

Aluminium Shutters



Introduction

Window Treatment's traditional European styled Aluminium shutters are an aesthetically pleasing and versatile window management system suitable for both interior and exterior applications. The hardwearing powder coated aluminium is available in four baked enamel colours; silver, satin black, pearl white and new birch.

Aluminium shutters may be used for a variety of reasons: visibility and airflow, controlling the amount of sunlight that enters a room, privacy, security and the ability to enhance the aesthetics of a building or terrace access adding to practicality and mood of any interior or exterior area. They can be either fixed permanently in place, hinged, bi-fold or sliding depending on your preference and application. Louvres can be adjustable or fixed within the shutter frame. Full height shutters are made with a mid-rail which separates the upper and lower portions of the shutter, with operable louver shutters this gives greater control as the louvres above the mid-rail can be operated independently from the louvres below the mid-rail. A clear view metal tilt rod is used placed on the reverse side of the shutter allowing you to adjust all louvres at once by simply tilting one louver on the front side of the shutter. The clear view mechanism provides cleaner lines, preserves the view and helps to decrease light gap measurements on sliding shutter applications. Note that a front mounted tilt bar can not be used on our aluminium shutters.



Quick Glance

Type		Aluminium
Louvres	Louvre Size	89mm
Tilt Bar	Tilt Bar Position Clear View	N/A Yes
Style	Hinged Bi-fold Straight Sliding Fixed Louvres (ventilated) Fixed Louvres (non-ventilated) Special Shape Shutters	Yes Yes Yes Yes Yes No
Stile Options	Square Rabbit D-mould	Yes No Yes
Hardware	Tracking Systems Hardware	Yes Yes
Frame Options	Stiles Mid-rail Light Stop Hang Strips L Frames Z Frames T Post U Channel Corner Post Bay Window Post	Yes Yes *Yes - constructed from Basswood No Yes No Yes Yes *Yes - constructed from Basswood *Yes - constructed from Basswood
Finish	Stained Oiled Lacquered Painted Powder coated	No No No No Yes

SPECIFICATIONS

Aluminium Shutters

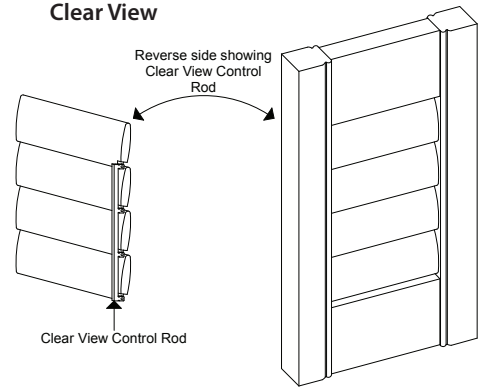
- Tilt Rod, Louvre Size, Louvre Style,

Tilt Rod Control Position:

Clear View

The Clear View control for Aluminium shutters is a metal tilt rod rebated into the side of the louvre blade on the reverse side of the panel. This allows for cleaner lines and a clear view through the shutter once the louvres are opened or closed.

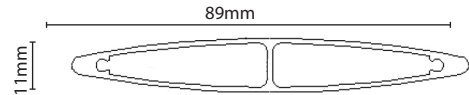
The standard Clear View tilt bar position is on the hinged stile side of the louvre blades. Aluminium shutters that are installed in hard to reach places will come with a hooked pole and have a small eyelet screwed into the bottom louvre which allows the louvres to be repositioned easily using the pole provided. The Clear View mechanism when used in sliding shutter applications decreases the light gap measurements and allows each shutter panel to sit closer to one another reducing the depth of the shutters when stacked.



Louvre Size and Type

Aluminium shutters are available in an areofoil blade which is elliptical in shape (i.e. thicker in the middle and tapered to the front and back).

Type	Size	Thickness
Aluminium Aerofoil	89mm x 11mm	1.4mm



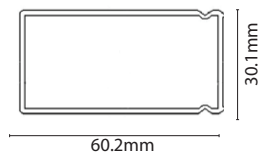
Louvre Style for Special Shape Shutters

Special shapes are not available in Aluminium shutters. Please refer to our Basswood and Cedar Shutter sections if special shapes are required.

