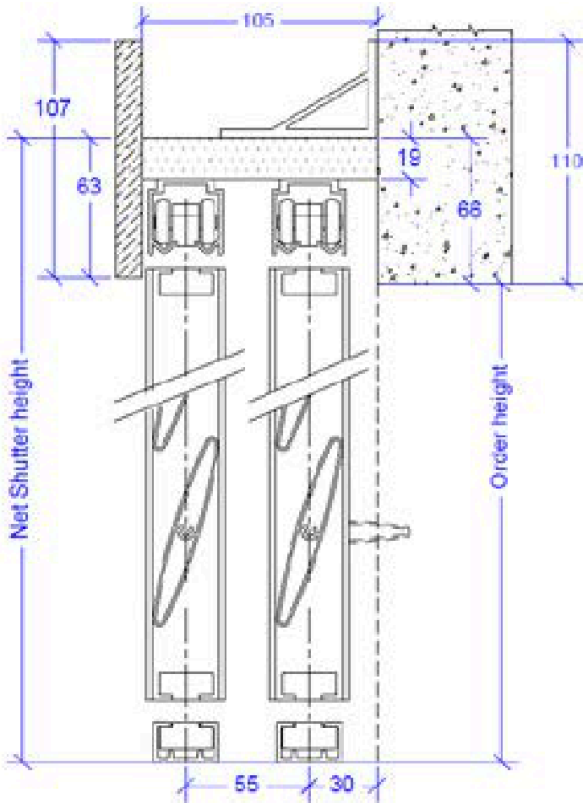
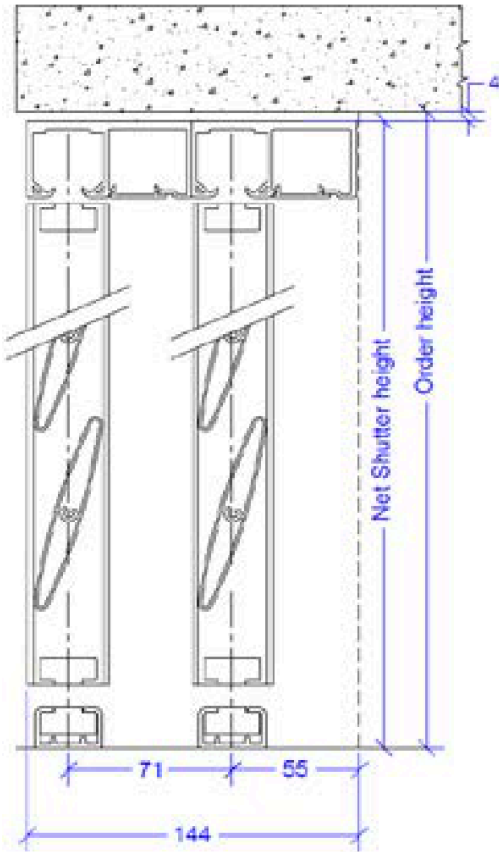
5.

Mount Options

ORDERED AS: WINDOW SIZE CLOSED BY-PASS	
INSIDE MOUNT (SECTION)	OUTSIDE MOUNT (SECTION)

