



SUNMASTER

KEEP THE VIEW AND BLOCK OUT THE SUN

ROLLSCREEN TECHNICAL DATA SHEET

The Sunmaster EXTERNAL ROLLSCREEN is a pre-assembled blind with a transparent fibreglass cover that can be used for both domestic and commercial buildings. It is available in 3 different versions, screen 67mm 85mm and 97mm (refer to drawings on page 3).

1. SUNMASTER Rollscreens reject up to 93% of solar heat resulting in considerable savings on the cost of electricity required to run air-conditioning, bearing in mind that the cost of electricity will rapidly rise in the future.
2. SUNMASTER Rollscreens are completely retractable. On cloudy and winter days there is a 100% benefit of available natural daylight. In winter the then desired solar radiation can be utilised to reduce the cost of heating.
3. The SUNMASTER Rollscreen is environmentally friendly because its performance is based on a diffuse reflection and an exterior absorption of heat (to be ventilated to the outside only). Our Rollscreens blend in perfectly with any design due to the large colour range of both fabrics and powdercoat colours and the blind is unobtrusive in the retracted position.
4. SUNMASTER Rollscreens are manufactured to endure all types of weather and atmospheric conditions. Tested by C>S.I.R. in South Africa, ratings on UV colour fastness and practical life are extremely high. A product life of over 18 years has already been proved in Europe. Because of its sheltered retracted position at the outside it is well protected against mechanical damages.
5. SUNMASTER Rollscreens are made of a woven glassfibre fabric (Serge) so that only natural, diffuse daylight can enter and no discolouring will take place. Serge is also used in our FABRIC TENSION SYSTEMS (for glass roofs) and in our DROPARM systems and CASSETTE FOLDING ARM AWNINGS as an alternative to our acrylics, when rain protection is not required.
6. SUNMASTER Rollscreens not only protect the glazed areas, but as an EXTRA it also protects the entire exposed window framing, thus preventing a considerable transmittance of heat through window mullions.

The Rollscreen is assembled from the following components :

- Headbox with endplates.
- Fluted roller supported by sealed steel bearings.
- Fluted bottom rail, weighted on the inside and finished off with plastic sliding end plugs.
- U-shaped tracks, which guide the bottom rail, fitted as standard or with a lip, which to a great extent covers the gap between cover and track (refer to drawings).

All models can be operated using various different systems :

MOTORISED operation : tubular motor fitted inside the fluted roller.

This system can be operated as follows:

- By hardwired switch
- By remote control
- By Sun & Wind or rain sensors (to operate individually or in group mode).

EXTERNAL WINDING HANDLE : Worm gear fitted to fluted roller, ratio 1:3 on screen 67 and 1:4 on screens 85 and 97, operation by a hooked winding handle.

INTERNAL WINDING HANDLE : Worm gear fitted to fluted roller, ratio as for external, operation by an aluminium winding handle that can be straightened for stowage, includes 90 degree universal joint.