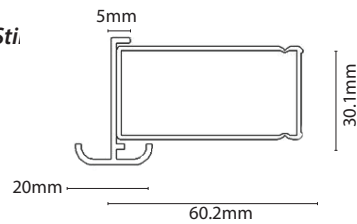
Stiles

Window Treatments supplies 2 stile options for Aluminium shutters: Square, and D-mould. D-mould stiles are used to provide a light block where two panels overlap or interlock.

Aluminium Square Stile



Aluminium D-mould Stile



Square stile



Square Stile



Square & D-mould

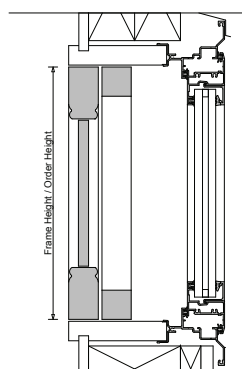
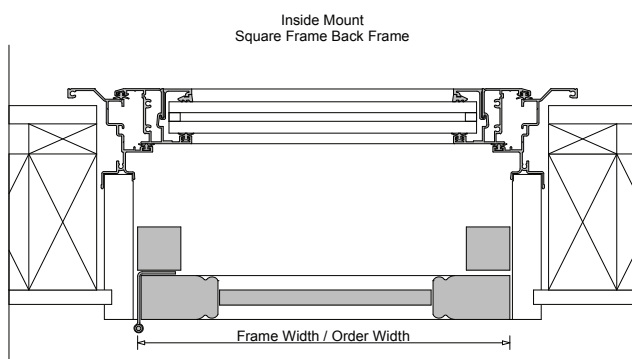


Aluminium Shutters

- Light stop, L frames, T frames & Mount types

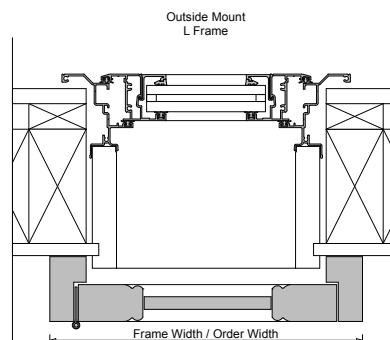
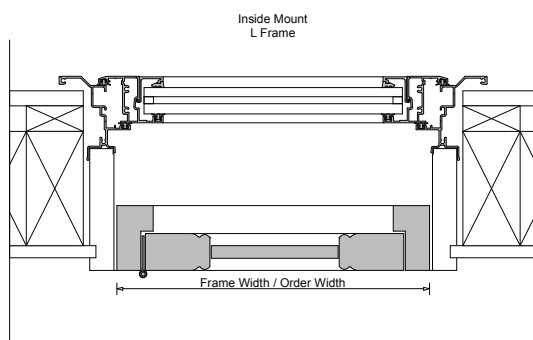
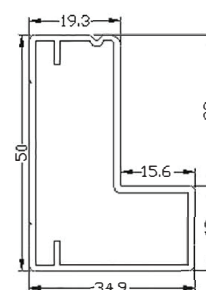
Light Stop

Shutter Type	Type	Frame Options	Benefit
Aluminium	Light Stop	Varies	Provides a light block where panels are hinged. Note: constructed from Basswood



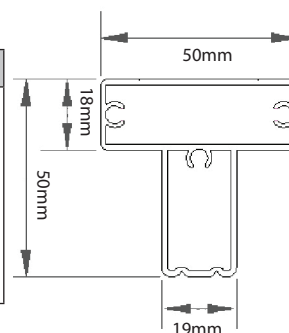
L Frame

Shutter Type	Type	Frame Options	Benefit
Aluminium	L Frame	Standard	L Frames are used to provide hanging options for single and multiple panels for outside and inside mount applications using a Butt or Steadman hinge. Using a standard frame with a Steadman hinge allows you to protrude the panel past the window opening. This gives you the ability to hang the shutter panel square in the frame and closes light gap for flush mounted hinges. Ideal when there is no architrave in the opening.



