SUNBLOC

SHUTTER & LOUVRE SYSTEMS

SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

@ Sydney: sales.sydney@sunbloc.sydney.com.au

@ Brisbane: sales.brisbane@sunbloc.com.au

@ Perth: sales.perth@sunbloc.com.au

@ Newcastle: sales.newcastle@sunbloc.com.au

@ Melbourne: sales.melbourne@sunbloc.com.au

DURABILITY   **AESTHETIC DESIGN**   **PRIVACY**   **LIGHT CONTROL**   **ECO-FRIENDLY**   **RUST PROOF**

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

SUNBLOC™
SHUTTER & LOUVRE SYSTEMS

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS
SYSTEM OPTIONS

HINGED

SLIDING

BI-FOLD

FIXED

For both internal & external appplications

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SHUTTER & LOUVRE SYSTEMS
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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

Hinged system

Suitable for residential, commercial & industrial applications. A stylish and practical privacy & sun shading solution for your home, commercial or industrial property.

APPLICATIONS

- Exterior sun shading
- Interior sun shading
- Exterior facade
- Wall partitions
- Doors
- Windows
- Privacy
- Awning
- Wall dividers
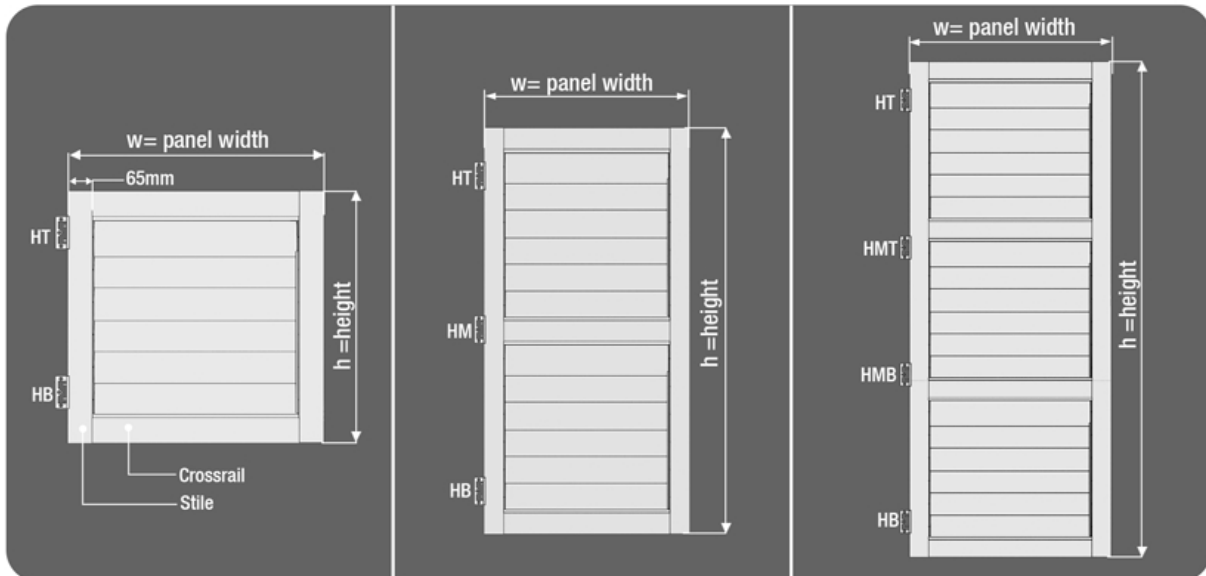- Veranda shades
- Patio enclosures

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

Hinged system

Aluminium Blade Options

55.00
68.00
90.00
115.00
13.5
13.5
13.5
13.5

Non Mortise Hinge

Standard Frames

48

L, Z Frame

58 L Frame

w= panel width
65mm
HT
HB
h =height
Crossrail
Stile

w= panel width
HT
HM
HB
h =height

w= panel width
HT
HMT
HMB
HB
h =height

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OPERABLE ALUMINIUM SHUTTERS

Hinged system
HINGE MOUNT SPECIFICATION
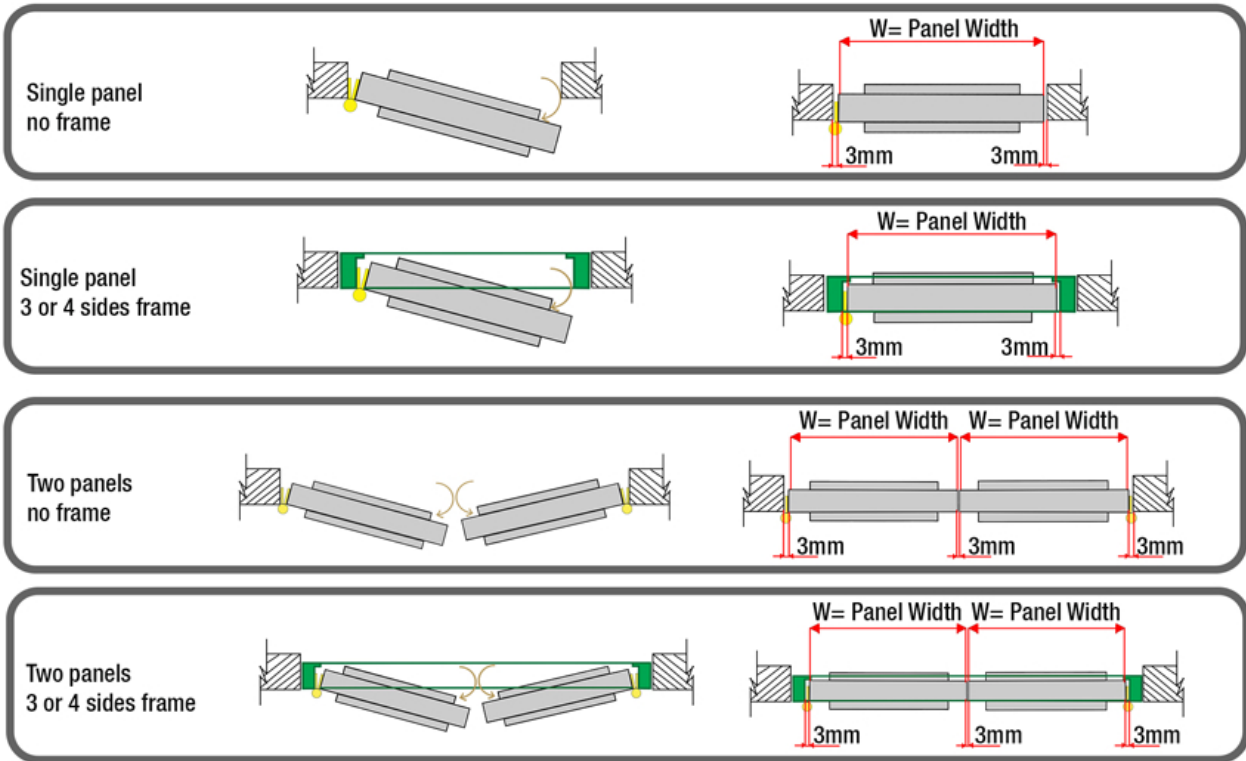
Single panel no frame