www.sunmaster.com.au

Sunmaster Australia Unit 5/51 Chard Rd, Brookvale, NSW. 2100

Ph: 02 9905 3300 Fx: 02 9905 5827





SUNMASTER

KEEP THE VIEW AND BLOCK OUT THE SUN

ROLLSCREEN TECHNICAL DATA SHEET

MATERIAL QUALITY

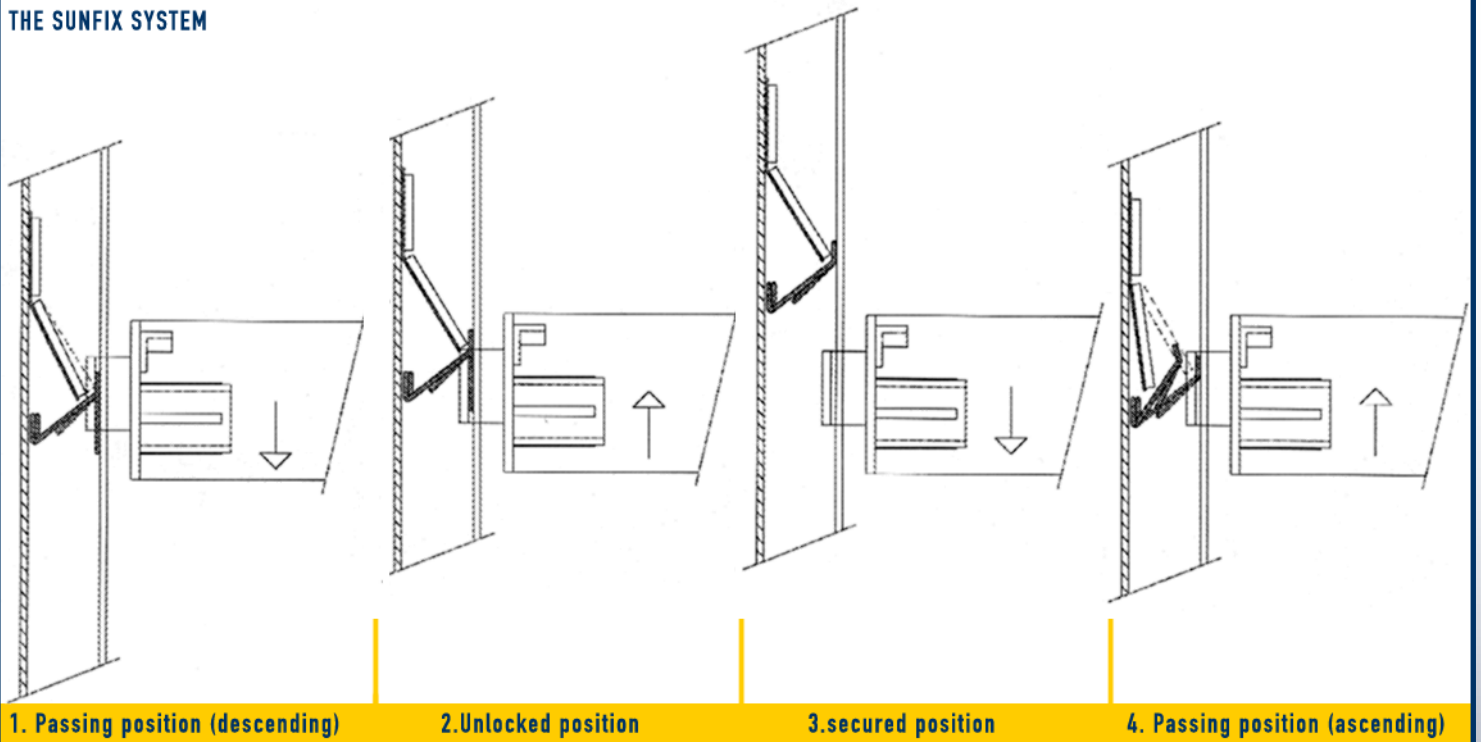
The headbox, the bottom rail, tracks, fixing brackets/angles are made of an extruded aluminium alloy AlMgSi0.5-F22 which is powder coated in 60 microns following pre-chromemate treatment. Available in a huge range of colours to co-ordinate with our fabrics. The endplates are cast aluminium - 230D. The fluted roller is made of Sendzimir galvanised steel. All plastic components are re-enforced with fibreglass. Fasteners are all stainless steel AISi304

UNIQUE SUNFIX SYSTEM

For an additional cost it is possible to have the track fitted with a patented windproof system (see drawing). This system does not require additional fitting and has a number of important advantages :

- The fabric cannot be raised by the wind.
- Rattling of the bottom rail in the track is eliminated.
- The fabric surface is always taut.
- Being more wind resistant ensures greater longevity of the product.
- Can be used on both manual and motorised systems.

THE SUNFIX SYSTEM



Mesh fabrics used in our systems are Serge or Sunworker. Serge is a European made woven fiberglass fabric from Belgium-see www.helioscreen.com for a full range of colours and further info. Sunworker is a Polyester mesh fabric (see associated fact sheet). Both fabrics are perfect for a wide range of applications and carry a 5 year warranty. Top, bottom and side seams are ultrasonically welded to ensure a smooth, flat finish. More details of both fabrics can be found below.

SERGE

Used in the manufacture of our EXTERNAL Shading Systems is a transparently woven material made of fibreglass impregnated with PVC, (polyvinylchloride), woven, finished, heat set



www.sunmaster.com.au

Sunmaster Australia Unit 5/51 Chard Rd, Brookvale, NSW. 2100
Ph: 02 9905 3300 Fx: 02 9905 5827





