Fixed Louvre Series
V50 & V80

Attractive appearance complimenting today’s modern architecture.

Available in a natural look finish or a range of powdercoated colours.

Simple installation method allows mounting overhead, horizontally or vertically.

Durable providing a low maintenance shading solution.

50mm or 80mm size available.

Variable spacing option.
DESCRIPTION
Shade Factor’s Sunshield V50 & V80 is a robust external fixed sun louver SYSTEM comprising of a louver blade, a louver clip and louver support. The system has more versatility than other fixed sun louver systems. The unique louver fixing clips of the V50 & V80 system have proven to be an extremely successful method of attaching louver blades to a support structure for large or small projects. Shade Factor’s Sunshield V50 & V80 has been used for a variety of prestige applications around the world, including North Sea oil rigs where strong winds demand a high performance against failure.

LOUVRE BLADE
There is a choice of two louver blade profiles available in standard lengths up to 6500mm and to 9000mm to order. Continuous lengths over 9000mm are not recommended. An aesthetically pleasant clean line of either Sunshield V50 or V80 louver makes them especially suited to continuous facade applications. By a simple low cost adjustment of the spacing between each louver blade, the sun screening ability is variable to suit almost any application or budget. On larger projects, special louver blade profiles can be supplied at an affordable cost.

LOUVRE SUPPORT
The Shade Factor Sunshield V50 & V80 louver blades have two support system options that allow easy installation in almost any application. Structural 72 x 33 Box Beam for cantilever and prime support. Non-structural support channel for fixing to support structure supplied by others.

LOUVRE CLIP
Louver blade metal fatigue at the support points is eliminated with each louver blade being secured to the support system by a UV stabilised reinforced nylon clip. Further, expansion of long lengths of louver blade is unhindered by this non-rigid fastening system. The ease of assembly of the Shade Factor Sunshield V50 & V80 louver system is in the design of the louver clip. By eliminating welded louver grids or the multitudes of rivets / screw fixings that take valuable time to install, big Installation savings are achieved.

COLOURS
Shade Factor’s Sunshield V50 & V80 is supplied in mill, anodised or powder-coat finish to suit the requirements of each project installation. Close to salt air environments are recommended to be anodised to 25 micron or protected with a high performance powder-coat finish.

APPLICATION
Horizontal, vertical, or any angle to suit the requirements of specific projects. No matter at what angle the louver blade is Installed to a building, the Shade Factor Sunshield V50 & V80 louver system will provide the architect with many design opportunities.

INSTALLATION
Whether Installation is to a new or existing structure, once the channel or beams are in place, only two fastenings per support are required to keep the louver blade in place. Installation is quick and simple. Louver blades are easily kept straight on long facades. For the installer Shade Factor’s Sunshield V50 & V80 is simple to transport, handle & install.
SPECIFICATION
Shade Factor’s Sunshield V50 or V80 extruded aluminium louvre blade locked onto support beam/channel with screwless, UV stablised nylon louvre clips as supplied by Shade Factor Pty Ltd.

SUITABILITY
The Shade Factor Sunshield V50 & V80 sunscreen system is designed for all Australian wind regions. It’s extruded aluminium construction combines the aesthetic continuity and simplicity of Installation of roll formed louvres and the durability of grid assembled louvres.

DESIGN
Shade Factor’s Sunshield V50 & V80 is the louvre system that is adaptable to many support options. Once the support structure method is decided the next step is to determine the

- Type of support (either beam or channel
- Type of louvre blade required (V50 or V80)
- The louvre blade spacing

Once this information is known, the installation details for buildings less than 10 metres above ground level can be derived from the Span Table. For buildings above 10 metres, an engineered design is required.

Where a project involves a significant area of louvres, an engineered design may allow greater spans and therefore less support materials. NOTE: The support Channel is not a structural member and must be attached to a suitable building element for it’s stability.

MATERIALS
Installation of fixed louvres will be different from job to job and special brackets and fastenings to attach the support sections to the building are only supplied as an extra item and must be ordered separately if required from the manufacturer.