Default:- top tracks installed directly into reveal

No Default - track selection & header size



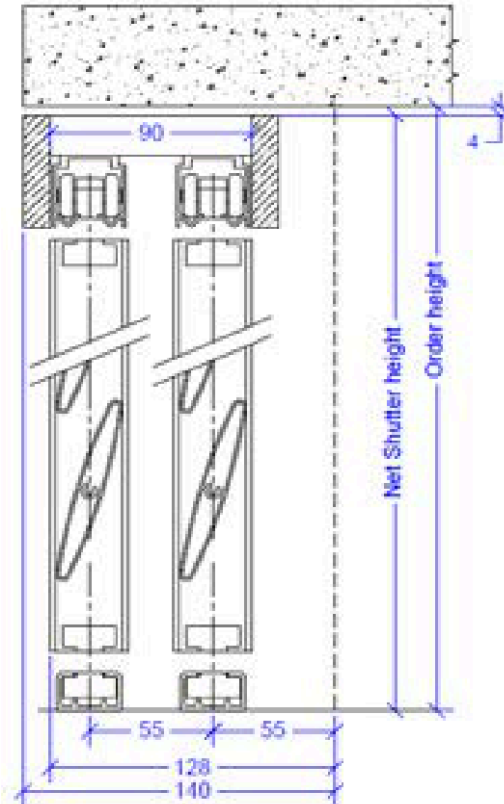
Timber parts charged as extras

5.

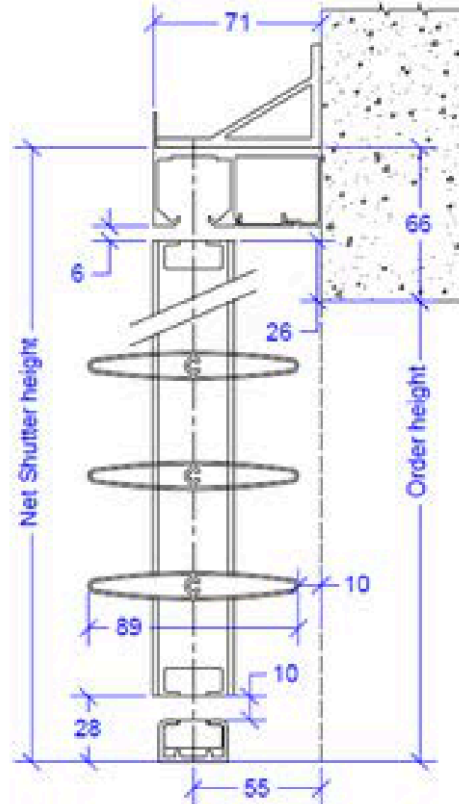
Mount Options

ORDERED AS: WINDOW SIZE
CLOSED BY-PASS

OPTIONAL: INSTALLED WITH A HEADER AND
PELMET



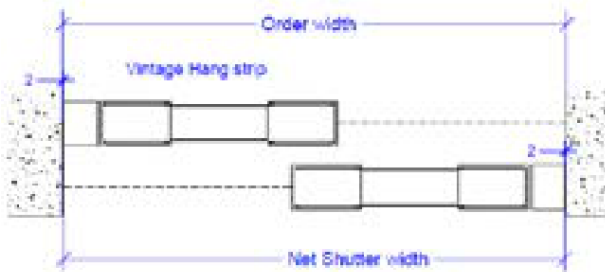
OPTIONAL: SINGLE TRACK INSTALLED WITH
BRACKET PROFILE



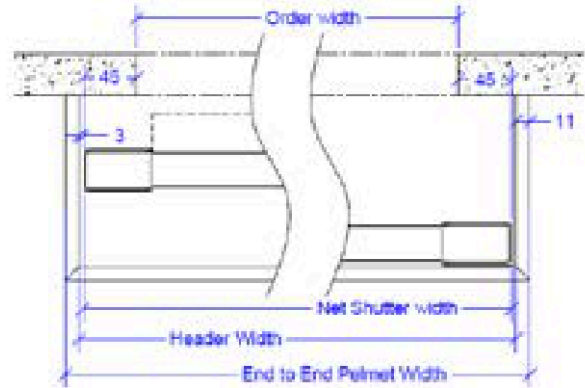
Timber parts charged as extras

5. Mount Options

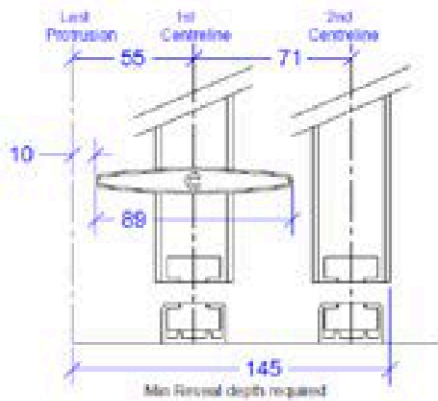
INSIDE MOUNT (PLAN VIEW)