W= Panel Width

3mm   3mm

Single panel 3 or 4 sides frame

W= Panel Width

3mm   3mm

Two panels no frame

W= Panel Width   W= Panel Width

3mm   3mm   3mm

Two panels 3 or 4 sides frame

W= Panel Width   W= Panel Width

3mm   3mm   3mm

3mm
5mm

48mm
25mm

WALL

Note: 1. 0 > 900mm Wide panel, requires
           Dual Control Rod

        2. 0 > 15 blades per Panel will
           require to split the Control Rod

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

L FRAME

TOP RAIL

LOUVRE BLADES

LOUVRE BLADES

STILE

MID RAIL

NON MORTISE HINGE

BOTTOM RAIL

Hinged System

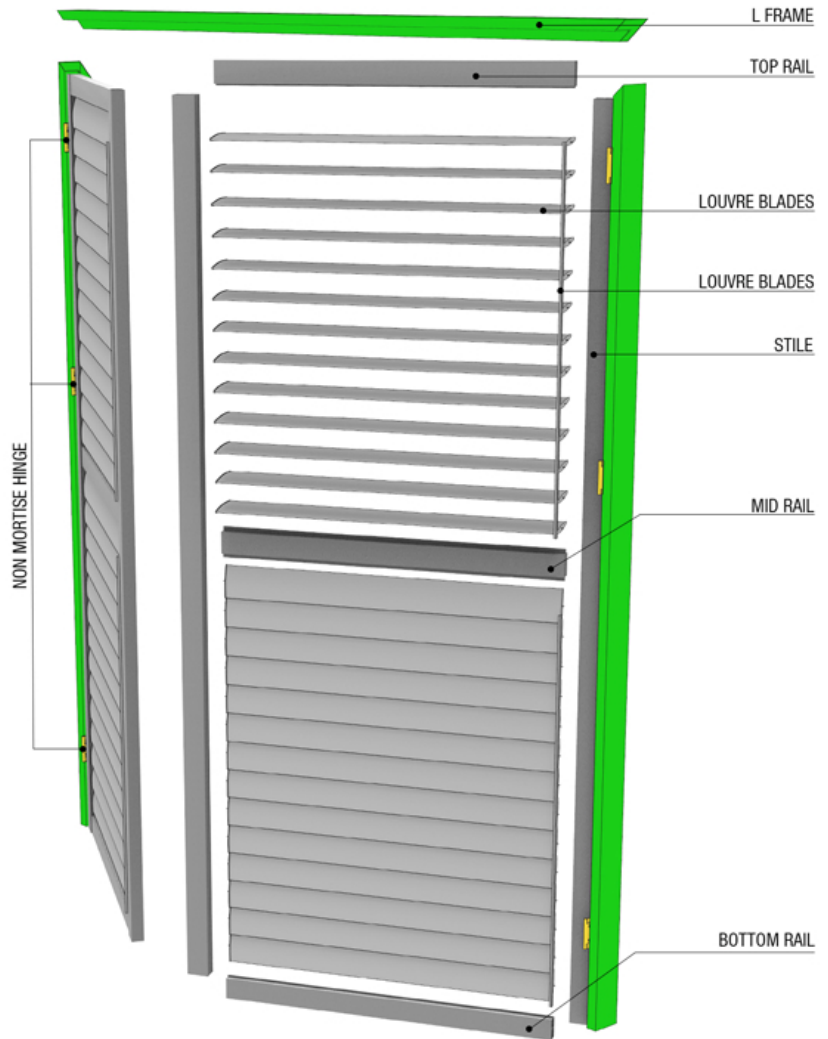Suitable for residential, commercial & industrial.

Choice of aluminium blades:

55mm, 68mm, 90mm, 115mm, Custom made sizes

Aluminium extruded to AS 1866:1997
Aluminium powder coated to AS 3715-2002
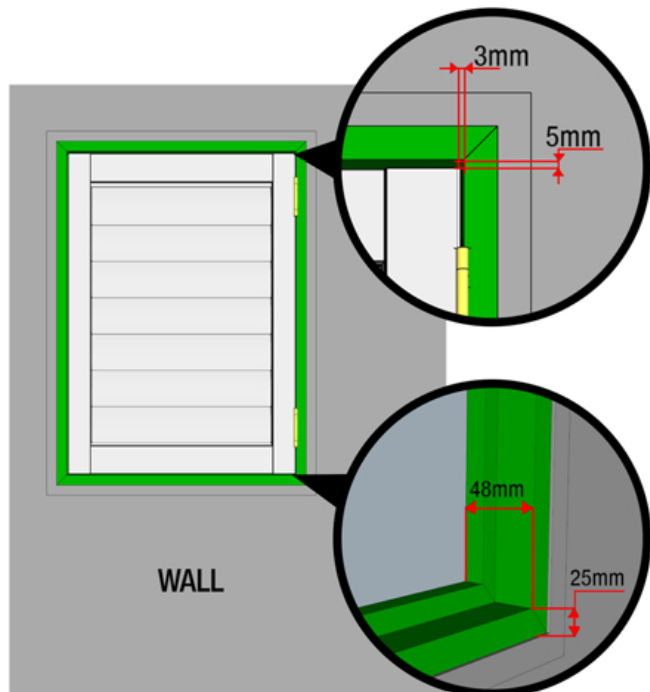
Aluminium sections anodised to AS 1231-2000

Application

Standard for HINGED PANELS:

Maximum Panel Width, mm	Top Rail	Middle Rail	Bottom Rail
<=1000	Yes	Yes	Yes

Hinged Panel				
No. of Hinges	2	3	4	5
Width, mm	≥ 800	$\geq 800 \leq 1200$	$\geq 1200 \leq 1500$	$\geq 1200 \leq 1500$
Height , mm	≤ 1500	$\geq 1500 \leq 2400$	$\geq 2400 \leq 2700$	$\geq 2700 \leq 3200$

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

Bifold system

Suitable for residential, commercial & industrial applications. A stylish and practical privacy & sun shading solution for your home, commercial or industrial property.

