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| **TOPFIX® VMS** |
| Renson Sunprotection-Screens, Industrial zone 1 Flanders Field, Kalkhoevestraat 45, 8790 Waregem – Belgium |
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| **Product features** |
| (text marked in red can be deleted depending on your choice) |
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| **Box** |
| Dimensions: 105 mm high and 100 mm deep |
| 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. |
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| **Installation** |
| This sun protection can be installed on a closed structure (such as a skylight). |
| The Topfix VMS is installed by means of mounting feet on the VELUX® Modular Skylight. |
| These mounting feet were especially designed to realize a perfect installation on the VELUX® Modular Skylights. |
| This sun protection is installed on 'fixed modules' of the VELUX® Modular Skylight structure. |
| The maximum width of the Topfix VMS determines the maximum quantity of 'VELUX® Modular Skylights-modules' that can be foreseen with sun protection for each Topfix VMS. |
| One or more 'Comfort ventilation' modules (open system control) or 'Smoke ventilation' modules can be equipped with sun protection, when installed between two 'fixed' modules. |
| Only top-bottom fittings are possible. The inclination of slope may vary between 0° and 90°. The usage of a specific fabric is defined in function of the inclination angle (see table). |
| The height of the mounting feet depends on the choice of ventilation: |
|  - If combination 'fixed' and 'comfort ventilation' modules (open system): H = 80 mm |
|  - If combination 'fixed' and 'smoke ventilation' modules: H = 160 mm |
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| **Fabric roller** |
| Made of galvanised steel. |
| Recessed fabric slot limits compression of the fabric strap. |
| Is equipped with patented conical endcaps to compensate for the thicker ends of the zip. |
| They also have a cord pulley to wind up the tension cord. |
| 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. |
| ● Polyester fabric (semi-transparent): |
| (Fire classification M1) |
|  - Weight: ± 380-420 g/m², thickness: 0.43-0.45 mm |
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| **Dimensions** |
| Min. width: 1,150 mm. |
| Max. with 4,000 mm and max. projection 3,000 mm in 1 part. |
| It is not possible to couple; it is possible to fit infinite Topfix VMS systems next to each other. |
| In function of the inclination of slope and the fabric type, different dimensions (depending on width and projection) are applicable (see table). |
|  - Polyester fabric can show wrinkles or folds |
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| **Side channels** |
| Are made of 2 extruded aluminum profiles. |
| Dimensions: |
|  - W 58 mm x D 48 mm side channel |
| 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 2 S-profiles, to avoid 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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| **Bottom bar** |
| Is made of 2 extruded aluminum profiles. |
|  - Dimensions bottom bar: H 90 mm x D 50 mm (excl. sealing strip) |
| The tension system is concealed in the bottom bar. To reduce contact noise between the draw spring and the aluminium bottom bar, the inside of the aluminium profile has an adhered damping strip. |
| 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 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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| **Tension system** |
| The revolutionary system pretensions the cord by means of springs located in the bottom bar. |
| There is a cord pulley on the left and right-hand sides of the fabric roller. |
| The UHMWPE-cord starts on this pulley, is then routed across the alignment wheel into the lower chamber of the side channel, and across the pulley in the top chamber of the side channel to the bottom bar runner. |
| The tension system is unique in combination with the Fixscreen-technology. Therefore windproof in any position. |
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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** |
| Type of motorization depends on the choice of ventilation: |
|  - If only 'fixed' modules: |
|  Electrical by 230VAC tubular motor, without manual emergency override |
|  - If combination 'fixed' and 'comfort ventilation' modules (open system): |
|  Electrical by 230VAC tubular motor with Standard Motor Interface, without manual emergency override (see automation) |
|  - If combination 'fixed' and 'smoke ventilation' modules: |
|  Electrical by 24VDC tubular motor, without manual emergency override (see automation) |
| Includes a cable equipped with a UV-resistant jacket. |
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| **Power supply, wiring and automation** |
| The power supply and all wiring are included in the electrical set. These should be provided by the M&E-engineer on site and is not part of the electrical set. |
| A junction box is required to guarantee a perfect electric connection between the VELUX VMS and the Topfix VMS. |
| Wires may be lead through the flashings using watertight grommets fitted to the thickness of the flashing. |
| A special protocol, approved by VELUX®, is integrated in the Building Management System. |
| This protocol is necessary to ensure a combined function between the VELUX® Modular Skylights and the Topfix VMS. |
|  - If 230 VAC tubular motor with standard motor interface > protocol needs to be integrated into the Building Management System |
|  - If 24 VDC tubular motor > to be realized with the WindowMaster FlexiSmoke module(s) |
| The Building Management System is not part of the sun protection package. |
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| **Warranty** |
| 10-year warranty on all coatings on the aluminium elements. |
| 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 120 km/h when closed if H (height of the mounting feet) = 80 mm (compliant to wind resistance class 3)\*. |
|  \* Wind tunnel test report 'Von Karmen' institute (n° EAR0852 - 2009-07) (W 2,000 mm x P 2,000 mm) |
| Guaranteed up to 80 km/h when closed if H (height of the mounting feet) = 160 mm (compliant to wind resistance class 3)\*. |
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| **Standards and certificates** |
| This product is manufactured according to, complies with and/or has been tested according to: EN 13561 |
| References and certificates: |
|  - Declaration of performance DOP 201409-F006 |