T Post

Shutter Type	Type	Frame Options	Benefit
Aluminium	T Post	Standard	T Post are used to provide hanging options for single and multiple panels for outside and inside mount applications using a Butt hinge. Gives you the ability to hang the shutter panel square in the frame. The T Post closes the light gap for flush mounted hinges. Ideal when there is no architrave in the opening. Available as Standard.



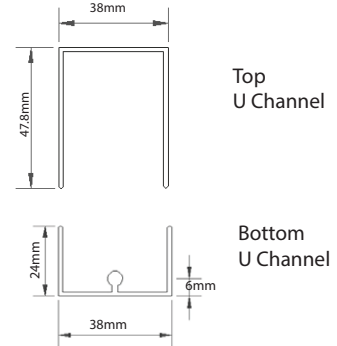
SPECIFICATIONS

Aluminium Shutters

- U Channel, Corner Post, Bay Window Post & Mount types, Panel Types

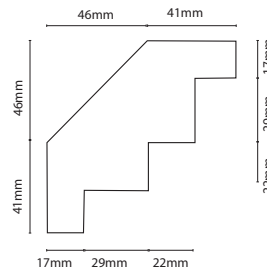
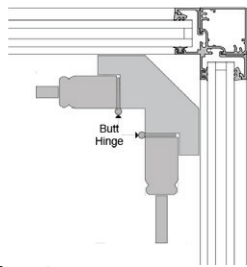
U Channel

Shutter Type	Type	Frame Options	Benefit
Aluminium	U Channel	Top, Bottom	Top and bottom 'U Channels' are ideal for incline roof applications or when access to windows is not required. The louvres can open and close and the panel can easily be removed by lifting the shutter up into the top channel and out at the bottom. To refit the reverse applies.



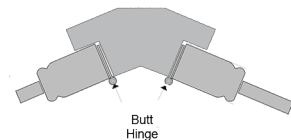
Corner Post

Shutter Type	Type	Frame Options	Benefit
Aluminium	Corner Post	Corner Post	Corner Posts are used to provide hanging options for single and multiple panels within a corner application. Closes light gap for flush mounted hinges. Corner Posts are manufactured according to the size required for each installation. Note: constructed from Basswood

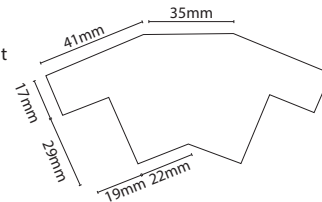


Bay Window Post

Shutter Type	Type	Frame Options	Benefit
Aluminium	Bay Window Post	Bay Window Post	Bay Corner Posts are used to provide hanging options for single and multiple panels within a bay window application. Closes light gap for flush mounted hinges. Bay Window Posts are manufactured according to the size required for each installation. Note: constructed from Basswood



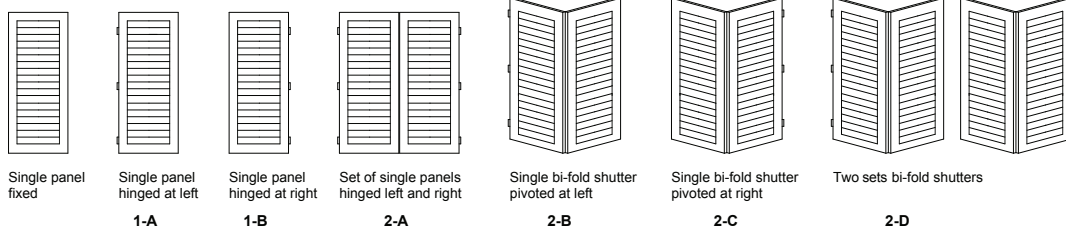
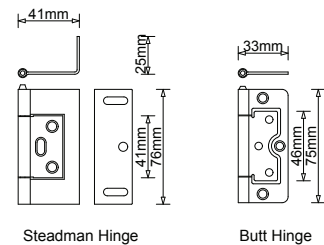
Can be custom made to suit



Panel Types & Hinging Options

Panel types refers to the variations of each type of shutter; single panel fixed, single panels hinged, bi-folds, L Frame, T Post, Straight sliding, and bi-folding variations.

The type of hinge used for a single panel, bi-fold, L frame and T post applications is a butt hinge. However if you require your panel to protrude past the window opening then a Steadman hinge is required hinged from a hang strap.