APPLICATIONS

- Exterior sun shading
- Interior sun shading
- Exterior facade
- Wall partitions
- Doors
- Windows
- Privacy
- Awning
- Wall dividers
- Veranda shades
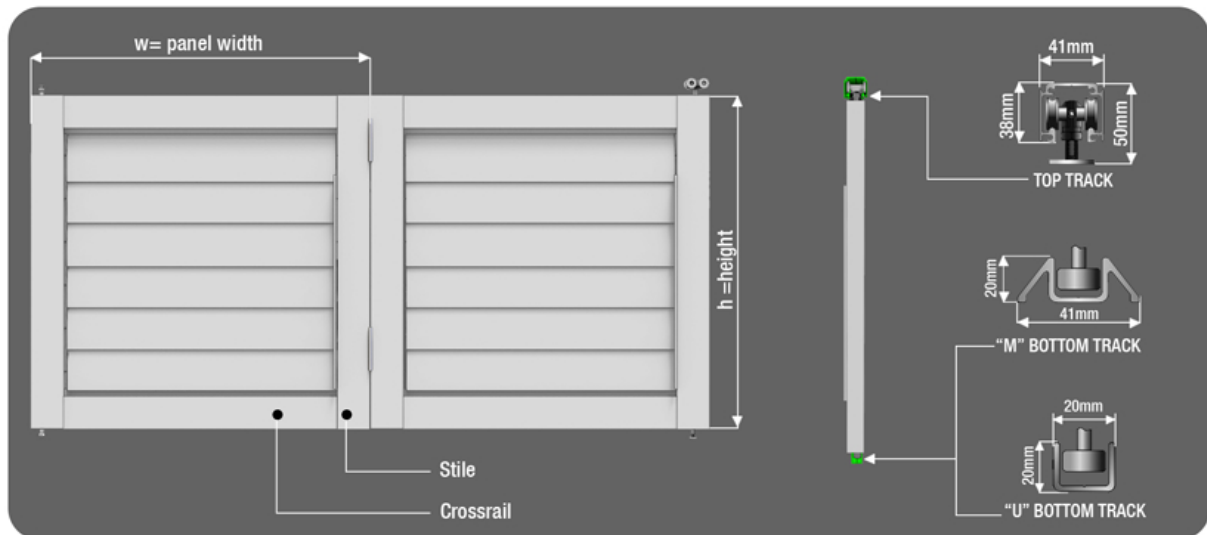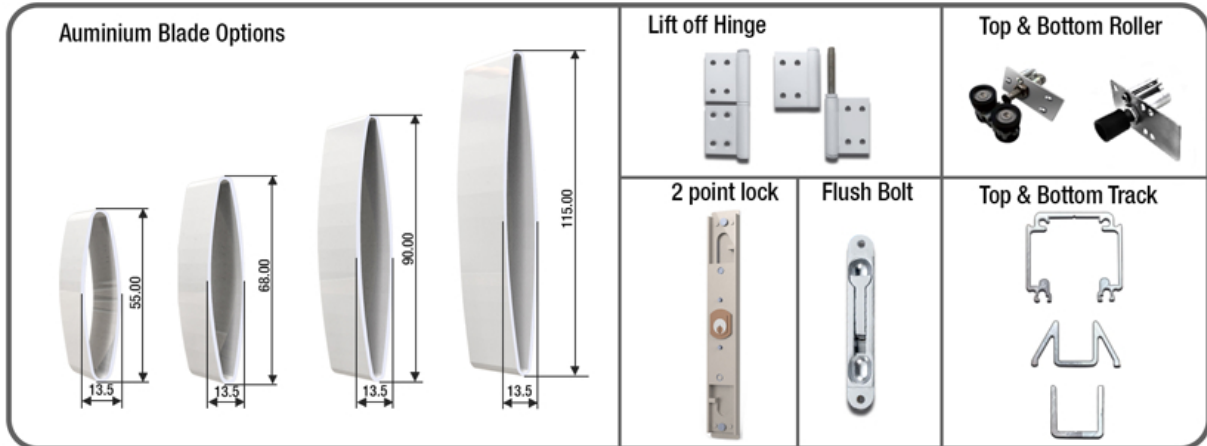- Patio enclosures

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SUNBLOC
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Bifold system

In swing

Out swing

Auminium Blade Options

55.00
13.5

68.00
13.5

90.00
13.5

115.00
13.5

Lift off Hinge

Top & Bottom Roller

2 point lock

Flush Bolt

Top & Bottom Track

w= panel width

h =height

Stile

Crossrail

41mm
38mm
50mm
TOP TRACK

20mm
41mm
"M" BOTTOM TRACK

20mm
20mm
"U" BOTTOM TRACK

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

TOP TRACK

TOP RAIL

TOP ROLLER

Bifold System

Suitable for residential, commercial & industrial.

LOUVRE BLADES

CONTROL ROD

STILE

Choice of aluminium blades:

55mm, 68mm, 90mm, 115mm, Custom made sizes

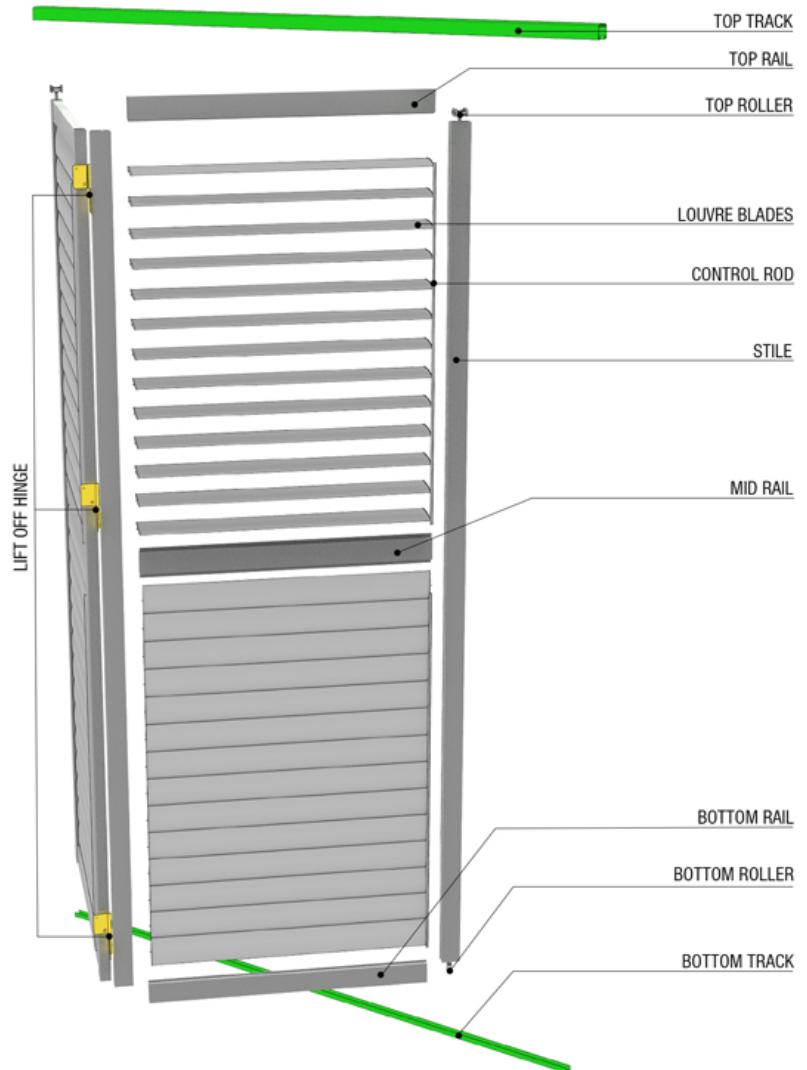Aluminium extruded to AS 1866:1997
Aluminium powder coated to AS 3715-2002

Aluminium sections anodised to AS 1231-2000

LIFT OFF HINGE

MID RAIL

BOTTOM RAIL

BOTTOM ROLLER

BOTTOM TRACK

Application

Standard for END FIXED BIFOLDING:

Maximum Panel Width, mm	Maximum No. of Panel for folding	Top Rail	Bottom Rail
<=1000	*4	Yes	Yes
	*Depends on panel width		

End Fixed Bifold Panel				
No. of Folds	1	2	3	4
Width, mm	<1500	<1200	<900	<700
Height , mm	<3200	<2800	<2600	<2600

