**RENSON WINDOW VENTILATION® SPECIFICATIONS**

**Brand : THM90*evo***

**Type : THM90*evo* - THM90PB*evo* - THM90TR*evo***

**Manufacturer and reference:**

The THM90*evo* is manufactured and supplied by Renson Ventilation Tel: +32 (0)56 62 71 11

**Description:**

The RENSON® THM90*evo* is a thermally broken, self-regulating window ventilator for installation on the glass, under the glass, or at transom. The entirely flat perforated (series of 2.7 x 18.5mm) inner profile acts as an insect mesh, and makes this the perfect solution for integration in sliding doors.

**System operation and performance:**

Self-regulating

Thermal conductivity: U-value = 3.8 W/m2K

Watertightness: up to 650Pa in closed position

Watertightness: up to 100Pa in open position

Air leakage at 50Pa : <15% (in closed position)

**Airflow and Sound Reduction:**

Dn,e,w (C;Ctr) open (dB) 26 (0;0)

Dn,e,w (C;Ctr) closed (dB) 45 (-1;-1)

Q at 1 Pa (l/s/m ) 9,3

Q at 1 Pa (m³/h/m) 33,5

Q at 2 Pa (l/s/m ) 13,9

Q at 2 Pa (m³/h/m) 50,0

Q at 10 Pa (l/s/m) 13,5

Q at 20 Pa (l/s/m) 15,1

Equivalent area (mm²/m) 11841

**Dimensions / Size Range:**

Glass reduction: 90mm

Height: 105mm

Fits to glass depths of: - THM90*evo* : 20, 24, 28 or 33 mm

* THM90PB*evo* : 20, 24 or 28 mm
* THM90TR*evo* : 20 or 24 mm

Maximum length: 2500mm

**Ventilator Construction:**

Profile: manufactured from aluminium alloy Al Mg Si 0.5

Thermal break: PVC

Pivoting and self-regulating flap: PVC

End caps: ASA polymer type Luran S (colour-fast, weather and UV-resistant)

**Surface treatment:**

Satin anodised (EV6/EV1) (20 micron): pre-treated and anodised.

Polyester powder coating in any RAL colour (60 to 70 micron): aluminium profiles pre-treated to resist corrosion to guarantee (dual colour possible).

End cap colours: white or black (other colours available on request).

**Controls Option:**

Manual: end caps control (5 stepped positions)

Rod (standard, with reduction gear or sliding knob) or cord are optional (5 stepped positions)

Motorised: 24V DC (only for made to measure vents)

**Installation:**

Glazed-in installation (on timber, aluminium or PVC window frames). The THM90*evo* can be installed on the glass, at the bottom of the window (THM90PB*evo* , 100kg max) or at transom (THM90TR*evo*). The THM90*evo* should only be used for installation on ground floors.

**Standards:**

EN ISO 140-10, EN ISO 717-1, EN 1026, EN 1027, EN 13141-1, EN 12020-2, EN AW 6063 T66, NBN D50-001, EN 1077-2, DIN16491.