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| **FIXSCREEN® 100EVO surface mounted in front (IM1 & IM6)** |
| Renson Sunprotection-Screens, Industrial zone 1 Flanders Field, Kalkhoevestraat 45, 8790 Waregem – Belgium |
| Tel. +32 (0)56 62 65 00, Fax. +32 (0)56 62 65 09, info@renson.be www.renson.eu |
| 2016-09-01 Ssulm/Osmed |
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| **Product features** |
| (text marked in red can be deleted depending on your choice) |
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| **Installation** |
| The box is installed in front of the window frame -> Surface mounted box. |
| -> The finishing of the screen at the frontal side needs to be a removable profile |
| Due to the 'Connect&Go-technology', it's possible to install the box and the side channels in advance and to secure them afterwards. |
| The electrical connection is made when installing the fabric roller (fabric roller + fabric). |
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| **Box** |
| Dimensions: 100 mm high and 100 mm deep |
| Box design: Softline (round shape) or Square (rectangular) |
| The box consists of a fixed profile and a removable profile. |
| Profiles are made of extruded aluminium. |
| The side supporting endpieces of the box, which support the roller mechanism and are equipped with pins, connect the box to the side channels. |
| A side supporting endpiece is equipped with the female part of the electronic plug (Connect&Go-technology). |
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| **Fabric roller** |
| Made of galvanised steel. |
| Recessed fabric slot limits compression of the fabric strap. |
| A patented conical endcap, the motor slide and the electrical motor connector are installed on the motor side. |
| A patented conical endcap and a bearing slide are installed on the bearing side. |
| The patented conical endcaps compensate for the larger ends of the zippers. |
| The electrical connector (Connect&Go technology) allows for easy installation and removal of the fabric roller in the box. |
| The fabric roller can be removed from the side with the removable profile, which will define the position of the motor on the left or right hand side. |
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| **Fabric** |
| All screens are a single piece of fabric, except when the height is greater than the width of the fabric roller. |
| The fabric is manufactured horizontally. |
| The vertical borders are equipped with a zipper, making the fabric is windproof in the side channel. |
| The zipper is high-frequency welded, always on the least visible side. |
| ● Glass fibre fabric (semi-transparent): |
| (Fire classification M1) |
| - Weight: ± 520-620 g/m², thickness: 0.53-0.80 mm |
| ● Polyester fabric (semi-transparent): |
| (Fire classification M1) |
| - Weight: ± 380-420 g/m², thickness: 0.43-0.45 mm |
| - Polyester fabric can show wrinkles or folds |
| ● Polyester blackout fabric: |
| (Fire classification M2) |
| - Weight: ± 650 g/m², thickness: 0.60 mm |
| - Polyester fabric can show wrinkles or folds |
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| **Dimensions** |
| Semi-transparent fabric: |
| - Max. width 4,000 mm and max. height 2,700 mm or max. width 3,000 mm and max. height 3,500 mm in 1 part (max. 10.8 m²) |
| - Coupling (2 parts with 1 motor): max. width 6,000 mm (each part max. 4,000 mm) and max. height 2,700 mm (max. 16.2 m²) |
| - Coupling (2 parts with 2 motors): max. width 6,000 mm (each part max. 4,000 mm) and max. height 2,700 mm or (each part max. 3,000 mm) and max. height 3,500 mm |
| Blackout fabric: |
| - Min. width 1,000 mm; max. width 2,000 mm and max. height 2,700 mm in 1 part (max. 5.4 m²) |
| - Coupling (2 parts): each part meet the conditions of 1 part |
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| **Side channels** |
| Are made of 2 or 3 extruded aluminum profiles. |
| Dimensions: |
| - Open side channel in two parts (standard): 35 mm W x 48 mm deep. Cable can be concealed in side channels |
| - Closed side channel in two parts: 35 mm W x 48 mm deep |
| The side channels (open & closed) are pre-drilled (first chamber). |
| - Coupling side channel in three parts: 58 mm W x 48 mm deep |
| Equipped with a nose section that allows the basic width of the profile to be kept to a minimum. |
| They are screwfixed directly onto the window frame / structure. No screws are visible at the side of the façade. |
| Along with the weighted bottom bar, provides the ideal guide when the fabric moves up and down. |
| The box is fixed on the side channels by means of pins in the side supporting endpieces that slide into the hollow chambers. |
| Each side channel has an integrated HPVC inner rail with a co-extruded, wear-resistant top coating (Smooth technology). |
| The HPVC inner rail is equipped with Neoprene buffer zones (60 mm long) to compensate for heavy wind loads. |
| The zip, which is welded to the fabric, is threaded through this HPVC inner rail, which holds the fabric in place. |
| When installed correctly, there is sufficient tolerance between the fabric, aluminium side channels and the HPVC inner rail to guarantee ease of use. |
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| **Weighted bottom bar** |
| Is made of 1 extruded aluminum profile and is weighted with galvanized steel bars. |
| In case of a round shaped box (Softline): |