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Bifold system
BIFOLD MOUNT SPECIFICATION
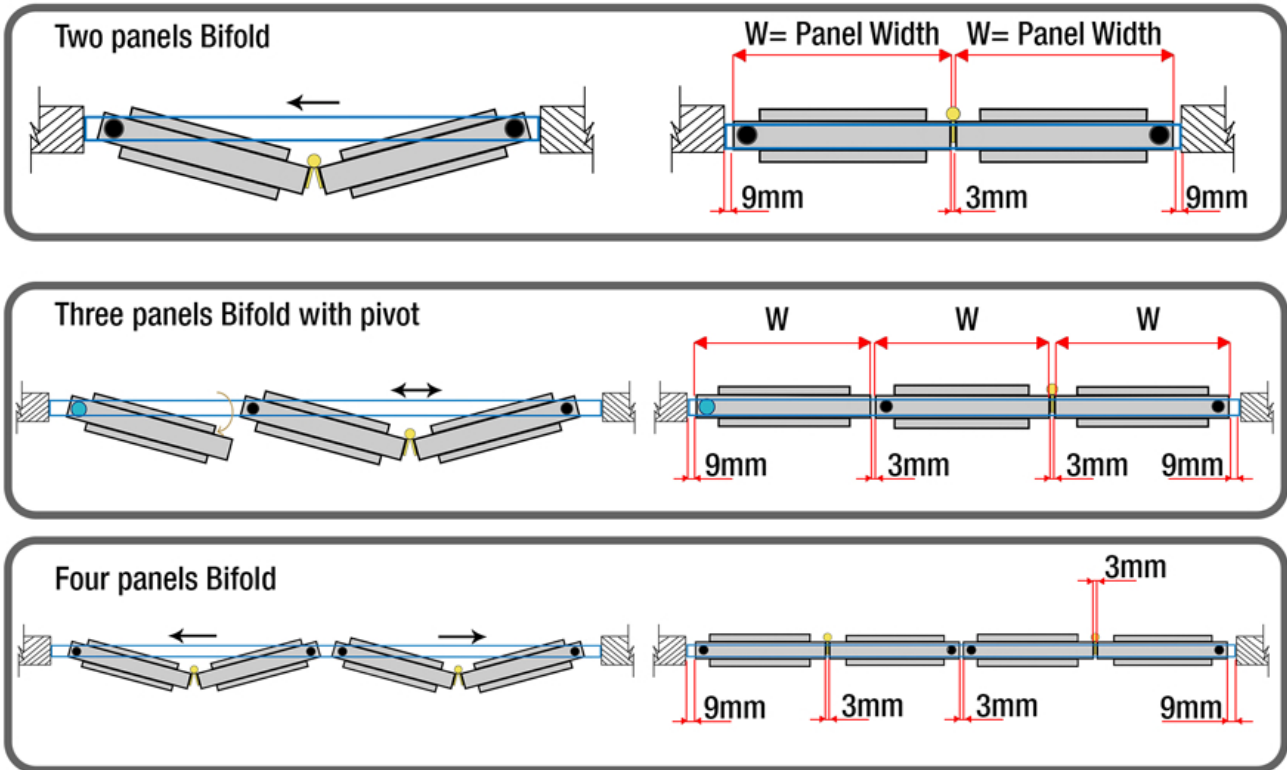
Two panels Bifold

W= Panel Width W= Panel Width

9mm   3mm   9mm

Three panels Bifold with pivot

W   W   W

9mm   3mm   3mm   9mm

Four panels Bifold

3mm

9mm   3mm   3mm   9mm

3mm

9mm

38mm   9mm   50mm

20mm   30mm   9mm

WALL

Note: 1. 0 > 900mm Wide panel, requires
         Dual Control Rod

2. 0 > 15 blades per Panel will
   require to split the Control Rod
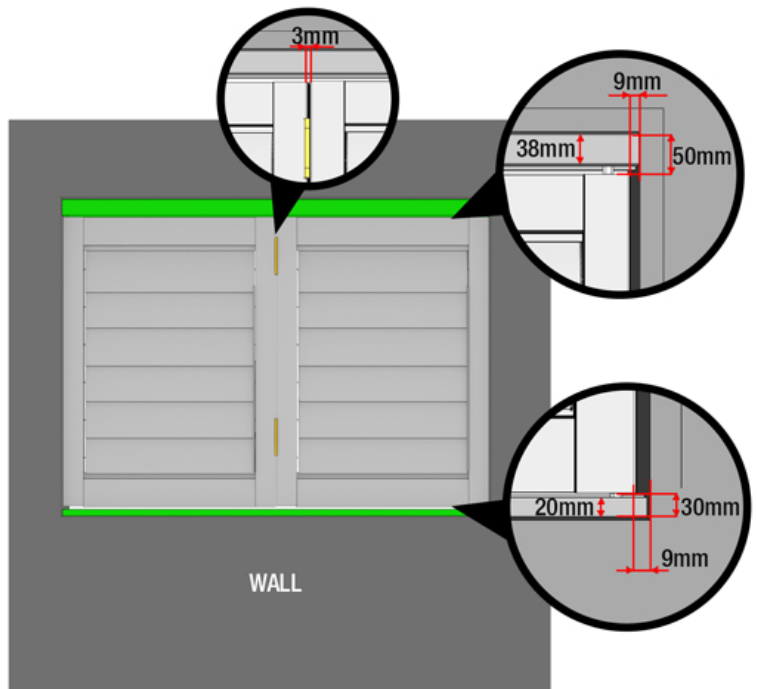
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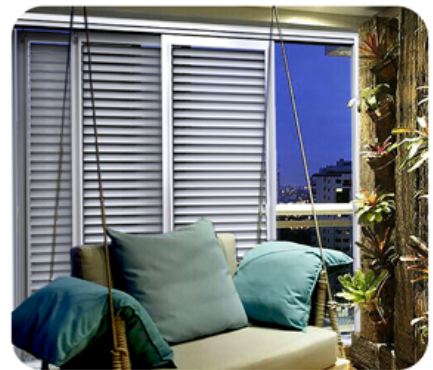## OPERABLE ALUMINIUM SHUTTERS

Sliding system

Suitable for residential, commercial & industrial applications. A stylish and practical privacy & sun shading solution for your home, commercial or industrial property.