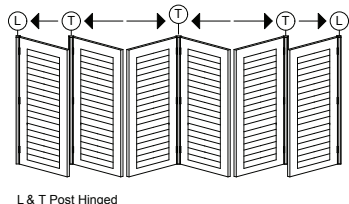


Aluminium Shutters

- Panel Types & Hinging options contd.

L Frame and T Post Hinged options

When tracks are not feasible, L frame and T Posts are used to provide options for single and multiple panels within an opening or outside the opening window (see examples below).



L & T Post Hinged

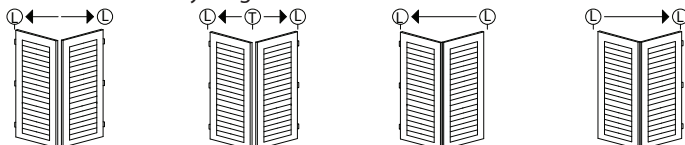
Key

T means	Panel is hinged from a T Post or closes onto a T Post
L means	Panel is hinged from a L Frame or closes onto a L Frame
→ means	Panel direction to the right
← means	Panel direction to the left

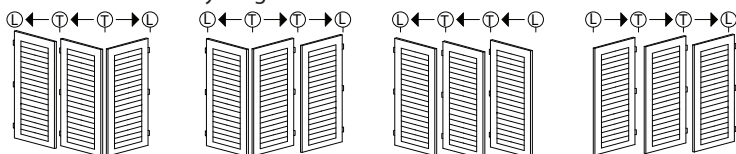
One Panel variations:



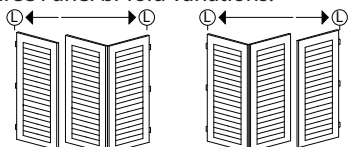
Two Panel individually hinged & Two Panel bi-fold variations:



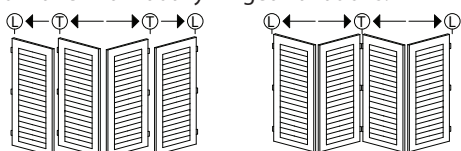
Three Panel individually hinged variations:



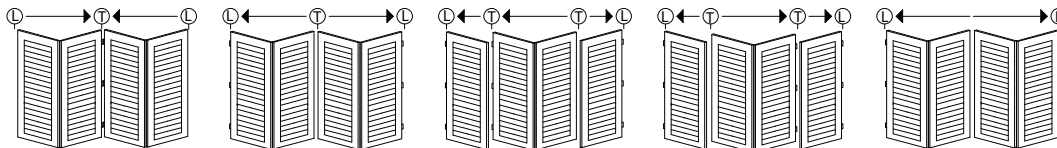
Three Panel bi-fold variations:



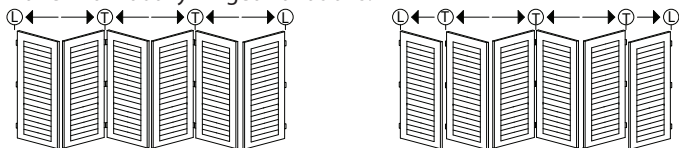
Four Panel individually hinged variations:



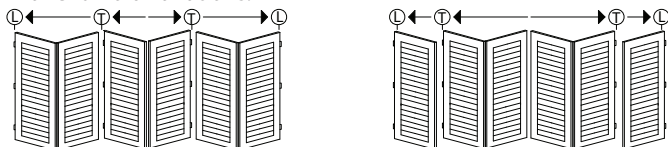
Four Panel bi-fold variations:



Six Panel individually hinged variations:



Six Panel bi-fold variations:



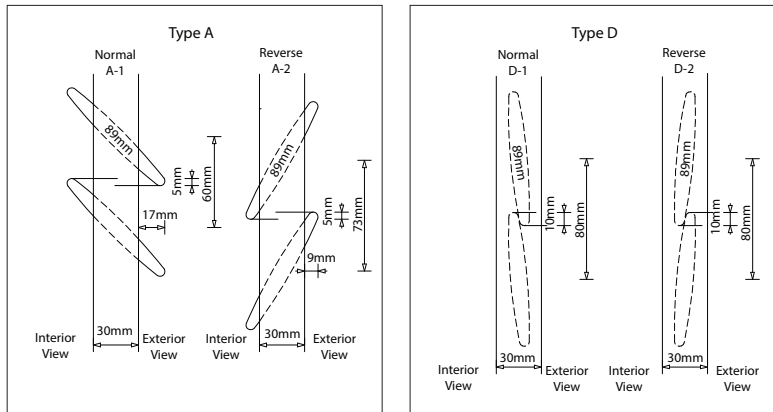
SPECIFICATIONS

Aluminium Shutters

Fixed Louvre Shutters, Overview specifications

Fixed Shutters

Fixed louvres are permanently open (ventilated - Type A) or permanently shut (non-ventilated - Type D). Permanently open means that there is always ventilation while blocking line of sight. Fixed louvres may be employed for a variety of reasons: to control the amount of sunlight that enters a room, to provide privacy and security, protect against weather, unwanted intrusion or damage and to enhance the aesthetics of a building.



	Type A		Type D	
	Normal A-1	Reverse A-2	Normal D-1	Reverse D-2
Stile (Aluminium)	60 x 30mm	60 x 30mm	60 x 30mm	60 x 30mm
Louvres (Aluminium)	89mm	89mm	89mm	89mm
Angles	45° or 60°	45° or 60°	85°	85°
Louvre Facing	Normal	Reverse	Normal	Reverse
Projection (Aluminium)	17mm	9mm		
Finish (Aluminium)	Powder coated	Powder coated	Powder coated	Powder coated

Overview Aluminium Shutter Specifications:

Louvre Size		
Type	Size	Options
Louvre - Aerofoil	89mm x 11mm	Half Open, Fixed, Ventilated, Fixed Non-Ventilated

Width & Height Hinged	
Type	Size
Maximum Width	1100mm (Single Panel)
Maximum Width	700mm (Bi-fold Panel)
Minimum Width	300mm (Single Panel)
Minimum Height	300mm
Maximum Height	2700mm
Note: Shutters over 1800mm in height will be constructed with a mid-rail	

Finish		Stile & Rails		
Type	Colours	Type	Size	Options
Powder Coated	Silver, Satin black, Pearl white, New birch	Stile	60mm x 30mm	Square D-mould
Recess		Top Rail	25mm x 78.6mm	
Size	Louvre size 89mm	Mid Rail	25mm x 81.6mm	
122mm		Shutters over 1.800mm 1 mid-rail		
		Bottom Rail	72.4mm - 141mm x 25mm	
		(varies, depends on height of panel)		
		Tilt Rod	Rebated on reverse side of panel	Clear View only

Track Systems		
Type	Multi-fold	Single Run
Maximum Width	700mm per Panel (maximum 8 x Panels on each side)	1200mm per Panel (maximum 6 x Panels on each track)
Maximum Height	2700mm	2700mm
	Note: Shutters over 1800mm in height will be constructed with a mid-rail	Note: Shutters over 1800mm in height will be constructed with a G mid-rail

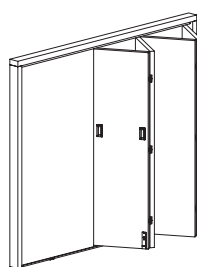
Aluminium Shutters

Hardware Technical - Tracking systems, Hinges

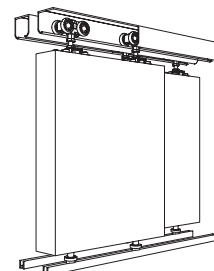
Hardware Overview

Tracking Systems

Window Treatments supplies two tracking systems: Multi-fold for bi-fold shutters, and Single Run for straight sliding shutters. For special applications Window Treatments can supply various track options to suit your requirements.



Multi-fold for Bi-fold shutters

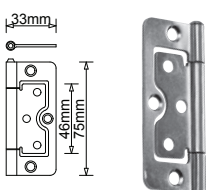


Single Run for straight sliding

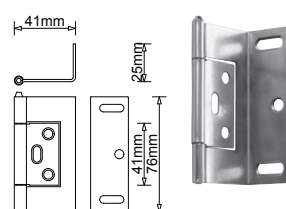
Hinges

Depending on the type of shutter installation, Butt Hinge and Steadman Hinge are the standard hinges. For special applications, Window Treatments also supplies various hinge options such as Handle hinges to suit your requirements.