The standard components in the louvre system are;

- Louvre blades
- Support channel or beam
- Louvre clip 100mm module (2 sections)
- Spacer 150mm module

Additional Sunshield V50 & V80 components supplied only where quoted separately.

- Front Rail
- Front Rail Clip

All materials are supplied in bulk unless specified as CTM (Cut to measure) on manufacturers quote.

INSTALLATION METHOD
Shade Factor’s Sunshield V50 & V80 are fitted on site to suit each application. Once the louvre support Channel or Beams are in place.

1. Fit a louvre clip (Part A) at each end of the area being installed.
2. Pull a string line along the installation area to align the first clip on the intermediate supports.
3. Once the first clip is in place, place the first louvre blade onto support and slide under the clip.
4. Push the second part of the clip (Part B) into the support and slide over the flange of the louvre blade. (refer Step 3)
5. When in place press the lock pin in to secure.
6. Insert second louvre clip, (refer Steps 4 & 5) and press in the lock pin to secure.
7. Keep installing louvre blades and clips in this manner until the last clip which is then fastened with a stainless steel screw. Step 8.

IMPORTANT - Do not fasten the louvre blade directly to the support section.

MITRE CORNERS
The louvre blade is able to cantilever 300mm off a support, therefore when a mitre corner is required, support sections are required to be installed similar to hip rafters of a roof frame.

Sunshield V50 & V80 system does not include the materials to establish the mitre corners other than Channel or Beam sections. The installer must allow to provide structural sections and brackets etc.
PRODUCT INFORMATION (The manufacturer reserves the right to make upgrades to the product without notice)

<table>
<thead>
<tr>
<th>Part</th>
<th>Mass kg/m</th>
<th>Max Span mm</th>
<th>Description</th>
<th>Coating</th>
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<tbody>
<tr>
<td>V50 louvre blade</td>
<td>0.6</td>
<td>1500</td>
<td>6106 T6</td>
<td>Anodised or powder coated</td>
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<td>V80 louvre blade</td>
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<td>6106 T6</td>
<td>Anodised or powder coated</td>
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<td>6106 T6</td>
<td>Anodised or powder coated</td>
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<td>Anodised or powder coated</td>
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<td>1500</td>
<td>6107 T6</td>
<td>Anodised or powder coated</td>
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<tr>
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<td>UV stabilised nylon</td>
<td>Black or Grey</td>
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<tr>
<td>Spacer</td>
<td>12.6/1000</td>
<td>UV stabilised nylon</td>
<td>Black or Grey</td>
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</table>

Louver Span & Support Data

Wind Loading Table

Table Shows Louvre Slat with Box Beam Support
As per AS1170 Pt2 1989

<table>
<thead>
<tr>
<th>Wind Region</th>
<th>Category</th>
<th>Height above Ground</th>
<th>Louvre Span (mm)</th>
<th>Support Beam Cantilever (mm)</th>
<th>Support Channel Fixing Centres (mm)</th>
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<tr>
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<td>1000</td>
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STANDARD COMPONENTS
1. SUPPORT BEAM OR CHANNEL
2. LOUVRE BLADE
3. LOUVRE CLIP PART (A)
4. LOUVRE CLIP PART(B)
5. LOCK PIN

INSTALLATION

Step 1 Fix support beam or channel at the specified centres

Step 2 Fit the first clip section to the support and secure with a stainless steel screw

Step 3 Insert louvre blade. Push clip into support and slide over flange of louvre blade.

Step 4 When clip has secured louvre blade push lock pin in.

Step 5 Push next clip into support and push lock pin in.

Step 6 Insert next louvre blade and repeat the clip installation.

Step 7 Push next louvre clip pair into the support then push lock pin in.

Step 8 Insert all the louvre blades and clip and secure the last clip with a stainless steel screw.

Louvre blade can be installed above or below the support beam or channel.
Shade Factor Cantilever System

Maximum Sizes
Panel Area = 4 m²
Panel Width = 3600mm
Panel Projection = 120mm without hanger bar
Panel Projection = 1800mm with hanger bar

Materials
Louvre, Arm, Front Rail, End Cap, Rear Channel, Hanger Bar and Top Bracket all in aluminium.
Support Bracket in Galvanised Steel
All fasteners stainless steel