SUNMASTER
KEEP THE VIEW AND BLOCK OUT THE SUN

FABRIC TENSION SYSTEM (FTS) TECHNICAL DATA SHEET

Also known as Fabric Tension Systems these shading systems are invaluable for covering large glass roofs and pergolas; great for commercial use [café's restaurants, clubs etc.]

Generally they come in 2 varieties, single and twin motor + controller. The single system FTS [Summerlite] has one large headbox which encases the 80mm steel fabric tube, spring, straphooks and motor. Strap tensioners run through the tracks meaning that when the system is in the closed position only the headbox, tracks and pullbar is noticeable. Maximum dimensions are 6 x 3m or 5 x 4m in a single screen but can be coupled to cover larger areas and can also be pitched.

The dual motor system [Sunmaster FTS] consists of 2 smaller headboxes opposite each other. One box contains the fabric and motor [fabric box] and the other contains the stainless steel strap system [strap box]. These 2 units are riveted together with aluminium angles to make up the frame. A maximum of 3 units can be coupled together creating a width of approx. 7m. The dual system FTS can be pitched or installed upside down depending on individual requirements.

Dual systems are used mainly in domestic applications for covering skylights and glass roofs and are easier to install in difficult situations. All materials used in these systems are powdercoated aluminium, galvanised steel, nylon, plastics and stainless steel parts and fasteners.

Sunmaster also manufactures a manual FTS system for installation under pergolas where there is good access. The manual FTS can be fitted with or without the headbox or tracks and is tailored to suit a variety of application

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 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.

Transparent fabrics of glass fibres impregnated with polyvinylchloride.

- Thickness: 70/100 – 75/100mm.
- Weight: 510 grams per square metre.
- Breaking point of test sample (50mm wide):
  Warp: 185 kgf min.
  Weft: 125 kgf 5-7%
- Elongation at breaking point:
  Warp 4-6%,
  Weft 5-7%
- Stability of dimensions:
  Test : 7 days in ventilated dry heat at 70 degrees c.

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16 days submerged in water at 40 degrees c.
Result : Variation in dimensions no more than 0.2%.

YARN

- Weight composition approx. 27% glass fibre and 73% Polyvinylchloride.
- Titre is approx. 128 tex (7800 LM = 1 kilogram)
- Diameter is approx. 0.34 mm.
- Breaking point (per thread) is approx. 2.55 kgf

FIRE RESISTANCE

- Fabric is non-combustible and self extinguishing.

ROT and CHEMICAL resistance

- Rot test : Carried out in accordance with standard AFNOR NF-41-600, Comprising the method of mixed seeding.

Result : Classification "0" = absolutely NON-rottable.

WATER RESISTANCE

- Test: Carried out as per standard SNV 95-819

Result: Classification "5" = maximum resistance.

- Resistance to moisture, moulds, mildew and fungi attack.
- Resistant to known chemical substances present in a polluted atmosphere, (Sulphates, Nitrates) and normal cleansing detergents.

COLOUR FADING

- General : Full resistance to fading and deterioration due to the addition of polyvinyl stabilizers combined with UV absorbatives.

THERMAL RESISTANCE & PERFORMANCE

- Resistant to extreme low temperatures (breaking point of the polyvinyl component is lower than minus 35 degrees c.)
- Resistant to high temperatures (a continuous temperature of 50 degrees c. has no effect on the stability of the texture).
- The fabric has a special treatment to reflect approx. 25-30% of the solar heat and absorb approx. 65-70%.
- Total heat reduction up to 93% (Serge).