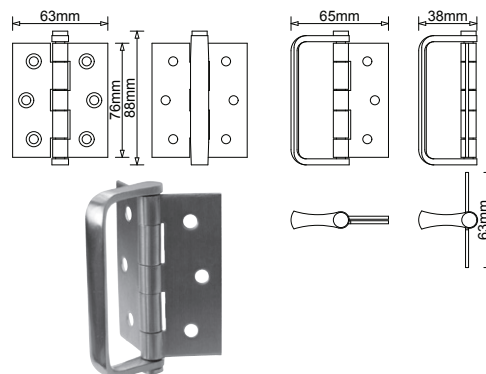
Butt Hinge



Steadman Hinge



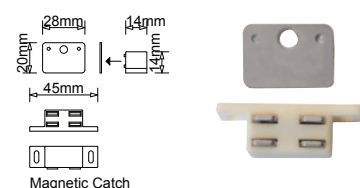
Handle Hinge



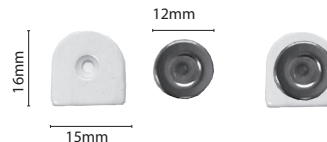
Barrel Bolt



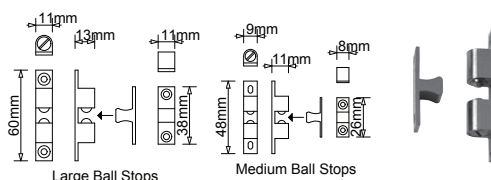
Magnetic Catch



Magnetic Catch



Ball Stop



Type	Colours Available	Suitable for
Butt Hinge	Stainless Steel, Silver, Cream, White, Black, Antique Brass, Bright Brass	Square, Rabbet, T Post, L Frame
Steadman Hinge	Stainless Steel, Silver, Cream, White, Black, Antique Brass, Bright Brass	Hang Strip, protruding past window opening
Handle Hinge	Stainless Steel	Bi-fold, assists panel movement
Barrel Bolt	Stainless Steel	Bi-fold, Sliding, Panel
Ball Stops	Brass, Chrome	Securing Fixed Panel
Magnetic Catch	Brown, White, Black	Securing Bi-fold Panel

SPECIFICATIONS

Aluminium Shutters

Hardware Technical - Sliding Single Run

Application

- Widely used in lighter commercial and industrial applications
- To cover any width of opening, any number of panels can be used
- To accommodate different building designs, panels can slide to one or both sides
- Hinged panel for easy access may be incorporated into a sliding panel
- Where panels are fitted externally, a canopy is recommended



Panel Specification

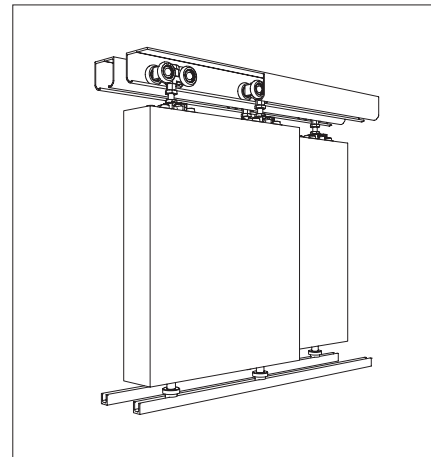
Track System: Single Run (individual Panels)

Max Panel Height: 2700mm

For ease of operation it is recommended that the panel width should not exceed 75% of the panel height.

Panels for interior use can be of flush construction or glazed. Panels for industrial applications should be framed, ledged and braced.

Aluminium panels should be constructed of box section, channel or angle framing, well braced and clad with flat or corrugated sheets.



Hardware Specification

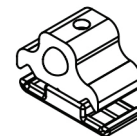
Track : 80A
 Material : Aluminium
 Standard lengths : 2000mm, 3000mm, 4000mm, 6000mm
 Aluminium track available in mill or clear anodised finish.