APPLICATIONS

- Exterior sun shading
- Interior sun shading
- Exterior facade
- Wall partitions
- Doors
- Windows
- Privacy
- Balcony shading aluminium doors
- Balcony sliding doors
- Aluminium sliding windows
- Veranda shades
- Patio enclosures

SUNBLOC™
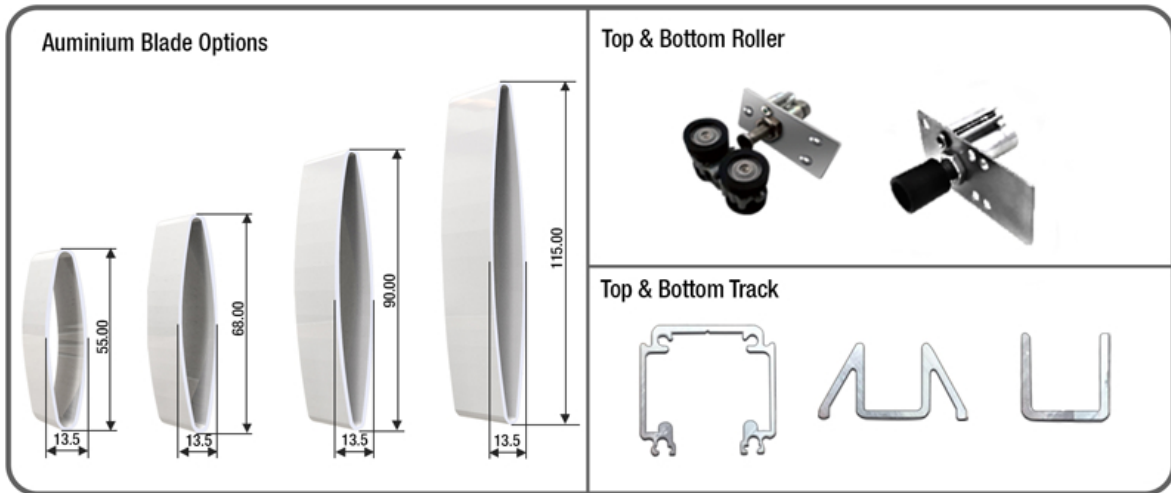## SHUTTER & LOUVRE SYSTEMS

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SUNBLOC
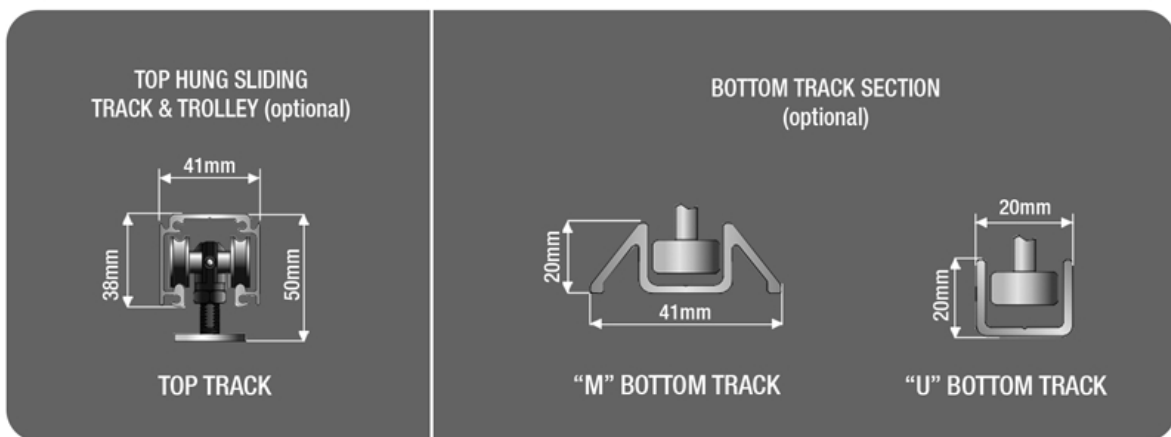## OPERABLE ALUMINIUM SHUTTERS

Sliding system

Closed Blades

Open Blades

Auminium Blade Options

55.00 | 13.5
68.00 | 13.5
90.00 | 13.5
115.00 | 13.5

Top & Bottom Roller

Top & Bottom Track

TOP HUNG SLIDING TRACK & TROLLEY (optional)

41mm
38mm
50mm

TOP TRACK

BOTTOM TRACK SECTION (optional)

20mm
41mm

"M" BOTTOM TRACK

20mm
20mm

"U" BOTTOM TRACK

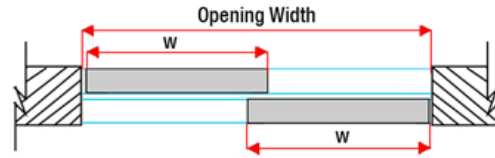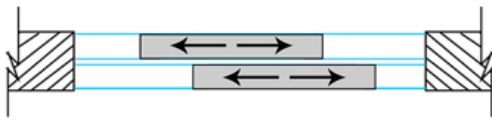# SUNBLOC™
SHUTTER & LOUVRE SYSTEMS

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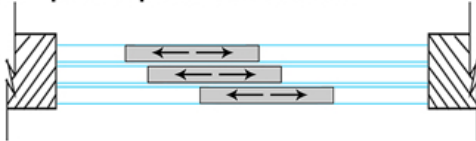
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OPERABLE ALUMINIUM SHUTTERS

Sliding system (Closed blades)
SLIDING MOUNT SPECIFICATION

Two panels per slider 2 tracks

Opening Width
W
W

Three panels per slider 3 tracks

Opening Width
W
W
W

Opening Width
65 mm
5 mm
65 mm
30 or 40 mm
Panel Width
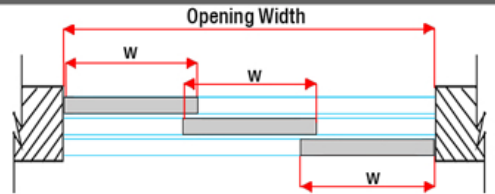
Note:
PW = Panel Width   N = # of Panels in a Group   G = # of Groups

Example:
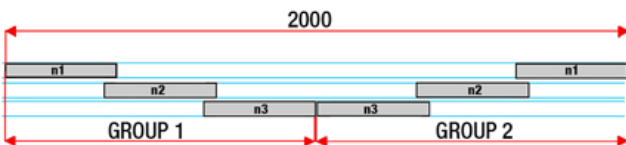
MAKE SIZE, W
n1   n1
n2   n2
n3   n3
GROUP 1   GROUP 2

$$PW = \frac{\left(\frac{\text{Make Size, W}}{\text{\# of Group}}\right)}{\text{\# of Panels in a Group}} + \left[65 - \left(\frac{65}{n}\right)\right]$$

W=Panel Width

H=Panel Height

Min.41mm
Min.50mm

Example of Computation:

2000
n1   n1
n2   n2
n3   n3
GROUP 1   GROUP 2

$$PW = \frac{\left(\frac{2000}{2}\right)}{3} + \left[65 - \left(\frac{65}{3}\right)\right]$$

PW = 1000 mm + (65 - 21.6)

PW = 333.33 + 43.34 = 376.67

w = 376.5 mm

Stile

Crossrail

PANEL HEIGHT, mm
= OPENING HEIGHT
LESS 80 mm MINIMUM

Min.30mm

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Sliding system (Open blades)
SLIDING MOUNT SPECIFICATION