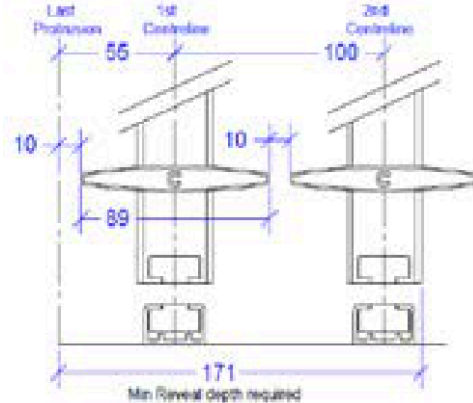
OUTSIDE MOUNT (PLAN VIEW)



CLOSED BY-PASS



OPEN BY-PASS



5. Panel Configuration

Key:	
Top detail	
••	Wheels
- - -	Track /s
■	Hinges
■	Lock location
△	Bottom Guides
Bottom detail	

1 panel (1 track)



No default lock position

2 panels with hinge (1 track)



No default lock position

2 panels without hinge (1 track)



2 panels side open



3 panels centre open



No default lock position

4 panels side open with hinge



5.

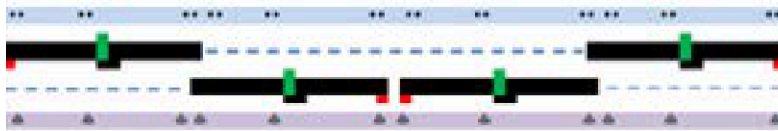
Panel Configuration



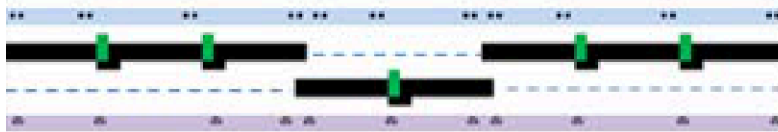
5.

Panel Configuration

8 panels centre open with hinge 4/4



8 panels centre open with hinge 6/2



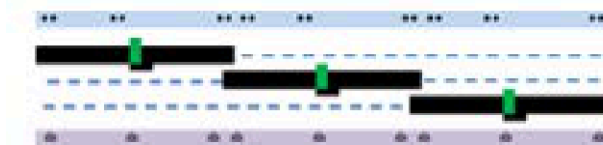
No default lock position

3 panels centre open (3 track)



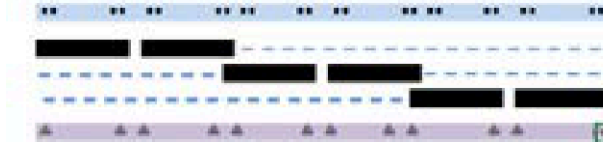
No default lock position

6 panels side open with hinge (3 track)



No default lock position

6 panels side open without hinge (3 track)



No default lock position

6.

Warranty

PORTCHESTER ALUMINIUM SECURITY SHUTTERS	WARRANTY (YEARS)	
	WORKMANSHIP & MATERIALS	HARDWARE
SECURITY SHUTTERS - INTERIOR	5	5
SECURITY SHUTTERS - EXTERIOR	3	3

The manufacturer warrants their products to be free from defects in materials or workmanship as per the above schedule. Provided that such products were properly installed; and such products were made or assembled exclusively from original materials and components. Any resale or other transfer of the product and/or materials after the first six (6) months voids this warranty.

Repair, remake or refund of defective products are the remedies under this warranty for the first six months after installation, thereafter the sole remedy will be repair or remake of defective products. Repairs will be made with only like or similar parts. During the first six months, this warranty does include shipping charges, costs of labour for measuring, installation, or trip charges, thereafter it will be excluded.

