**RENSON WINDOW VENTILATION® SPECIFICATIONS**

**Brand : glazed-in/at transom window ventilator**

**Type : AR90**

**Manufacturer and reference:**

The AR90 is manufactured and supplied by Renson Ventilation Tel: +32 (0)56 62 71 11

**Description:**

The RENSON® AR90 is a self-regulating, thermally broken window ventilator for glazed-in installation (or at transom). The flat perforated (series of 2.7 x 18.5mm) inner profile acts as an insect mesh, and makes this an ideal solution for integration in the fixed part of sliding doors. An external hood is added for additional weather protection.

**System operation and performance:**

Self-regulating

Thermal conductivity: U-value = 3.9 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) 30 (-1;-2)

Dn,e,w (C;Ctr) closed (dB) 45 (-1;-3)

Q at 1 Pa (l/s/m ) 11,2

Q at 1 Pa (m³/h/m) 40,3

Q at 2 Pa (l/s/m ) 15,6

Q at 2 Pa (m³/h/m) 56,2

Q at 10 Pa (l/s/m) 11,4

Q at 20 Pa (l/s/m) 9,1

Equivalent area (mm²/m) 14252

**Dimensions / Size Range:**

Glass reduction: 90mm

Height: 105mm

Fits to glass depths of: 20, 24, 28 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), or also possible at transom between two additional transom profiles. Glazing gasket recommended.

**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.