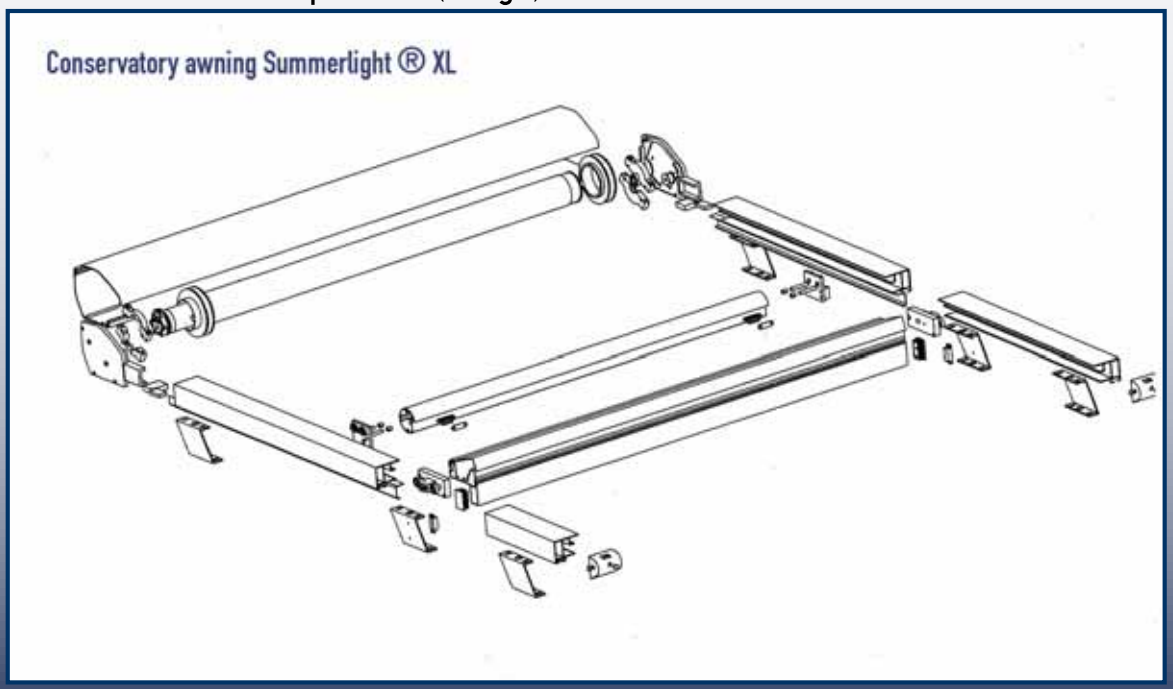

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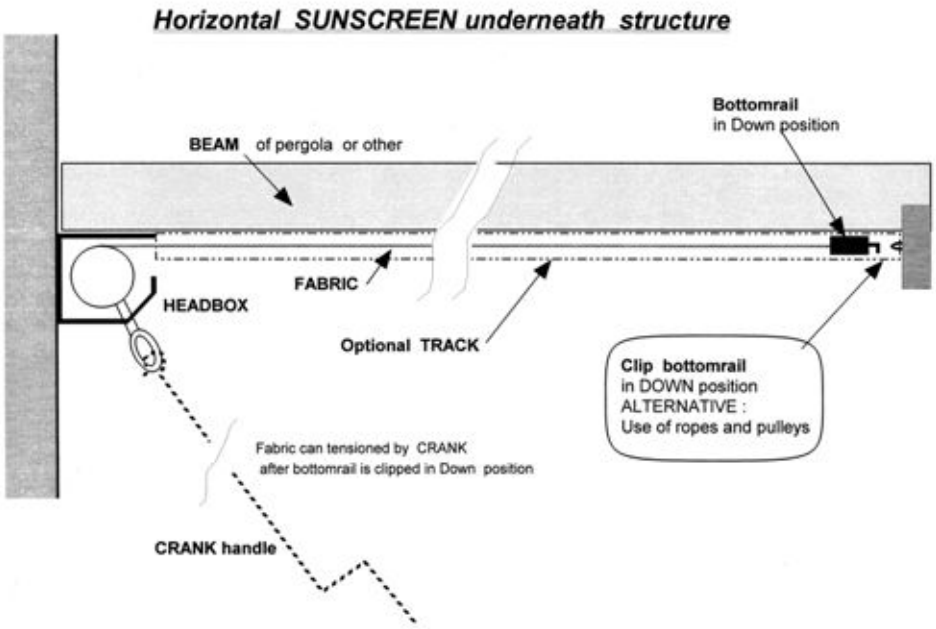
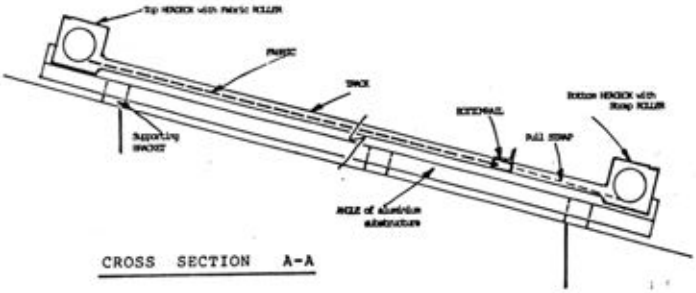
Image showing FTS system with manual operation





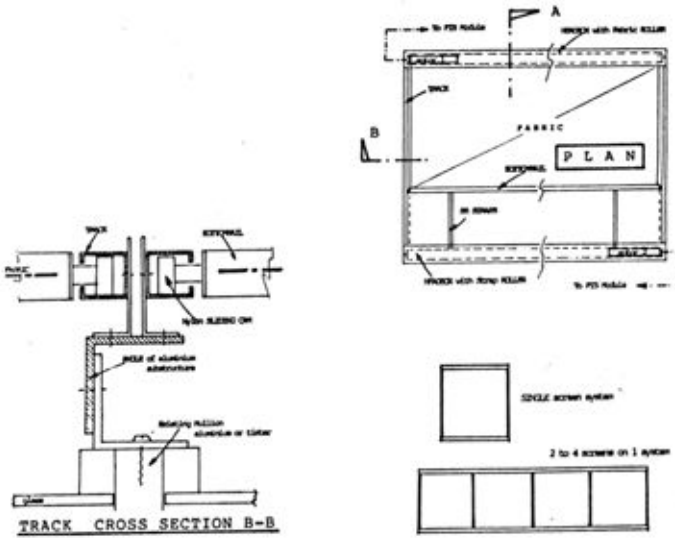


Image showing FTS system with dual motor drive.

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