| - Dimensions and weight of the bottom bar: 45 mm H x 26 mm thick (excl. sealing strip) = 0.60 kg/lm |
| - Dimensions and weight of the steel bar: Ø 22 mm = 3 kg/rm if width ≤ 2,000 mm |
| - Dimensions and weight of the steel bar: Ø 18 mm = 2 kg/rm if width > 2,000 mm |
| In case of a rectangular box (Square): |
| - The welding seam is hidden in the bottom bar |
| - Dimensions and weight of the bottom bar: 50 mm H x 30 mm thick (excl. sealing strip) = 0.90 kg/rm |
| - Dimensions and weight of the steel bar: 25 mm H x 15 mm thick = 3 kg/rm |
| The bar is covered with PE foam to prevent contact between the aluminium and steel. |
| Is equipped with plastic endpieces. Available in four colours: black, white, grey and cream |
| Is equipped with a plastic sealing strip to seal off the sill. Available in 2 colours: black and grey |
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| **Guide system** |
| **Smooth technology** |
| Guides the bottom bar and the fabric. |
| Thanks to the patented Smooth technology, the movement of the zipper in the HPVC inner rail is smooth and silent. |
| This intelligent HPVC inner rail is equipped with a patented, wear-resistant layer. |
| - guarantees a taut fabric with fewer wrinkles |
| - does not need yearly maintenance with a lubricant |
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| **Colour** |
| All visible aluminium profiles (box, side channels and bottom bar) are powder-coated in the same RAL colour (60-80 µm) or anodised (20 µm), as is the external joinery. |
| The side supporting endpieces are cast aluminium and are painted in the same colour as the profiles. |
| The side supporting endpieces of anodised profiles (box, side channels and bottom bar) are painted in MAT9006. |
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| **Control** |
| Is available with manual control through the use of an eye-winding system, with an independant end restrictor, driven by a rotating bar in anodized aluminium equipped with a fixed or a removable crank. |
| Electrical: using a 230 VAC tubular motor, without manual emergency override |
| The connection is included in the sun protection set. |
| Includes a cable equipped with a UV-resistant jacket. |
| The power supply and all wiring are included in the electrical set. |
| ● Detecto® Rensonmotor Safety First |
| - Electronic motor |
| - Safe and durable system by means of obstacle detection |
| - Safe and easy to install thanks to automatic end point recognition |
| - End points are automatically reinstalled to ensure perfect fabric tension |
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| **Connect&Go technology** |
| The male part is located on the motor slide; the female part of the electrical connector is in the corresponding side supporting endpiece. Both parts are screwed shut each time. |
| When the fabric roller is installed in the box, the sliders move in the straight guide profile of both side supporting endpieces. |
| This allows the male pin part to slide perfectly into the female pin part. |
| Quick, easy installation is possible due to this patented electrical connector. |
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| **U-Safe** |
| Integrated and easy accessible switch which allows you to perform any necessary maintenance in a safe and controlled way. |
| When activating the U-Safe, the power is off current. |
| Radio frequency controlled motors that are aligned sequentially can be programmed one by one by supplying tension to 1 motor while disabling the others. |
| The fabric roller can easily be uninstalled, with the current off. |
| Is installed on the Connect&Go connector. |
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| **Warranty** |
| 10-year warranty on all coatings on the aluminium elements. |
| 7-year warranty on the Fixscreen-technology. |
| - zip remains in side channel |
| - optimal adhesion of zip to fabric |
| 5-year warranty on all defects arising from normal home use and regular maintenance. |
| 5-year warranty on gloss (coatings). |
| 5-year warranty on the electronic operating system (Somfy® motorisation & automation). |
| 5-year warranty on the fabric collection. |
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| **Wind class** |
| This screen meets European standard EN13561. |
| Guaranteed up to 130 km/h when closed. |
| - EN 13561:2004+A1:2008 in accordance with wind resistance class 3 |
| - NBN EN 13561:2015, in accordance with wind resistance class 6. The norm hasn’t been published yet on a European level. The results are subject to changes. |
| - Wind tunnel test report 'Force Technology' institute (N° 113-25809): wind resistance guaranteed up to 127 km/h when closed (tested for a screen of 3,000 mm x 3,000 mm) |
| - The wind resistance depends on the screen dimensions (W x H) and is available on request |
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| **Standards and certificates** |
| This product is manufactured in accordance with and/or has been tested according to: EN 13561 |
| EU declaration of conformity - In accordance with the following directives: |
| - Machinery Directive 2006/42/EC |
| - Low Voltage Directive 2014/35/EU |
| - EMC Directive 2014/30/EU |
| References and certificates: |
| - RAP VV/GDB-20100927-1 certificate |
| - RAP DO/GDB-20110318-1 certificate |
| - RAP DO/GDB-20110321-1 certificate |
| - RAP MCO20140514-1 certificate |
| - Issued by J. VAN HEMELEN, Kortrijk, Belgium |
| - Declaration of performance DOP-2015SC00002 |