Two panels per slider 2 tracks

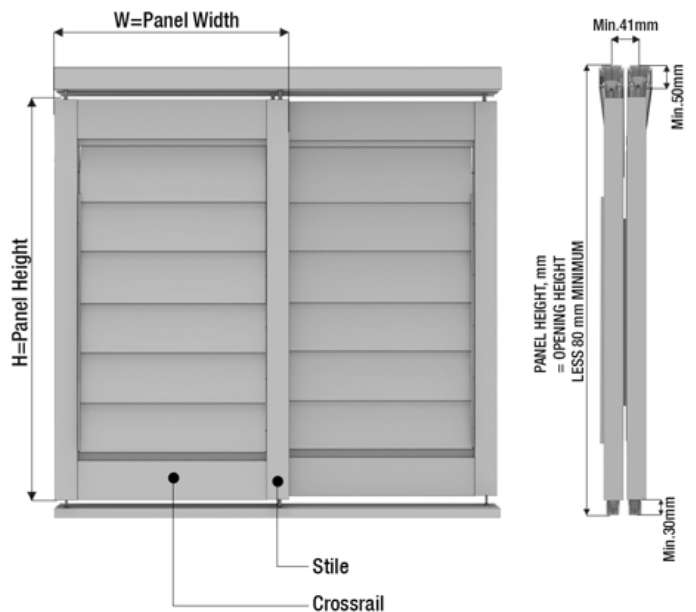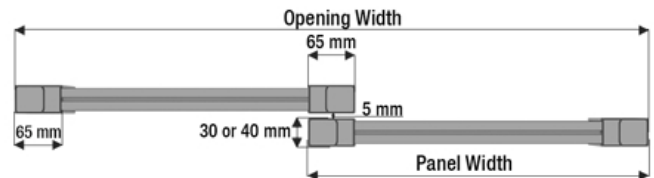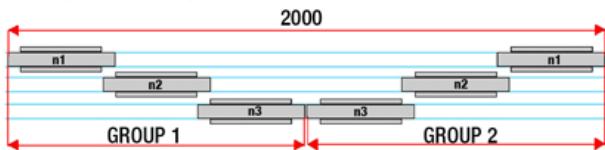Opening Width

W

W

Three panels per slider 3 tracks

Opening Width

W

W

W

Note:
PW = Panel Width   N = # of Panels in a Group   G = # of Groups

Opening Width

65 mm

65 mm

Min. 75 mm

30 or 40 mm

Panel Width

Example:

MAKE SIZE, W

n1   n1

n2   n2

n3   n3

GROUP 1   GROUP 2

$$PW = \frac{\left(\dfrac{\text{Make Size, W}}{\text{\# of Group}}\right)}{\text{\# of Panels in a Group}} + \left[65 - \left(\frac{65}{n}\right)\right]$$

W=Panel Width

Min.75 mm

Min.50mm

H=Panel Height

PANEL HEIGHT (H), mm

Example of Computation:
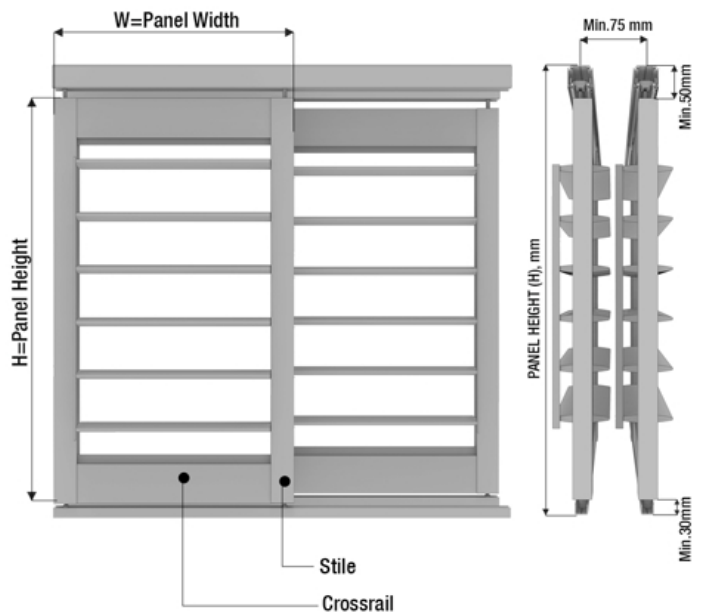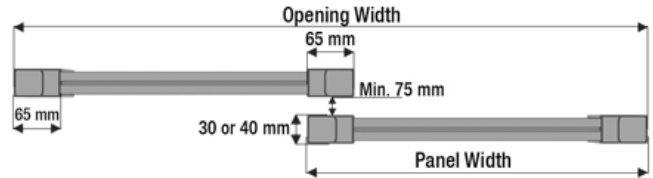
2000

n1   n1

n2   n2

n3   n3

GROUP 1   GROUP 2

$$PW = \frac{\left(\dfrac{2000}{2}\right)}{3} + \left[65 - \left(\frac{65}{3}\right)\right]$$

PW = 1000 mm + (65 - 21.6)

PW = 333.33 + 43.34 = 376.67

w = 376.5 mm

Min.30mm

Stile

Crossrail

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

TOP TRACK
TOP RAIL
TOP ROLLER
LOUVRE BLADES
CONTROL ROD
STILE
MID RAIL
BOTTOM RAIL
BOTTOM ROLLER
BOTTOM TRACK

Sliding System

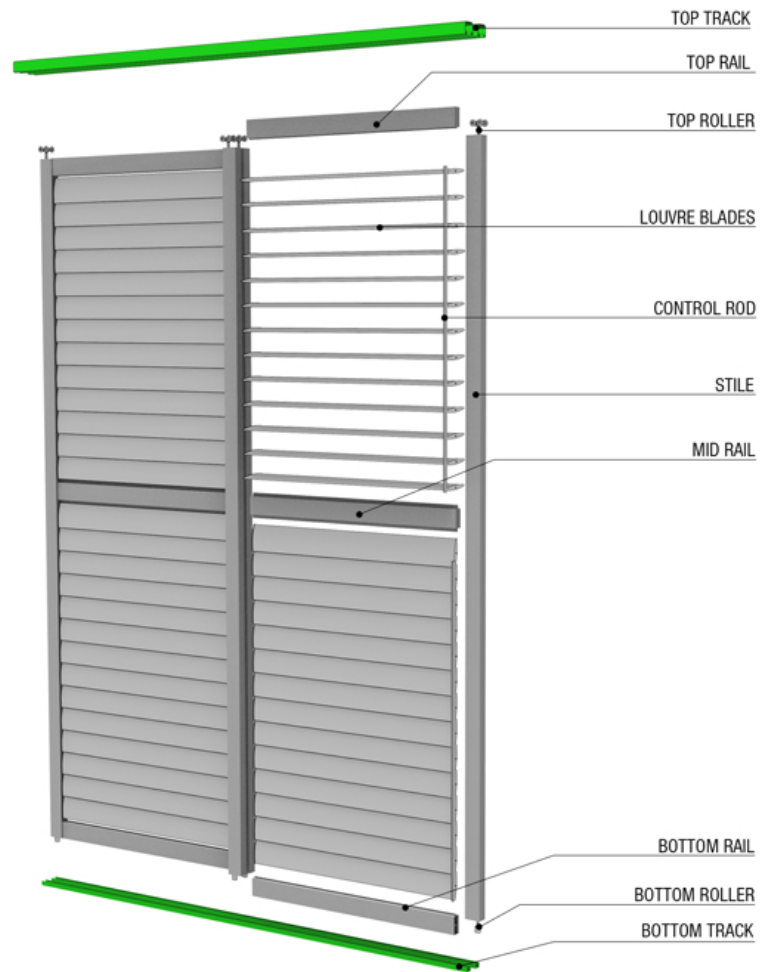Suitable for residential, commercial & industrial.