SUNMASTER

KEEP THE VIEW AND BLOCK OUT THE SUN

ROLLSCREEN TECHNICAL DATA SHEET

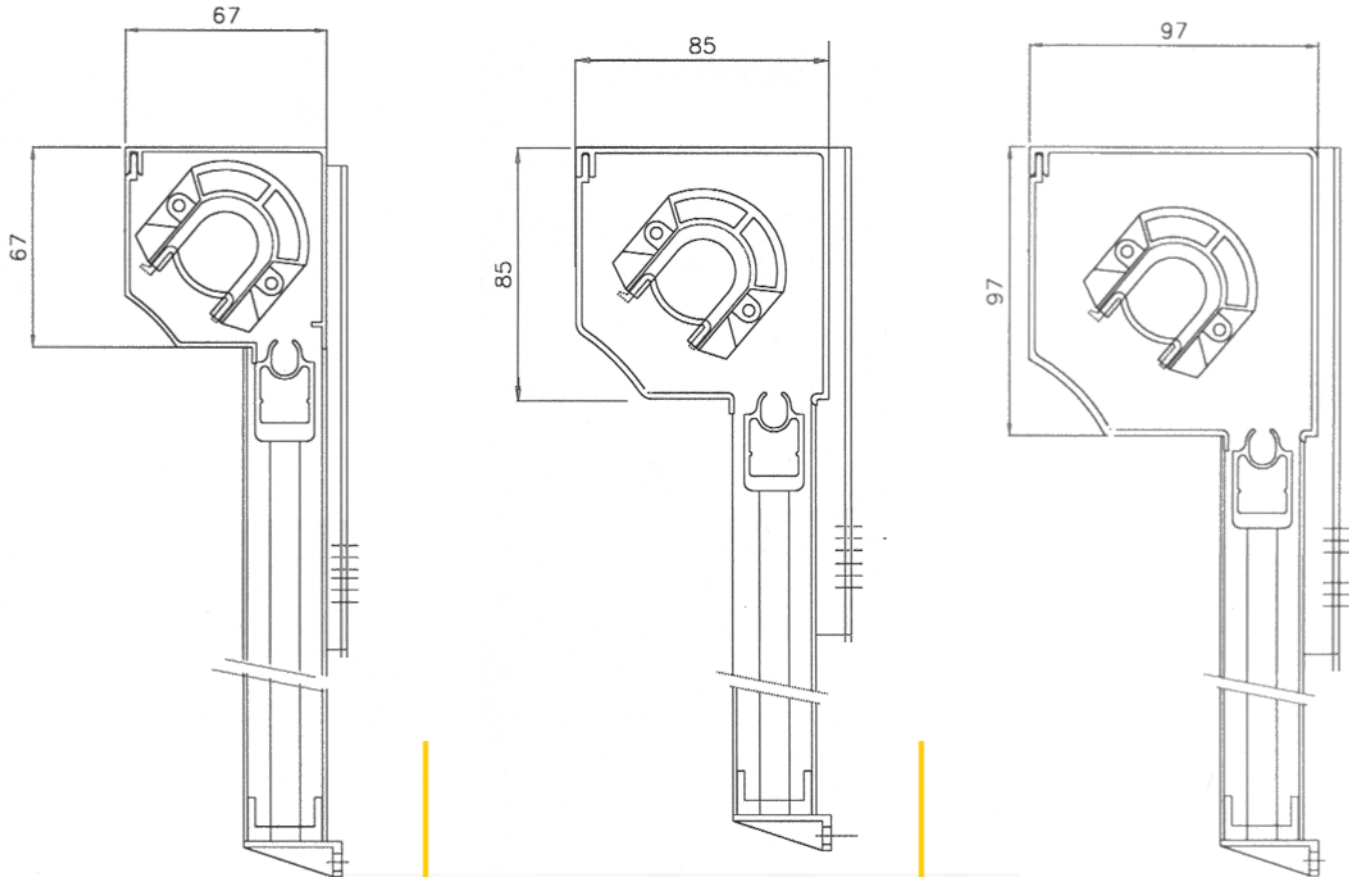
and ultrasonically welded. Known as Serge, this fabric is available in 36 colours. The weight is 525 grammes/M2 and comes in a width of max. 2500mm. In the case of screens with a greater width and drop the material is welded together horizontally. Imported from our sister company in the Netherlands, Serge is flame resistant and carries a fire rating of M1 (see T.N.O. Test Report).

Alternatively we carry a broad range of both plain and striped heavy duty acrylic (canvas) materials which can be used in our systems to create a "blockout" effect

ROLLSCREEN HEADBOXES

Our rollscreen headboxes come in three different sizes 67mm, 85mm and 97mm. The width and drop of your Rollscreen will determine headbox size. See the section drawings below.

SUNMASTER ROLLSCREEN HEADBOX SECTIONS

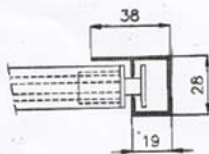


67mm

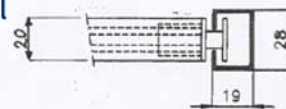
85mm

97mm

Weighted bottomrail
inserted in 38mm
wide track



Weighted bottomrail
inserted in 19mm
wide track



www.sunmaster.com.au

Sunmaster Australia Unit 5/51 Chard Rd, Brookvale, NSW. 2100
Ph: 02 9905 3300 Fx: 02 9905 5827