Door Stop : 20DS (Stainless Steel)

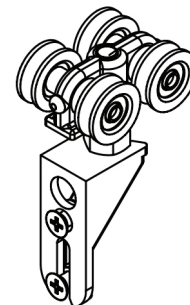
Hanger sets : No. 52EN/4-A
 Stainless Steel hangers are fitted with nylon wheels on precision stainless steel ball race bearings. Vertical adjustment is simple and positive.

Guide : No. 21ER-A
 With precision stainless bearing.

Channels
 Aluminium & Polypropylene : 94PPA Mill or clear anodised
 Standard lengths : 2000mm, 3000mm, 4000mm, 6000mm



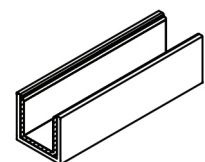
No. 20DS
DOOR STOP



No. 52EN/4-A
INTERMEDIATE
HANGER



No. 21ER-A
END GUIDE



No. 94PPA
CHANNEL

Aluminium Shutters

Hardware Technical - Multi-fold

Application

- Suitable for residential and light commercial folding shutters
- Leaves can be either end folding or centre folding
- Leaves can fold to one or both sides of the opening
- Pivot hardware enables an end folding internal partition to be designed using standard width panels with no need to reduce the width of the leaf adjacent to the post.
- To cover any width opening, any number of folding units can be used.



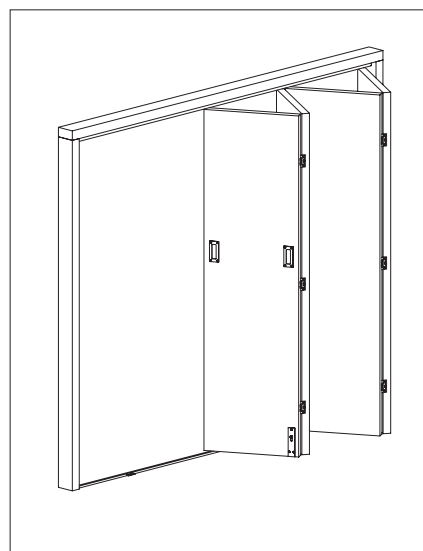
Panel Specification

Track System: Multi-fold (individual leaves)

Max Leaf Height: 2700mm

Max Leaf Width: 700mm

Designed to suit aluminium folding screens with all panels of equal width. Panels can fold to one or both sides of the opening. Pivot hardware enables an end folding internal partition to be designed using standard width panels with no need to reduce the width of the leaf adjacent to the post. All stainless steel hardware components are located inside the aluminium stile's recess for flush and secure fitting.



Hardware Specification

Track - punched for soffit fitting: 80A

Material : Aluminium

Standard lengths : 2000mm, 3000mm, 4000mm, 6000mm

Pivot Sets : 21EP-A

Adjustable Top & Bottom Pivot

Door Stop : 20DS (Stainless Steel)

Hanger Set :

End Hanger : 52EN-A

Intermediate Hanger : 52EN/4-A

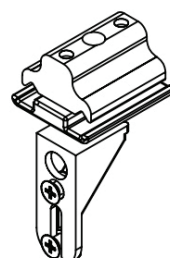
Stainless steel hangers are fitted with nylon wheels on precision stainless steel ball race bearings. Vertical adjustment is simple and positive.

Guide : 21ER-A

With precision Stainless steel Bearing.

Channels : 94PPA

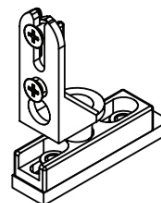
Aluminium channel, available in 2100mm, 3000mm, 4000mm, 6000mm



No. 21EP-A
PIVOT



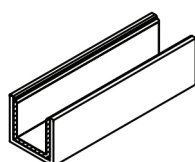
No. 52EN-A
END HANGER



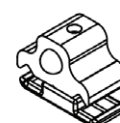
No. 52EN/4-A
INTERMEDIATE
HANGER



No. 21ER-A
END GUIDE



No. 94PPA
CHANNEL



No. 20DS
DOOR STOP

SPECIFICATIONS



Aluminium Shutters

SPECIFICATIONS