Choice of aluminium blades:

55mm, 68mm, 90mm, 115mm, Custom made sizes

Aluminium extruded to AS 1866:1997
Aluminium powder coated to AS 3715-2002

Aluminium sections anodised to AS 1231-2000

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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

Fixed panel system

Suitable for residential, commercial & industrial applications. A stylish and practical privacy & sun shading solution for your home, commercial or industrial property.

APPLICATIONS

- Exterior sun shading
- Interior sun shading
- Exterior facade
- Wall partitions
- Window shades
- Privacy
- Veranda shades
- Patio enclosures

SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

Fixed panel system

Side Fixing

Front Fixing

Aluminium Blade Options

55.00
68.00
90.00
115.00
13.5
13.5
13.5
13.5

Top & Bottom U Channel

U Channel 36x25

U Channel 36x50

w= Panel width, mm

36x50 mm Top U Chanel

Top Crossrail

Stile

Bottom Crossrail

Opening Height

36x50 mm Bottom U Channel

Fixed Panels

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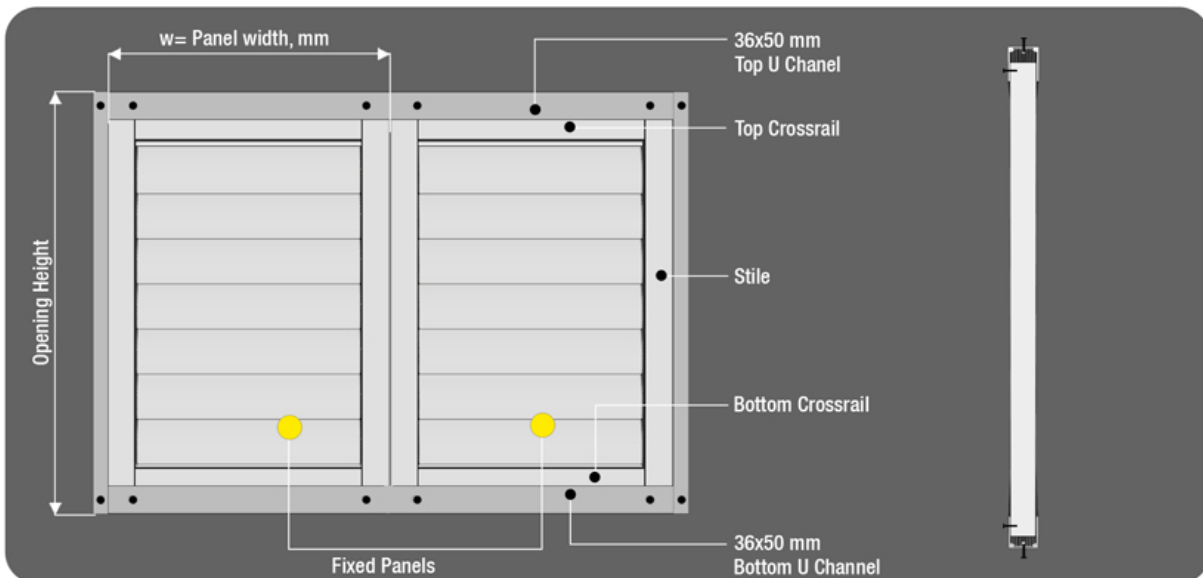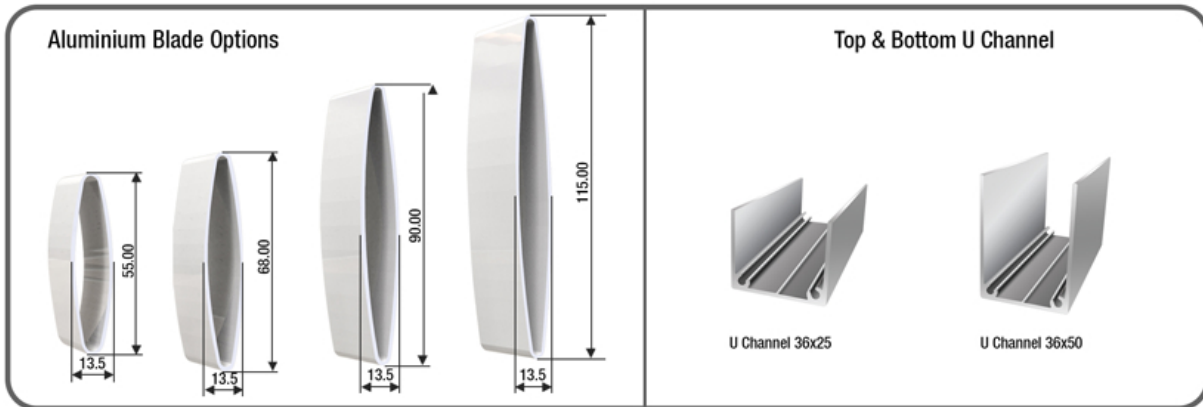
Fixed panel system
FIXED PANEL MOUNT SPECIFICATION

Two Fixed Panels

Opening Width
W
25mm   3mm   25mm

Three Fixed Panels

Opening Width
W
25mm (Clearance)   3mm   3mm   25mm (Clearance)
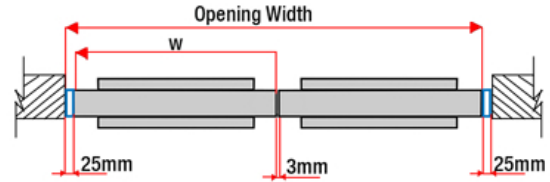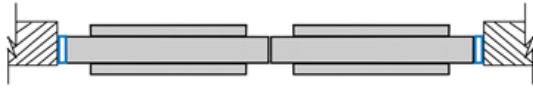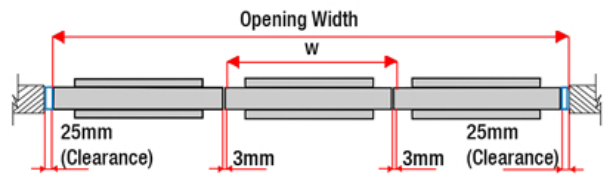
*w, Panel width, mm = $\dfrac{\text{(Opening width less Clearance)}}{\text{No. of Panels Required}}$

Example for 3 Panels:
Open width = 2000mm, left & right = 0mm, Middle Clearance = 3mm

W, Panel width $\dfrac{(2000-3-3)}{3 \text{ Panels}}$ = 664.67mm = 664.5mm wide per Panel

Notes:
1. 0>900mm Wide panel, requires Dual Control Rod
2. 0>15 blades per Panel will require to split Control Rod,
Example:
   normally split into half (7 top 8 botom) unless specified

*h, Panel height, mm
= Opening height less Top Channel height less Bottom Channel height plus Top Channel depth

Example 1: TOP Channel ht = 50mm, BTM Channel ht = 25mm
         Top Channel depth = 40mm, open ht = 1000
         Panel ht = 1000-50-25+40=965mm

Example 2: TOP Channel ht = 50mm, BTM Channel ht = 50mm
         Top Channel depth = 40mm, open ht = 1000
         Panel ht = 1000-50-50+40=940mm

