Specification for FIXSCREEN® 85

DESCRIPTION

The external sun screen consists of a fabric roller blind that keeps out direct sunlight while partly maintaining the view.

The sun protection is placed in front of a rear, closed (e.g. glass) structure.

A symmetrical zip (with yellow teeth) is welded onto the fabric, which runs in the side channels via a guide system.

This ensures that the screen is wind resistant in any position and keeps out insects when closed.

INSTALLATION

"This system can be fitted in several ways:

- in front of the window frame outside or inside" on the wall (surface-mounted: installation method 1 & 6)

- reversed on top of the window, with box (exposed: installation method 4)

- on top of the window, without box, with mounting brackets (concealed: installation method 5)"

The sun protection is placed in front of a rear, closed structure, such as glass.

DIMENSIONS

For surface-mounted systems wider than 4.00 m, additional mounting brackets are provided, which are secured using screws at the top or rear. For concealed systems wider than 4.00 m, the mounting brackets are provided with holes for additional securing.

BOX

The box is 85 mm wide and 85 mm high.

The rear profile is sealed with a removable front profile that hinges in the box profile. The hinge is not visible.

Both profiles are made of extruded aluminium.

The sides of the box are fitted with plastic end covers, which support the roller mechanism and are fitted with pins to slide the box into the side channels.

FABRIC ROLLER

The roller barrel with fabric groove is made of ø63 mm galvanised steel with a wall thickness of ±1.0 mm.

The fabric roller barrel has a recessed fabric groove to limit compression of the fabric strap.

The end pieces are conical to compensate for the thicker ends of the zip.

The roller barrel can always be removed after removal of the front profile.

FABRIC

"Glass fibre fabric, semi-transparent

This type of fabric cannot be distorted and is resistant to heat and humidity (fire class M1).

The vertical borders have a symmetrical zip. Top and bottom are high-frequency welded."

"Polyester (with Pré-tensioned - method)

This type of fabric consists of a fine mesh with a fire-resistant PVC coating applied using the pre-tensioned method. (fire class M1/M2, depending on the colour).

The vertical borders have a symmetrical zip. Top and bottom are high-frequency welded."

All screens are made from one piece of fabric unless the height is > the width of the fabric roller. A welded horizontal seam is then needed.

Weight glass fibre fabric, semi-transparent : ± 535 g/m², thickness 0.55 mm.

Weight polyester fabric (with Pré-tensioned - method) : ±380 to 420 g/m², thickness 0.43 to 0.45 mm.

A glass fibre blackout fabric can also be used, but only for inside applications.

A glass fibre blackout fabric can be used for inside applications.

Weight polyester blackout fabric (with Pré-tensioned - method) : ±650 g/m², thickness ±0,60 mm.

SIDE CHANNELS

The side channels (34mm Wx48mm D) are made of extruded aluminium. The external side channel consists of 2 parts. They are screwed directly on the frame. The screws are not visible from the front.

There is an H-PVC side channel integrated into each side channel/side beam± the side channel has neoprene buffer zones (60 mm long) to withstand the wind gusts. The zip, which is welded to the fabric, is slid onto those H-PVC side channels and the fabric is ‘held fast’ in that way. When installed correctly, there is sufficient clearance between the screen and the aluminium side beams/side channels and the H-PVC side guides to ensure smooth operation.

BOTTOM RAIL

The bottom rail (34.5 mm H x 25.5 mm D) is made of extruded aluminium and is weighted with galvanised steel rods (W <= 1.2 m: ■18 mm, 2.54 kg/rm< W > 1.2 m: ø18 mm, 1.96 kg/rm).

The weight is covered with PE foam to prevent contact between aluminium and steel.

This bottom rail is provided with plastic end pieces.

A plastic sealing strip is provided to seal off the sill.

GUIDE SYSTEM

This system guides the bottom rail and secures the box by means of pins in the end covers that fit into the hollow chambers of the side channels.

The side channels, along with the (weight) of the bottom rail, provide the ideal guide for the fabric when the vertical sun protection moves up and down.

COLOUR

All visible aluminium profiles (box, side channels and bottom rail) are anodised (20micron) or powder-coated in the same RAL colour (60-80micron) as the external joinery.

ASSEMBLY

All items are secured using stainless steel screws.

WIND CLASS

"This screen meets European standard EN13561 (compliant to wind resistance class 3)\*.

Guaranteed up to 80 km/h when closed.

\* Wind tunnel test report by the Von Karman Institute (no. EAR0410)

\* Durability test result by the WTCB (Belgian Building Research Institute) (nr. 651 XE823 CAR4139)"

STANDARDS AND CERTIFICATES

This product is manufactured according to, complies with and/or has been tested according to:

EN 13561

OPERATION

Manual: using a crank mechanism with separate end stop integrated in the winding shaft, driven by a ø13 mm anodised aluminium crank rod with universal joint movement. A fixed or removable crank can be chosen for manual operation.

"Electrical: using a 230 VAC tubular motor, without manual override.

The connection is included in the sun protection set.

The power supply and all wiring are included in the electrical set."

POWER SUPPLY AND WIRING

The power supplies up to the relay boxes are included in the electrical set in accordance with the wiring diagram provided by the supplier. Wiring is provided from the relay boxes to each motor, including control switches and automatic actuators with measuring devices. The electrician will also fit a junction box to each motor for later connection of the motor cable by the sun screen installer. If sufficiently long, the motor cable can be connected directly without a junction box.