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| **FIXSCREEN® 150EVO (F) surface mounted in front (IM1 & IM6)** |
| Renson Sunprotection-Screens, Industrial zone 1 Flanders Field, Kalkhoevestraat 45, 8790 Waregem – Belgium |
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| 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 |
|  -> Standard or 'Freestanding' F without underlaying windowframe |
| 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: 150 mm high x 155 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 |
|  + Crystal window Integratable if 'Freestanding' F |
| ● 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 6,000 mm and max. height 3,600 mm or max. width 3,200 mm and max. height 6,000 mm in 1 part (max. 22 m²) |
|  - Max. height 2,800 mm if 'Freestanding' F (max. 16.2 m²) |
|  - Coupling (2 parts with 1 or 2 motors): max. width 6,000 mm (each part max. 5,000 mm) |
|  - Coupling (2 parts): each part meet the conditions of 1 part |
| Blackout fabric: |
|  - Min. width 1,000 mm; max. width 4,000 mm in 1 part (max. 16 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. |
| Dissapears into the box completely untill FH ≤ 2,800 mm. |
| Disappears into the box partially if H > 2,800 mm. In that case the bottom bar is visible for 33 mm (incl. sealing strip) in respect to the box. |
|  - Dimensions and weight of the bottom bar: 46 mm H x 30 mm thick (excl. sealing strip) = 0.85 kg/lm |
|  - Dimensions and weight of the steel bar: 30 mm H x 20 mm thick = 4.7 kg/rm (W = 3,120 mm: max. 17 kg) |
| 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** |
| 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 if standard; |
| 5-year warranty on the Fixscreen-technology if 'Freestanding' F: |
|  - 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 (2-year warranty for Crystal window). |
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| **Wind class** |
| This screen meets European standard EN13561. |
| Durability test result by the WTCB (Belgian Building Research Institute) (n° 651 XE823 CAR4139). |
| 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 126 km/h when closed (tested for a screen of 4,000 mm x 4,000 mm) |
|  - The wind resistance depends on the screen dimensions (W x H) and is available on request |
| Guaranteed up to 60 km/h when closed if 'Freestanding' F (EN 13561:2004+A1:2008 in accordance with wind resistance class 3). |
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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 |