Example 3: TOP Channel ht = 25mm, BTM Channel ht = 25mm
         Top Channel depth = 15mm, open ht = 1000
         Panel ht = 1000-25-25+40=965mm
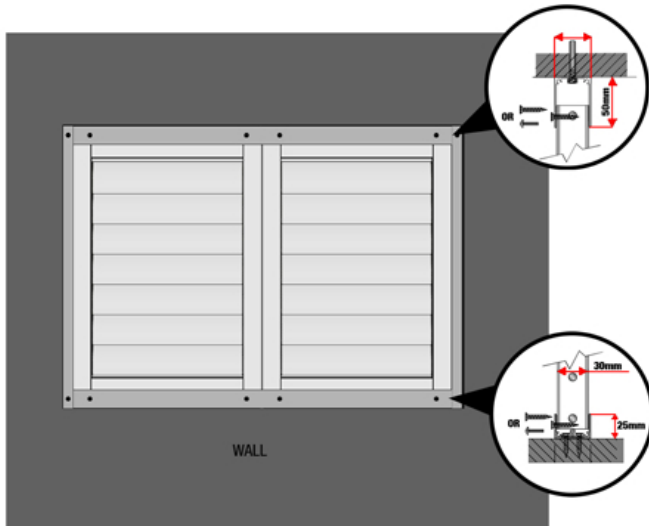
50mm

30mm

25mm

WALL

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TOP U CHANNEL TRACK

TOP RAIL

LOUVRE BLADES

CONTROL ROD

STILE

MID RAIL

BOTTOM RAIL

BOTTOM U CHANNEL TRACK

Fixed panel System

Suitable for residential, commercial & industrial.

Choice of aluminium blades:

55mm, 68mm, 90mm, 115mm, Custom made sizes

Aluminium extruded to AS 1866:1997
Aluminium powder coated to AS 3715-2002

Aluminium sections anodised to AS 1231-2000
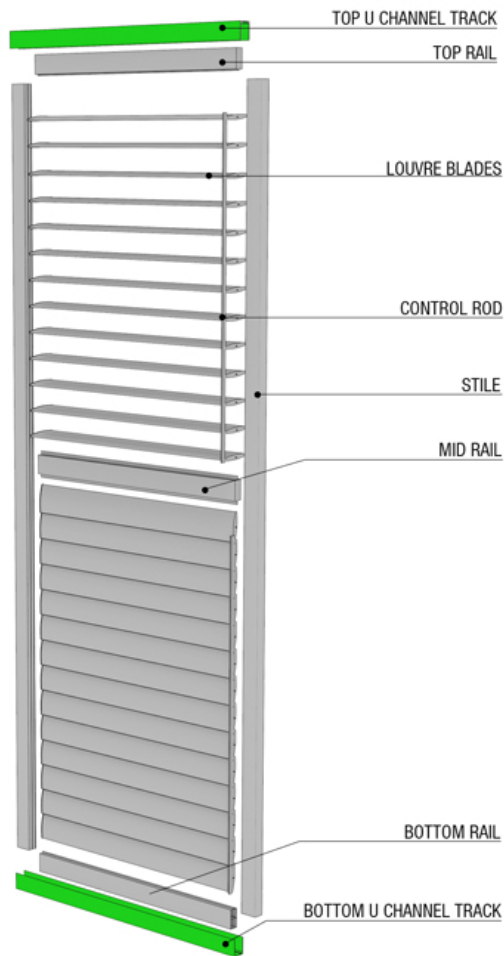
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SUNBLOC
OPERABLE ALUMINIUM SHUTTERS

Why Aluminium?

- CORROSION RESISTANT
- STRONG
- RESILIENT
- NON-COMBUSTIBLE
- LIGHT WEIGHT
- REFLECTIVE
- RECYCLABLE
- VARIOUS FINISHING OPTION

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SUNBLOC TECHNICAL SPECIFICATION

SUNBLOC STILE

STILE SIZE	65 x 30 mm
	60 x 40 mm
STILE FINISHING	POWDER COATING
	NATURAL ANODISING
	WOOD GRAIN

Free Standing Structure

Shutter Span ,m	Low (Max Span,m)		Med (Max Span,m)		High (Max Span,m)		VH (Max Span,m)		EH (Max Span,m)	
	65x30	60x40	65x30	60x40	65x30	60x40	65x30	60x40	65x30	60x40
0.5	2.50	2.85	2.50	2.80	2.00	2.25	1.80	1.95	1.75	1.90
0.6	2.45	2.75	2.40	2.70	1.90	2.15	1.75	1.90	1.65	1.80
0.7	2.35	2.65	2.30	2.60	1.85	2.05	1.90	1.80	1.55	1.70
0.8	2.30	2.60	2.20	2.50	1.80	1.95	1.80	1.75		1.60
0.9	2.20	2.50	2.10	2.40	1.75	1.85	1.75	1.65		
1	2.15	2.45	2.05	2.30	1.65	1.75				
1.1	2.00	2.40	2.00	2.20	1.55	1.70				
1.2	1.95	2.35	1.95	2.15	1.50	1.60				
1.3	1.90	2.30	1.90	2.05	1.45	1.50				
1.4	1.80	2.25	1.85	2.00						
1.5	1.75	2.20	1.80	1.95						

Fixed to Building

Shutter Span ,m	Low (Max Span,m)		Med (Max Span,m)		High (Max Span,m)		VH (Max Span,m)		EH (Max Span,m)	
	65x30	60x40	65x30	60x40	65x30	60x40	65x30	60x40	65x30	60x40
0.5	3.35	3.80	3.05	3.45	2.65	3.00	2.40	2.75	2.30	2.60
0.6	3.20	3.65	2.90	3.30	2.50	2.85	2.30	2.65	2.20	2.50
0.7	3.05	3.50	2.80	3.15	2.40	2.75	2.25	2.55	2.10	2.40
0.8	2.95	3.35	2.70	3.05	2.35	2.65	2.15	2.45	2.05	2.30
0.9	2.85	3.25	2.60	2.95	2.25	2.55	2.10	2.35	2.00	2.20
1	2.80	3.15	2.55	2.90	2.20	2.50	2.00	2.30	1.95	2.10
1.1	2.70	3.10	2.45	2.80	2.15	2.45	1.95	2.20	1.85	2.00
1.2	2.65	3.00	2.40	2.75	2.10	2.35	1.90	2.15	1.95	1.95
1.3	2.60	2.95	2.35	2.65	2.05	2.30	1.85	2.05	1.85	1.85
1.4	2.55	2.90	2.25	2.55	1.95	2.20	1.75	1.95		1.75
1.5	2.45	2.80	2.20	2.50	1.90	2.15	1.65	1.90		1.65

SUNBLOC 55 & 115 mm BLADE
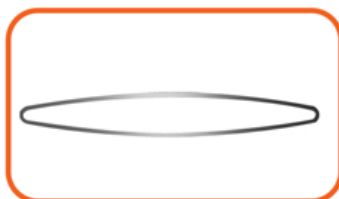
BLADE SIZE	55mm
	115mm
BLADE FINISHING	POWDER COATING
	NATURAL ANODISING
	WOOD GRAIN

Wind zone	Maximum Span, m			
	Free Standing		Fixed to Building	
	55mm	115mm	55mm	115mm
Low	1.78	1.35	2.07	1.85
Med	1.61	1.10	1.90	1.60
Hi	1.39	1.00	1.66	1.30
Very H	1.28	0.85	1.53	1.10
Ext H	1.15	0.80	1.47	1.00

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