The manufacturer shall not be liable for any loss or damage of whatsoever nature, including consequential loss or damage arising out of delays or failure to deliver due to fire, explosion, unavoidable breakdown of machinery, government acts and/or regulations, strikes, war (declared or not) or by any other acts of God or similar circumstances which are reasonably beyond the control of, and unforeseen by, the manufacturer.

This warranty does not cover any condition of or damage to the shutter or window, from unauthorised repairs, accidents, alterations, misuse, abuse, act of God, motorized devices, daily wear and tear or failure to follow the manufacturers instructions with respect to measurement, installation, cleaning or maintenance. Improper, inappropriate, or unauthorised replacement parts, repairs or maintenance voids this warranty. Due to manufacturing, natural variations in colour, grain and texture in products, the manufacturer is not able to guarantee exact matches on subsequent orders. Returns cannot be authorised due to these normal variations.

6.

Warranty

COVERED	NOT COVERED
● Goods that are free from defects in materials and workmanship ● All internal hardware including components and moving parts are covered	● Products not ordered within specification ● Unauthorised repairs/ alterations ● Fair wear and tear ● Damages due to negligence, misuse or improper operation

Additional Notes

- 1 This warranty is between S:CRAFT (supplier) and the Trade Partner (retailer)
- 2 The warranty is provided subject to the maintenance and cleaning instructions being followed.
- 3 S:CRAFT will not be liable for any direct, indirect or consequential damages arising from any cause whatsoever.
- 4 The warranty shall not be valid unless S:CRAFT has received full payment for the goods.
- 5 It will be the manufacturers sole discretion to either repair, replace or refund the costs of proven defective goods.
- 6 The warranty period starts when an order is placed.
- 7 Slight fading especially as a result of exposure to sunlight is not covered.
- 8 Minor imperfections not readily apparent at a distance of two meters under ordinary light will not be accepted as defects.

7.

Maintenance & Cleaning

To ensure your Security Shutters continue to operate smoothly, you will need to clean and lubricate them periodically. How often you need to do so is based on the location of the shutters, and factors such as temperature, humidity, chlorides and other atmospheric pollutants.

Shutters installed indoors and inland will require less maintenance than shutters installed outdoors and close to the sea. This is due to the high corrosivity conditions of coastal areas compared to the low to medium corrosivity conditions of inland areas.

If your Security Shutters are installed in a high to extremely high corrosivity area, we recommend cleaning and lubricating every 1 to 4 weeks.

If your Security Shutters are installed in a low to medium corrosivity area, we recommend cleaning and lubricating every 3 to 6 months. *

**These intervals are for general guidance and specific local conditions need to be considered.*

Cleaning

- 1 Step 1:**
Remove all surface dust and grit with a feather duster, vacuum cleaner or water (if shutters are installed outdoors). This step is very important as cleaning with any dust and grit left on the shutters could scratch the finish.
- 2 Step 2:**
Using a damp soft cotton cloth, wipe down the shutters to remove contaminants such as salt and industrial fallout. Never use abrasive materials or detergent- and solvent-based cleaners such as thinners or mineral turpentine as these may damage the powder-coated finish of your shutters.
- 3 Step 3:**
Dry the shutters with a chamois or soft cotton cloth.
- 4 Step 4:**
Remove all dirt and debris from the bottom channel using a small broom or vacuum cleaner.

Lubrication

Keep your Security Shutters' wheels, hinges and pivots lubricated with a multipurpose lubricant spray such as Corrosion Block*. You can find out more about this product here: <http://www.corrosionblock.co.uk>.

The lock cylinder and bottom guide track should not require any lubrication, but if the lock cylinder becomes stiff due to extreme conditions then you can make use of a graphite powder lubricant*.

**In all cases, read the product instructions and cautions prior to application, and use strictly as the manufacturer recommends*

S:CRAFT



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